



# BARGE "EMS 404"

# 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	427.74	0	776.64	0	1,174.20	0	1,605.91	0	2,060.36	0	2,527.66	0	2,998.68	0	3,464.49
1/4	1.15	1/4	155.60	1/4	434.43	1/4	784.52	1/4	1,182.91	1/4	1,615.20	1/4	2,070.00	1/4	2,537.47	1/4	3,008.47	1/4	3,474.07
1/2	2.10	1/2	160.24	1/2	441.12	1/2	792.39	1/2	1,191.62	1/2	1,624.49	1/2	2,079.65	1/2	2,547.28	1/2	3,018.25	1/2	3,483.64
3/4	3.04	3/4	164.87	3/4	447.81	3/4	800.27	3/4	1,200.33	3/4	1,633.77	3/4	2,089.29	3/4	2,557.09	3/4	3,028.04	3/4	3,493.21
1	3.99	1	169.50	1	454.50	1	808.14	1	1,209.05	1	1,643.06	1	2,098.94	1	2,566.89	1	3,037.82	1	3,502.79
1/4	5.72	1/4	174.46	1/4	461.31	1/4	816.10	1/4	1,217.81	1/4	1,652.38	1/4	2,108.61	1/4	2,576.71	1/4	3,047.60	1/4	3,512.34
1/2	7.45	1/2	179.42	1/2	468.12	1/2	824.05	1/2	1,226.58	1/2	1,661.71	1/2	2,118.27	1/2	2,586.52	1/2	3,057.37	1/2	3,521.88
3/4	9.18	3/4	184.38	3/4	474.93	3/4	832.01	3/4	1,235.35	3/4	1,671.03	3/4	2,127.94	3/4	2,596.33	3/4	3,067.15	3/4	3,531.43
2	10.91	2	189.35	2	481.73	2	839.97	2	1,244.12	2	1,680.36	2	2,137.60	2	2,606.15	2	3,076.92	2	3,540.98
1/4	13.15	1/4	194.63	1/4	488.65	1/4	848.00	1/4	1,252.94	1/4	1,689.72	1/4	2,147.29	1/4	2,615.97	1/4	3,086.69	1/4	3,550.50
1/2	15.39	1/2	199.92	1/2	495.57	1/2	856.04	1/2	1,261.76	1/2	1,699.08	1/2	2,156.97	1/2	2,625.78	1/2	3,096.45	1/2	3,560.02
3/4	17.63	3/4	205.20	3/4	502.49	3/4	864.08	3/4	1,270.59	3/4	1,708.44	3/4	2,166.66	3/4	2,635.60	3/4	3,106.21	3/4	3,569.54
3	19.87	3	210.48	3	509.41	3	872.11	3	1,279.41	3	1,717.80	3	2,176.34	3	2,645.42	3	3,115.98	3	3,579.06
1/4	22.52	1/4	215.94	1/4	516.44	1/4	880.22	1/4	1,288.29	1/4	1,727.19	1/4	2,186.05	1/4	2,655.24	1/4	3,125.73	1/4	3,588.55
1/2	25.17	1/2	221.39	1/2	523.47	1/2	888.34	1/2	1,297.16	1/2	1,736.59	1/2	2,195.75	1/2	2,665.06	1/2	3,135.48	1/2	3,598.04
3/4	27.82	3/4	226.84	3/4	530.50	3/4	896.45	3/4	1,306.04	3/4	1,745.98	3/4	2,205.45	3/4	2,674.88	3/4	3,145.23	3/4	3,607.53
4	30.47	4	232.29	4	537.52	4	904.56	4	1,314.92	4	1,755.38	4	2,215.16	4	2,684.70	4	3,154.98	4	3,617.03
1/4	33.47	1/4	237.90	1/4	544.66	1/4	912.75	1/4	1,323.85	1/4	1,764.81	1/4	2,224.88	1/4	2,694.52	1/4	3,164.71	1/4	3,626.49
1/2	36.48	1/2	243.51	1/2	551.79	1/2	920.93	1/2	1,332.78	1/2	1,774.24	1/2	2,234.60	1/2	2,704.34	1/2	3,174.45	1/2	3,635.95
3/4	39.48	3/4	249.12	3/4	558.92	3/4	929.12	3/4	1,341.71	3/4	1,783.67	3/4	2,244.32	3/4	2,714.16	3/4	3,184.19	3/4	3,645.41
5	42.48	5	254.73	5	566.06	5	937.31	5	1,350.63	5	1,793.09	5	2,254.04	5	2,723.98	5	3,193.92	5	3,654.87
1/4	45.79	1/4	260.49	1/4	573.29	1/4	945.57	1/4	1,359.61	1/4	1,802.56	1/4	2,263.78	1/4	2,733.80	1/4	3,203.64	1/4	3,664.30
1/2	49.11	1/2	266.25	1/2	580.53	1/2	953.83	1/2	1,368.59	1/2	1,812.02	1/2	2,273.51	1/2	2,743.62	1/2	3,213.36	1/2	3,673.72
3/4	52.42	3/4	272.02	3/4	587.77	3/4	962.09	3/4	1,377.57	3/4	1,821.48	3/4	2,283.25	3/4	2,753.44	3/4	3,223.08	3/4	3,683.15
6	55.74	6	277.78	6	595.00	6	970.34	6	1,386.55	6	1,830.94	6	2,292.98	6	2,763.27	6	3,232.80	6	3,692.58
1/4	59.33	1/4	283.69	1/4	602.34	1/4	978.67	1/4	1,395.58	1/4	1,840.43	1/4	2,302.73	1/4	2,773.09	1/4	3,242.51	1/4	3,701.98
1/2	62.93	1/2	289.60	1/2	609.67	1/2	987.00	1/2	1,404.61	1/2	1,849.92	1/2	2,312.48	1/2	2,782.91	1/2	3,252.21	1/2	3,711.37
3/4	66.53	3/4	295.51	3/4	617.01	3/4	995.33	3/4	1,413.64	3/4	1,859.41	3/4	2,322.24	3/4	2,792.72	3/4	3,261.91	3/4	3,720.77
7	70.13	7	301.42	7	624.35	7	1,003.66	7	1,422.66	7	1,868.90	7	2,331.99	7	2,802.54	7	3,271.62	7	3,730.16
1/4	73.83	1/4	307.47	1/4	631.78	1/4	1,012.06	1/4	1,431.74	1/4	1,878.42	1/4	2,341.75	1/4	2,812.36	1/4	3,281.30	1/4	3,739.52
1/2	77.54	1/2	313.52	1/2	639.21	1/2	1,020.46	1/2	1,440.81	1/2	1,887.94	1/2	2,351.51	1/2	2,822.18	1/2	3,290.99	1/2	3,748.88
3/4	81.25	3/4	319.57	3/4	646.64	3/4	1,028.86	3/4	1,449.89	3/4	1,897.46	3/4	2,361.27	3/4	2,832.00	3/4	3,300.67	3/4	3,758.24
8	84.95	8	325.62	8	654.08	8	1,037.26	8	1,458.96	8	1,906.98	8	2,371.04	8	2,841.81	8	3,310.36	8	3,767.61
1/4	88.75	1/4	331.81	1/4	661.60	1/4	1,045.72	1/4	1,468.08	1/4	1,916.53	1/4	2,380.81	1/4	2,851.63	1/4	3,320.03	1/4	3,776.93
1/2	92.55	1/2	338.00	1/2	669.13	1/2	1,054.18	1/2	1,477.20	1/2	1,926.08	1/2	2,390.59	1/2	2,861.44	1/2	3,329.69	1/2	3,786.25
3/4	96.35	3/4	344.19	3/4	676.65	3/4	1,062.65	3/4	1,486.32	3/4	1,935.63	3/4	2,400.36	3/4	2,871.25	3/4	3,339.36	3/4	3,795.58
9	100.14	9	350.38	9	684.18	9	1,071.11	9	1,495.44	9	1,945.17	9	2,410.14	9	2,881.07	9	3,349.02	9	3,804.90
1/4	104.17	1/4	356.70	1/4	691.80	1/4	1,079.64	1/4	1,504.61	1/4	1,954.75	1/4	2,419.92	1/4	2,890.88	1/4	3,358.67	1/4	3,814.19
1/2	108.20	1/2	363.02	1/2	699.41	1/2	1,088.17	1/2	1,513.77	1/2	1,964.32	1/2	2,429.71	1/2	2,900.68	1/2	3,368.31	1/2	3,823.48
3/4	112.23	3/4	369.34	3/4	707.03	3/4	1,096.70	3/4	1,522.94	3/4	1,973.90	3/4	2,439.49	3/4	2,910.49	3/4	3,377.96	3/4	3,832.76
10	116.25	10	375.66	10	714.65	10	1,105.23	10	1,532.10	10	1,983.47	10	2,449.28	10	2,920.30	10	3,387.60	10	3,842.05
1/4	120.49	1/4	382.11	1/4	722.36	1/4	1,113.82	1/4	1,541.31	1/4	1,993.07	1/4	2,459.07	1/4	2,930.10	1/4	3,397.23	1/4	3,851.30
1/2	124.73	1/2	388.56	1/2	730.06	1/2	1,122.41	1/2	1,550.51	1/2	2,002.67	1/2	2,468.87	1/2	2,939.90	1/2	3,406.85	1/2	3,860.54
3/4	128.97	3/4	395.00	3/4	737.77	3/4	1,131.00	3/4	1,559.72	3/4	2,012.27	3/4	2,478.66	3/4	2,949.71	3/4	3,416.47	3/4	3,869.79
11	133.21	11	401.45	11	745.47	11	1,139.59	11	1,568.93	11	2,021.87	11	2,488.45	11	2,959.51	11	3,426.09	11	3,879.04
1/4	137.65	1/4	408.02	1/4	753.26	1/4	1,148.25	1/4	1,578.17	1/4	2,031.49	1/4	2,498.26	1/4	2,969.30	1/4	3,435.69	1/4	3,888.24
1/2	142.09	1/2	414.60	1/2	761.06	1/2	1,156.90	1/2	1,587.42	1/2	2,041.11	1/2	2,508.06	1/2	2,979.10	1/2	3,445.29	1/2	3,897.45
3/4	146.53	3/4	421.17	3/4	768.85	3/4	1,165.55	3/4	1,596.67	3/4	2,050.74	3/4	2,517.86	3/4	2,988.89	3/4	3,454.89	3/4	3,906.66

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.

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# BARGE "EMS 404"

## 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	3,915.86	0	4,342.73	0	4,733.31	0	5,072.29	0	5,335.90	0		0		0		0		0	
1/4	3,925.03	1/4	4,351.26	1/4	4,740.93	1/4	5,078.61	1/4	5,340.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,934.19	1/2	4,359.79	1/2	4,748.55	1/2	5,084.93	1/2	5,344.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,943.35	3/4	4,368.32	3/4	4,756.16	3/4	5,091.25	3/4	5,348.89	3/4		3/4		3/4		3/4		3/4	
1	3,952.52	1	4,376.85	1	4,763.78	1	5,097.57	1	5,353.21	1		1		1		1		1	
1/4	3,961.64	1/4	4,385.31	1/4	4,771.31	1/4	5,103.76	1/4	5,357.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,970.76	1/2	4,393.78	1/2	4,778.83	1/2	5,109.95	1/2	5,361.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,979.88	3/4	4,402.24	3/4	4,786.36	3/4	5,116.13	3/4	5,365.52	3/4		3/4		3/4		3/4		3/4	
2	3,989.00	2	4,410.71	2	4,793.89	2	5,122.32	2	5,369.62	2		2		2		2		2	
1/4	3,998.07	1/4	4,419.10	1/4	4,801.32	1/4	5,128.37	1/4	5,373.48	1/4		1/4		1/4		1/4		1/4	
1/2	4,007.15	1/2	4,427.50	1/2	4,808.75	1/2	5,134.42	1/2	5,377.34	1/2		1/2		1/2		1/2		1/2	
3/4	4,016.22	3/4	4,435.90	3/4	4,816.18	3/4	5,140.47	3/4	5,381.21	3/4		3/4		3/4		3/4		3/4	
3	4,025.30	3	4,444.30	3	4,823.62	3	5,146.52	3	5,385.07	3		3		3		3		3	
1/4	4,034.33	1/4	4,452.63	1/4	4,830.95	1/4	5,152.43	1/4	5,388.67	1/4		1/4		1/4		1/4		1/4	
1/2	4,043.35	1/2	4,460.96	1/2	4,838.29	1/2	5,158.34	1/2	5,392.27	1/2		1/2		1/2		1/2		1/2	
3/4	4,052.38	3/4	4,469.29	3/4	4,845.62	3/4	5,164.25	3/4	5,395.87	3/4		3/4		3/4		3/4		3/4	
4	4,061.41	4	4,477.62	4	4,852.96	4	5,170.16	4	5,399.47	4		4		4		4		4	
1/4	4,070.39	1/4	4,485.88	1/4	4,860.20	1/4	5,175.92	1/4	5,402.79	1/4		1/4		1/4		1/4		1/4	
1/2	4,079.37	1/2	4,494.14	1/2	4,867.43	1/2	5,181.69	1/2	5,406.11	1/2		1/2		1/2		1/2		1/2	
3/4	4,088.35	3/4	4,502.40	3/4	4,874.67	3/4	5,187.45	3/4	5,409.43	3/4		3/4		3/4		3/4		3/4	
5	4,097.33	5	4,510.65	5	4,881.90	5	5,193.22	5	5,412.74	5		5		5		5		5	
1/4	4,106.26	1/4	4,518.84	1/4	4,889.04	1/4	5,198.83	1/4	5,415.75	1/4		1/4		1/4		1/4		1/4	
1/2	4,115.19	1/2	4,527.03	1/2	4,896.17	1/2	5,204.44	1/2	5,418.76	1/2		1/2		1/2		1/2		1/2	
3/4	4,124.11	3/4	4,535.22	3/4	4,903.31	3/4	5,210.05	3/4	5,421.76	3/4		3/4		3/4		3/4		3/4	
6	4,133.04	6	4,543.40	6	4,910.44	6	5,215.66	6	5,424.77	6		6		6		6		6	
1/4	4,141.92	1/4	4,551.51	1/4	4,917.47	1/4	5,221.11	1/4	5,427.42	1/4		1/4		1/4		1/4		1/4	
1/2	4,150.80	1/2	4,559.63	1/2	4,924.50	1/2	5,226.56	1/2	5,430.08	1/2		1/2		1/2		1/2		1/2	
3/4	4,159.67	3/4	4,567.74	3/4	4,931.52	3/4	5,232.01	3/4	5,432.73	3/4		3/4		3/4		3/4		3/4	
7	4,168.55	7	4,575.85	7	4,938.55	7	5,237.46	7	5,435.38	7		7		7		7		7	
1/4	4,177.37	1/4	4,583.89	1/4	4,945.47	1/4	5,242.75	1/4	5,437.63	1/4		1/4		1/4		1/4		1/4	
1/2	4,186.20	1/2	4,591.92	1/2	4,952.39	1/2	5,248.04	1/2	5,439.87	1/2		1/2		1/2		1/2		1/2	
3/4	4,195.02	3/4	4,599.96	3/4	4,959.31	3/4	5,253.32	3/4	5,442.12	3/4		3/4		3/4		3/4		3/4	
8	4,203.84	8	4,607.99	8	4,966.23	8	5,258.61	8	5,444.36	8		8		8		8		8	
1/4	4,212.61	1/4	4,615.95	1/4	4,973.04	1/4	5,263.72	1/4	5,446.10	1/4		1/4		1/4		1/4		1/4	
1/2	4,221.38	1/2	4,623.91	1/2	4,979.84	1/2	5,268.83	1/2	5,447.83	1/2		1/2		1/2		1/2		1/2	
3/4	4,230.15	3/4	4,631.86	3/4	4,986.65	3/4	5,273.95	3/4	5,449.57	3/4		3/4		3/4		3/4		3/4	
9	4,238.92	9	4,639.82	9	4,993.46	9	5,279.06	9	5,451.30	9		9		9		9		9	
1/4	4,247.63	1/4	4,647.70	1/4	5,000.15	1/4	5,283.99	1/4	5,452.25	1/4		1/4		1/4		1/4		1/4	
1/2	4,256.34	1/2	4,655.57	1/2	5,006.84	1/2	5,288.92	1/2	5,453.20	1/2		1/2		1/2		1/2		1/2	
3/4	4,265.05	3/4	4,663.45	3/4	5,013.53	3/4	5,293.85	3/4	5,454.15	3/4		3/4		3/4		3/4		3/4	
10	4,273.76	10	4,671.32	10	5,020.22	10	5,298.78	10	5,455.10	10		10		10		10		10	
1/4	4,282.41	1/4	4,679.11	1/4	5,026.79	1/4	5,303.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,291.06	1/2	4,686.91	1/2	5,033.36	1/2	5,308.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,299.72	3/4	4,694.70	3/4	5,039.93	3/4	5,313.00	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,308.37	11	4,702.49	11	5,046.51	11	5,317.74	11		11		11		11		11		11	
1/4	4,316.96	1/4	4,710.20	1/4	5,052.95	1/4	5,322.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,325.55	1/2	4,717.90	1/2	5,059.40	1/2	5,326.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,334.14	3/4	4,725.61	3/4	5,065.85	3/4	5,331.36	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 01/27/2012 CL - SW  
CALCULATED: 01/29/2012 CL  
PRINTED: 01/29/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2012

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



# BARGE "EMS 404"

# 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	151.06	0	427.99	0	777.10	0	1,174.91	0	1,606.90	0	2,061.64	0	2,529.24	0	3,000.57	0	3,466.68
1/4	1.15	1/4	155.69	1/4	434.68	1/4	784.98	1/4	1,183.63	1/4	1,616.19	1/4	2,071.29	1/4	2,539.06	1/4	3,010.36	1/4	3,476.26
1/2	2.10	1/2	160.33	1/2	441.38	1/2	792.86	1/2	1,192.35	1/2	1,625.49	1/2	2,080.94	1/2	2,548.87	1/2	3,020.16	1/2	3,485.84
3/4	3.04	3/4	164.96	3/4	448.07	3/4	800.74	3/4	1,201.06	3/4	1,634.78	3/4	2,090.59	3/4	2,558.69	3/4	3,029.95	3/4	3,495.42
1	3.99	1	169.59	1	454.77	1	808.62	1	1,209.78	1	1,644.07	1	2,100.24	1	2,568.50	1	3,039.74	1	3,505.00
1/4	5.72	1/4	174.56	1/4	461.58	1/4	816.58	1/4	1,218.55	1/4	1,653.40	1/4	2,109.92	1/4	2,578.32	1/4	3,049.52	1/4	3,514.56
1/2	7.45	1/2	179.52	1/2	468.39	1/2	824.55	1/2	1,227.33	1/2	1,662.73	1/2	2,119.59	1/2	2,588.14	1/2	3,059.30	1/2	3,524.11
3/4	9.18	3/4	184.49	3/4	475.20	3/4	832.51	3/4	1,236.10	3/4	1,672.06	3/4	2,129.26	3/4	2,597.96	3/4	3,069.08	3/4	3,533.67
2	10.91	2	189.45	2	482.01	2	840.47	2	1,244.87	2	1,681.39	2	2,138.93	2	2,607.78	2	3,078.86	2	3,543.22
1/4	13.16	1/4	194.74	1/4	488.94	1/4	848.51	1/4	1,253.70	1/4	1,690.76	1/4	2,148.62	1/4	2,617.61	1/4	3,088.63	1/4	3,552.75
1/2	15.40	1/2	200.03	1/2	495.86	1/2	856.55	1/2	1,262.53	1/2	1,700.12	1/2	2,158.32	1/2	2,627.43	1/2	3,098.40	1/2	3,562.27
3/4	17.64	3/4	205.32	3/4	502.79	3/4	864.59	3/4	1,271.36	3/4	1,709.49	3/4	2,168.01	3/4	2,637.25	3/4	3,108.17	3/4	3,571.80
3	19.88	3	210.61	3	509.71	3	872.63	3	1,280.19	3	1,718.86	3	2,177.70	3	2,647.08	3	3,117.94	3	3,581.33
1/4	22.53	1/4	216.06	1/4	516.74	1/4	880.75	1/4	1,289.07	1/4	1,728.26	1/4	2,187.41	1/4	2,656.90	1/4	3,127.70	1/4	3,590.82
1/2	25.18	1/2	221.51	1/2	523.77	1/2	888.87	1/2	1,297.95	1/2	1,737.66	1/2	2,197.12	1/2	2,666.73	1/2	3,137.45	1/2	3,600.32
3/4	27.84	3/4	226.97	3/4	530.81	3/4	896.98	3/4	1,306.84	3/4	1,747.06	3/4	2,206.83	3/4	2,676.55	3/4	3,147.21	3/4	3,609.82
4	30.49	4	232.42	4	537.84	4	905.10	4	1,315.72	4	1,756.46	4	2,216.54	4	2,686.38	4	3,156.97	4	3,619.31
1/4	33.49	1/4	238.03	1/4	544.98	1/4	913.29	1/4	1,324.65	1/4	1,765.90	1/4	2,226.26	1/4	2,696.21	1/4	3,166.71	1/4	3,628.78
1/2	36.50	1/2	243.65	1/2	552.11	1/2	921.49	1/2	1,333.59	1/2	1,775.33	1/2	2,235.99	1/2	2,706.04	1/2	3,176.45	1/2	3,638.25
3/4	39.50	3/4	249.26	3/4	559.25	3/4	929.68	3/4	1,342.52	3/4	1,784.77	3/4	2,245.72	3/4	2,715.86	3/4	3,186.19	3/4	3,647.71
5	42.50	5	254.87	5	566.39	5	937.87	5	1,351.46	5	1,794.20	5	2,255.44	5	2,725.69	5	3,195.94	5	3,657.18
1/4	45.82	1/4	260.64	1/4	573.63	1/4	946.13	1/4	1,360.44	1/4	1,803.67	1/4	2,265.19	1/4	2,735.52	1/4	3,205.66	1/4	3,666.62
1/2	49.13	1/2	266.41	1/2	580.87	1/2	954.40	1/2	1,369.43	1/2	1,813.13	1/2	2,274.93	1/2	2,745.35	1/2	3,215.39	1/2	3,676.05
3/4	52.45	3/4	272.17	3/4	588.11	3/4	962.66	3/4	1,378.41	3/4	1,822.60	3/4	2,284.67	3/4	2,755.17	3/4	3,225.12	3/4	3,685.49
6	55.77	6	277.94	6	595.35	6	970.93	6	1,387.40	6	1,832.07	6	2,294.41	6	2,765.00	6	3,234.84	6	3,694.92
1/4	59.37	1/4	283.85	1/4	602.69	1/4	979.26	1/4	1,396.43	1/4	1,841.57	1/4	2,304.17	1/4	2,774.83	1/4	3,244.55	1/4	3,704.32
1/2	62.97	1/2	289.77	1/2	610.03	1/2	987.60	1/2	1,405.46	1/2	1,851.06	1/2	2,313.93	1/2	2,784.65	1/2	3,254.26	1/2	3,713.72
3/4	66.56	3/4	295.68	3/4	617.37	3/4	995.93	3/4	1,414.50	3/4	1,860.56	3/4	2,323.68	3/4	2,794.48	3/4	3,263.97	3/4	3,723.12
7	70.16	7	301.59	7	624.71	7	1,004.27	7	1,423.53	7	1,870.06	7	2,333.44	7	2,804.31	7	3,273.68	7	3,732.53
1/4	73.87	1/4	307.65	1/4	632.15	1/4	1,012.67	1/4	1,432.61	1/4	1,879.58	1/4	2,343.21	1/4	2,814.13	1/4	3,283.38	1/4	3,741.89
1/2	77.58	1/2	313.70	1/2	639.59	1/2	1,021.07	1/2	1,441.69	1/2	1,889.11	1/2	2,352.98	1/2	2,823.95	1/2	3,293.07	1/2	3,751.26
3/4	81.29	3/4	319.76	3/4	647.03	3/4	1,029.48	3/4	1,450.77	3/4	1,898.64	3/4	2,362.75	3/4	2,833.78	3/4	3,302.76	3/4	3,760.63
8	85.00	8	325.81	8	654.46	8	1,037.88	8	1,459.85	8	1,908.16	8	2,372.52	8	2,843.60	8	3,312.45	8	3,769.99
1/4	88.80	1/4	332.00	1/4	661.99	1/4	1,046.35	1/4	1,468.98	1/4	1,917.72	1/4	2,382.30	1/4	2,853.42	1/4	3,322.12	1/4	3,779.32
1/2	92.60	1/2	338.20	1/2	669.52	1/2	1,054.82	1/2	1,478.11	1/2	1,927.27	1/2	2,392.08	1/2	2,863.24	1/2	3,331.79	1/2	3,788.65
3/4	96.40	3/4	344.39	3/4	677.05	3/4	1,063.29	3/4	1,487.23	3/4	1,936.82	3/4	2,401.86	3/4	2,873.06	3/4	3,341.47	3/4	3,797.98
9	100.20	9	350.58	9	684.58	9	1,071.76	9	1,496.36	9	1,946.38	9	2,411.64	9	2,882.88	9	3,351.14	9	3,807.31
1/4	104.23	1/4	356.91	1/4	692.21	1/4	1,080.29	1/4	1,505.53	1/4	1,955.96	1/4	2,421.43	1/4	2,892.69	1/4	3,360.79	1/4	3,816.60
1/2	108.26	1/2	363.23	1/2	699.83	1/2	1,088.83	1/2	1,514.70	1/2	1,965.54	1/2	2,431.23	1/2	2,902.51	1/2	3,370.44	1/2	3,825.90
3/4	112.29	3/4	369.55	3/4	707.45	3/4	1,097.36	3/4	1,523.87	3/4	1,975.12	3/4	2,441.02	3/4	2,912.32	3/4	3,380.09	3/4	3,835.19
10	116.32	10	375.88	10	715.07	10	1,105.90	10	1,533.04	10	1,984.70	10	2,450.81	10	2,922.14	10	3,389.74	10	3,844.48
1/4	120.56	1/4	382.33	1/4	722.78	1/4	1,114.49	1/4	1,542.25	1/4	1,994.31	1/4	2,460.61	1/4	2,931.95	1/4	3,399.37	1/4	3,853.74
1/2	124.80	1/2	388.78	1/2	730.49	1/2	1,123.09	1/2	1,551.46	1/2	2,003.91	1/2	2,470.41	1/2	2,941.75	1/2	3,409.00	1/2	3,862.99
3/4	129.05	3/4	395.23	3/4	738.20	3/4	1,131.69	3/4	1,560.68	3/4	2,013.52	3/4	2,480.21	3/4	2,951.56	3/4	3,418.63	3/4	3,872.24
11	133.29	11	401.69	11	745.91	11	1,140.28	11	1,569.89	11	2,023.12	11	2,490.01	11	2,961.37	11	3,428.26	11	3,881.49
1/4	137.73	1/4	408.26	1/4	753.71	1/4	1,148.94	1/4	1,579.14	1/4	2,032.75	1/4	2,499.82	1/4	2,971.17	1/4	3,437.87	1/4	3,890.71
1/2	142.17	1/2	414.84	1/2	761.51	1/2	1,157.60	1/2	1,588.39	1/2	2,042.38	1/2	2,509.63	1/2	2,980.97	1/2	3,447.47	1/2	3,899.92
3/4	146.62	3/4	421.41	3/4	769.30	3/4	1,166.25	3/4	1,597.65	3/4	2,052.01	3/4	2,519.44	3/4	2,990.77	3/4	3,457.08	3/4	3,909.13

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 404"

## 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	3,918.34	0	4,345.49	0	4,736.31	0	5,075.50	0	5,339.26	0		0		0		0		0	
1/4	3,927.51	1/4	4,354.02	1/4	4,743.93	1/4	5,081.82	1/4	5,343.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,936.68	1/2	4,362.56	1/2	4,751.55	1/2	5,088.14	1/2	5,347.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,945.85	3/4	4,371.09	3/4	4,759.18	3/4	5,094.47	3/4	5,352.25	3/4		3/4		3/4		3/4		3/4	
1	3,955.02	1	4,379.62	1	4,766.80	1	5,100.79	1	5,356.58	1		1		1		1		1	
1/4	3,964.15	1/4	4,388.09	1/4	4,774.33	1/4	5,106.98	1/4	5,360.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,973.28	1/2	4,396.56	1/2	4,781.86	1/2	5,113.17	1/2	5,364.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,982.40	3/4	4,405.03	3/4	4,789.39	3/4	5,119.36	3/4	5,368.89	3/4		3/4		3/4		3/4		3/4	
2	3,991.53	2	4,413.50	2	4,796.92	2	5,125.55	2	5,373.00	2		2		2		2		2	
1/4	4,000.61	1/4	4,421.91	1/4	4,804.36	1/4	5,131.61	1/4	5,376.86	1/4		1/4		1/4		1/4		1/4	
1/2	4,009.69	1/2	4,430.31	1/2	4,811.79	1/2	5,137.66	1/2	5,380.72	1/2		1/2		1/2		1/2		1/2	
3/4	4,018.77	3/4	4,438.71	3/4	4,819.23	3/4	5,143.72	3/4	5,384.59	3/4		3/4		3/4		3/4		3/4	
3	4,027.85	3	4,447.12	3	4,826.67	3	5,149.77	3	5,388.45	3		3		3		3		3	
1/4	4,036.88	1/4	4,455.45	1/4	4,834.01	1/4	5,155.68	1/4	5,392.05	1/4		1/4		1/4		1/4		1/4	
1/2	4,045.92	1/2	4,463.79	1/2	4,841.35	1/2	5,161.60	1/2	5,395.65	1/2		1/2		1/2		1/2		1/2	
3/4	4,054.95	3/4	4,472.12	3/4	4,848.69	3/4	5,167.51	3/4	5,399.26	3/4		3/4		3/4		3/4		3/4	
4	4,063.98	4	4,480.45	4	4,856.03	4	5,173.42	4	5,402.86	4		4		4		4		4	
1/4	4,072.97	1/4	4,488.72	1/4	4,863.27	1/4	5,179.19	1/4	5,406.18	1/4		1/4		1/4		1/4		1/4	
1/2	4,081.95	1/2	4,496.98	1/2	4,870.51	1/2	5,184.95	1/2	5,409.50	1/2		1/2		1/2		1/2		1/2	
3/4	4,090.94	3/4	4,505.25	3/4	4,877.75	3/4	5,190.72	3/4	5,412.82	3/4		3/4		3/4		3/4		3/4	
5	4,099.92	5	4,513.51	5	4,884.99	5	5,196.49	5	5,416.14	5		5		5		5		5	
1/4	4,108.86	1/4	4,521.70	1/4	4,892.13	1/4	5,202.10	1/4	5,419.15	1/4		1/4		1/4		1/4		1/4	
1/2	4,117.79	1/2	4,529.90	1/2	4,899.27	1/2	5,207.72	1/2	5,422.16	1/2		1/2		1/2		1/2		1/2	
3/4	4,126.73	3/4	4,538.09	3/4	4,906.41	3/4	5,213.33	3/4	5,425.16	3/4		3/4		3/4		3/4		3/4	
6	4,135.66	6	4,546.28	6	4,913.54	6	5,218.94	6	5,428.17	6		6		6		6		6	
1/4	4,144.55	1/4	4,554.40	1/4	4,920.58	1/4	5,224.40	1/4	5,430.83	1/4		1/4		1/4		1/4		1/4	
1/2	4,153.43	1/2	4,562.52	1/2	4,927.61	1/2	5,229.85	1/2	5,433.48	1/2		1/2		1/2		1/2		1/2	
3/4	4,162.31	3/4	4,570.63	3/4	4,934.64	3/4	5,235.31	3/4	5,436.14	3/4		3/4		3/4		3/4		3/4	
7	4,171.19	7	4,578.75	7	4,941.67	7	5,240.76	7	5,438.79	7		7		7		7		7	
1/4	4,180.02	1/4	4,586.79	1/4	4,948.60	1/4	5,246.05	1/4	5,441.04	1/4		1/4		1/4		1/4		1/4	
1/2	4,188.85	1/2	4,594.83	1/2	4,955.52	1/2	5,251.34	1/2	5,443.29	1/2		1/2		1/2		1/2		1/2	
3/4	4,197.68	3/4	4,602.87	3/4	4,962.44	3/4	5,256.63	3/4	5,445.53	3/4		3/4		3/4		3/4		3/4	
8	4,206.51	8	4,610.91	8	4,969.37	8	5,261.92	8	5,447.78	8		8		8		8		8	
1/4	4,215.28	1/4	4,618.87	1/4	4,976.18	1/4	5,267.03	1/4	5,449.51	1/4		1/4		1/4		1/4		1/4	
1/2	4,224.06	1/2	4,626.84	1/2	4,982.99	1/2	5,272.15	1/2	5,451.25	1/2		1/2		1/2		1/2		1/2	
3/4	4,232.83	3/4	4,634.80	3/4	4,989.80	3/4	5,277.27	3/4	5,452.98	3/4		3/4		3/4		3/4		3/4	
9	4,241.60	9	4,642.76	9	4,996.61	9	5,282.38	9	5,454.72	9		9		9		9		9	
1/4	4,250.32	1/4	4,650.64	1/4	5,003.31	1/4	5,287.31	1/4	5,455.67	1/4		1/4		1/4		1/4		1/4	
1/2	4,259.04	1/2	4,658.52	1/2	5,010.00	1/2	5,292.25	1/2	5,456.62	1/2		1/2		1/2		1/2		1/2	
3/4	4,267.75	3/4	4,666.40	3/4	5,016.70	3/4	5,297.18	3/4	5,457.57	3/4		3/4		3/4		3/4		3/4	
10	4,276.47	10	4,674.28	10	5,023.39	10	5,302.12	10	5,458.52	10		10		10		10		10	
1/4	4,285.13	1/4	4,682.08	1/4	5,029.97	1/4	5,306.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,293.78	1/2	4,689.87	1/2	5,036.54	1/2	5,311.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,302.44	3/4	4,697.67	3/4	5,043.12	3/4	5,316.35	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,311.10	11	4,705.47	11	5,049.69	11	5,321.09	11		11		11		11		11		11	
1/4	4,319.70	1/4	4,713.18	1/4	5,056.14	1/4	5,325.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,328.29	1/2	4,720.89	1/2	5,062.59	1/2	5,330.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,336.89	3/4	4,728.60	3/4	5,069.05	3/4	5,334.72	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/27/2012 CL - SW  
CALCULATED: 01/29/2012 CL  
PRINTED: 01/29/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2012

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



# BARGE "EMS 404"

# 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	150.97	0	427.72	0	776.59	0	1,174.13	0	1,605.80	0	2,060.21	0	2,527.47	0	2,998.45	0	3,464.21
1/4	1.15	1/4	155.60	1/4	434.41	1/4	784.47	1/4	1,182.84	1/4	1,615.09	1/4	2,069.85	1/4	2,537.27	1/4	3,008.23	1/4	3,473.78
1/2	2.10	1/2	160.23	1/2	441.10	1/2	792.34	1/2	1,191.55	1/2	1,624.37	1/2	2,079.49	1/2	2,547.08	1/2	3,018.01	1/2	3,483.36
3/4	3.04	3/4	164.86	3/4	447.79	3/4	800.22	3/4	1,200.26	3/4	1,633.66	3/4	2,089.14	3/4	2,556.89	3/4	3,027.80	3/4	3,492.93
1	3.99	1	169.49	1	454.48	1	808.09	1	1,208.97	1	1,642.94	1	2,098.78	1	2,566.70	1	3,037.58	1	3,502.50
1/4	5.72	1/4	174.45	1/4	461.29	1/4	816.05	1/4	1,217.73	1/4	1,652.27	1/4	2,108.45	1/4	2,576.51	1/4	3,047.36	1/4	3,512.05
1/2	7.45	1/2	179.41	1/2	468.10	1/2	824.01	1/2	1,226.50	1/2	1,661.59	1/2	2,118.11	1/2	2,586.32	1/2	3,057.13	1/2	3,521.60
3/4	9.18	3/4	184.38	3/4	474.90	3/4	831.96	3/4	1,235.27	3/4	1,670.91	3/4	2,127.78	3/4	2,596.13	3/4	3,066.90	3/4	3,531.14
2	10.91	2	189.34	2	481.71	2	839.92	2	1,244.04	2	1,680.24	2	2,137.44	2	2,605.95	2	3,076.68	2	3,540.69
1/4	13.15	1/4	194.62	1/4	488.63	1/4	847.95	1/4	1,252.86	1/4	1,689.60	1/4	2,147.13	1/4	2,615.76	1/4	3,086.44	1/4	3,550.21
1/2	15.39	1/2	199.91	1/2	495.55	1/2	855.99	1/2	1,261.68	1/2	1,698.96	1/2	2,156.81	1/2	2,625.58	1/2	3,096.20	1/2	3,559.73
3/4	17.63	3/4	205.19	3/4	502.47	3/4	864.02	3/4	1,270.50	3/4	1,708.32	3/4	2,166.50	3/4	2,635.39	3/4	3,105.96	3/4	3,569.25
3	19.87	3	210.48	3	509.38	3	872.06	3	1,279.33	3	1,717.68	3	2,176.18	3	2,645.21	3	3,115.73	3	3,578.77
1/4	22.52	1/4	215.93	1/4	516.41	1/4	880.17	1/4	1,288.20	1/4	1,727.07	1/4	2,185.88	1/4	2,655.03	1/4	3,125.48	1/4	3,588.26
1/2	25.17	1/2	221.38	1/2	523.44	1/2	888.28	1/2	1,297.08	1/2	1,736.47	1/2	2,195.59	1/2	2,664.85	1/2	3,135.23	1/2	3,597.75
3/4	27.82	3/4	226.83	3/4	530.47	3/4	896.39	3/4	1,305.95	3/4	1,745.86	3/4	2,205.29	3/4	2,674.67	3/4	3,144.98	3/4	3,607.24
4	30.47	4	232.28	4	537.49	4	904.51	4	1,314.83	4	1,755.25	4	2,214.99	4	2,684.49	4	3,154.72	4	3,616.73
1/4	33.47	1/4	237.89	1/4	544.63	1/4	912.69	1/4	1,323.76	1/4	1,764.68	1/4	2,224.71	1/4	2,694.31	1/4	3,164.46	1/4	3,626.19
1/2	36.48	1/2	243.50	1/2	551.76	1/2	920.88	1/2	1,332.69	1/2	1,774.11	1/2	2,234.43	1/2	2,704.13	1/2	3,174.19	1/2	3,635.65
3/4	39.48	3/4	249.11	3/4	558.89	3/4	929.06	3/4	1,341.62	3/4	1,783.54	3/4	2,244.15	3/4	2,713.95	3/4	3,183.93	3/4	3,645.11
5	42.48	5	254.72	5	566.03	5	937.25	5	1,350.54	5	1,792.97	5	2,253.87	5	2,723.77	5	3,193.67	5	3,654.57
1/4	45.79	1/4	260.48	1/4	573.26	1/4	945.51	1/4	1,359.52	1/4	1,802.43	1/4	2,263.60	1/4	2,733.59	1/4	3,203.38	1/4	3,664.00
1/2	49.11	1/2	266.24	1/2	580.50	1/2	953.77	1/2	1,368.50	1/2	1,811.88	1/2	2,273.34	1/2	2,743.41	1/2	3,213.10	1/2	3,673.43
3/4	52.42	3/4	272.00	3/4	587.74	3/4	962.03	3/4	1,377.48	3/4	1,821.34	3/4	2,283.07	3/4	2,753.23	3/4	3,222.82	3/4	3,682.85
6	55.74	6	277.77	6	594.97	6	970.28	6	1,386.46	6	1,830.80	6	2,292.81	6	2,763.05	6	3,232.54	6	3,692.28
1/4	59.33	1/4	283.68	1/4	602.31	1/4	978.61	1/4	1,395.48	1/4	1,840.29	1/4	2,302.56	1/4	2,772.87	1/4	3,242.25	1/4	3,701.68
1/2	62.93	1/2	289.59	1/2	609.64	1/2	986.94	1/2	1,404.51	1/2	1,849.79	1/2	2,312.31	1/2	2,782.69	1/2	3,251.95	1/2	3,711.07
3/4	66.53	3/4	295.49	3/4	616.98	3/4	995.27	3/4	1,413.54	3/4	1,859.28	3/4	2,322.06	3/4	2,792.51	3/4	3,261.65	3/4	3,720.46
7	70.12	7	301.40	7	624.31	7	1,003.60	7	1,422.57	7	1,868.77	7	2,331.81	7	2,802.32	7	3,271.35	7	3,729.86
1/4	73.83	1/4	307.46	1/4	631.74	1/4	1,012.00	1/4	1,431.64	1/4	1,878.28	1/4	2,341.57	1/4	2,812.14	1/4	3,281.04	1/4	3,739.22
1/2	77.54	1/2	313.51	1/2	639.18	1/2	1,020.40	1/2	1,440.71	1/2	1,887.80	1/2	2,351.33	1/2	2,821.96	1/2	3,290.72	1/2	3,748.58
3/4	81.24	3/4	319.56	3/4	646.61	3/4	1,028.79	3/4	1,449.79	3/4	1,897.32	3/4	2,361.09	3/4	2,831.77	3/4	3,300.41	3/4	3,757.94
8	84.95	8	325.61	8	654.04	8	1,037.19	8	1,458.86	8	1,906.84	8	2,370.86	8	2,841.59	8	3,310.09	8	3,767.30
1/4	88.75	1/4	331.80	1/4	661.56	1/4	1,045.65	1/4	1,467.98	1/4	1,916.39	1/4	2,380.63	1/4	2,851.40	1/4	3,319.76	1/4	3,776.62
1/2	92.55	1/2	337.99	1/2	669.09	1/2	1,054.12	1/2	1,477.10	1/2	1,925.94	1/2	2,390.40	1/2	2,861.21	1/2	3,329.42	1/2	3,785.94
3/4	96.34	3/4	344.17	3/4	676.62	3/4	1,062.58	3/4	1,486.22	3/4	1,935.48	3/4	2,400.18	3/4	2,871.03	3/4	3,339.09	3/4	3,795.27
9	100.14	9	350.36	9	684.14	9	1,071.04	9	1,495.34	9	1,945.03	9	2,409.95	9	2,880.84	9	3,348.75	9	3,804.59
1/4	104.17	1/4	356.68	1/4	691.76	1/4	1,079.57	1/4	1,504.50	1/4	1,954.60	1/4	2,419.74	1/4	2,890.65	1/4	3,358.40	1/4	3,813.88
1/2	108.20	1/2	363.00	1/2	699.38	1/2	1,088.10	1/2	1,513.67	1/2	1,964.18	1/2	2,429.52	1/2	2,900.45	1/2	3,368.04	1/2	3,823.16
3/4	112.22	3/4	369.32	3/4	706.99	3/4	1,096.63	3/4	1,522.83	3/4	1,973.75	3/4	2,439.31	3/4	2,910.26	3/4	3,377.68	3/4	3,832.45
10	116.25	10	375.64	10	714.61	10	1,105.16	10	1,531.99	10	1,983.32	10	2,449.09	10	2,920.07	10	3,387.33	10	3,841.73
1/4	120.49	1/4	382.09	1/4	722.31	1/4	1,113.75	1/4	1,541.20	1/4	1,992.92	1/4	2,458.88	1/4	2,929.87	1/4	3,396.95	1/4	3,850.98
1/2	124.73	1/2	388.54	1/2	730.02	1/2	1,122.34	1/2	1,550.40	1/2	2,002.52	1/2	2,468.68	1/2	2,939.67	1/2	3,406.57	1/2	3,860.23
3/4	128.97	3/4	394.99	3/4	737.72	3/4	1,130.93	3/4	1,559.61	3/4	2,012.12	3/4	2,478.47	3/4	2,949.47	3/4	3,416.19	3/4	3,869.47
11	133.21	11	401.43	11	745.43	11	1,139.52	11	1,568.82	11	2,021.72	11	2,488.26	11	2,959.27	11	3,425.82	11	3,878.72
1/4	137.65	1/4	408.00	1/4	753.22	1/4	1,148.17	1/4	1,578.06	1/4	2,031.34	1/4	2,498.06	1/4	2,969.07	1/4	3,435.41	1/4	3,887.92
1/2	142.09	1/2	414.58	1/2	761.01	1/2	1,156.82	1/2	1,587.31	1/2	2,040.96	1/2	2,507.86	1/2	2,978.86	1/2	3,445.01	1/2	3,897.13
3/4	146.53	3/4	421.15	3/4	768.80	3/4	1,165.47	3/4	1,596.55	3/4	2,050.58	3/4	2,517.66	3/4	2,988.65	3/4	3,454.61	3/4	3,906.34

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.

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# BARGE "EMS 404"

## 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	3,915.54	0	4,342.38	0	4,732.93	0	5,071.88	0	5,335.48	0		0		0		0		0	
1/4	3,924.70	1/4	4,350.91	1/4	4,740.54	1/4	5,078.20	1/4	5,339.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,933.87	1/2	4,359.43	1/2	4,748.16	1/2	5,084.52	1/2	5,344.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,943.03	3/4	4,367.96	3/4	4,755.78	3/4	5,090.84	3/4	5,348.46	3/4		3/4		3/4		3/4		3/4	
1	3,952.19	1	4,376.49	1	4,763.39	1	5,097.16	1	5,352.79	1		1		1		1		1	
1/4	3,961.31	1/4	4,384.95	1/4	4,770.92	1/4	5,103.35	1/4	5,356.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,970.43	1/2	4,393.42	1/2	4,778.44	1/2	5,109.54	1/2	5,360.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,979.55	3/4	4,401.88	3/4	4,785.97	3/4	5,115.72	3/4	5,365.10	3/4		3/4		3/4		3/4		3/4	
2	3,988.67	2	4,410.34	2	4,793.50	2	5,121.91	2	5,369.20	2		2		2		2		2	
1/4	3,997.75	1/4	4,418.74	1/4	4,800.93	1/4	5,127.96	1/4	5,373.06	1/4		1/4		1/4		1/4		1/4	
1/2	4,006.82	1/2	4,427.14	1/2	4,808.36	1/2	5,134.01	1/2	5,376.92	1/2		1/2		1/2		1/2		1/2	
3/4	4,015.90	3/4	4,435.54	3/4	4,815.79	3/4	5,140.06	3/4	5,380.78	3/4		3/4		3/4		3/4		3/4	
3	4,024.97	3	4,443.93	3	4,823.22	3	5,146.11	3	5,384.64	3		3		3		3		3	
1/4	4,034.00	1/4	4,452.26	1/4	4,830.56	1/4	5,152.02	1/4	5,388.24	1/4		1/4		1/4		1/4		1/4	
1/2	4,043.02	1/2	4,460.59	1/2	4,837.89	1/2	5,157.93	1/2	5,391.84	1/2		1/2		1/2		1/2		1/2	
3/4	4,052.05	3/4	4,468.92	3/4	4,845.23	3/4	5,163.84	3/4	5,395.44	3/4		3/4		3/4		3/4		3/4	
4	4,061.08	4	4,477.25	4	4,852.56	4	5,169.75	4	5,399.04	4		4		4		4		4	
1/4	4,070.06	1/4	4,485.51	1/4	4,859.80	1/4	5,175.51	1/4	5,402.36	1/4		1/4		1/4		1/4		1/4	
1/2	4,079.03	1/2	4,493.77	1/2	4,867.04	1/2	5,181.27	1/2	5,405.68	1/2		1/2		1/2		1/2		1/2	
3/4	4,088.01	3/4	4,502.03	3/4	4,874.27	3/4	5,187.04	3/4	5,409.00	3/4		3/4		3/4		3/4		3/4	
5	4,096.99	5	4,510.28	5	4,881.51	5	5,192.80	5	5,412.32	5		5		5		5		5	
1/4	4,105.92	1/4	4,518.47	1/4	4,888.64	1/4	5,198.41	1/4	5,415.32	1/4		1/4		1/4		1/4		1/4	
1/2	4,114.85	1/2	4,526.66	1/2	4,895.77	1/2	5,204.02	1/2	5,418.33	1/2		1/2		1/2		1/2		1/2	
3/4	4,123.78	3/4	4,534.84	3/4	4,902.91	3/4	5,209.63	3/4	5,421.33	3/4		3/4		3/4		3/4		3/4	
6	4,132.70	6	4,543.03	6	4,910.04	6	5,215.24	6	5,424.34	6		6		6		6		6	
1/4	4,141.58	1/4	4,551.14	1/4	4,917.07	1/4	5,220.69	1/4	5,427.00	1/4		1/4		1/4		1/4		1/4	
1/2	4,150.46	1/2	4,559.25	1/2	4,924.10	1/2	5,226.14	1/2	5,429.65	1/2		1/2		1/2		1/2		1/2	
3/4	4,159.33	3/4	4,567.37	3/4	4,931.12	3/4	5,231.59	3/4	5,432.30	3/4		3/4		3/4		3/4		3/4	
7	4,168.21	7	4,575.48	7	4,938.15	7	5,237.05	7	5,434.96	7		7		7		7		7	
1/4	4,177.03	1/4	4,583.51	1/4	4,945.07	1/4	5,242.33	1/4	5,437.20	1/4		1/4		1/4		1/4		1/4	
1/2	4,185.85	1/2	4,591.55	1/2	4,951.99	1/2	5,247.62	1/2	5,439.45	1/2		1/2		1/2		1/2		1/2	
3/4	4,194.68	3/4	4,599.58	3/4	4,958.91	3/4	5,252.90	3/4	5,441.69	3/4		3/4		3/4		3/4		3/4	
8	4,203.50	8	4,607.62	8	4,965.83	8	5,258.19	8	5,443.93	8		8		8		8		8	
1/4	4,212.27	1/4	4,615.57	1/4	4,972.63	1/4	5,263.30	1/4	5,445.67	1/4		1/4		1/4		1/4		1/4	
1/2	4,221.03	1/2	4,623.53	1/2	4,979.44	1/2	5,268.41	1/2	5,447.40	1/2		1/2		1/2		1/2		1/2	
3/4	4,229.80	3/4	4,631.48	3/4	4,986.25	3/4	5,273.52	3/4	5,449.14	3/4		3/4		3/4		3/4		3/4	
9	4,238.57	9	4,639.44	9	4,993.05	9	5,278.64	9	5,450.87	9		9		9		9		9	
1/4	4,247.28	1/4	4,647.32	1/4	4,999.74	1/4	5,283.57	1/4	5,451.82	1/4		1/4		1/4		1/4		1/4	
1/2	4,255.99	1/2	4,655.19	1/2	5,006.43	1/2	5,288.50	1/2	5,452.77	1/2		1/2		1/2		1/2		1/2	
3/4	4,264.70	3/4	4,663.07	3/4	5,013.13	3/4	5,293.43	3/4	5,453.72	3/4		3/4		3/4		3/4		3/4	
10	4,273.41	10	4,670.94	10	5,019.82	10	5,298.36	10	5,454.67	10		10		10		10		10	
1/4	4,282.06	1/4	4,678.73	1/4	5,026.39	1/4	5,303.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,290.71	1/2	4,686.52	1/2	5,032.96	1/2	5,307.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,299.36	3/4	4,694.31	3/4	5,039.53	3/4	5,312.58	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,308.01	11	4,702.11	11	5,046.10	11	5,317.32	11		11		11		11		11		11	
1/4	4,316.61	1/4	4,709.81	1/4	5,052.54	1/4	5,321.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,325.20	1/2	4,717.52	1/2	5,058.99	1/2	5,326.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,333.79	3/4	4,725.22	3/4	5,065.44	3/4	5,330.94	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/27/2012 CL - SW  
CALCULATED: 01/29/2012 CL  
PRINTED: 01/29/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2012

PRECISION MEASUREMENT  
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