



BARGE "EMS 402"
Enterprise Marine Services LLC

PORT
HORIZONTAL
INNAE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
0.21	150.96	427.64	776.37	1,173.70	1,605.13	2,059.25	2,526.21	2,996.88	3,462.34										
1/2	1.15	185.65	434.33	794.24	1,182.41	1,614.41	2,068.89	2,536.01	2,996.88										
3/4	2.10	160.22	441.02	792.12	1,191.11	1,623.69	2,078.53	2,545.81	2,996.88										
1	3.04	164.85	447.71	799.99	1,199.82	1,632.97	2,088.16	2,555.61	2,996.88										
1 1/4	3.99	169.48	454.39	807.85	1,208.52	1,642.25	2,097.80	2,565.41	2,996.88										
1 1/2	6.72	174.44	461.20	815.81	1,217.29	1,651.57	2,107.46	2,575.22	2,996.88										
1 3/4	7.45	179.40	468.00	823.78	1,226.05	1,660.88	2,117.12	2,585.02	2,996.88										
2	9.18	184.36	474.81	831.71	1,234.81	1,670.20	2,126.78	2,594.83	2,996.88										
2 1/4	10.91	189.33	481.61	839.67	1,243.57	1,679.82	2,136.44	2,604.63	2,996.88										
2 1/2	13.15	194.61	488.53	847.73	1,252.39	1,688.82	2,146.11	2,614.44	2,996.88										
2 3/4	15.39	199.89	495.44	855.73	1,261.21	1,698.23	2,155.79	2,624.25	2,996.88										
3	17.63	205.18	502.36	863.76	1,270.03	1,707.68	2,166.47	2,634.06	2,996.88										
3 1/4	19.87	210.46	509.28	871.79	1,278.84	1,716.84	2,176.16	2,643.87	2,996.88										
3 1/2	22.52	215.91	516.30	879.90	1,287.72	1,726.32	2,186.16	2,653.69	2,996.88										
3 3/4	25.17	221.36	523.33	888.01	1,296.59	1,735.71	2,194.64	2,663.50	2,996.88										
4	27.92	226.81	530.35	896.11	1,305.46	1,745.10	2,204.24	2,673.31	2,996.88										
4 1/4	30.47	232.26	537.35	904.22	1,314.33	1,754.49	2,213.94	2,683.12	2,996.88										
4 1/2	33.48	237.86	544.61	912.40	1,323.25	1,763.87	2,223.56	2,692.94	2,996.88										
4 3/4	36.48	243.47	551.64	920.59	1,332.18	1,773.33	2,233.36	2,702.75	2,996.88										
5	39.48	249.08	558.77	928.77	1,341.10	1,782.76	2,243.08	2,712.56	2,996.88										
5 1/4	42.48	254.69	565.90	936.95	1,350.02	1,792.18	2,252.79	2,722.38	2,996.88										
5 1/2	45.00	260.45	573.13	945.21	1,358.89	1,801.63	2,262.52	2,732.19	2,996.88										
5 3/4	49.11	266.21	580.36	953.46	1,367.84	1,811.09	2,272.25	2,742.01	2,996.88										
6	52.43	271.97	587.60	961.71	1,376.84	1,820.54	2,281.97	2,751.82	2,996.88										
6 1/4	55.14	277.73	594.83	969.97	1,385.81	1,829.99	2,291.70	2,761.63	2,996.88										
6 1/2	59.34	283.64	602.16	978.29	1,394.84	1,839.48	2,301.45	2,771.45	2,996.88										
6 3/4	62.93	289.55	609.48	986.62	1,403.96	1,848.95	2,311.19	2,781.26	2,996.88										
7	66.53	295.46	616.83	994.94	1,412.98	1,858.45	2,320.93	2,791.07	2,996.88										
7 1/4	70.13	301.37	624.16	1,003.27	1,422.00	1,867.93	2,330.68	2,800.88	2,996.88										
7 1/2	73.83	307.41	631.59	1,011.66	1,431.07	1,877.44	2,340.43	2,810.69	2,996.88										
7 3/4	77.54	313.46	639.02	1,020.05	1,440.14	1,886.96	2,350.19	2,820.50	2,996.88										
8	81.25	319.51	646.44	1,028.45	1,448.21	1,896.47	2,359.94	2,830.31	2,996.88										
8 1/4	84.95	325.56	653.87	1,036.84	1,456.29	1,905.98	2,369.70	2,840.12	2,996.88										
8 1/2	88.76	331.75	661.40	1,045.30	1,464.38	1,915.53	2,379.47	2,849.93	2,996.88										
8 3/4	92.55	337.94	668.92	1,053.76	1,472.51	1,925.07	2,389.23	2,859.73	2,996.88										
9	96.35	344.12	676.44	1,062.22	1,480.62	1,934.61	2,398.90	2,869.54	2,996.88										
9 1/4	100.14	350.31	683.96	1,070.68	1,488.73	1,944.15	2,408.77	2,879.35	2,996.88										
9 1/2	104.17	356.63	691.58	1,079.20	1,496.89	1,953.72	2,418.55	2,889.15	2,996.88										
9 3/4	108.20	362.94	699.19	1,087.72	1,505.05	1,963.28	2,428.32	2,898.95	2,996.88										
10	112.22	369.26	706.80	1,096.26	1,513.21	1,972.85	2,438.10	2,908.75	2,996.88										
10 1/4	116.25	375.58	714.42	1,104.77	1,521.36	1,982.42	2,447.88	2,918.55	2,996.88										
10 1/2	120.49	382.03	722.12	1,113.36	1,529.56	1,992.01	2,457.67	2,928.34	2,996.88										
10 3/4	124.73	388.47	729.82	1,121.94	1,537.77	2,001.60	2,467.45	2,938.14	2,996.88										
11	128.97	394.92	737.52	1,130.53	1,545.97	2,011.19	2,477.24	2,947.93	2,996.88										
11 1/4	133.21	401.36	745.22	1,139.11	1,554.17	2,020.79	2,487.03	2,957.73	2,996.88										
11 1/2	137.65	407.83	753.01	1,147.76	1,562.36	2,030.40	2,496.82	2,967.52	2,996.88										
11 3/4	142.08	414.50	760.80	1,156.41	1,570.55	2,040.02	2,506.62	2,977.30	2,996.88										
12	146.52	421.07	768.59	1,165.06	1,578.89	2,049.63	2,516.41	2,987.09	2,996.88										

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 22E.
CAPACITY TABLE ONLY APPLIES WHEN BARGES ON EVEN KEEL.
CAPACITY TABLE ONLY APPLIES TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAE GAUGES.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 402"
Enterprise Marine Services LLC

PORT
HORIZONTAL
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	3,917.85	0	4,344.93	0	4,775.73	0	5,072.94	0	5,338.77	0
1/4	3,927.02	1/4	4,353.48	1/4	4,743.35	1/4	5,081.28	1/4	5,343.10	1/4
1/2	3,936.19	1/2	4,362.00	1/2	4,750.97	1/2	5,087.59	1/2	5,347.43	1/2
3/4	3,945.36	3/4	4,370.53	3/4	4,758.59	3/4	5,093.91	3/4	5,351.76	3/4
1	3,954.52	1	4,379.05	1	4,766.22	1	5,100.24	1	5,356.10	1
1/4	3,963.65	1/4	4,387.53	1/4	4,773.75	1/4	5,106.43	1/4	5,360.20	1/4
1/2	3,972.77	1/2	4,396.00	1/2	4,781.28	1/2	5,112.62	1/2	5,364.31	1/2
3/4	3,981.90	3/4	4,404.47	3/4	4,788.81	3/4	5,118.81	3/4	5,368.41	3/4
2	3,991.02	2	4,412.94	2	4,796.34	2	5,125.00	2	5,372.52	2
1/4	4,000.10	1/4	4,421.34	1/4	4,803.78	1/4	5,131.06	1/4	5,376.38	1/4
1/2	4,009.18	1/2	4,429.74	1/2	4,811.21	1/2	5,137.11	1/2	5,380.25	1/2
3/4	4,018.26	3/4	4,438.15	3/4	4,818.65	3/4	5,143.17	3/4	5,384.11	3/4
3	4,027.34	3	4,446.55	3	4,826.09	3	5,149.23	3	5,387.98	3
1/4	4,036.37	1/4	4,454.88	1/4	4,833.43	1/4	5,155.14	1/4	5,391.58	1/4
1/2	4,045.40	1/2	4,463.22	1/2	4,840.77	1/2	5,161.05	1/2	5,395.19	1/2
3/4	4,054.43	3/4	4,471.55	3/4	4,848.11	3/4	5,166.97	3/4	5,398.79	3/4
4	4,063.47	4	4,479.89	4	4,855.45	4	5,172.88	4	5,402.40	4
1/4	4,072.45	1/4	4,488.16	1/4	4,862.69	1/4	5,178.65	1/4	5,405.72	1/4
1/2	4,081.43	1/2	4,496.41	1/2	4,869.93	1/2	5,184.42	1/2	5,409.04	1/2
3/4	4,090.42	3/4	4,504.68	3/4	4,877.17	3/4	5,190.19	3/4	5,412.36	3/4
5	4,099.40	5	4,512.94	5	4,884.41	5	5,195.95	5	5,415.69	5
1/4	4,108.33	1/4	4,521.13	1/4	4,891.65	1/4	5,201.67	1/4	5,418.70	1/4
1/2	4,117.27	1/2	4,529.32	1/2	4,898.69	1/2	5,207.18	1/2	5,421.70	1/2
3/4	4,126.20	3/4	4,537.52	3/4	4,905.63	3/4	5,212.80	3/4	5,424.71	3/4
6	4,135.13	6	4,545.71	6	4,912.97	6	5,218.42	6	5,427.72	6
1/4	4,144.02	1/4	4,553.82	1/4	4,920.00	1/4	5,223.87	1/4	5,430.38	1/4
1/2	4,152.90	1/2	4,561.94	1/2	4,927.03	1/2	5,229.33	1/2	5,433.04	1/2
3/4	4,161.78	3/4	4,570.06	3/4	4,934.07	3/4	5,234.78	3/4	5,435.70	3/4
7	4,170.66	7	4,578.17	7	4,941.10	7	5,240.24	7	5,438.35	7
1/4	4,179.49	1/4	4,586.21	1/4	4,948.02	1/4	5,245.63	1/4	5,440.60	1/4
1/2	4,188.31	1/2	4,594.25	1/2	4,954.98	1/2	5,250.82	1/2	5,442.85	1/2
3/4	4,197.14	3/4	4,602.30	3/4	4,961.87	3/4	5,256.11	3/4	5,445.09	3/4
8	4,206.97	8	4,610.34	8	4,968.80	8	5,261.40	8	5,447.34	8
1/4	4,214.74	1/4	4,618.30	1/4	4,975.61	1/4	5,266.52	1/4	5,449.08	1/4
1/2	4,223.51	1/2	4,626.26	1/2	4,982.42	1/2	5,271.64	1/2	5,450.81	1/2
3/4	4,232.29	3/4	4,634.22	3/4	4,989.23	3/4	5,276.75	3/4	5,452.55	3/4
9	4,241.06	9	4,642.18	9	4,996.04	9	5,281.87	9	5,454.29	9
1/4	4,249.77	1/4	4,650.06	1/4	5,002.74	1/4	5,286.81	1/4	5,455.24	1/4
1/2	4,258.49	1/2	4,657.94	1/2	5,009.44	1/2	5,291.74	1/2	5,456.19	1/2
3/4	4,267.21	3/4	4,665.82	3/4	5,016.13	3/4	5,296.58	3/4	5,457.14	3/4
10	4,275.92	10	4,673.70	10	5,022.83	10	5,301.61	10	5,458.09	10
1/4	4,284.58	1/4	4,681.50	1/4	5,029.40	1/4	5,306.56	1/4		1/4
1/2	4,293.23	1/2	4,689.29	1/2	5,035.98	1/2	5,311.10	1/2		1/2
3/4	4,301.89	3/4	4,697.09	3/4	5,042.56	3/4	5,315.85	3/4		3/4
11	4,310.55	11	4,704.89	11	5,049.13	11	5,320.59	11		11
1/4	4,319.14	1/4	4,712.60	1/4	5,055.58	1/4	5,325.14	1/4		1/4
1/2	4,327.74	1/2	4,720.31	1/2	5,062.03	1/2	5,329.68	1/2		1/2
3/4	4,336.33	3/4	4,728.02	3/4	5,068.49	3/4	5,334.22	3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPEBZ: 06/02/2011 CL - 5W
CALCULATED: 06/02/2011 CL
PRINTED: 06/02/2011 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77581
http://www.pmaacorp.net



BARGE "EMS 402"
Enterprise Marine Services LLC

CENTER
HORIZONTAL
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS		0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	
0	0	151.11	0	428.05	0	777.12	0	1,174.82	0	1,806.65	0	2,661.19	0	2,528.59	0	2,999.70	0	3,465.60	0	3,931.50	0	4,397.40
1/4	1/4	165.75	1/4	434.75	1/4	794.99	1/4	1,183.53	1/4	1,792.84	1/4	2,600.94	1/4	2,538.40	1/4	3,009.27	1/4	3,475.17	1/4	3,941.07	1/4	4,406.97
1/2	1/2	160.38	1/2	441.44	1/2	792.82	1/2	1,182.54	1/2	1,792.84	1/2	2,600.94	1/2	2,538.40	1/2	3,009.27	1/2	3,475.17	1/2	3,941.07	1/2	4,406.97
3/4	3/4	165.02	3/4	448.14	3/4	800.75	3/4	1,200.96	3/4	1,800.96	3/4	2,600.96	3/4	2,538.40	3/4	3,009.27	3/4	3,475.17	3/4	3,941.07	3/4	4,406.97
1	1	169.65	1	454.83	1	808.63	1	1,209.67	1	1,809.67	1	2,609.67	1	2,538.40	1	3,009.27	1	3,475.17	1	3,941.07	1	4,406.97
1 1/4	1 1/4	174.82	1 1/4	461.64	1 1/4	816.89	1 1/4	1,218.44	1 1/4	1,818.44	1 1/4	2,618.44	1 1/4	2,538.40	1 1/4	3,009.27	1 1/4	3,475.17	1 1/4	3,941.07	1 1/4	4,406.97
1 1/2	1 1/2	179.58	1 1/2	468.45	1 1/2	824.55	1 1/2	1,227.21	1 1/2	1,827.21	1 1/2	2,627.21	1 1/2	2,538.40	1 1/2	3,009.27	1 1/2	3,475.17	1 1/2	3,941.07	1 1/2	4,406.97
1 3/4	1 3/4	184.56	1 3/4	475.26	1 3/4	832.51	1 3/4	1,235.98	1 3/4	1,837.21	1 3/4	2,637.21	1 3/4	2,538.40	1 3/4	3,009.27	1 3/4	3,475.17	1 3/4	3,941.07	1 3/4	4,406.97
2	2	189.51	2	482.08	2	840.47	2	1,244.75	2	1,847.21	2	2,647.21	2	2,538.40	2	3,009.27	2	3,475.17	2	3,941.07	2	4,406.97
2 1/4	2 1/4	194.80	2 1/4	489.00	2 1/4	848.51	2 1/4	1,253.58	2 1/4	1,857.21	2 1/4	2,657.21	2 1/4	2,538.40	2 1/4	3,009.27	2 1/4	3,475.17	2 1/4	3,941.07	2 1/4	4,406.97
2 1/2	2 1/2	199.92	2 1/2	495.52	2 1/2	856.55	2 1/2	1,262.41	2 1/2	1,867.21	2 1/2	2,667.21	2 1/2	2,538.40	2 1/2	3,009.27	2 1/2	3,475.17	2 1/2	3,941.07	2 1/2	4,406.97
2 3/4	2 3/4	205.38	2 3/4	502.38	2 3/4	864.58	2 3/4	1,271.23	2 3/4	1,877.21	2 3/4	2,677.21	2 3/4	2,538.40	2 3/4	3,009.27	2 3/4	3,475.17	2 3/4	3,941.07	2 3/4	4,406.97
3	3	210.67	3	509.77	3	872.62	3	1,280.06	3	1,887.21	3	2,687.21	3	2,538.40	3	3,009.27	3	3,475.17	3	3,941.07	3	4,406.97
3 1/4	3 1/4	216.12	3 1/4	516.80	3 1/4	880.74	3 1/4	1,288.94	3 1/4	1,897.21	3 1/4	2,697.21	3 1/4	2,538.40	3 1/4	3,009.27	3 1/4	3,475.17	3 1/4	3,941.07	3 1/4	4,406.97
3 1/2	3 1/2	221.68	3 1/2	523.83	3 1/2	888.85	3 1/2	1,297.82	3 1/2	1,907.21	3 1/2	2,707.21	3 1/2	2,538.40	3 1/2	3,009.27	3 1/2	3,475.17	3 1/2	3,941.07	3 1/2	4,406.97
3 3/4	3 3/4	227.03	3 3/4	530.86	3 3/4	896.97	3 3/4	1,306.70	3 3/4	1,917.21	3 3/4	2,717.21	3 3/4	2,538.40	3 3/4	3,009.27	3 3/4	3,475.17	3 3/4	3,941.07	3 3/4	4,406.97
4	4	232.48	4	537.89	4	905.09	4	1,315.58	4	1,927.21	4	2,727.21	4	2,538.40	4	3,009.27	4	3,475.17	4	3,941.07	4	4,406.97
4 1/4	4 1/4	238.10	4 1/4	545.03	4 1/4	913.28	4 1/4	1,324.51	4 1/4	1,937.21	4 1/4	2,737.21	4 1/4	2,538.40	4 1/4	3,009.27	4 1/4	3,475.17	4 1/4	3,941.07	4 1/4	4,406.97
4 1/2	4 1/2	243.71	4 1/2	552.17	4 1/2	921.46	4 1/2	1,333.44	4 1/2	1,947.21	4 1/2	2,747.21	4 1/2	2,538.40	4 1/2	3,009.27	4 1/2	3,475.17	4 1/2	3,941.07	4 1/2	4,406.97
4 3/4	4 3/4	249.30	4 3/4	559.30	4 3/4	929.65	4 3/4	1,342.37	4 3/4	1,957.21	4 3/4	2,757.21	4 3/4	2,538.40	4 3/4	3,009.27	4 3/4	3,475.17	4 3/4	3,941.07	4 3/4	4,406.97
5	5	254.84	5	566.44	5	937.84	5	1,351.30	5	1,967.21	5	2,767.21	5	2,538.40	5	3,009.27	5	3,475.17	5	3,941.07	5	4,406.97
5 1/4	5 1/4	260.71	5 1/4	573.68	5 1/4	946.11	5 1/4	1,360.28	5 1/4	1,977.21	5 1/4	2,777.21	5 1/4	2,538.40	5 1/4	3,009.27	5 1/4	3,475.17	5 1/4	3,941.07	5 1/4	4,406.97
5 1/2	5 1/2	266.47	5 1/2	580.92	5 1/2	954.37	5 1/2	1,369.27	5 1/2	1,987.21	5 1/2	2,787.21	5 1/2	2,538.40	5 1/2	3,009.27	5 1/2	3,475.17	5 1/2	3,941.07	5 1/2	4,406.97
5 3/4	5 3/4	272.24	5 3/4	588.18	5 3/4	962.53	5 3/4	1,378.25	5 3/4	1,997.21	5 3/4	2,797.21	5 3/4	2,538.40	5 3/4	3,009.27	5 3/4	3,475.17	5 3/4	3,941.07	5 3/4	4,406.97
6	6	278.00	6	595.40	6	970.89	6	1,387.23	6	1,807.21	6	2,807.21	6	2,538.40	6	3,009.27	6	3,475.17	6	3,941.07	6	4,406.97
6 1/4	6 1/4	283.92	6 1/4	602.74	6 1/4	979.23	6 1/4	1,396.26	6 1/4	1,817.21	6 1/4	2,817.21	6 1/4	2,538.40	6 1/4	3,009.27	6 1/4	3,475.17	6 1/4	3,941.07	6 1/4	4,406.97
6 1/2	6 1/2	289.83	6 1/2	610.08	6 1/2	987.56	6 1/2	1,405.29	6 1/2	1,827.21	6 1/2	2,827.21	6 1/2	2,538.40	6 1/2	3,009.27	6 1/2	3,475.17	6 1/2	3,941.07	6 1/2	4,406.97
6 3/4	6 3/4	295.75	6 3/4	617.42	6 3/4	995.89	6 3/4	1,414.32	6 3/4	1,837.21	6 3/4	2,837.21	6 3/4	2,538.40	6 3/4	3,009.27	6 3/4	3,475.17	6 3/4	3,941.07	6 3/4	4,406.97
7	7	301.66	7	624.76	7	1,004.22	7	1,423.35	7	1,847.21	7	2,847.21	7	2,538.40	7	3,009.27	7	3,475.17	7	3,941.07	7	4,406.97
7 1/4	7 1/4	307.71	7 1/4	632.19	7 1/4	1,012.62	7 1/4	1,432.43	7 1/4	1,857.21	7 1/4	2,857.21	7 1/4	2,538.40	7 1/4	3,009.27	7 1/4	3,475.17	7 1/4	3,941.07	7 1/4	4,406.97
7 1/2	7 1/2	313.77	7 1/2	639.63	7 1/2	1,021.03	7 1/2	1,441.60	7 1/2	1,867.21	7 1/2	2,867.21	7 1/2	2,538.40	7 1/2	3,009.27	7 1/2	3,475.17	7 1/2	3,941.07	7 1/2	4,406.97
7 3/4	7 3/4	319.83	7 3/4	647.06	7 3/4	1,029.43	7 3/4	1,450.68	7 3/4	1,877.21	7 3/4	2,877.21	7 3/4	2,538.40	7 3/4	3,009.27	7 3/4	3,475.17	7 3/4	3,941.07	7 3/4	4,406.97
8	8	325.88	8	654.50	8	1,037.83	8	1,459.66	8	1,887.21	8	2,887.21	8	2,538.40	8	3,009.27	8	3,475.17	8	3,941.07	8	4,406.97
8 1/4	8 1/4	332.07	8 1/4	662.03	8 1/4	1,046.29	8 1/4	1,468.78	8 1/4	1,897.21	8 1/4	2,897.21	8 1/4	2,538.40	8 1/4	3,009.27	8 1/4	3,475.17	8 1/4	3,941.07	8 1/4	4,406.97
8 1/2	8 1/2	338.26	8 1/2	669.56	8 1/2	1,054.76	8 1/2	1,477.90	8 1/2	1,907.21	8 1/2	2,907.21	8 1/2	2,538.40	8 1/2	3,009.27	8 1/2	3,475.17	8 1/2	3,941.07	8 1/2	4,406.97
8 3/4	8 3/4	344.46	8 3/4	677.09	8 3/4	1,063.23	8 3/4	1,487.03	8 3/4	1,917.21	8 3/4	2,917.21	8 3/4	2,538.40	8 3/4	3,009.27	8 3/4	3,475.17	8 3/4	3,941.07	8 3/4	4,406.97
9	9	350.65	9	684.62	9	1,071.70	9	1,496.15	9	1,927.21	9	2,927.21	9	2,538.40	9	3,009.27	9	3,475.17	9	3,941.07	9	4,406.97
9 1/4	9 1/4	356.97	9 1/4	692.24	9 1/4	1,080.23	9 1/4	1,505.32	9 1/4	1,937.21	9 1/4	2,937.21	9 1/4	2,538.40	9 1/4	3,009.27	9 1/4	3,475.17	9 1/4	3,941.07	9 1/4	4,406.97
9 1/2	9 1/2	363.30	9 1/2	699.86	9 1/2	1,088.76	9 1/2	1,514.48	9 1/2	1,947.21	9 1/2	2,947.21	9 1/2	2,538.40	9 1/2	3,009.27	9 1/2	3,475.17	9 1/2	3,941.07	9 1/2	4,406.97
9 3/4	9 3/4	369.62	9 3/4	707.48	9 3/4	1,097.29	9 3/4	1,523.65	9 3/4	1,957.21	9 3/4	2,957.21	9 3/4	2,538.40	9 3/4	3,009.27	9 3/4	3,475.17	9 3/4	3,941.07	9 3/4	4,406.97
10	10	375.95	10	715.10	10	1,105.82	10	1,532.82	10	1,967.21	10	2,967.21	10	2,538.40	10	3,009.27	10	3,475.17	10	3,941.07	10	4,406.97
10 1/4	10 1/4	382.40	10 1/4	722.81	10 1/4	1,114.42	10 1/4	1,542.02	10 1/4	1,977.21	10 1/4	2,977.21	10 1/4	2,538.40	10 1/4	3,009.27	10 1/4	3,475.17	10 1/4	3,941.07	10 1/4	4,406.97
10 1/2	10 1/2	388.85	10 1/2	730.52	10 1/2	1,123.01	10 1/2	1,551.23	10 1/2	1,987.21	10 1/2	2,987.21	10 1/2	2,538.40	10 1/2	3,009.27	10 1/2	3,475.17	10 1/2	3,941.07	10 1/2	4,406.97
10 3/4	10 3/4	395.30	10 3/4	738.23	10 3/4	1,131.60	10 3/4	1,56														



BARGE "EMS 402"
Enterprise Marine Services LLC

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	3,917.07	0	4,344.06	0	4,734.79	0	5,073.93	0	5,337.72	0		0		0		0		0	
1/4	3,926.24	1/4	4,352.60	1/4	4,742.41	1/4	5,080.26	1/4	5,342.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,935.40	1/2	4,361.13	1/2	4,750.03	1/2	5,086.58	1/2	5,346.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,944.57	3/4	4,369.66	3/4	4,757.65	3/4	5,092.90	3/4	5,350.71	3/4		3/4		3/4		3/4		3/4	
1	3,953.74	1	4,378.19	1	4,765.27	1	5,099.23	1	5,355.04	1		1		1		1		1	
1 1/4	3,962.98	1 1/4	4,386.66	1 1/4	4,772.80	1 1/4	5,105.42	1 1/4	5,359.15	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3,971.98	1 1/2	4,395.12	1 1/2	4,780.33	1 1/2	5,111.61	1 1/2	5,363.25	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
2	3,981.10	2	4,403.59	2	4,787.86	2	5,117.80	2	5,367.36	2		2		2		2		2	
2 1/4	3,990.23	2 1/4	4,412.06	2 1/4	4,795.39	2 1/4	5,123.99	2 1/4	5,371.46	2 1/4		2 1/4		2 1/4		2 1/4		2 1/4	
2 1/2	3,999.30	2 1/2	4,420.46	2 1/2	4,802.82	2 1/2	5,130.04	2 1/2	5,375.33	2 1/2		2 1/2		2 1/2		2 1/2		2 1/2	
2 3/4	4,008.38	2 3/4	4,428.86	2 3/4	4,810.26	2 3/4	5,136.10	2 3/4	5,379.19	2 3/4		2 3/4		2 3/4		2 3/4		2 3/4	
3	4,017.48	3	4,437.26	3	4,817.69	3	5,142.15	3	5,383.08	3		3		3		3		3	
3 1/4	4,026.54	3 1/4	4,445.66	3 1/4	4,825.13	3 1/4	5,148.21	3 1/4	5,386.92	3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
3 1/2	4,035.67	3 1/2	4,453.99	3 1/2	4,832.47	3 1/2	5,154.12	3 1/2	5,390.63	3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
3 3/4	4,044.60	3 3/4	4,462.33	3 3/4	4,839.81	3 3/4	5,160.03	3 3/4	5,394.13	3 3/4		3 3/4		3 3/4		3 3/4		3 3/4	
4	4,053.63	4	4,470.66	4	4,847.15	4	5,165.95	4	5,397.73	4		4		4		4		4	
4 1/4	4,062.66	4 1/4	4,478.99	4 1/4	4,854.49	4 1/4	5,171.86	4 1/4	5,401.34	4 1/4		4 1/4		4 1/4		4 1/4		4 1/4	
4 1/2	4,071.64	4 1/2	4,487.25	4 1/2	4,861.72	4 1/2	5,177.63	4 1/2	5,404.66	4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
4 3/4	4,080.62	4 3/4	4,495.52	4 3/4	4,868.96	4 3/4	5,183.39	4 3/4	5,407.98	4 3/4		4 3/4		4 3/4		4 3/4		4 3/4	
5	4,089.60	5	4,503.78	5	4,876.20	5	5,189.16	5	5,411.30	5		5		5		5		5	
5 1/4	4,098.58	5 1/4	4,512.04	5 1/4	4,883.44	5 1/4	5,194.93	5 1/4	5,414.62	5 1/4		5 1/4		5 1/4		5 1/4		5 1/4	
5 1/2	4,107.52	5 1/2	4,520.23	5 1/2	4,890.68	5 1/2	5,200.54	5 1/2	5,417.63	5 1/2		5 1/2		5 1/2		5 1/2		5 1/2	
5 3/4	4,116.45	5 3/4	4,528.42	5 3/4	4,897.72	5 3/4	5,206.16	5 3/4	5,420.64	5 3/4		5 3/4		5 3/4		5 3/4		5 3/4	
6	4,125.38	6	4,536.61	6	4,904.86	6	5,211.77	6	5,423.65	6		6		6		6		6	
6 1/4	4,134.31	6 1/4	4,544.80	6 1/4	4,911.99	6 1/4	5,217.38	6 1/4	5,426.66	6 1/4		6 1/4		6 1/4		6 1/4		6 1/4	
6 1/2	4,143.19	6 1/2	4,552.92	6 1/2	4,919.02	6 1/2	5,222.84	6 1/2	5,429.32	6 1/2		6 1/2		6 1/2		6 1/2		6 1/2	
6 3/4	4,152.07	6 3/4	4,561.03	6 3/4	4,926.06	6 3/4	5,228.30	6 3/4	5,431.97	6 3/4		6 3/4		6 3/4		6 3/4		6 3/4	
7	4,160.95	7	4,569.15	7	4,933.09	7	5,233.76	7	5,434.63	7		7		7		7		7	
7 1/4	4,169.83	7 1/4	4,577.26	7 1/4	4,940.12	7 1/4	5,239.21	7 1/4	5,437.29	7 1/4		7 1/4		7 1/4		7 1/4		7 1/4	
7 1/2	4,178.65	7 1/2	4,585.30	7 1/2	4,947.04	7 1/2	5,244.50	7 1/2	5,439.53	7 1/2		7 1/2		7 1/2		7 1/2		7 1/2	
7 3/4	4,187.48	7 3/4	4,593.34	7 3/4	4,953.97	7 3/4	5,249.79	7 3/4	5,441.78	7 3/4		7 3/4		7 3/4		7 3/4		7 3/4	
8	4,196.31	8	4,601.38	8	4,960.89	8	5,255.07	8	5,444.03	8		8		8		8		8	
8 1/4	4,205.13	8 1/4	4,609.42	8 1/4	4,967.81	8 1/4	5,260.36	8 1/4	5,446.27	8 1/4		8 1/4		8 1/4		8 1/4		8 1/4	
8 1/2	4,213.90	8 1/2	4,617.38	8 1/2	4,974.62	8 1/2	5,265.48	8 1/2	5,448.01	8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
8 3/4	4,222.67	8 3/4	4,625.34	8 3/4	4,981.43	8 3/4	5,270.60	8 3/4	5,449.75	8 3/4		8 3/4		8 3/4		8 3/4		8 3/4	
9	4,231.44	9	4,633.30	9	4,988.24	9	5,275.71	9	5,451.48	9		9		9		9		9	
9 1/4	4,240.21	9 1/4	4,641.26	9 1/4	4,995.05	9 1/4	5,280.83	9 1/4	5,453.22	9 1/4		9 1/4		9 1/4		9 1/4		9 1/4	
9 1/2	4,248.93	9 1/2	4,649.13	9 1/2	5,001.75	9 1/2	5,285.76	9 1/2	5,454.97	9 1/2		9 1/2		9 1/2		9 1/2		9 1/2	
9 3/4	4,257.64	9 3/4	4,657.01	9 3/4	5,008.44	9 3/4	5,290.70	9 3/4	5,456.72	9 3/4		9 3/4		9 3/4		9 3/4		9 3/4	
10	4,266.35	10	4,664.89	10	5,015.14	10	5,295.63	10	5,458.07	10		10		10		10		10	
10 1/4	4,275.07	10 1/4	4,672.77	10 1/4	5,021.83	10 1/4	5,300.57	10 1/4	5,459.02	10 1/4		10 1/4		10 1/4		10 1/4		10 1/4	
10 1/2	4,283.72	10 1/2	4,680.57	10 1/2	5,028.41	10 1/2	5,305.31	10 1/2		10 1/2		10 1/2		10 1/2		10 1/2		10 1/2	
10 3/4	4,292.38	10 3/4	4,688.36	10 3/4	5,034.98	10 3/4	5,310.06	10 3/4		10 3/4		10 3/4		10 3/4		10 3/4		10 3/4	
11	4,301.03	11	4,696.16	11	5,041.56	11	5,314.80	11		11		11		11		11		11	
11 1/4	4,309.69	11 1/4	4,703.95	11 1/4	5,048.13	11 1/4	5,319.54	11 1/4		11 1/4		11 1/4		11 1/4		11 1/4		11 1/4	
11 1/2	4,318.28	11 1/2	4,711.66	11 1/2	5,054.58	11 1/2	5,324.09	11 1/2		11 1/2		11 1/2		11 1/2		11 1/2		11 1/2	
11 3/4	4,326.88	11 3/4	4,719.37	11 3/4	5,061.03	11 3/4	5,328.63	11 3/4		11 3/4		11 3/4		11 3/4		11 3/4		11 3/4	
12	4,335.47	12	4,727.08	12	5,067.48	12	5,333.17	12		12		12		12		12		12	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/02/2011 CL - SW
CALCULATED: 08/02/2011 CL
PRINTED: 08/02/2011 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2082
Pasadena, Texas 77588
http://www.pmtacorp.net



Enterprise Marine Services LLC

STBD
HORIZONTAL
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.									
0	0.21	0	151.17	0	428.30	0	777.66	0	1,175.75	0	1,608.04	0	2,063.10	0	2,531.03	0	3,022.59	0	3,469.12
1/4	1.15	1/4	155.81	1/4	435.00	1/4	785.54	1/4	1,184.77	1/4	1,617.34	1/4	2,072.75	1/4	2,540.95	1/4	3,012.49	1/4	3,478.71
1/2	2.10	1/2	160.45	1/2	441.70	1/2	793.43	1/2	1,193.19	1/2	1,626.64	1/2	2,082.41	1/2	2,550.67	1/2	3,022.29	1/2	3,488.30
3/4	3.04	3/4	165.08	3/4	448.40	3/4	801.32	3/4	1,201.92	3/4	1,635.94	3/4	2,092.07	3/4	2,560.49	3/4	3,032.08	3/4	3,497.89
1	3.99	1	169.72	1	455.10	1	809.20	1	1,210.84	1	1,645.24	1	2,101.73	1	2,570.32	1	3,041.88	1	3,507.47
1 1/4	5.72	1 1/4	174.69	1 1/4	461.91	1 1/4	817.17	1 1/4	1,219.42	1 1/4	1,654.57	1 1/4	2,111.41	1 1/4	2,580.14	1 1/4	3,051.87	1 1/4	3,517.03
1 1/2	7.46	1 1/2	179.56	1 1/2	468.73	1 1/2	824.14	1 1/2	1,228.20	1 1/2	1,663.91	1 1/2	2,121.09	1 1/2	2,589.97	1 1/2	3,061.46	1 1/2	3,526.59
2	9.19	2	184.53	2	475.55	2	833.10	2	1,236.98	2	1,673.25	2	2,130.77	2	2,599.80	2	3,071.25	2	3,536.16
2 1/4	10.92	2 1/4	189.59	2 1/4	482.35	2 1/4	841.07	2 1/4	1,245.76	2 1/4	1,682.58	2 1/4	2,140.44	2 1/4	2,609.62	2 1/4	3,081.03	2 1/4	3,545.72
2 1/2	13.17	2 1/2	194.69	2 1/2	489.29	2 1/2	849.12	2 1/2	1,254.59	2 1/2	1,691.96	2 1/2	2,150.14	2 1/2	2,619.45	2 1/2	3,090.81	2 1/2	3,555.25
3	15.41	3	200.18	3	496.22	3	857.16	3	1,263.43	3	1,701.33	3	2,159.84	3	2,629.28	3	3,100.59	3	3,564.78
3 1/4	17.65	3 1/4	205.47	3 1/4	503.15	3 1/4	865.21	3 1/4	1,272.26	3 1/4	1,710.70	3 1/4	2,169.54	3 1/4	2,639.11	3 1/4	3,110.36	3 1/4	3,574.32
3 1/2	19.89	3 1/2	210.76	3 1/2	510.08	3 1/2	873.26	3 1/2	1,281.10	3 1/2	1,720.07	3 1/2	2,179.24	3 1/2	2,648.94	3 1/2	3,120.14	3 1/2	3,583.85
4	22.55	4	216.22	4	517.11	4	881.38	4	1,289.99	4	1,729.48	4	2,188.96	4	2,658.78	4	3,129.90	4	3,593.35
4 1/4	25.20	4 1/4	221.58	4 1/4	524.15	4 1/4	889.50	4 1/4	1,298.88	4 1/4	1,738.89	4 1/4	2,198.67	4 1/4	2,668.61	4 1/4	3,139.67	4 1/4	3,602.86
4 1/2	27.85	4 1/2	227.13	4 1/2	531.19	4 1/2	897.62	4 1/2	1,307.77	4 1/2	1,748.30	4 1/2	2,208.39	4 1/2	2,678.44	4 1/2	3,149.43	4 1/2	3,612.35
5	30.51	5	232.59	5	538.23	5	905.75	5	1,316.65	5	1,757.71	5	2,218.10	5	2,688.28	5	3,159.19	5	3,621.86
5 1/4	33.52	5 1/4	238.21	5 1/4	545.37	5 1/4	913.95	5 1/4	1,325.60	5 1/4	1,767.15	5 1/4	2,227.84	5 1/4	2,698.11	5 1/4	3,168.94	5 1/4	3,631.34
5 1/2	36.52	5 1/2	243.83	5 1/2	552.51	5 1/2	922.14	5 1/2	1,334.54	5 1/2	1,776.59	5 1/2	2,237.67	5 1/2	2,707.95	5 1/2	3,178.69	5 1/2	3,640.81
6	39.53	6	249.44	6	559.66	6	930.34	6	1,343.48	6	1,786.03	6	2,247.31	6	2,717.78	6	3,188.44	6	3,650.28
6 1/4	42.53	6 1/4	255.06	6 1/4	566.80	6 1/4	938.54	6 1/4	1,352.42	6 1/4	1,795.47	6 1/4	2,257.04	6 1/4	2,727.51	6 1/4	3,198.19	6 1/4	3,659.76
6 1/2	45.85	6 1/2	260.83	6 1/2	574.04	6 1/2	946.81	6 1/2	1,361.41	6 1/2	1,804.95	6 1/2	2,266.79	6 1/2	2,737.45	6 1/2	3,207.92	6 1/2	3,669.20
7	49.17	7	266.60	7	581.29	7	955.58	7	1,370.40	7	1,814.42	7	2,276.54	7	2,747.28	7	3,217.66	7	3,678.64
7 1/4	52.49	7 1/4	272.37	7 1/4	588.54	7 1/4	963.85	7 1/4	1,379.39	7 1/4	1,823.99	7 1/4	2,286.29	7 1/4	2,757.12	7 1/4	3,227.39	7 1/4	3,688.08
7 1/2	55.81	7 1/2	278.14	7 1/2	595.78	7 1/2	971.82	7 1/2	1,388.38	7 1/2	1,833.37	7 1/2	2,296.04	7 1/2	2,766.95	7 1/2	3,237.12	7 1/2	3,697.52
8	59.41	8	284.06	8	603.13	8	979.98	8	1,397.42	8	1,842.87	8	2,305.80	8	2,776.79	8	3,246.84	8	3,706.93
8 1/4	63.01	8 1/4	289.98	8 1/4	610.47	8 1/4	987.30	8 1/4	1,406.46	8 1/4	1,852.37	8 1/4	2,315.56	8 1/4	2,786.62	8 1/4	3,256.56	8 1/4	3,716.34
8 1/2	66.51	8 1/2	295.89	8 1/2	617.82	8 1/2	995.64	8 1/2	1,415.50	8 1/2	1,861.88	8 1/2	2,325.33	8 1/2	2,796.45	8 1/2	3,266.27	8 1/2	3,725.75
9	70.21	9	301.81	9	625.16	9	1,004.98	9	1,424.54	9	1,871.38	9	2,334.09	9	2,806.28	9	3,275.99	9	3,735.15
9 1/4	73.93	9 1/4	307.87	9 1/4	632.61	9 1/4	1,013.39	9 1/4	1,433.63	9 1/4	1,880.91	9 1/4	2,342.87	9 1/4	2,816.12	9 1/4	3,285.69	9 1/4	3,744.51
9 1/2	77.64	9 1/2	313.93	9 1/2	640.05	9 1/2	1,021.80	9 1/2	1,442.72	9 1/2	1,890.45	9 1/2	2,351.64	9 1/2	2,825.95	9 1/2	3,295.39	9 1/2	3,753.90
10	81.35	10	319.99	10	647.49	10	1,030.21	10	1,451.80	10	1,899.98	10	2,360.42	10	2,835.78	10	3,305.09	10	3,763.27
10 1/4	85.06	10 1/4	326.05	10 1/4	654.93	10 1/4	1,038.62	10 1/4	1,460.89	10 1/4	1,909.51	10 1/4	2,374.19	10 1/4	2,845.61	10 1/4	3,314.78	10 1/4	3,772.65
10 1/2	88.86	10 1/2	332.25	10 1/2	662.47	10 1/2	1,047.10	10 1/2	1,470.02	10 1/2	1,919.07	10 1/2	2,383.98	10 1/2	2,855.43	10 1/2	3,324.45	10 1/2	3,781.98
11	92.67	11	338.44	11	670.00	11	1,055.57	11	1,479.16	11	1,928.63	11	2,393.77	11	2,865.26	11	3,334.14	11	3,791.32
11 1/4	96.47	11 1/4	344.64	11 1/4	677.54	11 1/4	1,064.05	11 1/4	1,488.29	11 1/4	1,938.20	11 1/4	2,403.56	11 1/4	2,875.09	11 1/4	3,343.82	11 1/4	3,800.65
11 1/2	100.27	11 1/2	350.84	11 1/2	685.08	11 1/2	1,072.52	11 1/2	1,497.42	11 1/2	1,947.76	11 1/2	2,413.35	11 1/2	2,884.91	11 1/2	3,353.50	11 1/2	3,809.99
12	104.31	12	357.17	12	692.70	12	1,081.05	12	1,505.80	12	1,957.34	12	2,423.15	12	2,894.74	12	3,363.16	12	3,819.29
12 1/4	108.34	12 1/4	363.49	12 1/4	700.33	12 1/4	1,089.60	12 1/4	1,515.77	12 1/4	1,966.93	12 1/4	2,432.94	12 1/4	2,904.56	12 1/4	3,372.82	12 1/4	3,828.59
12 1/2	112.34	12 1/2	369.82	12 1/2	707.96	12 1/2	1,098.14	12 1/2	1,524.95	12 1/2	1,976.52	12 1/2	2,442.74	12 1/2	2,914.38	12 1/2	3,382.47	12 1/2	3,837.89
13	116.40	13	376.15	13	715.59	13	1,106.68	13	1,534.13	13	1,986.11	13	2,452.54	13	2,924.20	13	3,392.13	13	3,847.19
13 1/4	120.55	13 1/4	382.61	13 1/4	723.20	13 1/4	1,115.28	13 1/4	1,543.35	13 1/4	1,995.33	13 1/4	2,462.35	13 1/4	2,934.01	13 1/4	3,401.77	13 1/4	3,856.45
13 1/2	124.90	13 1/2	389.06	13 1/2	731.02	13 1/2	1,123.89	13 1/2	1,552.56	13 1/2	2,005.32	13 1/2	2,472.15	13 1/2	2,943.83	13 1/2	3,411.40	13 1/2	3,865.71
14	129.14	14	395.62	14	738.73	14	1,132.49	14	1,561.78	14	2,014.94	14	2,481.96	14	2,953.64	14	3,421.04	14	3,874.97
14 1/4	133.39	14 1/4	401.98	14 1/4	746.45	14 1/4	1,141.09	14 1/4	1,571.00	14 1/4	2,024.55	14 1/4	2,491.77	14 1/4	2,963.46	14 1/4	3,430.68	14 1/4	3,884.23
14 1/2	137.83	14 1/2	408.66	14 1/2	754.25	14 1/2	1,149.42	14 1/2	1,580.26	14 1/2	2,034.18	14 1/2	2,501.58	14 1/2	2,973.27	14 1/2	3,440.29	14 1/2	3,893.45
15	142.28	15	415.14	15	762.05	15	1,158.42	15	1,589.52	15	2,043.83	15	2,511.40	15	2,983.07	15	3,449.90	15	3,902.67
15 1/4	146.73	15 1/4	421.72	15 1/4	769.86	15 1/4	1,167.99	15 1/4	1,598.78	15 1/4	2,053.46	15 1/4	2,521.21	15 1/4	2,992.88	15 1/4	3,459.51	15 1/4	3,911.88

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IUPAS 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.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Patterson, Texas 77568
http://www.pmatcorp.net



BARGE "EMS 402"
Enterprise Marine Services LLC

STBD
HORIZONTAL
INNAE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	N	11 FT.	N	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3921.10	0	4348.55	0	4739.64	0	5078.07	0	5343.02	0		0		0		0		0	
1/4	3930.28	1/4	4357.09	1/4	4747.27	1/4	5086.40	1/4	5347.36	1/4		1/4		1/4		1/4		1/4	
1/2	3939.46	1/2	4365.63	1/2	4754.90	1/2	5091.73	1/2	5351.69	1/2		1/2		1/2		1/2		1/2	
3/4	3948.63	3/4	4374.17	3/4	4762.53	3/4	5098.05	3/4	5356.02	3/4		3/4		3/4		3/4		3/4	
1	3957.81	1	4382.71	1	4770.15	1	5104.38	1	5360.35	1		1		1		1		1	
1 1/4	3966.94	1 1/4	4391.18	1 1/4	4777.69	1 1/4	5110.58	1 1/4	5364.48	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	3976.07	1 1/2	4399.66	1 1/2	4785.23	1 1/2	5116.77	1 1/2	5368.57	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	3985.21	3/4	4408.13	3/4	4792.76	3/4	5122.97	3/4	5372.68	3/4		3/4		3/4		3/4		3/4	
2	3994.34	2	4418.61	2	4800.30	2	5129.16	2	5376.78	2		2		2		2		2	
1/4	4003.43	1/4	4425.02	1/4	4807.74	1/4	5136.22	1/4	5380.65	1/4		1/4		1/4		1/4		1/4	
1/2	4012.51	1/2	4433.43	1/2	4816.18	1/2	5141.28	1/2	5384.51	1/2		1/2		1/2		1/2		1/2	
3/4	4021.60	3/4	4441.84	3/4	4822.62	3/4	5147.34	3/4	5388.38	3/4		3/4		3/4		3/4		3/4	
1	4030.69	1	4450.25	1	4830.07	1	5153.40	1	5392.26	1		1		1		1		1	
1 1/4	4039.73	1 1/4	4458.59	1 1/4	4837.41	1 1/4	5159.31	1 1/4	5396.85	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4048.77	1 1/2	4466.93	1 1/2	4844.76	1 1/2	5165.23	1 1/2	5399.46	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4057.81	3/4	4475.27	3/4	4852.10	3/4	5171.15	3/4	5403.06	3/4		3/4		3/4		3/4		3/4	
4	4066.85	4	4483.61	4	4859.45	4	5177.06	4	5406.87	4		4		4		4		4	
1/4	4075.84	1/4	4491.88	1/4	4866.69	1/4	5182.84	1/4	5409.99	1/4		1/4		1/4		1/4		1/4	
1/2	4084.83	1/2	4500.15	1/2	4873.94	1/2	5188.61	1/2	5413.31	1/2		1/2		1/2		1/2		1/2	
3/4	4093.82	3/4	4508.42	3/4	4881.18	3/4	5194.38	3/4	5416.64	3/4		3/4		3/4		3/4		3/4	
1	4102.81	1	4516.69	1	4888.43	1	5200.15	1	5419.96	1		1		1		1		1	
1 1/4	4111.75	1 1/4	4524.89	1 1/4	4895.57	1 1/4	5205.77	1 1/4	5422.97	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4120.69	1 1/2	4533.09	1 1/2	4902.72	1 1/2	5211.38	1 1/2	5426.98	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4129.63	3/4	4541.28	3/4	4909.85	3/4	5217.00	3/4	5428.99	3/4		3/4		3/4		3/4		3/4	
1	4138.57	1	4549.48	1	4917.00	1	5222.62	1	5432.00	1		1		1		1		1	
1 1/4	4147.46	1 1/4	4557.60	1 1/4	4924.04	1 1/4	5228.08	1 1/4	5434.65	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4156.35	1 1/2	4565.73	1 1/2	4931.08	1 1/2	5233.54	1 1/2	5437.31	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4165.24	3/4	4573.85	3/4	4938.12	3/4	5239.00	3/4	5439.97	3/4		3/4		3/4		3/4		3/4	
1	4174.13	1	4581.97	1	4945.15	1	5244.46	1	5442.63	1		1		1		1		1	
1 1/4	4182.97	1 1/4	4590.02	1 1/4	4952.08	1 1/4	5249.75	1 1/4	5444.87	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4191.80	1 1/2	4598.07	1 1/2	4959.01	1 1/2	5255.04	1 1/2	5447.12	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4200.64	3/4	4606.11	3/4	4965.94	3/4	5260.33	3/4	5449.37	3/4		3/4		3/4		3/4		3/4	
1	4209.47	1	4614.16	1	4972.87	1	5265.63	1	5451.62	1		1		1		1		1	
1 1/4	4218.25	1 1/4	4622.13	1 1/4	4979.68	1 1/4	5270.74	1 1/4	5453.35	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4227.03	1 1/2	4630.09	1 1/2	4986.50	1 1/2	5275.86	1 1/2	5456.09	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4235.81	3/4	4638.06	3/4	4993.31	3/4	5280.98	3/4	5458.83	3/4		3/4		3/4		3/4		3/4	
1	4244.59	1	4646.03	1	5000.13	1	5286.10	1	5461.56	1		1		1		1		1	
1 1/4	4253.31	1 1/4	4653.91	1 1/4	5006.83	1 1/4	5291.04	1 1/4	5463.51	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4262.04	1 1/2	4661.80	1 1/2	5013.53	1 1/2	5295.96	1 1/2	5465.46	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4270.76	3/4	4669.69	3/4	5020.23	3/4	5300.91	3/4	5467.41	3/4		3/4		3/4		3/4		3/4	
1	4279.48	1	4677.57	1	5026.93	1	5305.85	1	5469.36	1		1		1		1		1	
1 1/4	4288.14	1 1/4	4685.37	1 1/4	5033.51	1 1/4	5310.60	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4296.81	1 1/2	4693.18	1 1/2	5040.99	1 1/2	5315.35	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4305.47	3/4	4700.98	3/4	5048.67	3/4	5320.09	3/4		3/4		3/4		3/4		3/4		3/4	
1	4314.13	1	4708.78	1	5056.26	1	5324.84	1		1		1		1		1		1	
1 1/4	4322.74	1 1/4	4716.50	1 1/4	5063.70	1 1/4	5329.38	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	4331.34	1 1/2	4724.21	1 1/2	5071.16	1 1/2	5333.93	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	4339.94	3/4	4731.93	3/4	5078.61	3/4	5338.48	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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