



BARGE "EMS 393"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-3/8	01-3/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-3/8	01-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

June 10, 2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "EMS 393"

1 PORT

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

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	16.21	0	268.44	0	553.23	0	860.59	0	1,189.07	0	1,521.22	0	1,853.37	0	2,185.51	0	2,517.66	0	2,849.79
1/4	19.45	1/4	274.15	1/4	559.43	1/4	867.24	1/4	1,195.99	1/4	1,528.14	1/4	1,860.28	1/4	2,192.43	1/4	2,524.58	1/4	2,856.71
1/2	22.69	1/2	279.85	1/2	565.63	1/2	873.89	1/2	1,202.91	1/2	1,535.06	1/2	1,867.20	1/2	2,199.35	1/2	2,531.50	1/2	2,863.63
3/4	25.92	3/4	285.56	3/4	571.83	3/4	880.55	3/4	1,209.83	3/4	1,541.98	3/4	1,874.12	3/4	2,206.27	3/4	2,538.42	3/4	2,870.55
1	29.16	1	291.27	1	578.03	1	889.20	1	1,216.75	1	1,548.90	1	1,881.04	1	2,213.19	1	2,545.34	1	2,877.47
1/4	34.17	1/4	297.02	1/4	584.28	1/4	893.89	1/4	1,223.67	1/4	1,555.82	1/4	1,887.96	1/4	2,220.11	1/4	2,552.25	1/4	2,884.39
1/2	39.18	1/2	302.76	1/2	590.52	1/2	900.58	1/2	1,230.69	1/2	1,562.74	1/2	1,894.88	1/2	2,227.03	1/2	2,559.17	1/2	2,891.30
3/4	44.18	3/4	308.51	3/4	596.76	3/4	907.28	3/4	1,237.51	3/4	1,569.66	3/4	1,901.80	3/4	2,233.95	3/4	2,566.09	3/4	2,898.22
2	48.19	2	314.26	2	603.00	2	913.97	2	1,244.43	2	1,576.58	2	1,908.72	2	2,240.87	2	2,573.01	2	2,905.14
1/4	54.49	1/4	320.05	1/4	609.28	1/4	920.70	1/4	1,251.35	1/4	1,583.50	1/4	1,915.64	1/4	2,247.79	1/4	2,579.93	1/4	2,912.06
1/2	59.78	1/2	325.84	1/2	615.56	1/2	927.44	1/2	1,258.27	1/2	1,590.42	1/2	1,922.56	1/2	2,254.71	1/2	2,586.85	1/2	2,918.98
3/4	65.08	3/4	331.63	3/4	621.85	3/4	934.17	3/4	1,265.19	3/4	1,597.34	3/4	1,929.48	3/4	2,261.63	3/4	2,593.77	3/4	2,925.90
3	70.38	3	337.42	3	628.13	3	940.90	3	1,272.11	3	1,604.26	3	1,936.40	3	2,268.55	3	2,600.69	3	2,932.82
1/4	75.71	1/4	343.25	1/4	634.45	1/4	947.69	1/4	1,279.03	1/4	1,611.18	1/4	1,943.32	1/4	2,275.47	1/4	2,607.61	1/4	2,939.73
1/2	81.05	1/2	349.08	1/2	640.78	1/2	954.49	1/2	1,285.95	1/2	1,618.10	1/2	1,950.24	1/2	2,282.39	1/2	2,614.53	1/2	2,946.85
3/4	86.39	3/4	354.91	3/4	647.10	3/4	961.28	3/4	1,292.87	3/4	1,625.02	3/4	1,957.16	3/4	2,289.31	3/4	2,621.45	3/4	2,953.57
4	91.73	4	360.74	4	653.42	4	968.07	4	1,299.79	4	1,631.93	4	1,964.08	4	2,296.23	4	2,628.37	4	2,960.49
1/4	97.10	1/4	366.61	1/4	659.79	1/4	974.91	1/4	1,306.71	1/4	1,638.85	1/4	1,971.00	1/4	2,303.15	1/4	2,635.29	1/4	2,967.41
1/2	102.48	1/2	372.48	1/2	666.15	1/2	981.74	1/2	1,313.63	1/2	1,645.77	1/2	1,977.92	1/2	2,310.07	1/2	2,642.21	1/2	2,974.33
3/4	107.86	3/4	378.35	3/4	672.52	3/4	988.57	3/4	1,320.55	3/4	1,652.69	3/4	1,984.84	3/4	2,316.99	3/4	2,649.13	3/4	2,981.25
5	113.24	5	384.23	5	678.88	5	995.41	5	1,327.47	5	1,659.61	5	1,991.76	5	2,323.90	5	2,656.05	5	2,988.17
1/4	118.66	1/4	390.14	1/4	685.26	1/4	1,002.30	1/4	1,334.39	1/4	1,666.53	1/4	1,998.68	1/4	2,330.82	1/4	2,662.97	1/4	2,995.08
1/2	124.08	1/2	396.05	1/2	691.64	1/2	1,009.20	1/2	1,341.31	1/2	1,673.45	1/2	2,005.60	1/2	2,337.74	1/2	2,669.89	1/2	3,002.00
3/4	129.50	3/4	401.96	3/4	698.01	3/4	1,016.10	3/4	1,348.23	3/4	1,680.37	3/4	2,012.52	3/4	2,344.66	3/4	2,676.81	3/4	3,008.92
6	134.92	6	407.88	6	704.39	6	1,023.00	6	1,355.15	6	1,687.29	6	2,019.44	6	2,351.58	6	2,683.73	6	3,015.84
1/4	140.38	1/4	413.83	1/4	710.81	1/4	1,029.92	1/4	1,362.07	1/4	1,694.21	1/4	2,026.36	1/4	2,358.50	1/4	2,690.65	1/4	3,022.76
1/2	145.84	1/2	419.78	1/2	717.23	1/2	1,036.84	1/2	1,368.99	1/2	1,701.13	1/2	2,033.28	1/2	2,365.42	1/2	2,697.57	1/2	3,029.68
3/4	151.30	3/4	425.74	3/4	723.64	3/4	1,043.76	3/4	1,375.91	3/4	1,708.05	3/4	2,040.20	3/4	2,372.34	3/4	2,704.49	3/4	3,036.60
7	156.76	7	431.69	7	730.06	7	1,050.68	7	1,382.83	7	1,714.97	7	2,047.12	7	2,379.26	7	2,711.41	7	3,043.51
1/4	162.25	1/4	437.69	1/4	736.51	1/4	1,057.60	1/4	1,389.75	1/4	1,721.89	1/4	2,054.04	1/4	2,386.18	1/4	2,718.33	1/4	3,050.43
1/2	167.76	1/2	443.68	1/2	742.95	1/2	1,064.52	1/2	1,396.67	1/2	1,728.81	1/2	2,060.96	1/2	2,393.10	1/2	2,725.25	1/2	3,057.35
3/4	173.27	3/4	449.68	3/4	749.40	3/4	1,071.44	3/4	1,403.58	3/4	1,735.73	3/4	2,067.88	3/4	2,400.02	3/4	2,732.17	3/4	3,064.27
8	178.77	8	455.67	8	755.85	8	1,078.36	8	1,410.50	8	1,742.65	8	2,074.80	8	2,406.94	8	2,739.09	8	3,071.19
1/4	184.31	1/4	461.71	1/4	762.33	1/4	1,085.28	1/4	1,417.42	1/4	1,749.57	1/4	2,081.72	1/4	2,413.86	1/4	2,746.01	1/4	3,078.11
1/2	189.85	1/2	467.74	1/2	768.82	1/2	1,092.20	1/2	1,424.34	1/2	1,756.49	1/2	2,088.63	1/2	2,420.78	1/2	2,752.93	1/2	3,085.03
3/4	195.40	3/4	473.78	3/4	775.31	3/4	1,099.12	3/4	1,431.26	3/4	1,763.41	3/4	2,095.55	3/4	2,427.70	3/4	2,759.85	3/4	3,091.94
9	200.94	9	479.81	9	781.79	9	1,106.04	9	1,438.18	9	1,770.33	9	2,102.47	9	2,434.62	9	2,766.77	9	3,098.86
1/4	206.52	1/4	485.89	1/4	788.32	1/4	1,112.96	1/4	1,445.10	1/4	1,777.25	1/4	2,109.39	1/4	2,441.54	1/4	2,773.69	1/4	3,105.78
1/2	212.11	1/2	491.97	1/2	794.85	1/2	1,119.88	1/2	1,452.02	1/2	1,784.17	1/2	2,116.31	1/2	2,448.46	1/2	2,780.60	1/2	3,112.70
3/4	217.69	3/4	498.05	3/4	801.38	3/4	1,126.80	3/4	1,458.94	3/4	1,791.09	3/4	2,123.23	3/4	2,455.38	3/4	2,787.52	3/4	3,119.62
10	223.27	10	504.12	10	807.91	10	1,133.72	10	1,465.86	10	1,798.01	10	2,130.15	10	2,462.30	10	2,794.44	10	3,126.54
1/4	228.90	1/4	510.24	1/4	814.47	1/4	1,140.64	1/4	1,472.78	1/4	1,804.93	1/4	2,137.07	1/4	2,469.22	1/4	2,801.36	1/4	3,133.46
1/2	234.52	1/2	516.36	1/2	821.04	1/2	1,147.56	1/2	1,479.70	1/2	1,811.85	1/2	2,143.99	1/2	2,476.14	1/2	2,808.28	1/2	3,140.37
3/4	240.15	3/4	522.48	3/4	827.60	3/4	1,154.48	3/4	1,486.62	3/4	1,818.77	3/4	2,150.91	3/4	2,483.06	3/4	2,815.20	3/4	3,147.29
11	245.77	11	528.60	11	834.17	11	1,161.40	11	1,493.54	11	1,825.69	11	2,157.93	11	2,489.98	11	2,822.12	11	3,154.21
1/4	251.44	1/4	534.75	1/4	840.77	1/4	1,168.31	1/4	1,500.46	1/4	1,832.61	1/4	2,164.76	1/4	2,496.90	1/4	2,829.04	1/4	3,161.13
1/2	257.11	1/2	540.91	1/2	847.38	1/2	1,175.23	1/2	1,507.38	1/2	1,839.53	1/2	2,171.67	1/2	2,503.82	1/2	2,835.96	1/2	3,168.05
3/4	262.77	3/4	547.07	3/4	853.99	3/4	1,182.15	3/4	1,514.30	3/4	1,846.45	3/4	2,178.59	3/4	2,510.74	3/4	2,842.87	3/4	3,174.97

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "EMS 393"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,181.89	0	3,513.84	0	3,833.76	0	4,133.06	0	4,413.05	0	4,683.04	0	4,943.03	0	5,193.02	0	5,443.01	0	5,693.00
1/4	3,188.80	1/4	3,520.69	1/4	3,840.20	1/4	4,139.05	1/4	4,438.04	1/4	4,717.03	1/4	4,996.02	1/4	5,275.01	1/4	5,554.00	1/4	5,833.00
1/2	3,195.72	1/2	3,527.55	1/2	3,846.64	1/2	4,145.04	1/2	4,444.03	1/2	4,723.02	1/2	5,002.01	1/2	5,281.00	1/2	5,560.00	1/2	5,839.00
3/4	3,202.64	3/4	3,534.40	3/4	3,853.08	3/4	4,151.02	3/4	4,450.01	3/4	4,729.00	3/4	5,008.00	3/4	5,287.00	3/4	5,566.00	3/4	5,845.00
1	3,209.56	1	3,541.26	1	3,859.52	1	4,157.01	1	4,457.00	1	4,736.00	1	5,015.00	1	5,294.00	1	5,573.00	1	5,852.00
1/4	3,216.48	1/4	3,548.08	1/4	3,865.93	1/4	4,162.97	1/4	4,464.96	1/4	4,743.95	1/4	5,023.94	1/4	5,302.93	1/4	5,582.92	1/4	5,861.91
1/2	3,223.40	1/2	3,554.90	1/2	3,872.34	1/2	4,168.92	1/2	4,471.91	1/2	4,750.90	1/2	5,030.89	1/2	5,309.88	1/2	5,589.87	1/2	5,868.86
3/4	3,230.32	3/4	3,561.72	3/4	3,878.74	3/4	4,174.87	3/4	4,478.86	3/4	4,757.85	3/4	5,036.84	3/4	5,315.83	3/4	5,595.82	3/4	5,874.81
2	3,237.23	2	3,568.54	2	3,885.15	2	4,180.83	2	4,480.82	2	4,759.81	2	5,038.80	2	5,317.79	2	5,597.78	2	5,876.77
1/4	3,244.15	1/4	3,575.32	1/4	3,891.52	1/4	4,186.75	1/4	4,486.74	1/4	4,765.73	1/4	5,044.72	1/4	5,323.71	1/4	5,603.70	1/4	5,882.69
1/2	3,251.07	1/2	3,582.11	1/2	3,897.90	1/2	4,192.67	1/2	4,492.66	1/2	4,771.65	1/2	5,050.64	1/2	5,329.63	1/2	5,609.62	1/2	5,888.61
3/4	3,257.99	3/4	3,588.89	3/4	3,904.27	3/4	4,198.59	3/4	4,498.58	3/4	4,777.57	3/4	5,056.56	3/4	5,335.55	3/4	5,615.54	3/4	5,894.53
3	3,264.91	3	3,595.68	3	3,910.64	3	4,204.51	3	4,504.50	3	4,783.49	3	5,062.48	3	5,341.47	3	5,621.46	3	5,900.45
1/4	3,271.83	1/4	3,602.43	1/4	3,916.98	1/4	4,210.39	1/4	4,510.38	1/4	4,789.37	1/4	5,068.36	1/4	5,347.35	1/4	5,627.34	1/4	5,906.33
1/2	3,278.75	1/2	3,609.18	1/2	3,923.32	1/2	4,216.28	1/2	4,516.27	1/2	4,795.26	1/2	5,074.25	1/2	5,353.24	1/2	5,633.23	1/2	5,912.22
3/4	3,285.66	3/4	3,615.93	3/4	3,929.66	3/4	4,222.16	3/4	4,522.15	3/4	4,801.14	3/4	5,080.13	3/4	5,359.12	3/4	5,639.11	3/4	5,918.10
4	3,292.58	4	3,622.68	4	3,935.99	4	4,228.05	4	4,528.04	4	4,807.03	4	5,086.02	4	5,365.01	4	5,645.00	4	5,924.99
1/4	3,299.50	1/4	3,629.40	1/4	3,942.30	1/4	4,234.42	1/4	4,534.41	1/4	4,813.40	1/4	5,092.39	1/4	5,371.38	1/4	5,651.37	1/4	5,930.36
1/2	3,306.42	1/2	3,636.11	1/2	3,948.60	1/2	4,240.79	1/2	4,540.78	1/2	4,819.77	1/2	5,098.76	1/2	5,377.75	1/2	5,657.74	1/2	5,936.73
3/4	3,313.34	3/4	3,642.83	3/4	3,954.91	3/4	4,247.17	3/4	4,547.16	3/4	4,826.15	3/4	5,105.14	3/4	5,384.13	3/4	5,664.12	3/4	5,943.11
5	3,320.26	5	3,649.55	5	3,961.21	5	4,253.54	5	4,553.53	5	4,832.52	5	5,111.51	5	5,390.50	5	5,670.49	5	5,949.48
1/4	3,327.18	1/4	3,656.23	1/4	3,967.48	1/4	4,259.92	1/4	4,559.91	1/4	4,838.90	1/4	5,117.89	1/4	5,396.88	1/4	5,676.87	1/4	5,955.86
1/2	3,334.10	1/2	3,662.91	1/2	3,973.75	1/2	4,267.30	1/2	4,567.29	1/2	4,846.28	1/2	5,124.87	1/2	5,403.86	1/2	5,683.85	1/2	5,962.84
3/4	3,341.01	3/4	3,669.59	3/4	3,980.02	3/4	4,274.18	3/4	4,574.17	3/4	4,853.16	3/4	5,131.85	3/4	5,409.84	3/4	5,689.83	3/4	5,968.82
6	3,347.93	6	3,676.28	6	3,986.29	6	4,281.06	6	4,581.05	6	4,860.04	6	5,138.03	6	5,415.02	6	5,695.01	6	5,974.00
1/4	3,354.85	1/4	3,682.92	1/4	3,992.52	1/4	4,287.94	1/4	4,587.93	1/4	4,866.92	1/4	5,144.91	1/4	5,421.90	1/4	5,701.89	1/4	5,980.88
1/2	3,361.77	1/2	3,689.57	1/2	3,998.75	1/2	4,294.81	1/2	4,594.80	1/2	4,873.79	1/2	5,151.78	1/2	5,428.77	1/2	5,708.76	1/2	5,987.75
3/4	3,368.69	3/4	3,696.22	3/4	4,004.99	3/4	4,301.69	3/4	4,601.68	3/4	4,880.67	3/4	5,158.66	3/4	5,435.65	3/4	5,715.64	3/4	5,994.63
7	3,375.61	7	3,702.87	7	4,011.23	7	4,308.57	7	4,608.56	7	4,887.55	7	5,165.54	7	5,442.53	7	5,722.52	7	6,001.51
1/4	3,382.53	1/4	3,709.48	1/4	4,017.39	1/4	4,315.38	1/4	4,615.37	1/4	4,894.36	1/4	5,172.52	1/4	5,449.51	1/4	5,728.50	1/4	6,007.49
1/2	3,389.44	1/2	3,716.09	1/2	4,023.55	1/2	4,322.18	1/2	4,622.17	1/2	4,901.16	1/2	5,179.51	1/2	5,456.50	1/2	5,735.49	1/2	6,014.48
3/4	3,396.36	3/4	3,722.71	3/4	4,029.71	3/4	4,328.98	3/4	4,631.97	3/4	4,910.96	3/4	5,186.95	3/4	5,463.94	3/4	5,742.48	3/4	6,021.47
8	3,403.28	8	3,729.32	8	4,035.87	8	4,335.79	8	4,635.78	8	4,914.77	8	5,193.92	8	5,470.91	8	5,749.90	8	6,028.46
1/4	3,410.20	1/4	3,735.90	1/4	4,041.99	1/4	4,341.96	1/4	4,641.95	1/4	4,920.94	1/4	5,200.93	1/4	5,477.92	1/4	5,756.91	1/4	6,035.45
1/2	3,417.12	1/2	3,742.48	1/2	4,048.12	1/2	4,348.14	1/2	4,648.13	1/2	4,927.12	1/2	5,207.91	1/2	5,484.90	1/2	5,763.89	1/2	6,042.44
3/4	3,424.04	3/4	3,749.06	3/4	4,054.25	3/4	4,354.31	3/4	4,654.32	3/4	4,933.31	3/4	5,214.90	3/4	5,491.89	3/4	5,770.88	3/4	6,049.43
9	3,430.96	9	3,755.64	9	4,060.37	9	4,360.49	9	4,660.48	9	4,939.47	9	5,221.88	9	5,498.87	9	5,777.86	9	6,056.42
1/4	3,437.87	1/4	3,762.18	1/4	4,066.46	1/4	4,365.41	1/4	4,665.42	1/4	4,944.41	1/4	5,228.87	1/4	5,505.86	1/4	5,784.85	1/4	6,063.41
1/2	3,444.79	1/2	3,768.73	1/2	4,072.55	1/2	4,370.33	1/2	4,670.34	1/2	4,949.33	1/2	5,235.86	1/2	5,512.85	1/2	5,791.84	1/2	6,070.40
3/4	3,451.71	3/4	3,775.27	3/4	4,078.65	3/4	4,375.24	3/4	4,675.25	3/4	4,954.24	3/4	5,242.85	3/4	5,519.84	3/4	5,800.83	3/4	6,077.39
10	3,458.63	10	3,781.81	10	4,084.74	10	4,381.32	10	4,681.33	10	4,960.32	10	5,249.81	10	5,526.80	10	5,807.79	10	6,084.38
1/4	3,465.54	1/4	3,788.32	1/4	4,090.80	1/4	4,387.31	1/4	4,687.32	1/4	4,966.31	1/4	5,256.80	1/4	5,533.79	1/4	5,814.78	1/4	6,091.37
1/2	3,472.46	1/2	3,794.84	1/2	4,096.85	1/2	4,394.82	1/2	4,694.83	1/2	4,973.82	1/2	5,263.81	1/2	5,540.80	1/2	5,821.79	1/2	6,098.36
3/4	3,479.37	3/4	3,801.35	3/4	4,102.91	3/4	4,402.90	3/4	4,702.91	3/4	4,981.90	3/4	5,270.80	3/4	5,547.79	3/4	5,828.78	3/4	6,105.35
11	3,486.29	11	3,807.86	11	4,108.37	11	4,408.36	11	4,708.37	11	4,987.36	11	5,277.35	11	5,554.34	11	5,835.33	11	6,112.34
1/4	3,493.17	1/4	3,814.33	1/4	4,114.99	1/4	4,414.98	1/4	4,714.99	1/4	5,000.00	1/4	5,285.00	1/4	5,562.00	1/4	5,843.00	1/4	6,120.00
1/2	3,500.06	1/2	3,820.81	1/2	4,121.01	1/2	4,421.01	1/2	4,721.02	1/2	5,006.03	1/2	5,291.04	1/2	5,568.05	1/2	5,849.06	1/2	6,127.01
3/4	3,506.95	3/4	3,827.28	3/4	4,127.04	3/4	4,427.04	3/4	4,727.05	3/4	5,012.06	3/4	5,297.07	3/4	5,574.08	3/4	5,855.09	3/4	6,134.00

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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P. Mac



BARGE "EMS 393"

1 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												GAUGE HEIGHT 14'-10"																	
0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	16.16	0	267.47	0	551.24	0	858.30	0	1,186.16	0	1,517.13	0	1,848.09	0	2,179.06	0	2,510.02	0	2,840.98	0	2,179.06	0	2,510.02	0	2,840.98	0	2,179.06	0	2,510.02
1/4	19.38	1/4	273.15	1/4	557.42	1/4	864.96	1/4	1,193.06	1/4	1,524.02	1/4	1,854.99	1/4	2,185.95	1/4	2,516.91	1/4	2,847.87	1/4	2,185.95	1/4	2,516.91	1/4	2,847.87	1/4	2,185.95	1/4	2,516.91
1/2	22.60	1/2	278.84	1/2	563.59	1/2	871.62	1/2	1,199.95	1/2	1,530.92	1/2	1,861.88	1/2	2,192.85	1/2	2,523.81	1/2	2,854.77	1/2	2,192.85	1/2	2,523.81	1/2	2,854.77	1/2	2,192.85	1/2	2,523.81
3/4	25.83	3/4	284.53	3/4	569.77	3/4	878.27	3/4	1,206.85	3/4	1,537.81	3/4	1,868.78	3/4	2,199.74	3/4	2,530.71	3/4	2,861.66	3/4	2,199.74	3/4	2,530.71	3/4	2,861.66	3/4	2,199.74	3/4	2,530.71
1	29.05	1	290.21	1	575.95	1	884.93	1	1,213.74	1	1,544.71	1	1,875.67	1	2,206.64	1	2,537.60	1	2,868.55	1	2,206.64	1	2,537.60	1	2,868.55	1	2,206.64	1	2,537.60
1/4	34.04	1/4	295.94	1/4	582.17	1/4	891.63	1/4	1,220.64	1/4	1,551.60	1/4	1,882.57	1/4	2,213.53	1/4	2,544.50	1/4	2,875.45	1/4	2,213.53	1/4	2,544.50	1/4	2,875.45	1/4	2,213.53	1/4	2,544.50
1/2	39.03	1/2	301.67	1/2	588.39	1/2	898.33	1/2	1,227.53	1/2	1,558.50	1/2	1,889.46	1/2	2,220.43	1/2	2,551.39	1/2	2,882.34	1/2	2,220.43	1/2	2,551.39	1/2	2,882.34	1/2	2,220.43	1/2	2,551.39
3/4	44.02	3/4	307.40	3/4	594.61	3/4	905.02	3/4	1,234.43	3/4	1,565.39	3/4	1,896.36	3/4	2,227.32	3/4	2,558.29	3/4	2,889.24	3/4	2,227.32	3/4	2,558.29	3/4	2,889.24	3/4	2,227.32	3/4	2,558.29
2	49.01	2	313.12	2	600.83	2	911.72	2	1,241.32	2	1,572.29	2	1,903.25	2	2,234.22	2	2,565.18	2	2,896.13	2	2,234.22	2	2,565.18	2	2,896.13	2	2,234.22	2	2,565.18
1/4	54.29	1/4	318.89	1/4	607.09	1/4	918.46	1/4	1,248.22	1/4	1,579.18	1/4	1,910.15	1/4	2,241.11	1/4	2,572.08	1/4	2,903.03	1/4	2,241.11	1/4	2,572.08	1/4	2,903.03	1/4	2,241.11	1/4	2,572.08
1/2	59.57	1/2	324.66	1/2	613.35	1/2	925.20	1/2	1,255.11	1/2	1,586.08	1/2	1,917.04	1/2	2,248.01	1/2	2,578.97	1/2	2,909.92	1/2	2,248.01	1/2	2,578.97	1/2	2,909.92	1/2	2,248.01	1/2	2,578.97
3/4	64.84	3/4	330.43	3/4	619.61	3/4	931.94	3/4	1,262.01	3/4	1,592.97	3/4	1,923.94	3/4	2,254.90	3/4	2,585.87	3/4	2,916.81	3/4	2,254.90	3/4	2,585.87	3/4	2,916.81	3/4	2,254.90	3/4	2,585.87
3	70.12	3	336.20	3	625.87	3	938.67	3	1,268.90	3	1,599.87	3	1,930.83	3	2,261.80	3	2,592.76	3	2,923.71	3	2,261.80	3	2,592.76	3	2,923.71	3	2,261.80	3	2,592.76
1/4	75.44	1/4	342.01	1/4	632.17	1/4	945.47	1/4	1,275.80	1/4	1,606.76	1/4	1,937.73	1/4	2,268.69	1/4	2,599.66	1/4	2,930.60	1/4	2,268.69	1/4	2,599.66	1/4	2,930.60	1/4	2,268.69	1/4	2,599.66
1/2	80.76	1/2	347.82	1/2	638.47	1/2	952.26	1/2	1,282.69	1/2	1,613.66	1/2	1,944.62	1/2	2,275.59	1/2	2,606.55	1/2	2,937.50	1/2	2,275.59	1/2	2,606.55	1/2	2,937.50	1/2	2,275.59	1/2	2,606.55
3/4	86.07	3/4	353.63	3/4	644.77	3/4	959.05	3/4	1,289.59	3/4	1,620.55	3/4	1,951.52	3/4	2,282.48	3/4	2,613.45	3/4	2,944.39	3/4	2,282.48	3/4	2,613.45	3/4	2,944.39	3/4	2,282.48	3/4	2,613.45
4	91.39	4	359.44	4	651.07	4	965.85	4	1,296.48	4	1,627.45	4	1,958.41	4	2,289.38	4	2,620.34	4	2,951.28	4	2,289.38	4	2,620.34	4	2,951.28	4	2,289.38	4	2,620.34
1/4	96.75	1/4	365.29	1/4	657.41	1/4	972.68	1/4	1,303.38	1/4	1,634.34	1/4	1,965.31	1/4	2,296.27	1/4	2,627.24	1/4	2,958.18	1/4	2,296.27	1/4	2,627.24	1/4	2,958.18	1/4	2,296.27	1/4	2,627.24
1/2	102.11	1/2	371.14	1/2	663.75	1/2	979.51	1/2	1,310.27	1/2	1,641.24	1/2	1,972.20	1/2	2,303.17	1/2	2,634.13	1/2	2,965.07	1/2	2,303.17	1/2	2,634.13	1/2	2,965.07	1/2	2,303.17	1/2	2,634.13
3/4	107.47	3/4	376.99	3/4	670.10	3/4	986.35	3/4	1,317.17	3/4	1,648.13	3/4	1,979.10	3/4	2,310.06	3/4	2,641.03	3/4	2,971.97	3/4	2,310.06	3/4	2,641.03	3/4	2,971.97	3/4	2,310.06	3/4	2,641.03
5	112.83	5	382.84	5	676.44	5	993.18	5	1,324.06	5	1,655.03	5	1,985.99	5	2,316.96	5	2,647.92	5	2,978.86	5	2,316.96	5	2,647.92	5	2,978.86	5	2,316.96	5	2,647.92
1/4	118.23	1/4	388.73	1/4	682.82	1/4	1,000.05	1/4	1,330.96	1/4	1,661.92	1/4	1,992.89	1/4	2,323.85	1/4	2,654.82	1/4	2,985.76	1/4	2,323.85	1/4	2,654.82	1/4	2,985.76	1/4	2,323.85	1/4	2,654.82
1/2	123.63	1/2	394.62	1/2	689.20	1/2	1,006.93	1/2	1,337.85	1/2	1,668.82	1/2	1,999.78	1/2	2,330.75	1/2	2,661.71	1/2	2,992.65	1/2	2,330.75	1/2	2,661.71	1/2	2,992.65	1/2	2,330.75	1/2	2,661.71
3/4	129.03	3/4	400.51	3/4	695.59	3/4	1,013.80	3/4	1,344.75	3/4	1,675.71	3/4	2,006.68	3/4	2,337.64	3/4	2,668.61	3/4	2,999.54	3/4	2,337.64	3/4	2,668.61	3/4	2,999.54	3/4	2,337.64	3/4	2,668.61
6	134.43	6	406.40	6	701.97	6	1,020.68	6	1,351.64	6	1,682.61	6	2,013.57	6	2,344.54	6	2,675.50	6	3,006.44	6	2,344.54	6	2,675.50	6	3,006.44	6	2,344.54	6	2,675.50
1/4	139.87	1/4	412.34	1/4	708.39	1/4	1,027.57	1/4	1,358.54	1/4	1,689.50	1/4	2,020.47	1/4	2,351.43	1/4	2,682.40	1/4	3,013.33	1/4	2,351.43	1/4	2,682.40	1/4	3,013.33	1/4	2,351.43	1/4	2,682.40
1/2	145.31	1/2	418.27	1/2	714.82	1/2	1,034.47	1/2	1,365.43	1/2	1,696.40	1/2	2,027.36	1/2	2,358.33	1/2	2,689.29	1/2	3,020.23	1/2	2,358.33	1/2	2,689.29	1/2	3,020.23	1/2	2,358.33	1/2	2,689.29
3/4	150.75	3/4	424.20	3/4	721.24	3/4	1,041.36	3/4	1,372.33	3/4	1,703.29	3/4	2,034.26	3/4	2,365.22	3/4	2,696.19	3/4	3,027.12	3/4	2,365.22	3/4	2,696.19	3/4	3,027.12	3/4	2,365.22	3/4	2,696.19
7	156.19	7	430.13	7	727.67	7	1,048.26	7	1,379.22	7	1,710.19	7	2,041.15	7	2,372.12	7	2,703.08	7	3,034.02	7	2,372.12	7	2,703.08	7	3,034.02	7	2,372.12	7	2,703.08
1/4	161.67	1/4	436.11	1/4	734.12	1/4	1,055.15	1/4	1,386.12	1/4	1,717.08	1/4	2,048.05	1/4	2,379.01	1/4	2,709.98	1/4	3,040.91	1/4	2,379.01	1/4	2,709.98	1/4	3,040.91	1/4	2,379.01	1/4	2,709.98
1/2	167.16	1/2	442.08	1/2	740.57	1/2	1,062.05	1/2	1,393.01	1/2	1,723.98	1/2	2,054.94	1/2	2,385.91	1/2	2,716.87	1/2	3,047.80	1/2	2,385.91	1/2	2,716.87	1/2	3,047.80	1/2	2,385.91	1/2	2,716.87
3/4	172.64	3/4	448.05	3/4	747.02	3/4	1,068.94	3/4	1,399.91	3/4	1,730.87	3/4	2,061.84	3/4	2,392.80	3/4	2,723.77	3/4	3,054.70	3/4	2,392.80	3/4	2,723.77	3/4	3,054.70	3/4	2,392.80	3/4	2,723.77
8	178.12	8	454.03	8	753.47	8	1,075.84	8	1,406.80	8	1,737.77	8	2,068.73	8	2,399.70	8	2,730.66	8	3,061.59	8	2,399.70	8	2,730.66	8	3,061.59	8	2,399.70	8	2,730.66
1/4	183.64	1/4	460.04	1/4	759.97	1/4	1,082.73	1/4	1,413.70	1/4	1,744.66	1/4	2,075.63	1/4	2,406.59	1/4	2,737.56	1/4	3,068.49	1/4	2,								



BARGE "EMS 393"

1 STBD
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.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,171.90	0	3,502.87	0	3,821.45	0	4,119.68	0	4,419.68	0	4,719.68	0	5,019.68	0	5,319.68	0	5,619.68	0	5,919.68
1/4	3,178.79	1/4	3,509.50	1/4	3,827.87	1/4	4,125.65	1/4	4,425.65	1/4	4,725.65	1/4	5,025.65	1/4	5,325.65	1/4	5,625.65	1/4	5,925.65
1/2	3,185.69	1/2	3,516.33	1/2	3,834.29	1/2	4,131.62	1/2	4,431.62	1/2	4,731.62	1/2	5,031.62	1/2	5,331.62	1/2	5,631.62	1/2	5,931.62
3/4	3,192.58	3/4	3,523.16	3/4	3,840.71	3/4	4,137.58	3/4	4,437.58	3/4	4,737.58	3/4	5,037.58	3/4	5,337.58	3/4	5,637.58	3/4	5,937.58
1	3,199.48	1	3,529.99	1	3,847.13	1	4,143.55	1	4,443.55	1	4,743.55	1	5,043.55	1	5,343.55	1	5,643.55	1	5,943.55
1/4	3,206.37	1/4	3,536.79	1/4	3,853.51	1/4	4,149.48	1/4	4,449.48	1/4	4,749.48	1/4	5,049.48	1/4	5,349.48	1/4	5,649.48	1/4	5,949.48
1/2	3,213.26	1/2	3,543.58	1/2	3,859.89	1/2	4,155.41	1/2	4,455.41	1/2	4,755.41	1/2	5,055.41	1/2	5,355.41	1/2	5,655.41	1/2	5,955.41
3/4	3,220.16	3/4	3,550.38	3/4	3,866.28	3/4	4,161.35	3/4	4,461.35	3/4	4,761.35	3/4	5,061.35	3/4	5,361.35	3/4	5,661.35	3/4	5,961.35
2	3,227.05	2	3,557.17	2	3,872.66	2	4,167.28	2	4,467.28	2	4,767.28	2	5,067.28	2	5,367.28	2	5,667.28	2	5,967.28
1/4	3,233.95	1/4	3,563.94	1/4	3,879.01	1/4	4,173.18	1/4	4,473.18	1/4	4,773.18	1/4	5,073.18	1/4	5,373.18	1/4	5,673.18	1/4	5,973.18
1/2	3,240.84	1/2	3,570.70	1/2	3,885.36	1/2	4,179.08	1/2	4,479.08	1/2	4,779.08	1/2	5,079.08	1/2	5,379.08	1/2	5,679.08	1/2	5,979.08
3/4	3,247.74	3/4	3,577.46	3/4	3,891.71	3/4	4,184.98	3/4	4,484.98	3/4	4,784.98	3/4	5,084.98	3/4	5,384.98	3/4	5,684.98	3/4	5,984.98
3	3,254.63	3	3,584.22	3	3,898.06	3	4,190.87	3	4,490.87	3	4,790.87	3	5,090.87	3	5,390.87	3	5,690.87	3	5,990.87
1/4	3,261.52	1/4	3,590.95	1/4	3,904.38	1/4	4,196.74	1/4	4,496.74	1/4	4,796.74	1/4	5,096.74	1/4	5,396.74	1/4	5,696.74	1/4	5,996.74
1/2	3,268.42	1/2	3,597.67	1/2	3,910.69	1/2	4,202.60	1/2	4,502.60	1/2	4,802.60	1/2	5,102.60	1/2	5,402.60	1/2	5,702.60	1/2	6,002.60
3/4	3,275.31	3/4	3,604.40	3/4	3,917.01	3/4	4,208.47	3/4	4,508.47	3/4	4,808.47	3/4	5,108.47	3/4	5,408.47	3/4	5,708.47	3/4	6,008.47
4	3,282.21	4	3,611.13	4	3,923.32	4	4,214.33	4	4,514.33	4	4,814.33	4	5,114.33	4	5,414.33	4	5,714.33	4	6,014.33
1/4	3,289.10	1/4	3,617.82	1/4	3,929.60	1/4	4,220.68	1/4	4,520.68	1/4	4,820.68	1/4	5,120.68	1/4	5,420.68	1/4	5,720.68	1/4	6,020.68
1/2	3,295.99	1/2	3,624.51	1/2	3,935.89	1/2	4,227.03	1/2	4,527.03	1/2	4,827.03	1/2	5,127.03	1/2	5,427.03	1/2	5,727.03	1/2	6,027.03
3/4	3,302.89	3/4	3,631.21	3/4	3,942.17	3/4	4,233.38	3/4	4,533.38	3/4	4,833.38	3/4	5,133.38	3/4	5,433.38	3/4	5,733.38	3/4	6,033.38
5	3,309.78	5	3,637.90	5	3,948.45	5	4,239.73	5	4,539.73	5	4,839.73	5	5,139.73	5	5,439.73	5	5,739.73	5	6,039.73
1/4	3,316.68	1/4	3,644.56	1/4	3,954.69	1/4	4,246.59	1/4	4,546.59	1/4	4,846.59	1/4	5,146.59	1/4	5,446.59	1/4	5,746.59	1/4	6,046.59
1/2	3,323.57	1/2	3,651.22	1/2	3,960.94	1/2	4,253.44	1/2	4,553.44	1/2	4,853.44	1/2	5,153.44	1/2	5,453.44	1/2	5,753.44	1/2	6,053.44
3/4	3,330.47	3/4	3,657.87	3/4	3,967.19	3/4	4,260.30	3/4	4,560.30	3/4	4,860.30	3/4	5,160.30	3/4	5,460.30	3/4	5,760.30	3/4	6,060.30
6	3,337.36	6	3,664.53	6	3,973.44	6	4,267.15	6	4,567.15	6	4,867.15	6	5,167.15	6	5,467.15	6	5,767.15	6	6,067.15
1/4	3,344.25	1/4	3,671.16	1/4	3,979.65	1/4	4,274.00	1/4	4,574.00	1/4	4,874.00	1/4	5,174.00	1/4	5,474.00	1/4	5,774.00	1/4	6,074.00
1/2	3,351.15	1/2	3,677.78	1/2	3,985.86	1/2	4,280.86	1/2	4,580.86	1/2	4,880.86	1/2	5,180.86	1/2	5,480.86	1/2	5,780.86	1/2	6,080.86
3/4	3,358.04	3/4	3,684.40	3/4	3,992.07	3/4	4,287.71	3/4	4,587.71	3/4	4,887.71	3/4	5,187.71	3/4	5,487.71	3/4	5,787.71	3/4	6,087.71
7	3,364.94	7	3,691.03	7	3,998.29	7	4,294.57	7	4,594.57	7	4,894.57	7	5,194.57	7	5,494.57	7	5,794.57	7	6,094.57
1/4	3,371.83	1/4	3,697.62	1/4	4,004.42	1/4	4,301.35	1/4	4,601.35	1/4	4,901.35	1/4	5,201.35	1/4	5,501.35	1/4	5,801.35	1/4	6,101.35
1/2	3,378.73	1/2	3,704.21	1/2	4,010.56	1/2	4,308.13	1/2	4,608.13	1/2	4,908.13	1/2	5,208.13	1/2	5,508.13	1/2	5,808.13	1/2	6,108.13
3/4	3,385.62	3/4	3,710.80	3/4	4,016.70	3/4	4,314.91	3/4	4,614.91	3/4	4,914.91	3/4	5,214.91	3/4	5,514.91	3/4	5,814.91	3/4	6,114.91
8	3,392.51	8	3,717.39	8	4,022.84	8	4,321.69	8	4,621.69	8	4,921.69	8	5,221.69	8	5,521.69	8	5,821.69	8	6,121.69
1/4	3,399.41	1/4	3,723.94	1/4	4,028.94	1/4	4,327.84	1/4	4,627.84	1/4	4,927.84	1/4	5,227.84	1/4	5,527.84	1/4	5,827.84	1/4	6,127.84
1/2	3,406.30	1/2	3,730.50	1/2	4,035.05	1/2	4,334.00	1/2	4,634.00	1/2	4,934.00	1/2	5,234.00	1/2	5,534.00	1/2	5,834.00	1/2	6,134.00
3/4	3,413.20	3/4	3,737.05	3/4	4,041.15	3/4	4,340.15	3/4	4,640.15	3/4	4,940.15	3/4	5,240.15	3/4	5,540.15	3/4	5,840.15	3/4	6,140.15
9	3,420.09	9	3,743.61	9	4,047.26	9	4,346.31	9	4,646.31	9	4,946.31	9	5,246.31	9	5,546.31	9	5,846.31	9	6,146.31
1/4	3,426.98	1/4	3,750.13	1/4	4,053.33	1/4	4,351.21	1/4	4,651.21	1/4	4,951.21	1/4	5,251.21	1/4	5,551.21	1/4	5,851.21	1/4	6,151.21
1/2	3,433.88	1/2	3,756.66	1/2	4,059.40	1/2	4,356.11	1/2	4,656.11	1/2	4,956.11	1/2	5,256.11	1/2	5,556.11	1/2	5,856.11	1/2	6,156.11
3/4	3,440.77	3/4	3,763.17	3/4	4,065.46	3/4	4,361.01	3/4	4,661.01	3/4	4,961.01	3/4	5,261.01	3/4	5,561.01	3/4	5,861.01	3/4	6,161.01
10	3,447.67	10	3,769.69	10	4,071.53	10	4,367.88	10	4,667.88	10	4,967.88	10	5,267.88	10	5,567.88	10	5,867.88	10	6,167.88
1/4	3,454.55	1/4	3,776.18	1/4	4,077.57	1/4	4,373.84	1/4	4,673.84	1/4	4,973.84	1/4	5,273.84	1/4	5,573.84	1/4	5,873.84	1/4	6,173.84
1/2	3,461.44	1/2	3,782.67	1/2	4,083.61	1/2	4,379.94	1/2	4,679.94	1/2	4,979.94	1/2	5,279.94	1/2	5,579.94	1/2	5,879.94	1/2	6,179.94
3/4	3,468.33	3/4	3,789.16	3/4	4,089.64	3/4	4,386.21	3/4	4,686.21	3/4	4,986.21	3/4	5,286.21	3/4	5,586.21	3/4	5,886.21	3/4	6,186.21
11	3,475.22	11	3,795.64	11	4,095.68	11	4,391.94	11	4,691.94	11	4,991.94	11	5,291.94	11	5,591.94	11	5,891.94	11	6,191.94
1/4	3,482.08	1/4	3,802.09	1/4	4,101.68	1/4	4,397.94	1/4	4,697.94	1/4	4,997.94	1/4	5,297.94	1/4	5,597.94	1/4	5,897.94	1/4	6,197.94
1/2	3,488.94	1/2	3,808.55	1/2	4,107.68	1/2	4,403.94	1/2	4,703.94	1/2	5,003.94	1/2	5,303.94	1/2	5,603.94	1/2	5,903.94	1/2	6,203.94
3/4	3,495.81	3/4	3,815.00	3/4	4,113.68	3/4	4,409.94	3/4	4,709.94	3/4	5,009.94	3/4	5,309.94	3/4	5,609.94	3/4	5,909.94	3/4	6,209.94

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Tom Pearson



BARGE "EMS 393"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10 1/4"

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	18.85	0	396.35	0	773.98	0	1,156.94	0	1,544.87	0	1,932.80	0	2,320.73	0	2,708.66	0	3,096.59	0	3,484.51
1/4	24.62	1/4	404.43	1/4	781.74	1/4	1,165.02	1/4	1,552.95	1/4	1,940.88	1/4	2,328.81	1/4	2,716.74	1/4	3,104.67	1/4	3,492.59
1/2	30.39	1/2	412.52	1/2	789.50	1/2	1,173.10	1/2	1,561.03	1/2	1,948.96	1/2	2,336.89	1/2	2,724.83	1/2	3,112.76	1/2	3,500.67
3/4	36.16	3/4	420.60	3/4	797.26	3/4	1,181.18	3/4	1,569.11	3/4	1,957.04	3/4	2,344.98	3/4	2,732.91	3/4	3,120.84	3/4	3,508.75
1	41.94	1	428.68	1	805.02	1	1,189.26	1	1,577.20	1	1,965.13	1	2,353.06	1	2,740.99	1	3,128.92	1	3,516.83
1/4	49.73	1/4	436.76	1/4	812.79	1/4	1,197.35	1/4	1,585.28	1/4	1,973.21	1/4	2,361.14	1/4	2,749.07	1/4	3,137.00	1/4	3,524.92
1/2	57.52	1/2	444.84	1/2	820.56	1/2	1,205.43	1/2	1,593.36	1/2	1,981.29	1/2	2,369.22	1/2	2,757.15	1/2	3,145.08	1/2	3,533.00
3/4	65.31	3/4	452.92	3/4	828.34	3/4	1,213.51	3/4	1,601.44	3/4	1,989.37	3/4	2,377.30	3/4	2,765.23	3/4	3,153.17	3/4	3,541.08
2	73.11	2	461.00	2	836.11	2	1,221.59	2	1,609.52	2	1,997.45	2	2,385.39	2	2,773.32	2	3,161.25	2	3,549.16
1/4	81.19	1/4	469.08	1/4	843.88	1/4	1,229.67	1/4	1,617.61	1/4	2,005.54	1/4	2,393.47	1/4	2,781.40	1/4	3,169.33	1/4	3,557.24
1/2	89.27	1/2	477.17	1/2	851.66	1/2	1,237.76	1/2	1,625.69	1/2	2,013.62	1/2	2,401.55	1/2	2,789.48	1/2	3,177.41	1/2	3,565.32
3/4	97.35	3/4	485.25	3/4	859.43	3/4	1,245.84	3/4	1,633.77	3/4	2,021.70	3/4	2,409.63	3/4	2,797.56	3/4	3,185.49	3/4	3,573.40
3	105.43	3	493.33	3	867.21	3	1,253.92	3	1,641.85	3	2,029.78	3	2,417.71	3	2,805.64	3	3,193.58	3	3,581.48
1/4	113.51	1/4	501.41	1/4	874.99	1/4	1,262.00	1/4	1,649.93	1/4	2,037.86	1/4	2,425.80	1/4	2,813.73	1/4	3,201.66	1/4	3,589.56
1/2	121.59	1/2	509.49	1/2	882.76	1/2	1,270.08	1/2	1,658.10	1/2	2,045.95	1/2	2,433.88	1/2	2,821.81	1/2	3,209.74	1/2	3,597.64
3/4	129.67	3/4	517.57	3/4	890.54	3/4	1,278.17	3/4	1,666.10	3/4	2,054.03	3/4	2,441.96	3/4	2,829.89	3/4	3,217.82	3/4	3,605.72
4	137.76	4	525.65	4	898.32	4	1,286.25	4	1,674.18	4	2,062.11	4	2,450.04	4	2,837.97	4	3,225.90	4	3,613.80
1/4	145.84	1/4	533.42	1/4	906.40	1/4	1,294.33	1/4	1,682.26	1/4	2,070.19	1/4	2,458.12	1/4	2,846.05	1/4	3,233.99	1/4	3,621.88
1/2	153.92	1/2	541.19	1/2	914.48	1/2	1,302.41	1/2	1,690.34	1/2	2,078.27	1/2	2,466.20	1/2	2,854.14	1/2	3,242.07	1/2	3,629.96
3/4	162.00	3/4	548.96	3/4	922.56	3/4	1,310.49	3/4	1,698.42	3/4	2,086.36	3/4	2,474.29	3/4	2,862.22	3/4	3,250.15	3/4	3,638.04
5	170.08	5	556.73	5	930.64	5	1,318.57	5	1,706.51	5	2,094.44	5	2,482.37	5	2,870.30	5	3,258.23	5	3,646.12
1/4	178.16	1/4	564.49	1/4	938.73	1/4	1,326.66	1/4	1,714.59	1/4	2,102.52	1/4	2,490.45	1/4	2,878.38	1/4	3,266.31	1/4	3,654.20
1/2	186.24	1/2	572.25	1/2	946.81	1/2	1,334.74	1/2	1,722.67	1/2	2,110.60	1/2	2,498.53	1/2	2,886.46	1/2	3,274.39	1/2	3,662.28
3/4	194.32	3/4	580.01	3/4	954.89	3/4	1,342.82	3/4	1,730.75	3/4	2,118.68	3/4	2,506.61	3/4	2,894.55	3/4	3,282.48	3/4	3,670.36
6	202.40	6	587.77	6	962.97	6	1,350.90	6	1,738.83	6	2,126.76	6	2,514.70	6	2,902.63	6	3,290.56	6	3,678.44
1/4	210.49	1/4	595.53	1/4	971.05	1/4	1,358.98	1/4	1,746.92	1/4	2,134.85	1/4	2,522.78	1/4	2,910.71	1/4	3,298.64	1/4	3,686.53
1/2	218.57	1/2	603.29	1/2	979.14	1/2	1,367.07	1/2	1,755.00	1/2	2,142.93	1/2	2,530.86	1/2	2,918.79	1/2	3,306.72	1/2	3,694.61
3/4	226.65	3/4	611.05	3/4	987.22	3/4	1,375.15	3/4	1,763.08	3/4	2,151.01	3/4	2,538.94	3/4	2,926.87	3/4	3,314.80	3/4	3,702.69
7	234.73	7	618.81	7	995.30	7	1,383.23	7	1,771.16	7	2,159.09	7	2,547.02	7	2,934.95	7	3,322.89	7	3,710.77
1/4	242.81	1/4	626.57	1/4	1,003.38	1/4	1,391.31	1/4	1,779.24	1/4	2,167.17	1/4	2,555.11	1/4	2,943.04	1/4	3,330.97	1/4	3,718.85
1/2	250.89	1/2	634.33	1/2	1,011.46	1/2	1,399.39	1/2	1,787.32	1/2	2,175.26	1/2	2,563.19	1/2	2,951.12	1/2	3,339.05	1/2	3,726.93
3/4	258.97	3/4	642.09	3/4	1,019.54	3/4	1,407.48	3/4	1,795.41	3/4	2,183.34	3/4	2,571.27	3/4	2,959.20	3/4	3,347.13	3/4	3,735.01
8	267.05	8	649.85	8	1,027.63	8	1,415.56	8	1,803.49	8	2,191.42	8	2,579.35	8	2,967.28	8	3,355.21	8	3,743.09
1/4	275.14	1/4	657.61	1/4	1,035.71	1/4	1,423.64	1/4	1,811.57	1/4	2,199.50	1/4	2,587.43	1/4	2,975.36	1/4	3,363.30	1/4	3,751.17
1/2	283.22	1/2	665.37	1/2	1,043.79	1/2	1,431.72	1/2	1,819.65	1/2	2,207.58	1/2	2,595.52	1/2	2,983.45	1/2	3,371.38	1/2	3,759.25
3/4	291.30	3/4	673.12	3/4	1,051.87	3/4	1,439.80	3/4	1,827.73	3/4	2,215.67	3/4	2,603.60	3/4	2,991.53	3/4	3,379.46	3/4	3,767.33
9	299.38	9	680.88	9	1,059.95	9	1,447.89	9	1,835.82	9	2,223.75	9	2,611.68	9	2,999.61	9	3,387.54	9	3,775.41
1/4	307.46	1/4	688.63	1/4	1,068.04	1/4	1,455.97	1/4	1,843.90	1/4	2,231.83	1/4	2,619.76	1/4	3,007.69	1/4	3,395.62	1/4	3,783.49
1/2	315.54	1/2	696.39	1/2	1,076.12	1/2	1,464.05	1/2	1,851.98	1/2	2,239.91	1/2	2,627.84	1/2	3,015.77	1/2	3,403.71	1/2	3,791.57
3/4	323.62	3/4	704.15	3/4	1,084.20	3/4	1,472.13	3/4	1,860.06	3/4	2,247.99	3/4	2,635.92	3/4	3,023.86	3/4	3,411.79	3/4	3,799.65
10	331.70	10	711.90	10	1,092.28	10	1,480.21	10	1,868.14	10	2,256.08	10	2,644.01	10	3,031.94	10	3,419.87	10	3,807.73
1/4	339.79	1/4	719.66	1/4	1,100.36	1/4	1,488.29	1/4	1,876.23	1/4	2,264.16	1/4	2,652.09	1/4	3,040.02	1/4	3,427.95	1/4	3,815.81
1/2	347.87	1/2	727.42	1/2	1,108.45	1/2	1,496.38	1/2	1,884.31	1/2	2,272.24	1/2	2,660.17	1/2	3,048.10	1/2	3,436.03	1/2	3,823.89
3/4	355.95	3/4	735.18	3/4	1,116.53	3/4	1,504.46	3/4	1,892.39	3/4	2,280.32	3/4	2,668.25	3/4	3,056.18	3/4	3,444.11	3/4	3,831.97
11	364.03	11	742.94	11	1,124.61	11	1,512.54	11	1,900.47	11	2,288.40	11	2,676.33	11	3,064.27	11	3,452.19	11	3,840.05
1/4	372.11	1/4	750.70	1/4	1,132.69	1/4	1,520.62	1/4	1,908.55	1/4	2,296.48	1/4	2,684.42	1/4	3,072.35	1/4	3,460.27	1/4	3,848.14
1/2	380.19	1/2	758.46	1/2	1,140.77	1/2	1,528.70	1/2	1,916.64	1/2	2,304.57	1/2	2,692.50	1/2	3,080.43	1/2	3,468.35	1/2	3,856.22
3/4	388.27	3/4	766.22	3/4	1,148.85	3/4	1,536.79	3/4	1,924.72	3/4	2,312.65	3/4	2,700.58	3/4	3,088.51	3/4	3,476.43	3/4	3,864.30

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

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BARGE "EMS 393"

2 STBD

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.	
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	18.85	0	396.35	0	783.94	0	1,171.83	0	1,559.76	0	1,947.69	0	2,335.62	0	2,723.55	0	3,111.49	0	3,499.41
1/4	24.62	1/4	404.43	1/4	792.01	1/4	1,179.91	1/4	1,567.84	1/4	1,955.77	1/4	2,343.71	1/4	2,731.64	1/4	3,119.57	1/4	3,507.49
1/2	30.39	1/2	412.52	1/2	800.08	1/2	1,187.99	1/2	1,575.92	1/2	1,963.86	1/2	2,351.79	1/2	2,739.72	1/2	3,127.65	1/2	3,515.57
3/4	36.16	3/4	420.60	3/4	808.15	3/4	1,196.08	3/4	1,584.01	3/4	1,971.94	3/4	2,359.87	3/4	2,747.80	3/4	3,135.73	3/4	3,523.65
1	41.94	1	428.68	1	816.23	1	1,204.16	1	1,592.09	1	1,980.02	1	2,367.95	1	2,768.88	1	3,153.81	1	3,541.73
1/4	49.73	1/4	436.76	1/4	824.31	1/4	1,212.24	1/4	1,600.17	1/4	1,988.10	1/4	2,376.03	1/4	2,763.96	1/4	3,151.90	1/4	3,539.81
1/2	55.52	1/2	444.84	1/2	832.39	1/2	1,220.32	1/2	1,608.25	1/2	1,996.18	1/2	2,384.11	1/2	2,772.05	1/2	3,159.98	1/2	3,547.89
3/4	61.31	3/4	452.92	3/4	840.47	3/4	1,228.40	3/4	1,616.33	3/4	2,004.27	3/4	2,392.20	3/4	2,780.13	3/4	3,168.06	3/4	3,555.97
2	73.11	2	461.00	2	848.55	2	1,236.48	2	1,624.42	2	2,012.35	2	2,400.28	2	2,788.21	2	3,176.14	2	3,564.05
1/4	81.19	1/4	469.08	1/4	856.64	1/4	1,244.57	1/4	1,632.50	1/4	2,020.43	1/4	2,408.36	1/4	2,796.29	1/4	3,184.22	1/4	3,572.13
1/2	89.27	1/2	477.17	1/2	864.72	1/2	1,252.65	1/2	1,640.58	1/2	2,028.51	1/2	2,416.44	1/2	2,804.37	1/2	3,192.30	1/2	3,580.21
3/4	97.35	3/4	485.25	3/4	872.80	3/4	1,260.73	3/4	1,648.66	3/4	2,036.59	3/4	2,424.52	3/4	2,812.46	3/4	3,200.39	3/4	3,588.29
3	105.43	3	493.33	3	880.88	3	1,268.81	3	1,656.74	3	2,044.67	3	2,432.61	3	2,820.54	3	3,208.47	3	3,596.37
1/4	113.51	1/4	501.41	1/4	888.96	1/4	1,276.89	1/4	1,664.83	1/4	2,052.76	1/4	2,440.69	1/4	2,828.62	1/4	3,216.55	1/4	3,604.45
1/2	121.59	1/2	509.49	1/2	897.05	1/2	1,284.98	1/2	1,672.91	1/2	2,060.84	1/2	2,448.77	1/2	2,836.70	1/2	3,224.63	1/2	3,612.53
3/4	129.67	3/4	517.57	3/4	905.13	3/4	1,293.06	3/4	1,680.99	3/4	2,068.92	3/4	2,456.85	3/4	2,844.78	3/4	3,232.71	3/4	3,620.61
4	137.76	4	525.65	4	913.21	4	1,301.14	4	1,688.07	4	2,077.00	4	2,464.93	4	2,852.86	4	3,240.80	4	3,628.69
1/4	145.84	1/4	533.73	1/4	921.29	1/4	1,309.22	1/4	1,697.15	1/4	2,085.08	1/4	2,473.02	1/4	2,860.95	1/4	3,248.88	1/4	3,636.77
1/2	153.92	1/2	541.82	1/2	929.37	1/2	1,317.30	1/2	1,705.23	1/2	2,093.17	1/2	2,481.10	1/2	2,869.03	1/2	3,256.96	1/2	3,644.85
3/4	162.00	3/4	549.90	3/4	937.45	3/4	1,325.39	3/4	1,713.32	3/4	2,101.25	3/4	2,489.18	3/4	2,877.11	3/4	3,265.04	3/4	3,652.94
5	170.08	5	557.98	5	945.54	5	1,333.47	5	1,721.40	5	2,109.33	5	2,497.26	5	2,885.19	5	3,273.12	5	3,661.02
1/4	178.16	1/4	566.05	1/4	953.62	1/4	1,341.55	1/4	1,729.48	1/4	2,117.41	1/4	2,505.34	1/4	2,893.27	1/4	3,281.21	1/4	3,669.10
1/2	186.24	1/2	574.12	1/2	961.70	1/2	1,349.63	1/2	1,737.56	1/2	2,125.49	1/2	2,513.43	1/2	2,901.36	1/2	3,289.29	1/2	3,677.18
3/4	194.32	3/4	582.19	3/4	969.78	3/4	1,357.71	3/4	1,745.64	3/4	2,133.58	3/4	2,521.51	3/4	2,909.44	3/4	3,297.37	3/4	3,685.26
6	202.40	6	590.26	6	977.86	6	1,365.80	6	1,753.73	6	2,141.66	6	2,529.59	6	2,917.52	6	3,305.45	6	3,693.34
1/4	210.49	1/4	598.33	1/4	985.95	1/4	1,373.88	1/4	1,761.81	1/4	2,149.74	1/4	2,537.67	1/4	2,925.60	1/4	3,313.53	1/4	3,701.42
1/2	218.57	1/2	606.41	1/2	994.03	1/2	1,381.96	1/2	1,769.89	1/2	2,157.82	1/2	2,545.75	1/2	2,933.68	1/2	3,321.62	1/2	3,709.50
3/4	226.65	3/4	614.48	3/4	1,002.11	3/4	1,390.04	3/4	1,777.97	3/4	2,165.90	3/4	2,553.83	3/4	2,941.77	3/4	3,329.70	3/4	3,717.58
7	234.73	7	622.55	7	1,010.19	7	1,398.12	7	1,786.05	7	2,173.99	7	2,561.92	7	2,949.85	7	3,337.78	7	3,725.66
1/4	242.81	1/4	630.62	1/4	1,018.27	1/4	1,406.20	1/4	1,794.14	1/4	2,182.07	1/4	2,570.00	1/4	2,957.93	1/4	3,345.86	1/4	3,733.74
1/2	250.89	1/2	638.69	1/2	1,026.36	1/2	1,414.29	1/2	1,802.22	1/2	2,190.15	1/2	2,578.08	1/2	2,966.01	1/2	3,353.94	1/2	3,741.82
3/4	258.97	3/4	646.76	3/4	1,034.44	3/4	1,422.37	3/4	1,810.30	3/4	2,198.23	3/4	2,586.16	3/4	2,974.09	3/4	3,362.02	3/4	3,749.90
8	267.05	8	654.83	8	1,042.52	8	1,430.45	8	1,818.38	8	2,206.31	8	2,594.24	8	2,982.18	8	3,370.11	8	3,757.98
1/4	275.14	1/4	662.90	1/4	1,050.60	1/4	1,438.53	1/4	1,826.46	1/4	2,214.39	1/4	2,602.33	1/4	2,990.26	1/4	3,378.19	1/4	3,766.06
1/2	283.22	1/2	670.97	1/2	1,058.68	1/2	1,446.61	1/2	1,834.55	1/2	2,222.48	1/2	2,610.41	1/2	2,998.34	1/2	3,386.27	1/2	3,774.14
3/4	291.30	3/4	679.03	3/4	1,066.76	3/4	1,454.70	3/4	1,842.63	3/4	2,230.56	3/4	2,618.49	3/4	3,006.42	3/4	3,394.35	3/4	3,782.22
9	299.38	9	687.10	9	1,074.85	9	1,462.78	9	1,850.71	9	2,238.64	9	2,626.57	9	3,014.50	9	3,402.43	9	3,790.30
1/4	307.46	1/4	695.17	1/4	1,082.93	1/4	1,470.86	1/4	1,858.79	1/4	2,246.72	1/4	2,634.65	1/4	3,022.58	1/4	3,410.52	1/4	3,798.38
1/2	315.54	1/2	703.24	1/2	1,091.01	1/2	1,478.94	1/2	1,866.87	1/2	2,254.80	1/2	2,642.74	1/2	3,030.67	1/2	3,418.60	1/2	3,806.46
3/4	323.62	3/4	711.30	3/4	1,099.09	3/4	1,487.02	3/4	1,874.95	3/4	2,262.89	3/4	2,650.82	3/4	3,038.75	3/4	3,426.68	3/4	3,814.55
10	331.70	10	719.37	10	1,107.17	10	1,495.11	10	1,883.04	10	2,270.97	10	2,658.90	10	3,046.83	10	3,434.76	10	3,822.63
1/4	339.79	1/4	727.44	1/4	1,115.26	1/4	1,503.19	1/4	1,891.12	1/4	2,279.05	1/4	2,666.98	1/4	3,054.91	1/4	3,442.84	1/4	3,830.71
1/2	347.87	1/2	735.51	1/2	1,123.34	1/2	1,511.27	1/2	1,899.20	1/2	2,287.13	1/2	2,675.06	1/2	3,062.99	1/2	3,450.92	1/2	3,838.79
3/4	355.95	3/4	743.58	3/4	1,131.42	3/4	1,519.35	3/4	1,907.28	3/4	2,295.21	3/4	2,683.14	3/4	3,071.08	3/4	3,459.00	3/4	3,846.87
11	364.03	11	751.65	11	1,139.50	11	1,527.43	11	1,915.36	11	2,303.30	11	2,691.23	11	3,079.16	11	3,467.08	11	3,854.95
1/4	372.11	1/4	759.73	1/4	1,147.58	1/4	1,535.52	1/4	1,923.45	1/4	2,311.38	1/4	2,699.31	1/4	3,087.24	1/4	3,475.16	1/4	3,863.03
1/2	380.19	1/2	767.80	1/2	1,155.67	1/2	1,543.60	1/2	1,931.53	1/2	2,319.46	1/2	2,707.39	1/2	3,095.32	1/2	3,483.24	1/2	3,871.11
3/4	388.27	3/4	775.87	3/4	1,163.75	3/4	1,551.68	3/4	1,939.61	3/4	2,327.54	3/4	2,715.47	3/4	3,103.40	3/4	3,491.33	3/4	3,879.19

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Paul J. Mac



BARGE "EMS 393"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-10"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,887.27	0	4,274.96	0	4,648.60	0	4,998.14	0	5,326.78	0	5,635.42	0	5,924.06	0	6,192.70	0	6,441.34	0	6,670.98
1/4	3,895.35	1/4	4,282.92	1/4	4,656.12	1/4	5,005.13	1/4	5,333.77	1/4	5,642.41	1/4	5,931.05	1/4	6,200.69	1/4	6,449.33	1/4	6,678.97
1/2	3,903.43	1/2	4,290.97	1/2	4,663.65	1/2	5,012.13	1/2	5,340.77	1/2	5,649.41	1/2	5,938.05	1/2	6,207.69	1/2	6,456.33	1/2	6,686.97
3/4	3,911.51	3/4	4,298.98	3/4	4,671.17	3/4	5,019.12	3/4	5,348.88	3/4	5,656.52	3/4	5,945.16	3/4	6,215.33	3/4	6,463.71	3/4	6,694.75
1	3,919.59	1	4,306.98	1	4,678.69	1	5,026.11	1	5,356.99	1	5,664.63	1	5,950.91	1	6,223.41	1	6,470.99	1	6,701.83
1/4	3,927.67	1/4	4,314.95	1/4	4,686.18	1/4	5,033.06	1/4	5,365.10	1/4	5,674.74	1/4	5,958.66	1/4	6,230.49	1/4	6,477.77	1/4	6,708.61
1/2	3,935.75	1/2	4,322.91	1/2	4,693.66	1/2	5,040.02	1/2	5,372.21	1/2	5,681.25	1/2	5,965.78	1/2	6,237.57	1/2	6,484.55	1/2	6,715.49
3/4	3,943.83	3/4	4,330.88	3/4	4,701.14	3/4	5,046.97	3/4	5,380.32	3/4	5,688.86	3/4	5,971.87	3/4	6,244.66	3/4	6,491.44	3/4	6,722.37
2	3,951.91	2	4,338.84	2	4,708.62	2	5,053.92	2	5,388.40	2	5,695.90	2	5,978.91	2	6,251.75	2	6,498.33	2	6,729.29
1/4	3,959.99	1/4	4,346.77	1/4	4,716.07	1/4	5,060.84	1/4	5,395.32	1/4	5,702.32	1/4	5,985.83	1/4	6,258.86	1/4	6,505.22	1/4	6,736.21
1/2	3,968.07	1/2	4,354.69	1/2	4,723.51	1/2	5,067.75	1/2	5,402.84	1/2	5,710.25	1/2	5,992.84	1/2	6,265.91	1/2	6,512.11	1/2	6,743.13
3/4	3,976.16	3/4	4,362.62	3/4	4,730.95	3/4	5,074.66	3/4	5,410.36	3/4	5,717.76	3/4	6,000.35	3/4	6,273.00	3/4	6,518.99	3/4	6,750.01
3	3,984.24	3	4,370.54	3	4,738.39	3	5,081.57	3	5,418.47	3	5,725.26	3	6,008.44	3	6,280.09	3	6,525.88	3	6,756.93
1/4	3,992.32	1/4	4,378.43	1/4	4,745.80	1/4	5,088.45	1/4	5,426.56	1/4	5,732.35	1/4	6,016.53	1/4	6,287.18	1/4	6,532.77	1/4	6,763.85
1/2	4,000.40	1/2	4,386.31	1/2	4,753.20	1/2	5,095.32	1/2	5,434.67	1/2	5,740.24	1/2	6,024.62	1/2	6,293.27	1/2	6,538.66	1/2	6,770.77
3/4	4,008.48	3/4	4,394.20	3/4	4,760.60	3/4	5,102.19	3/4	5,442.78	3/4	5,748.13	3/4	6,032.71	3/4	6,300.36	3/4	6,544.55	3/4	6,777.69
4	4,016.56	4	4,402.08	4	4,768.00	4	5,109.06	4	5,450.89	4	5,755.26	4	6,040.79	4	6,307.45	4	6,550.44	4	6,784.61
1/4	4,024.64	1/4	4,409.93	1/4	4,776.36	1/4	5,116.51	1/4	5,458.00	1/4	5,762.41	1/4	6,048.88	1/4	6,314.54	1/4	6,556.33	1/4	6,791.51
1/2	4,032.72	1/2	4,417.77	1/2	4,782.73	1/2	5,123.95	1/2	5,466.11	1/2	5,769.55	1/2	6,056.96	1/2	6,321.69	1/2	6,562.22	1/2	6,798.43
3/4	4,040.80	3/4	4,425.61	3/4	4,790.09	3/4	5,131.39	3/4	5,474.22	3/4	5,776.68	3/4	6,065.01	3/4	6,328.83	3/4	6,568.11	3/4	6,805.35
5	4,048.88	5	4,433.46	5	4,797.45	5	5,138.84	5	5,482.34	5	5,784.13	5	6,073.00	5	6,335.94	5	6,574.99	5	6,812.11
1/4	4,056.96	1/4	4,441.26	1/4	4,804.77	1/4	5,146.87	1/4	5,490.45	1/4	5,792.24	1/4	6,081.11	1/4	6,343.05	1/4	6,581.07	1/4	6,819.19
1/2	4,065.04	1/2	4,449.07	1/2	4,812.09	1/2	5,154.90	1/2	5,500.56	1/2	5,802.35	1/2	6,089.00	1/2	6,350.19	1/2	6,588.15	1/2	6,826.27
3/4	4,073.12	3/4	4,456.87	3/4	4,819.42	3/4	5,162.94	3/4	5,508.67	3/4	5,810.46	3/4	6,097.13	3/4	6,357.28	3/4	6,595.20	3/4	6,833.31
6	4,081.20	6	4,464.68	6	4,826.74	6	5,170.97	6	5,516.80	6	5,818.59	6	6,105.22	6	6,364.37	6	6,602.29	6	6,840.41
1/4	4,089.28	1/4	4,472.44	1/4	4,834.02	1/4	5,179.00	1/4	5,524.92	1/4	5,826.71	1/4	6,113.34	1/4	6,371.49	1/4	6,609.40	1/4	6,847.53
1/2	4,097.36	1/2	4,480.20	1/2	4,841.30	1/2	5,187.04	1/2	5,532.84	1/2	5,834.63	1/2	6,121.47	1/2	6,378.62	1/2	6,616.51	1/2	6,854.65
3/4	4,105.44	3/4	4,487.97	3/4	4,848.58	3/4	5,195.07	3/4	5,540.76	3/4	5,842.55	3/4	6,129.56	3/4	6,385.71	3/4	6,623.60	3/4	6,861.79
7	4,113.52	7	4,495.73	7	4,855.86	7	5,203.10	7	5,548.68	7	5,855.47	7	6,137.65	7	6,392.80	7	6,630.69	7	6,868.87
1/4	4,121.60	1/4	4,503.46	1/4	4,863.06	1/4	5,211.05	1/4	5,556.80	1/4	5,863.59	1/4	6,145.74	1/4	6,400.94	1/4	6,637.83	1/4	6,875.91
1/2	4,129.68	1/2	4,511.18	1/2	4,870.25	1/2	5,219.00	1/2	5,564.92	1/2	5,871.71	1/2	6,153.83	1/2	6,408.03	1/2	6,644.92	1/2	6,883.01
3/4	4,137.77	3/4	4,518.90	3/4	4,877.45	3/4	5,226.95	3/4	5,572.84	3/4	5,880.63	3/4	6,161.92	3/4	6,415.12	3/4	6,651.91	3/4	6,889.99
8	4,145.85	8	4,526.63	8	4,884.64	8	5,234.90	8	5,580.76	8	5,888.55	8	6,169.63	8	6,422.21	8	6,658.20	8	6,896.28
1/4	4,153.93	1/4	4,534.31	1/4	4,891.79	1/4	5,242.11	1/4	5,588.87	1/4	5,896.66	1/4	6,177.71	1/4	6,429.31	1/4	6,665.30	1/4	6,903.38
1/2	4,162.01	1/2	4,542.00	1/2	4,898.95	1/2	5,249.33	1/2	5,596.00	1/2	5,903.79	1/2	6,185.80	1/2	6,436.40	1/2	6,672.39	1/2	6,910.47
3/4	4,170.09	3/4	4,549.68	3/4	4,906.10	3/4	5,256.54	3/4	5,603.12	3/4	5,910.91	3/4	6,193.89	3/4	6,443.49	3/4	6,679.48	3/4	6,917.55
9	4,178.17	9	4,557.36	9	4,913.26	9	5,263.75	9	5,610.24	9	5,915.03	9	6,201.98	9	6,450.58	9	6,686.57	9	6,924.64
1/4	4,186.25	1/4	4,565.01	1/4	4,920.37	1/4	5,269.50	1/4	5,617.36	1/4	5,921.15	1/4	6,209.12	1/4	6,457.67	1/4	6,693.66	1/4	6,931.71
1/2	4,194.33	1/2	4,572.65	1/2	4,927.48	1/2	5,275.24	1/2	5,625.44	1/2	5,927.23	1/2	6,216.21	1/2	6,464.76	1/2	6,700.75	1/2	6,938.81
3/4	4,202.41	3/4	4,580.29	3/4	4,934.60	3/4	5,280.98	3/4	5,633.52	3/4	5,935.31	3/4	6,223.29	3/4	6,471.85	3/4	6,707.84	3/4	6,945.89
10	4,210.49	10	4,587.94	10	4,941.71	10	5,288.26	10	5,641.79	10	5,946.58	10	6,230.37	10	6,478.94	10	6,714.93	10	6,951.98
1/4	4,218.56	1/4	4,595.54	1/4	4,948.78	1/4	5,295.50	1/4	5,649.03	1/4	5,953.87	1/4	6,237.44	1/4	6,486.03	1/4	6,721.92	1/4	6,958.97
1/2	4,226.63	1/2	4,603.14	1/2	4,955.86	1/2	5,302.71	1/2	5,656.16	1/2	5,960.53	1/2	6,244.51	1/2	6,493.12	1/2	6,728.91	1/2	6,965.96
3/4	4,234.71	3/4	4,610.75	3/4	4,962.93	3/4	5,310.00	3/4	5,663.45	3/4	5,967.82	3/4	6,251.59	3/4	6,500.21	3/4	6,735.90	3/4	6,972.95
11	4,242.78	11	4,618.35	11	4,970.01	11	5,317.11	11	5,670.57	11	5,977.94	11	6,258.68	11	6,507.30	11	6,742.99	11	6,979.04
1/4	4,250.82	1/4	4,625.91	1/4	4,977.04	1/4	5,324.22	1/4	5,677.69	1/4	5,985.06	1/4	6,265.79	1/4	6,514.41	1/4	6,749.98	1/4	6,986.03
1/2	4,258.87	1/2	4,633.48	1/2	4,984.07	1/2	5,330.33	1/2	5,683.80	1/2	5,991.17	1/2	6,272.86	1/2	6,521.50	1/2	6,756.01	1/2	6,992.07
3/4	4,266.92	3/4	4,641.04	3/4	4,991.11	3/4	5,336.45	3/4	5,690.91	3/4	5,997.30	3/4	6,280.91	3/4	6,528.59	3/4	6,763.06	3/4	6,998.12

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

PRECISION MEASUREMENT
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BARGE "EMS 393"

3 PORT

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.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	17.60	0	369.42	0	721.61	0	1,078.16	0	1,439.47	0	1,800.58	0	2,161.17	0	2,522.64	0	2,884.11	0	3,245.22	0	3,606.33
1/4	22.97	1/4	376.95	1/4	728.85	1/4	1,085.69	1/4	1,447.00	1/4	1,808.09	1/4	2,168.70	1/4	2,530.17	1/4	2,891.64	1/4	3,252.75	1/4	3,613.86
1/2	28.35	1/2	384.48	1/2	736.10	1/2	1,093.21	1/2	1,454.52	1/2	1,815.60	1/2	2,176.24	1/2	2,537.70	1/2	2,899.16	1/2	3,260.28	1/2	3,621.39
3/4	33.73	3/4	392.01	3/4	743.34	3/4	1,100.74	3/4	1,462.05	3/4	1,823.10	3/4	2,183.77	3/4	2,545.24	3/4	2,906.68	3/4	3,268.11	3/4	3,629.22
1	39.11	1	399.55	1	750.58	1	1,108.27	1	1,469.58	1	1,830.61	1	2,191.30	1	2,552.77	1	2,914.21	1	3,275.34	1	3,636.45
1/4	46.37	1/4	407.08	1/4	757.83	1/4	1,115.79	1/4	1,477.10	1/4	1,838.12	1/4	2,198.83	1/4	2,560.30	1/4	2,921.73	1/4	3,282.87	1/4	3,643.98
1/2	53.64	1/2	414.61	1/2	765.08	1/2	1,123.32	1/2	1,484.63	1/2	1,845.63	1/2	2,206.36	1/2	2,567.83	1/2	2,929.25	1/2	3,290.36	1/2	3,651.47
3/4	60.90	3/4	422.14	3/4	772.33	3/4	1,130.85	3/4	1,492.16	3/4	1,853.13	3/4	2,213.89	3/4	2,575.36	3/4	2,936.78	3/4	3,297.93	3/4	3,659.04
2	68.16	2	429.67	2	779.58	2	1,138.38	2	1,499.69	2	1,860.64	2	2,221.42	2	2,582.89	2	2,944.30	2	3,305.46	2	3,666.57
1/4	75.69	1/4	437.20	1/4	786.82	1/4	1,145.90	1/4	1,507.21	1/4	1,868.15	1/4	2,228.95	1/4	2,590.42	1/4	2,951.82	1/4	3,312.99	1/4	3,674.10
1/2	83.22	1/2	444.73	1/2	794.06	1/2	1,153.43	1/2	1,514.74	1/2	1,875.66	1/2	2,236.48	1/2	2,597.95	1/2	2,959.35	1/2	3,320.52	1/2	3,681.63
3/4	90.75	3/4	452.27	3/4	801.30	3/4	1,160.96	3/4	1,522.27	3/4	1,883.16	3/4	2,244.01	3/4	2,605.48	3/4	2,966.87	3/4	3,328.05	3/4	3,689.16
3	98.29	3	459.80	3	808.54	3	1,168.49	3	1,529.80	3	1,890.67	3	2,251.54	3	2,613.01	3	2,974.39	3	3,335.58	3	3,696.69
1/4	105.82	1/4	467.33	1/4	815.78	1/4	1,176.01	1/4	1,537.32	1/4	1,898.18	1/4	2,259.07	1/4	2,620.54	1/4	2,981.91	1/4	3,343.11	1/4	3,704.22
1/2	113.35	1/2	474.86	1/2	823.02	1/2	1,183.54	1/2	1,544.85	1/2	1,905.69	1/2	2,266.60	1/2	2,628.07	1/2	2,989.44	1/2	3,350.64	1/2	3,711.75
3/4	120.88	3/4	482.39	3/4	830.26	3/4	1,191.07	3/4	1,552.38	3/4	1,913.19	3/4	2,277.13	3/4	2,638.60	3/4	2,999.96	3/4	3,357.17	3/4	3,718.28
4	128.41	4	489.92	4	837.50	4	1,198.59	4	1,559.91	4	1,920.70	4	2,281.66	4	2,643.13	4	3,004.48	4	3,365.70	4	3,726.81
1/4	135.94	1/4	497.17	1/4	845.02	1/4	1,206.12	1/4	1,567.43	1/4	1,928.21	1/4	2,292.19	1/4	2,653.66	1/4	3,015.03	1/4	3,376.14	1/4	3,737.25
1/2	143.47	1/2	504.42	1/2	852.54	1/2	1,213.65	1/2	1,574.96	1/2	1,935.72	1/2	2,296.73	1/2	2,658.19	1/2	3,017.53	1/2	3,388.29	1/2	3,748.40
3/4	151.01	3/4	511.67	3/4	860.06	3/4	1,221.18	3/4	1,582.49	3/4	1,943.23	3/4	2,307.26	3/4	2,665.72	3/4	3,027.05	3/4	3,398.29	3/4	3,759.40
5	158.54	5	518.92	5	867.57	5	1,228.70	5	1,590.01	5	1,950.73	5	2,311.79	5	2,673.26	5	3,034.58	5	3,395.82	5	3,756.93
1/4	166.07	1/4	526.16	1/4	875.09	1/4	1,236.23	1/4	1,597.54	1/4	1,958.24	1/4	2,319.32	1/4	2,680.79	1/4	3,042.10	1/4	3,403.21	1/4	3,764.32
1/2	173.60	1/2	533.40	1/2	882.61	1/2	1,243.76	1/2	1,605.07	1/2	1,965.75	1/2	2,326.85	1/2	2,688.32	1/2	3,049.62	1/2	3,410.73	1/2	3,771.84
3/4	181.13	3/4	540.64	3/4	890.13	3/4	1,251.29	3/4	1,612.60	3/4	1,973.26	3/4	2,339.38	3/4	2,695.85	3/4	3,062.15	3/4	3,423.26	3/4	3,782.95
6	188.66	6	547.88	6	897.65	6	1,258.81	6	1,620.12	6	1,980.76	6	2,341.91	6	2,703.38	6	3,064.67	6	3,425.78	6	3,786.89
1/4	196.20	1/4	555.12	1/4	905.17	1/4	1,266.34	1/4	1,627.65	1/4	1,988.27	1/4	2,349.44	1/4	2,710.91	1/4	3,072.19	1/4	3,433.30	1/4	3,794.41
1/2	203.73	1/2	562.36	1/2	912.68	1/2	1,273.87	1/2	1,635.18	1/2	1,995.78	1/2	2,356.97	1/2	2,718.44	1/2	3,079.72	1/2	3,439.83	1/2	3,800.94
3/4	211.26	3/4	569.60	3/4	920.20	3/4	1,281.40	3/4	1,642.71	3/4	2,003.29	3/4	2,364.50	3/4	2,726.97	3/4	3,087.24	3/4	3,448.35	3/4	3,809.46
7	218.79	7	576.84	7	927.72	7	1,288.92	7	1,650.23	7	2,010.79	7	2,372.03	7	2,733.50	7	3,094.76	7	3,455.87	7	3,816.98
1/4	226.32	1/4	584.08	1/4	935.24	1/4	1,296.45	1/4	1,657.76	1/4	2,018.30	1/4	2,379.56	1/4	2,741.03	1/4	3,102.29	1/4	3,463.40	1/4	3,824.51
1/2	233.85	1/2	591.32	1/2	942.76	1/2	1,303.98	1/2	1,665.29	1/2	2,025.81	1/2	2,387.09	1/2	2,748.56	1/2	3,109.81	1/2	3,465.21	1/2	3,826.32
3/4	241.38	3/4	598.56	3/4	950.27	3/4	1,311.50	3/4	1,672.81	3/4	2,033.32	3/4	2,394.62	3/4	2,756.09	3/4	3,117.33	3/4	3,472.44	3/4	3,833.55
8	248.92	8	605.80	8	957.79	8	1,319.03	8	1,680.34	8	2,040.82	8	2,402.15	8	2,763.62	8	3,124.86	8	3,485.97	8	3,847.08
1/4	256.45	1/4	613.04	1/4	965.31	1/4	1,326.56	1/4	1,687.87	1/4	2,048.33	1/4	2,409.68	1/4	2,771.15	1/4	3,132.38	1/4	3,493.49	1/4	3,854.60
1/2	263.98	1/2	620.28	1/2	972.83	1/2	1,334.09	1/2	1,695.40	1/2	2,055.84	1/2	2,417.21	1/2	2,778.68	1/2	3,139.90	1/2	3,495.01	1/2	3,856.11
3/4	271.51	3/4	627.51	3/4	980.35	3/4	1,341.61	3/4	1,702.92	3/4	2,063.35	3/4	2,424.75	3/4	2,786.21	3/4	3,147.43	3/4	3,502.54	3/4	3,863.65
9	279.04	9	634.75	9	987.87	9	1,349.14	9	1,710.45	9	2,070.85	9	2,432.28	9	2,793.74	9	3,154.95	9	3,510.06	9	3,871.17
1/4	286.57	1/4	641.98	1/4	995.38	1/4	1,356.67	1/4	1,717.97	1/4	2,078.37	1/4	2,439.81	1/4	2,801.28	1/4	3,162.47	1/4	3,517.58	1/4	3,878.69
1/2	294.10	1/2	649.22	1/2	1,002.90	1/2	1,364.20	1/2	1,725.49	1/2	2,085.89	1/2	2,447.34	1/2	2,808.81	1/2	3,170.00	1/2	3,525.11	1/2	3,886.22
3/4	301.64	3/4	656.46	3/4	1,010.42	3/4	1,371.72	3/4	1,733.00	3/4	2,093.41	3/4	2,454.87	3/4	2,816.34	3/4	3,177.52	3/4	3,532.63	3/4	3,893.74
10	309.17	10	663.69	10	1,017.94	10	1,379.25	10	1,740.52	10	2,100.93	10	2,462.40	10	2,823.87	10	3,185.04	10	3,540.15	10	3,895.26
1/4	316.70	1/4	670.93	1/4	1,025.47	1/4	1,386.78	1/4	1,748.03	1/4	2,108.46	1/4	2,469.93	1/4	2,831.40	1/4	3,192.57	1/4	3,547.68	1/4	3,902.79
1/2	324.23	1/2	678.17	1/2	1,032.99	1/2	1,394.30	1/2	1,755.54	1/2	2,115.99	1/2	2,477.46	1/2	2,838.93	1/2	3,200.09	1/2	3,555.20	1/2	3,910.31
3/4	331.76	3/4	685.41	3/4	1,040.52	3/4	1,401.83	3/4	1,763.04	3/4	2,123.52	3/4	2,484.99	3/4	2,846.46	3/4	3,207.61	3/4	3,562.72	3/4	3,915.82
11	339.29	11	692.65	11	1,048.05	11	1,409.36	11	1,770.55	11	2,131.05	11	2,492.52	11	2,853.99	11	3,215.13	11	3,570.24	11	3,925.35
1/4	346.83	1/4	699.89	1/4	1,055.58	1/4	1,416.89	1/4	1,781.67	1/4	2,138.58	1/4	2,500.05	1/4	2,861.52	1/4	3,222.66	1/4	3,577.77	1/4	3,930.88
1/2	354.36	1/2	707.13	1/2	1,063.10	1/2	1,424.41	1/2	1,785.57	1/2	2,146.11	1/2	2,507.58	1/2	2,869.05	1/2	3,230.18	1/2	3,585.29	1/2	3,935.99
3/4	361.89	3/4	714.37	3/4	1,070.63	3/4	1,431.94	3/4	1,793.07	3/4	2,153.64	3/4	2,515.11	3/4	2,876.58	3/4	3,237.70	3/4	3,592.81	3/4	3,941.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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Signature



BARGE "EMS 393"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																			GAUGE HEIGHT 14'-10"			
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	3,567.70	0	3,862.20	0	4,143.59	0	4,402.69	0		0		0		0		0		0				
1/4	3,573.84	1/4	3,868.27	1/4	4,149.21	1/4	4,407.82	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,579.98	1/2	3,874.33	1/2	4,154.83	1/2	4,412.96	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,586.12	3/4	3,880.40	3/4	4,160.45	3/4	4,418.09	3/4		3/4		3/4		3/4		3/4		3/4				
1	3,592.26	1	3,886.47	1	4,166.07	1	4,423.22	1		1		1		1		1		1				
1/4	3,598.39	1/4	3,892.50	1/4	4,171.65	1/4	4,428.32	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,604.53	1/2	3,898.53	1/2	4,177.23	1/2	4,433.42	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,610.67	3/4	3,904.56	3/4	4,182.82	3/4	4,438.51	3/4		3/4		3/4		3/4		3/4		3/4				
2	3,616.81	2	3,910.60	2	4,188.40	2	4,443.61	2		2		2		2		2		2				
1/4	3,622.95	1/4	3,916.59	1/4	4,193.94	1/4	4,448.66	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,629.09	1/2	3,922.58	1/2	4,199.49	1/2	4,453.72	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,635.23	3/4	3,928.58	3/4	4,205.03	3/4	4,458.78	3/4		3/4		3/4		3/4		3/4		3/4				
3	3,641.36	3	3,934.57	3	4,210.57	3	4,463.84	3		3		3		3		3		3				
1/4	3,647.50	1/4	3,940.53	1/4	4,216.08	1/4	4,468.86	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,653.64	1/2	3,946.48	1/2	4,221.59	1/2	4,473.88	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,659.78	3/4	3,952.44	3/4	4,227.09	3/4	4,478.90	3/4		3/4		3/4		3/4		3/4		3/4				
4	3,665.92	4	3,958.39	4	4,232.60	4	4,483.92	4		4		4		4		4		4				
1/4	3,672.06	1/4	3,964.31	1/4	4,238.07	1/4	4,489.48	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,678.20	1/2	3,970.23	1/2	4,243.54	1/2	4,495.03	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,684.34	3/4	3,976.15	3/4	4,249.01	3/4	4,500.58	3/4		3/4		3/4		3/4		3/4		3/4				
5	3,690.47	5	3,982.07	5	4,254.48	5	4,506.13	5		5		5		5		5		5				
1/4	3,696.61	1/4	3,987.95	1/4	4,259.91	1/4	4,512.23	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,702.75	1/2	3,993.83	1/2	4,265.34	1/2	4,518.34	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,708.89	3/4	3,999.71	3/4	4,270.77	3/4	4,524.44	3/4		3/4		3/4		3/4		3/4		3/4				
6	3,715.03	6	4,005.59	6	4,276.20	6	4,530.54	6		6		6		6		6		6				
1/4	3,721.17	1/4	4,011.44	1/4	4,281.60	1/4	4,536.64	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,727.31	1/2	4,017.28	1/2	4,286.99	1/2	4,542.75	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,733.44	3/4	4,023.12	3/4	4,292.39	3/4	4,548.85	3/4		3/4		3/4		3/4		3/4		3/4				
7	3,739.58	7	4,028.97	7	4,297.78	7	4,554.95	7		7		7		7		7		7				
1/4	3,745.72	1/4	4,034.77	1/4	4,303.10	1/4	4,562.36	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,751.86	1/2	4,040.58	1/2	4,308.42	1/2	4,569.76	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,758.00	3/4	4,046.39	3/4	4,313.74	3/4	4,577.17	3/4		3/4		3/4		3/4		3/4		3/4				
8	3,764.14	8	4,052.19	8	4,319.06	8	4,584.58	8		8		8		8		8		8				
1/4	3,770.28	1/4	4,057.96	1/4	4,324.35	1/4	4,591.30	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,776.41	1/2	4,063.73	1/2	4,329.63	1/2	4,598.02	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,782.55	3/4	4,069.50	3/4	4,334.91	3/4	4,604.74	3/4		3/4		3/4		3/4		3/4		3/4				
9	3,788.69	9	4,075.27	9	4,340.19	9	4,611.47	9		9		9		9		9		9				
1/4	3,794.83	1/4	4,081.00	1/4	4,345.44	1/4	4,616.82	1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,800.97	1/2	4,086.73	1/2	4,350.69	1/2	4,622.17	1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,807.11	3/4	4,092.46	3/4	4,355.93	3/4	4,627.52	3/4		3/4		3/4		3/4		3/4		3/4				
10	3,813.25	10	4,098.19	10	4,361.18	10	=====	10		10		10		10		10		10				
1/4	3,819.38	1/4	4,103.89	1/4	4,366.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,825.51	1/2	4,109.58	1/2	4,371.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,831.64	3/4	4,115.28	3/4	4,376.80	3/4		3/4		3/4		3/4		3/4		3/4		3/4				
11	3,837.77	11	4,120.97	11	4,382.01	11		11		11		11		11		11		11				
1/4	3,843.88	1/4	4,126.63	1/4	4,387.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4				
1/2	3,849.99	1/2	4,132.28	1/2	4,392.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2				
3/4	3,856.09	3/4	4,137.94	3/4	4,397.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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

For Name



BARGE "EMS 393"

3 STBD 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	17.56	0	368.25	0	721.05	0	1,077.64	0	1,437.83	0	1,797.27	0	2,154.89	0	2,514.73	0	2,874.97	0	3,234.88
1/4	22.93	1/4	375.76	1/4	726.32	1/4	1,085.15	1/4	1,445.33	1/4	1,804.70	1/4	2,162.19	1/4	2,522.23	1/4	2,882.46	1/4	3,242.38
1/2	28.30	1/2	383.26	1/2	735.59	1/2	1,092.65	1/2	1,452.83	1/2	1,812.13	1/2	2,169.70	1/2	2,529.73	1/2	2,889.96	1/2	3,249.89
3/4	33.67	3/4	390.77	3/4	742.86	3/4	1,100.16	3/4	1,460.34	3/4	1,819.56	3/4	2,177.21	3/4	2,537.22	3/4	2,897.46	3/4	3,257.39
1	39.04	1	398.28	1	750.14	1	1,107.66	1	1,467.84	1	1,826.99	1	2,184.72	1	2,544.72	1	2,904.96	1	3,264.90
1/4	46.28	1/4	405.78	1/4	757.42	1/4	1,115.16	1/4	1,475.35	1/4	1,834.42	1/4	2,192.22	1/4	2,552.23	1/4	2,912.46	1/4	3,272.40
1/2	53.52	1/2	413.29	1/2	764.70	1/2	1,122.67	1/2	1,482.85	1/2	1,841.85	1/2	2,199.73	1/2	2,559.73	1/2	2,919.96	1/2	3,279.91
3/4	60.75	3/4	420.80	3/4	771.98	3/4	1,130.17	3/4	1,490.35	3/4	1,849.28	3/4	2,207.24	3/4	2,567.24	3/4	2,927.45	3/4	3,287.41
1	67.99	1	428.30	1	779.26	1	1,137.67	1	1,497.86	1	1,856.71	1	2,214.74	1	2,574.74	1	2,934.95	1	3,294.91
1/4	75.50	1/4	435.81	1/4	786.55	1/4	1,145.18	1/4	1,505.36	1/4	1,864.14	1/4	2,222.25	1/4	2,582.25	1/4	2,942.45	1/4	3,302.42
1/2	83.00	1/2	443.32	1/2	793.83	1/2	1,152.68	1/2	1,512.86	1/2	1,871.57	1/2	2,229.76	1/2	2,589.75	1/2	2,949.95	1/2	3,309.92
3/4	90.51	3/4	450.82	3/4	801.11	3/4	1,160.19	3/4	1,520.37	3/4	1,879.00	3/4	2,237.27	3/4	2,597.26	3/4	2,957.45	3/4	3,317.43
1	98.02	1	458.33	1	808.39	1	1,167.69	1	1,527.87	1	1,886.43	1	2,244.77	1	2,604.77	1	2,964.95	1	3,324.93
1/4	105.52	1/4	465.84	1/4	815.68	1/4	1,175.19	1/4	1,535.38	1/4	1,893.86	1/4	2,252.28	1/4	2,612.27	1/4	2,972.44	1/4	3,332.44
1/2	113.03	1/2	473.34	1/2	822.96	1/2	1,182.70	1/2	1,542.88	1/2	1,901.29	1/2	2,259.79	1/2	2,619.78	1/2	2,979.94	1/2	3,339.94
3/4	120.54	3/4	480.85	3/4	830.24	3/4	1,190.20	3/4	1,550.38	3/4	1,908.72	3/4	2,267.29	3/4	2,627.28	3/4	2,987.44	3/4	3,347.45
1	128.04	1	488.36	1	837.52	1	1,197.70	1	1,557.89	1	1,916.15	1	2,274.80	1	2,634.79	1	2,994.94	1	3,354.95
1/4	135.55	1/4	495.84	1/4	845.03	1/4	1,205.21	1/4	1,565.39	1/4	1,923.58	1/4	2,282.31	1/4	2,642.29	1/4	3,002.44	1/4	3,362.46
1/2	143.06	1/2	502.92	1/2	852.53	1/2	1,212.71	1/2	1,572.89	1/2	1,931.01	1/2	2,289.81	1/2	2,649.80	1/2	3,009.93	1/2	3,369.96
3/4	150.56	3/4	510.20	3/4	860.03	3/4	1,220.22	3/4	1,580.40	3/4	1,938.44	3/4	2,297.32	3/4	2,657.30	3/4	3,017.43	3/4	3,377.47
1	158.07	1	517.48	1	867.54	1	1,227.72	1	1,587.90	1	1,945.87	1	2,304.83	1	2,664.81	1	3,024.93	1	3,384.97
1/4	165.58	1/4	524.75	1/4	875.04	1/4	1,235.22	1/4	1,595.41	1/4	1,953.30	1/4	2,312.33	1/4	2,672.32	1/4	3,032.43	1/4	3,391.10
1/2	173.08	1/2	532.02	1/2	882.55	1/2	1,242.73	1/2	1,602.91	1/2	1,960.73	1/2	2,319.82	1/2	2,679.82	1/2	3,039.93	1/2	3,397.23
3/4	180.59	3/4	539.29	3/4	890.05	3/4	1,250.23	3/4	1,610.41	3/4	1,968.16	3/4	2,327.32	3/4	2,687.33	3/4	3,047.43	3/4	3,403.36
1	188.10	1	546.56	1	897.55	1	1,257.74	1	1,617.92	1	1,975.59	1	2,334.82	1	2,694.83	1	3,054.92	1	3,409.48
1/4	195.60	1/4	553.84	1/4	905.06	1/4	1,265.24	1/4	1,625.42	1/4	1,983.02	1/4	2,342.31	1/4	2,702.34	1/4	3,062.42	1/4	3,415.61
1/2	203.11	1/2	561.11	1/2	912.56	1/2	1,272.74	1/2	1,632.93	1/2	1,990.45	1/2	2,349.81	1/2	2,709.84	1/2	3,069.92	1/2	3,421.74
3/4	210.62	3/4	568.38	3/4	920.06	3/4	1,280.25	3/4	1,640.43	3/4	1,997.88	3/4	2,357.31	3/4	2,717.35	3/4	3,077.42	3/4	3,427.87
1	218.12	1	575.65	1	927.57	1	1,287.75	1	1,647.93	1	2,005.31	1	2,364.80	1	2,724.85	1	3,084.92	1	3,434.00
1/4	225.63	1/4	582.92	1/4	935.07	1/4	1,295.25	1/4	1,655.44	1/4	2,012.74	1/4	2,372.30	1/4	2,732.36	1/4	3,092.41	1/4	3,440.13
1/2	233.13	1/2	590.19	1/2	942.58	1/2	1,302.76	1/2	1,662.94	1/2	2,020.17	1/2	2,379.80	1/2	2,739.87	1/2	3,099.91	1/2	3,446.25
3/4	240.64	3/4	597.47	3/4	950.08	3/4	1,310.26	3/4	1,670.44	3/4	2,027.60	3/4	2,387.29	3/4	2,747.37	3/4	3,107.41	3/4	3,452.38
1	248.15	1	604.74	1	957.58	1	1,317.77	1	1,677.95	1	2,035.03	1	2,394.79	1	2,754.88	1	3,114.91	1	3,458.51
1/4	255.65	1/4	612.01	1/4	965.09	1/4	1,325.27	1/4	1,685.45	1/4	2,042.46	1/4	2,402.28	1/4	2,762.38	1/4	3,122.41	1/4	3,464.64
1/2	263.16	1/2	619.27	1/2	972.59	1/2	1,332.77	1/2	1,692.96	1/2	2,049.89	1/2	2,409.78	1/2	2,769.89	1/2	3,129.91	1/2	3,470.77
3/4	270.67	3/4	626.54	3/4	980.09	3/4	1,340.28	3/4	1,700.46	3/4	2,057.32	3/4	2,417.28	3/4	2,777.39	3/4	3,137.40	3/4	3,476.89
1	278.17	1	633.81	1	987.60	1	1,347.78	1	1,707.96	1	2,064.75	1	2,424.77	1	2,784.90	1	3,144.90	1	3,483.02
1/4	285.68	1/4	641.07	1/4	995.10	1/4	1,355.28	1/4	1,715.43	1/4	2,072.22	1/4	2,432.27	1/4	2,792.41	1/4	3,152.40	1/4	3,489.15
1/2	293.19	1/2	648.34	1/2	1,002.61	1/2	1,362.79	1/2	1,722.90	1/2	2,079.69	1/2	2,439.77	1/2	2,799.91	1/2	3,159.90	1/2	3,495.28
3/4	300.69	3/4	655.61	3/4	1,010.11	3/4	1,370.29	3/4	1,730.36	3/4	2,087.16	3/4	2,447.26	3/4	2,807.42	3/4	3,167.40	3/4	3,501.41
1	308.20	1	662.88	1	1,017.61	1	1,377.80	1	1,737.83	1	2,094.63	1	2,454.76	1	2,814.92	1	3,174.89	1	3,507.53
1/4	315.71	1/4	670.15	1/4	1,025.12	1/4	1,385.30	1/4	1,745.26	1/4	2,102.14	1/4	2,462.26	1/4	2,822.43	1/4	3,182.39	1/4	3,513.66
1/2	323.21	1/2	677.42	1/2	1,032.62	1/2	1,392.80	1/2	1,752.69	1/2	2,109.64	1/2	2,469.75	1/2	2,829.93	1/2	3,189.89	1/2	3,519.79
3/4	330.72	3/4	684.69	3/4	1,040.12	3/4	1,400.31	3/4	1,760.12	3/4	2,117.15	3/4	2,477.25	3/4	2,837.44	3/4	3,197.39	3/4	3,525.92
1	338.23	1	691.96	1	1,047.63	1	1,407.81	1	1,767.55	1	2,124.66	1	2,484.75	1	2,844.94	1	3,204.89	1	3,532.05
1/4	345.73	1/4	699.23	1/4	1,055.13	1/4	1,415.31	1/4	1,774.98	1/4	2,132.17	1/4	2,492.24	1/4	2,852.45	1/4	3,212.38	1/4	3,538.17
1/2	353.24	1/2	706.51	1/2	1,062.64	1/2	1,422.82	1/2	1,782.41	1/2	2,139.67	1/2	2,499.74	1/2	2,859.96	1/2	3,219.88	1/2	3,544.30
3/4	360.75	3/4	713.78	3/4	1,070.14	3/4	1,430.32	3/4	1,789.84	3/4	2,147.18	3/4	2,507.24	3/4	2,867.46	3/4	3,227.38	3/4	3,550.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

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 TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77568

<http://www.pmacorp.net>



BARGE "EMS 393"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

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	3,556.56	0	3,850.55	0	4,131.46	0	4,390.12	0		0		0		0		0		0	
1/4	3,562.69	1/4	3,856.60	1/4	4,137.07	1/4	4,395.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,568.82	1/2	3,862.66	1/2	4,142.68	1/2	4,400.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,574.94	3/4	3,868.72	3/4	4,148.29	3/4	4,405.50	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,581.07	1	3,874.78	1	4,153.90	1	4,410.62	1		1		1		1		1		1	
1/4	3,587.20	1/4	3,880.80	1/4	4,159.47	1/4	4,415.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,593.33	1/2	3,886.82	1/2	4,165.04	1/2	4,420.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,599.46	3/4	3,892.84	3/4	4,170.62	3/4	4,425.88	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,605.58	2	3,898.86	2	4,176.19	2	4,430.97	2		2		2		2		2		2	
1/4	3,611.71	1/4	3,904.84	1/4	4,181.72	1/4	4,436.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,617.84	1/2	3,910.83	1/2	4,187.26	1/2	4,441.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.97	3/4	3,916.81	3/4	4,192.79	3/4	4,446.12	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,630.10	3	3,922.79	3	4,198.33	3	4,451.17	3		3		3		3		3		3	
1/4	3,636.22	1/4	3,928.74	1/4	4,203.82	1/4	4,456.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,642.35	1/2	3,934.68	1/2	4,209.32	1/2	4,461.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,648.48	3/4	3,940.63	3/4	4,214.82	3/4	4,466.21	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,654.61	4	3,946.58	4	4,220.32	4	4,471.22	4		4		4		4		4		4	
1/4	3,660.74	1/4	3,952.48	1/4	4,225.78	1/4	4,476.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,666.86	1/2	3,958.39	1/2	4,231.24	1/2	4,482.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,672.99	3/4	3,964.30	3/4	4,236.70	3/4	4,487.85	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,679.12	5	3,970.21	5	4,242.16	5	4,493.39	5		5		5		5		5		5	
1/4	3,685.25	1/4	3,976.08	1/4	4,247.58	1/4	4,499.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,691.38	1/2	3,981.95	1/2	4,253.00	1/2	4,505.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.51	3/4	3,987.82	3/4	4,258.42	3/4	4,511.66	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,703.63	6	3,993.69	6	4,263.85	6	4,517.76	6		6		6		6		6		6	
1/4	3,709.76	1/4	3,999.53	1/4	4,269.23	1/4	4,523.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,715.89	1/2	4,005.36	1/2	4,274.62	1/2	4,529.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,722.02	3/4	4,011.20	3/4	4,280.00	3/4	4,536.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,728.15	7	4,017.03	7	4,285.39	7	4,542.12	7		7		7		7		7		7	
1/4	3,734.27	1/4	4,022.83	1/4	4,290.70	1/4	4,549.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.40	1/2	4,028.62	1/2	4,296.01	1/2	4,556.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.53	3/4	4,034.42	3/4	4,301.32	3/4	4,564.31	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,752.66	8	4,040.21	8	4,306.63	8	4,571.70	8		8		8		8		8		8	
1/4	3,758.79	1/4	4,045.97	1/4	4,311.91	1/4	4,578.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,764.91	1/2	4,051.73	1/2	4,317.18	1/2	4,585.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.04	3/4	4,057.49	3/4	4,322.45	3/4	4,591.82	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,777.17	9	4,063.25	9	4,327.73	9	4,598.53	9		9		9		9		9		9	
1/4	3,783.30	1/4	4,068.97	1/4	4,332.97	1/4	4,603.88	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,789.43	1/2	4,074.69	1/2	4,338.20	1/2	4,609.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,795.55	3/4	4,080.42	3/4	4,343.44	3/4	4,614.56	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,801.68	10	4,086.14	10	4,348.68	10		10		10		10		10		10		10	
1/4	3,807.80	1/4	4,091.82	1/4	4,353.88	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,813.92	1/2	4,097.51	1/2	4,359.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,820.04	3/4	4,103.19	3/4	4,364.27	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,826.16	11	4,108.87	11	4,369.47	11		11		11		11		11		11		11	
1/4	3,832.26	1/4	4,114.52	1/4	4,374.64	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,838.35	1/2	4,120.17	1/2	4,379.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,844.45	3/4	4,125.81	3/4	4,384.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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

R. H. Hume



BARGE "EMS 393"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/8	- 01-3/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

June 10, 2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	0	0	0	0	4,240.79	0	3,948.60	0	3,636.11	0	3,306.42	0	2,974.32	0	2,642.21	0	2,310.06		
1/4	1/4	1/4	1/4	1/4	4,234.42	1/4	3,942.29	1/4	3,629.39	1/4	3,299.50	1/4	2,967.41	1/4	2,635.29	1/4	2,303.14		
1/2	1/2	1/2	1/2	1/2	4,228.05	1/2	3,935.99	1/2	3,622.68	1/2	3,292.58	1/2	2,960.49	1/2	2,628.37	1/2	2,296.22		
3/4	3/4	3/4	3/4	3/4	4,222.16	3/4	3,929.65	3/4	3,615.93	3/4	3,285.66	3/4	2,953.57	3/4	2,621.45	3/4	2,289.30		
1	1	1	1	1	4,216.27	1	3,923.31	1	3,609.18	1	3,278.74	1	2,946.65	1	2,614.53	1	2,283.38		
1/4	1/4	1/4	1/4	1/4	4,210.39	1/4	3,916.98	1/4	3,602.43	1/4	3,271.82	1/4	2,939.73	1/4	2,607.61	1/4	2,275.46		
1/2	1/2	1/2	1/2	1/2	4,204.50	1/2	3,909.64	1/2	3,595.67	1/2	3,264.91	1/2	2,932.81	1/2	2,600.69	1/2	2,268.54		
3/4	3/4	3/4	3/4	3/4	4,198.58	3/4	3,904.27	3/4	3,588.89	3/4	3,257.99	3/4	2,925.89	3/4	2,593.77	3/4	2,261.62		
2	2	2	2	2	4,192.66	2	3,897.89	2	3,582.10	2	3,251.07	2	2,918.98	2	2,586.85	2	2,254.70		
1/4	1/4	1/4	1/4	1/4	4,186.75	1/4	3,891.52	1/4	3,575.32	1/4	3,244.15	1/4	2,912.06	1/4	2,579.93	1/4	2,247.79		
1/2	1/2	1/2	1/2	1/2	4,180.83	1/2	3,885.15	1/2	3,568.53	1/2	3,237.23	1/2	2,905.14	1/2	2,573.01	1/2	2,240.87		
3/4	3/4	3/4	3/4	3/4	4,174.87	3/4	3,878.74	3/4	3,561.71	3/4	3,230.31	3/4	2,898.22	3/4	2,566.09	3/4	2,233.95		
3	3	3	3	3	4,168.92	3	3,872.33	3	3,554.89	3	3,223.39	3	2,891.30	3	2,559.17	3	2,227.03		
1/4	1/4	1/4	1/4	1/4	4,162.96	1/4	3,865.93	1/4	3,548.07	1/4	3,216.48	1/4	2,884.38	1/4	2,552.25	1/4	2,220.11		
1/2	1/2	1/2	1/2	1/2	4,157.01	1/2	3,859.52	1/2	3,541.25	1/2	3,209.56	1/2	2,877.46	1/2	2,545.33	1/2	2,213.19		
3/4	3/4	3/4	3/4	3/4	4,151.02	3/4	3,853.08	3/4	3,534.40	3/4	3,202.64	3/4	2,870.55	3/4	2,538.41	3/4	2,206.27		
4	4	4	4	4	4,145.03	4	3,846.64	4	3,527.54	4	3,195.72	4	2,863.63	4	2,531.49	4	2,199.35		
1/4	1/4	1/4	1/4	1/4	4,139.04	1/4	3,840.20	1/4	3,520.69	1/4	3,188.80	1/4	2,856.71	1/4	2,524.57	1/4	2,192.43		
1/2	1/2	1/2	1/2	1/2	4,133.06	1/2	3,833.76	1/2	3,513.84	1/2	3,181.88	1/2	2,849.79	1/2	2,517.65	1/2	2,185.51		
3/4	3/4	3/4	3/4	3/4	4,127.03	3/4	3,827.28	3/4	3,506.95	3/4	3,174.96	3/4	2,842.87	3/4	2,510.73	3/4	2,178.59		
5	5	5	5	5	4,121.01	5	3,820.80	5	3,500.06	5	3,168.05	5	2,835.96	5</					

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHTS OF TANKS

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH HERMETIC CLOSED GAUGING DEVICE. GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 393"

1 PORT ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1,977.92	0	1,645.77	0	1,313.63	0	981.74	0	666.15	0	372.48	0	102.48	0		0		0	
1/4	1,971.00	1/4	1,638.85	1/4	1,306.71	1/4	974.90	1/4	659.79	1/4	366.61	1/4	97.10	1/4		1/4		1/4	
1/2	1,964.08	1/2	1,631.93	1/2	1,299.79	1/2	968.07	1/2	653.42	1/2	360.74	1/2	91.72	1/2		1/2		1/2	
3/4	1,957.16	3/4	1,625.01	3/4	1,292.87	3/4	961.28	3/4	647.10	3/4	354.91	3/4	86.38	3/4		3/4		3/4	
1	1,950.24	1	1,618.09	1	1,285.95	1	954.48	1	640.77	1	349.08	1	81.05	1		1		1	
1/4	1,943.32	1/4	1,611.17	1/4	1,279.03	1/4	947.69	1/4	634.45	1/4	343.25	1/4	75.71	1/4		1/4		1/4	
1/2	1,936.40	1/2	1,604.25	1/2	1,272.11	1/2	940.90	1/2	628.13	1/2	337.41	1/2	70.37	1/2		1/2		1/2	
3/4	1,929.48	3/4	1,597.33	3/4	1,265.19	3/4	934.17	3/4	621.84	3/4	331.63	3/4	65.08	3/4		3/4		3/4	
2	1,922.56	2	1,590.41	2	1,258.27	2	927.43	2	615.56	2	325.84	2	59.78	2		2		2	
1/4	1,915.64	1/4	1,583.49	1/4	1,251.35	1/4	920.70	1/4	609.28	1/4	320.05	1/4	54.48	1/4		1/4		1/4	
1/2	1,908.72	1/2	1,576.57	1/2	1,244.43	1/2	913.96	1/2	603.00	1/2	314.26	1/2	49.19	1/2		1/2		1/2	
3/4	1,901.80	3/4	1,569.65	3/4	1,237.51	3/4	907.27	3/4	596.75	3/4	308.51	3/4	44.18	3/4		3/4		3/4	
3	1,894.88	3	1,562.73	3	1,230.59	3	900.58	3	590.51	3	302.76	3	39.17	3		3		3	
1/4	1,887.96	1/4	1,555.82	1/4	1,223.67	1/4	893.89	1/4	584.27	1/4	297.01	1/4	34.16	1/4		1/4		1/4	
1/2	1,881.04	1/2	1,548.90	1/2	1,216.75	1/2	887.19	1/2	578.03	1/2	291.26	1/2	29.16	1/2		1/2		1/2	
3/4	1,874.12	3/4	1,541.98	3/4	1,209.83	3/4	880.54	3/4	571.83	3/4	285.56	3/4	25.92	3/4		3/4		3/4	
4	1,867.20	4	1,535.06	4	1,202.91	4	873.89	4	565.63	4	279.85	4	22.68	4		4		4	
1/4	1,860.28	1/4	1,528.14	1/4	1,195.99	1/4	867.24	1/4	559.43	1/4	274.14	1/4	19.45	1/4		1/4		1/4	
1/2	1,853.36	1/2	1,521.22	1/2	1,189.07	1/2	860.59	1/2	553.23	1/2	268.44	1/2	16.21	1/2		1/2		1/2	
3/4	1,846.44	3/4	1,514.30	3/4	1,182.15	3/4	853.98	3/4	547.07	3/4	262.77	3/4	13.00	3/4		3/4		3/4	
5	1,839.52	5	1,507.38	5	1,175.23	5	847.38	5	540.91	5	257.10	5	9.75	5		5		5	
1/4	1,832.60	1/4	1,500.46	1/4	1,168.31	1/4	840.77	1/4	534.75	1/4	251.44	1/4	6.50	1/4		1/4		1/4	
1/2	1,825.68	1/2	1,493.54	1/2	1,161.39	1/2	834.16	1/2	528.59	1/2	245.77	1/2	3.25	1/2		1/2		1/2	
3/4	1,818.76	3/4	1,486.62	3/4	1,154.47	3/4	827.60	3/4	522.47	3/4	240.15	3/4	0.00	3/4		3/4		3/4	
6	1,811.84	6	1,479.70	6	1,147.55	6	821.03	6	516.36	6	234.52	6	0.00	6		6		6	
1/4	1,804.92	1/4	1,472.78	1/4	1,140.63	1/4	814.47	1/4	510.24	1/4	228.90	1/4	0.00	1/4		1/4		1/4	
1/2	1,798.00	1/2	1,465.86	1/2	1,133.71	1/2	807.90	1/2	504.12	1/2	223.27	1/2	0.00	1/2		1/2		1/2	
3/4	1,791.08	3/4	1,458.94	3/4	1,126.79	3/4	801.38	3/4	498.04	3/4	217.69	3/4	0.00	3/4		3/4		3/4	
7	1,784.17	7	1,452.02	7	1,119.87	7	794.85	7	491.97	7	212.10	7	0.00	7		7		7	
1/4	1,777.25	1/4	1,445.10	1/4	1,112.95	1/4	788.32	1/4	485.89	1/4	206.52	1/4	0.00	1/4		1/4		1/4	
1/2	1,770.33	1/2	1,438.18	1/2	1,106.03	1/2	781.79	1/2	479.81	1/2	200.93	1/2	0.00	1/2		1/2		1/2	
3/4	1,763.41	3/4	1,431.26	3/4	1,099.11	3/4	775.30	3/4	473.78	3/4	195.39	3/4	0.00	3/4		3/4		3/4	
8	1,756.49	8	1,424.34	8	1,092.20	8	768.82	8	467.74	8	189.85	8	0.00	8		8		8	
1/4	1,749.57	1/4	1,417.42	1/4	1,085.28	1/4	762.33	1/4	461.70	1/4	184.31	1/4	0.00	1/4		1/4		1/4	
1/2	1,742.65	1/2	1,410.50	1/2	1,078.36	1/2	755.84	1/2	455.67	1/2	178.76	1/2	0.00	1/2		1/2		1/2	
3/4	1,735.73	3/4	1,403.58	3/4	1,071.44	3/4	749.40	3/4	449.67	3/4	173.26	3/4	0.00	3/4		3/4		3/4	
9	1,728.81	9	1,396.66	9	1,064.52	9	742.95	9	443.68	9	167.76	9	0.00	9		9		9	
1/4	1,721.89	1/4	1,389.74	1/4	1,057.60	1/4	736.51	1/4	437.68	1/4	162.26	1/4	0.00	1/4		1/4		1/4	
1/2	1,714.97	1/2	1,382.82	1/2	1,050.68	1/2	730.06	1/2	431.69	1/2	156.76	1/2	0.00	1/2		1/2		1/2	
3/4	1,708.05	3/4	1,375.90	3/4	1,043.76	3/4	723.64	3/4	425.73	3/4	151.30	3/4	0.00	3/4		3/4		3/4	
10	1,701.13	10	1,368.98	10	1,036.84	10	717.22	10	419.78	10	145.84	10	0.00	10		10		10	
1/4	1,694.21	1/4	1,362.06	1/4	1,029.92	1/4	710.81	1/4	413.83	1/4	140.37	1/4	0.00	1/4		1/4		1/4	
1/2	1,687.29	1/2	1,355.14	1/2	1,023.00	1/2	704.39	1/2	407.87	1/2	134.91	1/2	0.00	1/2		1/2		1/2	
3/4	1,680.37	3/4	1,348.22	3/4	1,016.10	3/4	698.01	3/4	401.96	3/4	129.49	3/4	0.00	3/4		3/4		3/4	
11	1,673.45	11	1,341.30	11	1,009.20	11	691.63	11	396.05	11	124.08	11	0.00	11		11		11	
1/4	1,666.53	1/4	1,334.38	1/4	1,002.30	1/4	685.26	1/4	390.14	1/4	118.66	1/4	0.00	1/4		1/4		1/4	
1/2	1,659.61	1/2	1,327.46	1/2	995.40	1/2	678.88	1/2	384.22	1/2	113.24	1/2	0.00	1/2		1/2		1/2	
3/4	1,652.69	3/4	1,320.55	3/4	988.57	3/4	672.51	3/4	378.35	3/4	107.86	3/4	0.00	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77568

http://www.pmacorp.net

Paul J. Gamm



BARGE "EMS 393"

1 STBD

ULLAGE 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.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Perland, Texas 77568

http://www.pmatcorp.net

Signature



BARGE "EMS 393"

1 STBD ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	1,972.20	0	1,641.24	0	1,310.27	0	979.51	0	663.76	0	371.14	0	102.11	0		0		0	
1/4	1,965.31	1/4	1,634.34	1/4	1,303.38	1/4	972.68	1/4	657.41	1/4	365.29	1/4	96.75	1/4		1/4		1/4	
1/2	1,958.41	1/2	1,627.45	1/2	1,296.48	1/2	965.85	1/2	651.07	1/2	359.44	1/2	91.39	1/2		1/2		1/2	
3/4	1,951.52	3/4	1,620.55	3/4	1,289.59	3/4	959.05	3/4	644.77	3/4	353.63	3/4	86.08	3/4		3/4		3/4	
1	1,944.62	1	1,613.66	1	1,282.69	1	952.26	1	638.47	1	347.82	1	80.76	1		1		1	
1 1/4	1,937.73	1 1/4	1,606.76	1 1/4	1,275.80	1 1/4	945.47	1 1/4	632.17	1 1/4	342.01	1 1/4	75.44	1 1/4		1 1/4		1 1/4	
1 1/2	1,930.83	1 1/2	1,599.87	1 1/2	1,268.90	1 1/2	938.68	1 1/2	625.87	1 1/2	336.20	1 1/2	70.12	1 1/2		1 1/2		1 1/2	
3/4	1,923.94	3/4	1,592.97	3/4	1,262.01	3/4	931.94	3/4	619.61	3/4	330.43	3/4	64.84	3/4		3/4		3/4	
2	1,917.04	2	1,586.08	2	1,255.11	2	925.20	2	613.35	2	324.66	2	59.57	2		2		2	
1 1/4	1,910.15	1 1/4	1,579.18	1 1/4	1,248.22	1 1/4	918.46	1 1/4	607.09	1 1/4	318.89	1 1/4	54.29	1 1/4		1 1/4		1 1/4	
1 1/2	1,903.25	1 1/2	1,572.29	1 1/2	1,241.32	1 1/2	911.72	1 1/2	600.83	1 1/2	313.12	1 1/2	49.01	1 1/2		1 1/2		1 1/2	
3/4	1,896.36	3/4	1,565.39	3/4	1,234.43	3/4	905.02	3/4	594.51	3/4	307.40	3/4	44.02	3/4		3/4		3/4	
3	1,889.46	3	1,558.50	3	1,227.53	3	898.33	3	588.39	3	301.67	3	39.03	3		3		3	
1 1/4	1,882.57	1 1/4	1,551.60	1 1/4	1,220.64	1 1/4	891.63	1 1/4	582.17	1 1/4	295.94	1 1/4	34.04	1 1/4		1 1/4		1 1/4	
1 1/2	1,875.67	1 1/2	1,544.71	1 1/2	1,213.74	1 1/2	884.93	1 1/2	575.95	1 1/2	290.21	1 1/2	29.05	1 1/2		1 1/2		1 1/2	
3/4	1,868.78	3/4	1,537.81	3/4	1,206.85	3/4	878.27	3/4	569.77	3/4	284.53	3/4	25.83	3/4		3/4		3/4	
4	1,861.88	4	1,530.92	4	1,199.95	4	871.62	4	563.59	4	278.84	4	22.61	4		4		4	
1 1/4	1,854.99	1 1/4	1,524.02	1 1/4	1,193.06	1 1/4	864.96	1 1/4	557.42	1 1/4	273.15	1 1/4	19.38	1 1/4		1 1/4		1 1/4	
1 1/2	1,848.09	1 1/2	1,517.13	1 1/2	1,186.16	1 1/2	858.31	1 1/2	551.24	1 1/2	267.47	1 1/2	16.16	1 1/2		1 1/2		1 1/2	
3/4	1,841.20	3/4	1,510.23	3/4	1,179.27	3/4	851.69	3/4	545.10	3/4	261.82	3/4		3/4		3/4		3/4	
5	1,834.30	5	1,503.34	5	1,172.37	5	845.08	5	538.96	5	256.18	5		5		5		5	
1 1/4	1,827.41	1 1/4	1,496.44	1 1/4	1,165.48	1 1/4	838.47	1 1/4	532.83	1 1/4	250.53	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,820.51	1 1/2	1,489.55	1 1/2	1,158.58	1 1/2	831.86	1 1/2	526.69	1 1/2	244.89	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,813.62	3/4	1,482.65	3/4	1,151.69	3/4	825.29	3/4	520.59	3/4	239.28	3/4		3/4		3/4		3/4	
6	1,806.72	6	1,475.76	6	1,144.79	6	818.72	6	514.50	6	233.68	6		6		6		6	
1 1/4	1,799.83	1 1/4	1,468.86	1 1/4	1,137.90	1 1/4	812.15	1 1/4	508.40	1 1/4	228.07	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,792.93	1 1/2	1,461.97	1 1/2	1,131.00	1 1/2	805.58	1 1/2	502.31	1 1/2	222.47	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,786.04	3/4	1,455.07	3/4	1,124.11	3/4	799.05	3/4	496.25	3/4	216.90	3/4		3/4		3/4		3/4	
7	1,779.14	7	1,448.18	7	1,117.21	7	792.51	7	490.19	7	211.34	7		7		7		7	
1 1/4	1,772.25	1 1/4	1,441.28	1 1/4	1,110.32	1 1/4	785.98	1 1/4	484.14	1 1/4	205.76	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,765.35	1 1/2	1,434.39	1 1/2	1,103.42	1 1/2	779.44	1 1/2	478.08	1 1/2	200.21	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,758.46	3/4	1,427.49	3/4	1,096.53	3/4	772.95	3/4	472.07	3/4	194.69	3/4		3/4		3/4		3/4	
8	1,751.56	8	1,420.60	8	1,089.63	8	766.46	8	466.06	8	189.17	8		8		8		8	
1 1/4	1,744.66	1 1/4	1,413.70	1 1/4	1,082.74	1 1/4	759.97	1 1/4	460.04	1 1/4	183.64	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,737.77	1 1/2	1,406.81	1 1/2	1,075.84	1 1/2	753.47	1 1/2	454.03	1 1/2	178.12	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,730.87	3/4	1,399.91	3/4	1,068.95	3/4	747.02	3/4	448.05	3/4	172.64	3/4		3/4		3/4		3/4	
9	1,723.98	9	1,393.01	9	1,062.05	9	740.57	9	442.08	9	167.16	9		9		9		9	
1 1/4	1,717.08	1 1/4	1,386.12	1 1/4	1,055.15	1 1/4	734.12	1 1/4	436.11	1 1/4	161.67	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,710.19	1 1/2	1,379.22	1 1/2	1,048.26	1 1/2	727.67	1 1/2	430.13	1 1/2	156.19	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,703.29	3/4	1,372.33	3/4	1,041.36	3/4	721.24	3/4	424.20	3/4	150.75	3/4		3/4		3/4		3/4	
10	1,696.40	10	1,365.43	10	1,034.47	10	714.82	10	418.27	10	145.31	10		10		10		10	
1 1/4	1,689.50	1 1/4	1,358.54	1 1/4	1,027.57	1 1/4	708.39	1 1/4	412.34	1 1/4	139.87	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,682.61	1 1/2	1,351.64	1 1/2	1,020.68	1 1/2	701.97	1 1/2	406.40	1 1/2	134.43	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,675.71	3/4	1,344.75	3/4	1,013.80	3/4	695.59	3/4	400.51	3/4	129.03	3/4		3/4		3/4		3/4	
11	1,668.82	11	1,337.85	11	1,006.93	11	689.21	11	394.62	11	123.63	11		11		11		11	
1 1/4	1,661.92	1 1/4	1,330.96	1 1/4	1,000.06	1 1/4	682.82	1 1/4	388.73	1 1/4	118.23	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,655.03	1 1/2	1,324.06	1 1/2	993.18	1 1/2	676.44	1 1/2	382.84	1 1/2	112.83	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,648.13	3/4	1,317.17	3/4	986.35	3/4	670.10	3/4	376.99	3/4	107.47	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS
CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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

Tom J. Lane

2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 51'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

[Signature]



BARGE "EMS 393"

2 PORT ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,474.28	0	2,086.35	0	1,698.42	0	1,310.49	0	922.56	0	548.96	0	162.00	0	0	0	0	0	0
1/4	2,466.20	1/4	2,078.27	1/4	1,690.34	1/4	1,302.41	1/4	914.48	1/4	541.19	1/4	153.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,458.12	1/2	2,070.19	1/2	1,682.26	1/2	1,294.33	1/2	906.40	1/2	533.42	1/2	145.83	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,450.04	3/4	2,062.11	3/4	1,674.18	3/4	1,286.25	3/4	898.31	3/4	525.65	3/4	137.75	3/4	3/4	3/4	3/4	3/4	3/4
1	2,441.96	1	2,054.03	1	1,666.09	1	1,278.16	1	890.54	1	517.57	1	129.67	1	1	1	1	1	1
1 1/4	2,433.88	1 1/4	2,045.94	1 1/4	1,658.01	1 1/4	1,270.08	1 1/4	882.76	1 1/4	509.49	1 1/4	121.59	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,425.79	1 1/2	2,037.86	1 1/2	1,649.93	1 1/2	1,262.00	1 1/2	874.99	1 1/2	501.41	1 1/2	113.51	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,417.71	3/4	2,029.78	3/4	1,641.85	3/4	1,253.92	3/4	867.21	3/4	493.33	3/4	105.43	3/4	3/4	3/4	3/4	3/4	3/4
2	2,409.63	2	2,021.70	2	1,633.77	2	1,245.84	2	859.43	2	485.24	2	97.35	2	2	2	2	2	2
1 1/4	2,401.55	1 1/4	2,013.62	1 1/4	1,625.69	1 1/4	1,237.75	1 1/4	851.66	1 1/4	477.16	1 1/4	89.27	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,393.47	1 1/2	2,005.53	1 1/2	1,617.60	1 1/2	1,229.67	1 1/2	843.88	1 1/2	469.08	1 1/2	81.18	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,385.38	3/4	1,997.45	3/4	1,609.52	3/4	1,221.59	3/4	836.10	3/4	461.00	3/4	73.10	3/4	3/4	3/4	3/4	3/4	3/4
3	2,377.30	3	1,989.37	3	1,601.44	3	1,213.51	3	828.33	3	452.92	3	65.31	3	3	3	3	3	3
1 1/4	2,369.22	1 1/4	1,981.29	1 1/4	1,593.36	1 1/4	1,205.43	1 1/4	820.56	1 1/4	444.84	1 1/4	57.52	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,361.14	1 1/2	1,973.21	1 1/2	1,585.28	1 1/2	1,197.34	1 1/2	812.79	1 1/2	436.76	1 1/2	49.73	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,353.06	3/4	1,965.12	3/4	1,577.19	3/4	1,189.26	3/4	805.02	3/4	428.68	3/4	41.93	3/4	3/4	3/4	3/4	3/4	3/4
4	2,344.97	4	1,957.04	4	1,569.11	4	1,181.18	4	797.26	4	420.60	4	36.16	4	4	4	4	4	4
1 1/4	2,336.89	1 1/4	1,948.96	1 1/4	1,561.03	1 1/4	1,173.10	1 1/4	789.50	1 1/4	412.51	1 1/4	30.39	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,328.81	1 1/2	1,940.88	1 1/2	1,552.95	1 1/2	1,165.02	1 1/2	781.74	1 1/2	404.43	1 1/2	24.62	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,320.73	3/4	1,932.80	3/4	1,544.87	3/4	1,156.93	3/4	773.98	3/4	396.35	3/4	18.85	3/4	3/4	3/4	3/4	3/4	3/4
5	2,312.65	5	1,924.72	5	1,536.78	5	1,148.85	5	766.22	5	388.27	5	11.11	5	5	5	5	5	5
1 1/4	2,304.56	1 1/4	1,916.63	1 1/4	1,528.70	1 1/4	1,140.77	1 1/4	758.46	1 1/4	380.19	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,296.48	1 1/2	1,908.55	1 1/2	1,520.62	1 1/2	1,132.69	1 1/2	750.70	1 1/2	372.11	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,288.40	3/4	1,900.47	3/4	1,512.54	3/4	1,124.61	3/4	742.94	3/4	364.03	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
6	2,280.32	6	1,892.39	6	1,504.46	6	1,116.53	6	735.18	6	355.95	6	0.00	6	6	6	6	6	6
1 1/4	2,272.24	1 1/4	1,884.31	1 1/4	1,496.37	1 1/4	1,108.44	1 1/4	727.42	1 1/4	347.86	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,264.16	1 1/2	1,876.22	1 1/2	1,488.29	1 1/2	1,100.36	1 1/2	719.66	1 1/2	339.78	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,256.07	3/4	1,868.14	3/4	1,480.21	3/4	1,092.28	3/4	711.90	3/4	331.70	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
7	2,247.99	7	1,860.06	7	1,472.13	7	1,084.20	7	704.14	7	323.62	7	0.00	7	7	7	7	7	7
1 1/4	2,239.91	1 1/4	1,851.98	1 1/4	1,464.05	1 1/4	1,076.12	1 1/4	696.39	1 1/4	315.54	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,231.83	1 1/2	1,843.90	1 1/2	1,455.97	1 1/2	1,068.03	1 1/2	688.63	1 1/2	307.46	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,223.75	3/4	1,835.81	3/4	1,447.88	3/4	1,059.95	3/4	680.88	3/4	299.38	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
8	2,215.66	8	1,827.73	8	1,439.80	8	1,051.87	8	673.12	8	291.30	8	0.00	8	8	8	8	8	8
1 1/4	2,207.58	1 1/4	1,819.65	1 1/4	1,431.72	1 1/4	1,043.79	1 1/4	665.36	1 1/4	283.21	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,199.50	1 1/2	1,811.57	1 1/2	1,423.64	1 1/2	1,035.71	1 1/2	657.61	1 1/2	275.13	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,191.42	3/4	1,803.49	3/4	1,415.56	3/4	1,027.62	3/4	649.85	3/4	267.05	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
9	2,183.34	9	1,795.41	9	1,407.47	9	1,019.54	9	642.09	9	258.97	9	0.00	9	9	9	9	9	9
1 1/4	2,175.25	1 1/4	1,787.32	1 1/4	1,399.39	1 1/4	1,011.46	1 1/4	634.33	1 1/4	250.89	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,167.17	1 1/2	1,779.24	1 1/2	1,391.31	1 1/2	1,003.38	1 1/2	626.57	1 1/2	242.81	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,159.09	3/4	1,771.16	3/4	1,383.23	3/4	995.30	3/4	618.81	3/4	234.73	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
10	2,151.01	10	1,763.08	10	1,375.15	10	987.22	10	611.05	10	226.65	10	0.00	10	10	10	10	10	10
1 1/4	2,142.93	1 1/4	1,755.00	1 1/4	1,367.06	1 1/4	979.13	1 1/4	603.29	1 1/4	218.57	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,134.84	1 1/2	1,746.91	1 1/2	1,358.98	1 1/2	971.05	1 1/2	595.53	1 1/2	210.48	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,126.76	3/4	1,738.83	3/4	1,350.90	3/4	962.97	3/4	587.77	3/4	202.40	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4
11	2,118.68	11	1,730.75	11	1,342.82	11	954.89	11	580.01	11	194.32	11	0.00	11	11	11	11	11	11
1 1/4	2,110.60	1 1/4	1,722.67	1 1/4	1,334.74	1 1/4	946.81	1 1/4	572.25	1 1/4	186.24	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,102.52	1 1/2	1,714.59	1 1/2	1,326.65	1 1/2	938.72	1 1/2	564.49	1 1/2	178.16	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,094.44	3/4	1,706.50	3/4	1,318.57	3/4	930.64	3/4	556.73	3/4	170.08	3/4	0.00	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2892
Pearland, Texas 77586
<http://www.pmacorp.net>

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



BARGE "EMS 393"

2 STBD

ULLAGE 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.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
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
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12-06" OFF CENTERLINE AND 51-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pasland, Texas 77568

http://www.pmacorp.net

[Signature]



BARGE "EMS 393"

2 STBD ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,481.09	0	2,093.16	0	1,705.23	0	1,317.30	0	929.37	0	541.81	0	153.91	0	0	0	0	0	0
1/4	2,473.01	1/4	2,085.08	1/4	1,697.15	1/4	1,309.22	1/4	921.29	1/4	533.73	1/4	145.83	1/4	0	1/4	1/4	1/4	1/4
1/2	2,464.93	1/2	2,077.00	1/2	1,689.07	1/2	1,301.14	1/2	913.21	1/2	525.65	1/2	137.75	1/2	0	1/2	1/2	1/2	1/2
3/4	2,456.85	3/4	2,068.92	3/4	1,680.99	3/4	1,293.05	3/4	905.12	3/4	517.57	3/4	129.67	3/4	0	3/4	3/4	3/4	3/4
1	2,448.77	1	2,060.83	1	1,672.90	1	1,284.97	1	897.04	1	509.49	1	121.59	1	1	1	1	1	1
1 1/4	2,440.68	1 1/4	2,052.75	1 1/4	1,664.82	1 1/4	1,276.89	1 1/4	889.96	1 1/4	501.41	1 1/4	113.51	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,432.60	1 1/2	2,044.67	1 1/2	1,656.74	1 1/2	1,268.81	1 1/2	880.88	1 1/2	493.32	1 1/2	105.43	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,424.52	3/4	2,036.59	3/4	1,648.66	3/4	1,260.73	3/4	872.80	3/4	485.24	3/4	97.35	3/4	2	2	2	2	2
2	2,416.44	2	2,028.51	2	1,640.58	2	1,252.64	2	864.71	2	477.16	2	89.26	2	2	2	2	2	2
1 1/4	2,408.36	1 1/4	2,020.43	1 1/4	1,632.49	1 1/4	1,244.56	1 1/4	856.63	1 1/4	469.08	1 1/4	81.18	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,400.27	1 1/2	2,012.34	1 1/2	1,624.41	1 1/2	1,236.48	1 1/2	848.55	1 1/2	461.00	1 1/2	73.10	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,392.19	3/4	2,004.26	3/4	1,616.33	3/4	1,228.40	3/4	840.47	3/4	452.92	3/4	65.31	3/4	3/4	3/4	3/4	3/4	3/4
3	2,384.11	3	1,996.18	3	1,608.25	3	1,220.32	3	832.39	3	444.84	3	57.52	3	3	3	3	3	3
1 1/4	2,376.03	1 1/4	1,988.10	1 1/4	1,600.17	1 1/4	1,212.24	1 1/4	824.30	1 1/4	436.76	1 1/4	49.72	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,367.95	1 1/2	1,980.02	1 1/2	1,592.08	1 1/2	1,204.15	1 1/2	816.22	1 1/2	428.67	1 1/2	41.93	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,359.87	3/4	1,971.93	3/4	1,584.00	3/4	1,196.07	3/4	808.15	3/4	420.59	3/4	36.16	3/4	3/4	3/4	3/4	3/4	3/4
1 1/4	2,351.78	1 1/4	1,963.85	1 1/4	1,575.92	1 1/4	1,187.99	1 1/4	800.08	1 1/4	412.51	1 1/4	30.39	1 1/4	4	4	4	4	4
1 1/2	2,343.70	1 1/2	1,955.77	1 1/2	1,567.84	1 1/2	1,179.91	1 1/2	792.01	1 1/2	404.43	1 1/2	24.62	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,335.62	3/4	1,947.69	3/4	1,559.76	3/4	1,171.83	3/4	783.94	3/4	396.35	3/4	18.85	3/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/4	2,327.54	1 1/4	1,939.61	1 1/4	1,551.68	1 1/4	1,163.74	1 1/4	775.87	1 1/4	388.27	1 1/4	12.97	1 1/4	3/4	3/4	3/4	3/4	3/4
1 1/2	2,319.46	1 1/2	1,931.52	1 1/2	1,543.59	1 1/2	1,155.66	1 1/2	767.79	1 1/2	380.19	1 1/2	6.90	1 1/2	5	5	5	5	5
3/4	2,311.37	3/4	1,923.44	3/4	1,535.51	3/4	1,147.58	3/4	759.72	3/4	372.11	3/4	0.83	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,303.29	1 1/4	1,915.36	1 1/4	1,527.43	1 1/4	1,139.50	1 1/4	751.65	1 1/4	364.03	1 1/4	0.00	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/2	2,295.21	1 1/2	1,907.28	1 1/2	1,519.35	1 1/2	1,131.42	1 1/2	743.58	1 1/2	355.94	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,287.13	3/4	1,899.20	3/4	1,511.27	3/4	1,123.33	3/4	735.51	3/4	347.86	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,279.05	1 1/4	1,891.12	1 1/4	1,503.18	1 1/4	1,115.25	1 1/4	727.44	1 1/4	339.78	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,270.96	1 1/2	1,883.03	1 1/2	1,495.10	1 1/2	1,107.17	1 1/2	719.37	1 1/2	331.70	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,262.88	3/4	1,874.95	3/4	1,487.02	3/4	1,099.09	3/4	711.30	3/4	323.62	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,254.80	1 1/4	1,866.87	1 1/4	1,478.94	1 1/4	1,091.01	1 1/4	703.23	1 1/4	315.54	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,246.72	1 1/2	1,858.79	1 1/2	1,470.86	1 1/2	1,082.93	1 1/2	695.16	1 1/2	307.46	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,238.64	3/4	1,850.71	3/4	1,462.77	3/4	1,074.84	3/4	687.10	3/4	299.38	3/4	0.00	3/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/4	2,230.55	1 1/4	1,842.62	1 1/4	1,454.69	1 1/4	1,066.76	1 1/4	679.03	1 1/4	291.29	1 1/4	0.00	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/2	2,222.47	1 1/2	1,834.54	1 1/2	1,446.61	1 1/2	1,058.68	1 1/2	670.96	1 1/2	283.21	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,214.39	3/4	1,826.46	3/4	1,438.53	3/4	1,050.60	3/4	662.90	3/4	275.13	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,206.31	1 1/4	1,818.38	1 1/4	1,430.45	1 1/4	1,042.52	1 1/4	654.83	1 1/4	267.05	1 1/4	0.00	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/2	2,198.23	1 1/2	1,810.30	1 1/2	1,422.36	1 1/2	1,034.43	1 1/2	646.76	1 1/2	258.97	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,190.15	3/4	1,802.21	3/4	1,414.28	3/4	1,026.35	3/4	638.69	3/4	250.89	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,182.06	1 1/4	1,794.13	1 1/4	1,406.20	1 1/4	1,018.27	1 1/4	630.62	1 1/4	242.81	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,173.98	1 1/2	1,786.05	1 1/2	1,398.12	1 1/2	1,010.19	1 1/2	622.54	1 1/2	234.73	1 1/2	0.00	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,165.90	3/4	1,777.97	3/4	1,390.04	3/4	1,002.11	3/4	614.47	3/4	226.64	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,157.82	1 1/4	1,769.89	1 1/4	1,381.96	1 1/4	994.02	1 1/4	606.40	1 1/4	218.56	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,149.74	1 1/2	1,761.80	1 1/2	1,373.87	1 1/2	985.94	1 1/2	598.33	1 1/2	210.48	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,141.65	3/4	1,753.72	3/4	1,365.79	3/4	977.86	3/4	590.26	3/4	202.40	3/4	0.00	3/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/4	2,133.57	1 1/4	1,745.64	1 1/4	1,357.71	1 1/4	969.78	1 1/4	582.19	1 1/4	194.32	1 1/4	0.00	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,125.49	1 1/2	1,737.56	1 1/2	1,349.63	1 1/2	961.70	1 1/2	574.12	1 1/2	186.24	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3/4	2,117.41	3/4	1,729.48	3/4	1,341.55	3/4	953.61	3/4	566.05	3/4	178.16	3/4	0.00	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/4	2,109.33	1 1/4	1,721.40	1 1/4	1,333.46	1 1/4	945.53	1 1/4	557.97	1 1/4	170.08	1 1/4	0.00	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 1/2	2,101.24	1 1/2	1,713.31	1 1/2	1,325.38	1 1/2	937.45	1 1/2	549.89	1 1/2	162.00	1 1/2	0.00	1 1/2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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

Pasland, Texas 77588

http://www.pmacorp.net

Paul J. Mac



GAUGE HEIGHT 16'-04 1/2"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

Pearland, Texas 77588
http://www.pmacorp.net

SHEET NO. 9 OF 12



BARGE "EMS 393"

3 PORT ULLAGE 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.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,296.72	0	1,935.71	0	1,574.96	0	1,213.65	0	852.53	0	504.42	0	143.47	0	0	0	0	0	0
1/4	2,289.19	1/4	1,928.21	1/4	1,567.43	1/4	1,206.12	1/4	845.02	1/4	497.17	1/4	135.94	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,281.66	1/2	1,920.70	1/2	1,559.90	1/2	1,198.59	1/2	837.50	1/2	489.92	1/2	128.41	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,274.13	3/4	1,913.19	3/4	1,552.37	3/4	1,191.06	3/4	830.26	3/4	482.39	3/4	120.88	3/4	3/4	3/4	3/4	3/4	3/4
1	2,266.60	1	1,905.68	1	1,544.85	1	1,183.54	1	823.02	1	474.86	1	113.35	1	1	1	1	1	1
1/4	2,259.07	1/4	1,898.18	1/4	1,537.32	1/4	1,176.01	1/4	815.78	1/4	467.33	1/4	105.81	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,251.54	1/2	1,890.67	1/2	1,529.79	1/2	1,168.48	1/2	808.54	1/2	459.79	1/2	98.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,244.01	3/4	1,883.16	3/4	1,522.27	3/4	1,160.96	3/4	801.30	3/4	452.26	3/4	90.75	3/4	3/4	3/4	3/4	3/4	3/4
1	2,236.48	1	1,875.65	1	1,514.74	1	1,153.43	1	794.06	1	444.73	1	83.22	1	2	2	2	2	2
1/4	2,228.95	1/4	1,868.15	1/4	1,507.21	1/4	1,145.90	1/4	786.82	1/4	437.20	1/4	75.69	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,221.42	1/2	1,860.64	1/2	1,499.68	1/2	1,138.37	1/2	779.58	1/2	429.67	1/2	68.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,213.89	3/4	1,853.13	3/4	1,492.16	3/4	1,130.85	3/4	772.32	3/4	422.14	3/4	60.89	3/4	3/4	3/4	3/4	3/4	3/4
1	2,206.35	1	1,845.62	1	1,484.63	1	1,123.32	1	765.07	1	414.61	1	53.63	1	3	3	3	3	3
1/4	2,198.82	1/4	1,838.12	1/4	1,477.10	1/4	1,115.79	1/4	757.82	1/4	407.07	1/4	46.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,191.29	1/2	1,830.61	1/2	1,469.57	1/2	1,108.26	1/2	750.57	1/2	399.54	1/2	39.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,183.76	3/4	1,823.10	3/4	1,462.05	3/4	1,100.74	3/4	743.33	3/4	392.01	3/4	33.73	3/4	3/4	3/4	3/4	3/4	3/4
1	2,176.23	1	1,815.59	1	1,454.52	1	1,093.21	1	736.09	1	384.48	1	28.35	1	4	4	4	4	4
1/4	2,168.70	1/4	1,808.09	1/4	1,446.99	1/4	1,085.68	1/4	728.85	1/4	376.95	1/4	22.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,161.17	1/2	1,800.58	1/2	1,439.47	1/2	1,078.15	1/2	721.61	1/2	369.42	1/2	17.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,153.64	3/4	1,793.07	3/4	1,431.94	3/4	1,070.63	3/4	714.37	3/4	361.88	3/4	11.11	3/4	3/4	3/4	3/4	3/4	3/4
1	2,146.11	1	1,785.56	1	1,424.41	1	1,063.10	1	707.13	1	354.35	1	5	1	5	5	5	5	5
1/4	2,138.58	1/4	1,778.05	1/4	1,416.88	1/4	1,055.57	1/4	699.89	1/4	346.82	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,131.05	1/2	1,770.55	1/2	1,409.36	1/2	1,048.05	1/2	692.65	1/2	339.29	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,123.52	3/4	1,763.04	3/4	1,401.83	3/4	1,040.52	3/4	685.41	3/4	331.76	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	2,115.99	1	1,755.53	1	1,394.30	1	1,032.99	1	678.17	1	324.23	1	0	1	6	6	6	6	6
1/4	2,108.46	1/4	1,748.02	1/4	1,386.77	1/4	1,025.46	1/4	670.93	1/4	316.70	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,100.93	1/2	1,740.52	1/2	1,379.25	1/2	1,017.94	1/2	663.69	1/2	309.16	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,093.41	3/4	1,733.00	3/4	1,371.72	3/4	1,010.42	3/4	656.45	3/4	301.63	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	2,085.89	1	1,725.48	1	1,364.19	1	1,002.90	1	649.22	1	294.10	1	0	1	7	7	7	7	7
1/4	2,078.37	1/4	1,717.97	1/4	1,356.66	1/4	995.38	1/4	641.98	1/4	286.57	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,070.85	1/2	1,710.45	1/2	1,349.14	1/2	987.86	1/2	634.75	1/2	279.04	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,063.34	3/4	1,702.92	3/4	1,341.61	3/4	980.34	3/4	627.51	3/4	271.51	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	2,055.84	1	1,695.39	1	1,334.08	1	972.83	1	620.27	1	263.98	1	0	1	8	8	8	8	8
1/4	2,048.33	1/4	1,687.87	1/4	1,326.56	1/4	965.31	1/4	613.04	1/4	256.44	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,040.82	1/2	1,680.34	1/2	1,319.03	1/2	957.79	1/2	605.80	1/2	248.91	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,033.31	3/4	1,672.81	3/4	1,311.50	3/4	950.27	3/4	598.56	3/4	241.38	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	2,025.81	1	1,665.28	1	1,303.97	1	942.75	1	591.32	1	233.85	1	0	1	9	9	9	9	9
1/4	2,018.30	1/4	1,657.76	1/4	1,296.45	1/4	935.24	1/4	584.08	1/4	226.32	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,010.79	1/2	1,650.23	1/2	1,288.92	1/2	927.72	1/2	576.84	1/2	218.79	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,003.28	3/4	1,642.70	3/4	1,281.39	3/4	920.20	3/4	569.60	3/4	211.25	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	1,995.78	1	1,635.17	1	1,273.86	1	912.68	1	562.36	1	203.72	1	0	1	10	10	10	10	10
1/4	1,988.27	1/4	1,627.65	1/4	1,266.34	1/4	905.16	1/4	555.12	1/4	196.19	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,980.76	1/2	1,620.12	1/2	1,258.81	1/2	897.64	1/2	547.88	1/2	188.66	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,973.25	3/4	1,612.59	3/4	1,251.28	3/4	890.13	3/4	540.64	3/4	181.13	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
1	1,965.74	1	1,605.07	1	1,243.76	1	882.61	1	533.40	1	173.60	1	0	1	11	11	11	11	11
1/4	1,958.24	1/4	1,597.54	1/4	1,236.23	1/4	875.09	1/4	526.16	1/4	166.07	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,950.73	1/2	1,590.01	1/2	1,228.70	1/2	867.57	1/2	518.92	1/2	158.53	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,943.22	3/4	1,582.48	3/4	1,221.17	3/4	860.05	3/4	511.67	3/4	151.00	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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



ULLAGE TABLE

GAUGE HEIGHT 16'-04 1/4"

[illegible]

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT

ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

Pearland, Texas 77588
<http://www.pmacorp.net>

[Signature]



BARGE "EMS 393"

3 STBD ULLAGE 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.	
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.
1/4	2,282.31	0	1,923.58	0	1,565.39	0	1,205.21	0	845.03	0	495.63	0	135.55	0		0			
1/4	2,274.80	1/4	1,916.15	1/4	1,557.89	1/4	1,197.70	1/4	837.52	1/4	488.35	1/4	128.04	1/4		1/4	1/4	1/4	1/4
1/2	2,267.29	1/2	1,908.72	1/2	1,550.38	1/2	1,190.20	1/2	830.24	1/2	480.85	1/2	120.54	1/2		1/2	1/2	1/2	1/2
3/4	2,259.79	3/4	1,901.29	3/4	1,542.88	3/4	1,182.70	3/4	822.96	3/4	473.34	3/4	113.03	3/4		3/4	3/4	3/4	3/4
1	2,252.28	1	1,893.86	1	1,535.37	1	1,175.19	1	815.67	1	465.83	1	105.52	1		1	1	1	1
1/4	2,244.77	1/4	1,886.43	1/4	1,527.87	1/4	1,167.69	1/4	808.39	1/4	458.33	1/4	98.02	1/4		1/4	1/4	1/4	1/4
1/2	2,237.26	1/2	1,879.00	1/2	1,520.37	1/2	1,160.18	1/2	801.11	1/2	450.82	1/2	90.51	1/2		1/2	1/2	1/2	1/2
3/4	2,229.76	3/4	1,871.57	3/4	1,512.86	3/4	1,152.68	3/4	793.83	3/4	443.32	3/4	83.00	3/4		3/4	3/4	3/4	3/4
2	2,222.25	2	1,864.14	2	1,505.36	2	1,145.18	2	786.55	2	435.81	2	75.50	2		2	2	2	2
1/4	2,214.74	1/4	1,856.71	1/4	1,497.86	1/4	1,137.67	1/4	779.26	1/4	428.30	1/4	67.99	1/4		1/4	1/4	1/4	1/4
1/2	2,207.24	1/2	1,849.28	1/2	1,490.35	1/2	1,130.17	1/2	771.98	1/2	420.80	1/2	60.75	1/2		1/2	1/2	1/2	1/2
3/4	2,199.73	3/4	1,841.85	3/4	1,482.85	3/4	1,122.67	3/4	764.70	3/4	413.29	3/4	53.52	3/4		3/4	3/4	3/4	3/4
3	2,192.22	3	1,834.42	3	1,475.34	3	1,115.16	3	757.42	3	405.78	3	46.28	3		3	3	3	3
1/4	2,184.71	1/4	1,826.99	1/4	1,467.84	1/4	1,107.66	1/4	750.13	1/4	398.28	1/4	39.04	1/4		1/4	1/4	1/4	1/4
1/2	2,177.21	1/2	1,819.56	1/2	1,460.34	1/2	1,100.15	1/2	742.86	1/2	390.77	1/2	33.67	1/2		1/2	1/2	1/2	1/2
3/4	2,169.70	3/4	1,812.13	3/4	1,452.83	3/4	1,092.65	3/4	735.59	3/4	383.26	3/4	28.30	3/4		3/4	3/4	3/4	3/4
4	2,162.19	4	1,804.70	4	1,445.33	4	1,085.15	4	728.32	4	375.76	4	22.93	4		4	4	4	4
1/4	2,154.69	1/4	1,797.27	1/4	1,437.83	1/4	1,077.64	1/4	721.05	1/4	368.25	1/4	17.56	1/4		1/4	1/4	1/4	1/4
1/2	2,147.18	1/2	1,789.84	1/2	1,430.32	1/2	1,070.14	1/2	713.78	1/2	360.74	1/2	11.11	1/2		1/2	1/2	1/2	1/2
3/4	2,139.67	3/4	1,782.41	3/4	1,422.82	3/4	1,062.64	3/4	706.50	3/4	353.24	3/4	4.68	3/4		3/4	3/4	3/4	3/4
5	2,132.16	5	1,774.98	5	1,415.31	5	1,055.13	5	699.23	5	345.73	5	5.5	5		5	5	5	5
1/4	2,124.66	1/4	1,767.55	1/4	1,407.81	1/4	1,047.63	1/4	691.96	1/4	338.22	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	2,117.15	1/2	1,760.12	1/2	1,400.31	1/2	1,040.12	1/2	684.69	1/2	330.72	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	2,109.64	3/4	1,752.69	3/4	1,392.80	3/4	1,032.62	3/4	677.42	3/4	323.21	3/4	1.11	3/4		3/4	3/4	3/4	3/4
6	2,102.14	6	1,745.26	6	1,385.30	6	1,025.12	6	670.15	6	315.70	6	1.11	6		6	6	6	6
1/4	2,094.63	1/4	1,737.83	1/4	1,377.79	1/4	1,017.61	1/4	662.87	1/4	308.20	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	2,087.12	1/2	1,730.36	1/2	1,370.29	1/2	1,010.11	1/2	655.61	1/2	300.69	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	2,079.61	3/4	1,722.89	3/4	1,362.79	3/4	1,002.60	3/4	648.34	3/4	293.19	3/4	1.11	3/4		3/4	3/4	3/4	3/4
7	2,072.11	7	1,715.43	7	1,355.28	7	995.10	7	641.07	7	285.68	7	1.11	7		7	7	7	7
1/4	2,064.60	1/4	1,707.96	1/4	1,347.78	1/4	987.60	1/4	633.81	1/4	278.17	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	2,057.09	1/2	1,700.46	1/2	1,340.28	1/2	980.09	1/2	626.54	1/2	270.67	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	2,049.58	3/4	1,692.95	3/4	1,332.77	3/4	972.59	3/4	619.27	3/4	263.16	3/4	1.11	3/4		3/4	3/4	3/4	3/4
8	2,042.07	8	1,685.45	8	1,325.27	8	965.09	8	612.00	8	255.65	8	1.11	8		8	8	8	8
1/4	2,034.56	1/4	1,677.95	1/4	1,317.76	1/4	957.58	1/4	604.74	1/4	248.15	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	2,027.05	1/2	1,670.44	1/2	1,310.26	1/2	950.08	1/2	597.47	1/2	240.64	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	2,019.54	3/4	1,662.94	3/4	1,302.76	3/4	942.57	3/4	590.19	3/4	233.13	3/4	1.11	3/4		3/4	3/4	3/4	3/4
9	2,012.03	9	1,655.44	9	1,295.25	9	935.07	9	582.92	9	225.63	9	1.11	9		9	9	9	9
1/4	2,004.52	1/4	1,647.93	1/4	1,287.75	1/4	927.57	1/4	575.65	1/4	218.12	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	1,997.01	1/2	1,640.43	1/2	1,280.25	1/2	920.06	1/2	568.38	1/2	210.61	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	1,989.50	3/4	1,632.92	3/4	1,272.74	3/4	912.56	3/4	561.11	3/4	203.11	3/4	1.11	3/4		3/4	3/4	3/4	3/4
10	1,982.00	10	1,625.42	10	1,265.24	10	905.06	10	553.83	10	195.60	10	1.11	10		10	10	10	10
1/4	1,974.49	1/4	1,617.92	1/4	1,257.73	1/4	897.55	1/4	546.56	1/4	188.09	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	1,966.98	1/2	1,610.41	1/2	1,250.23	1/2	890.05	1/2	539.29	1/2	180.59	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	1,959.47	3/4	1,602.91	3/4	1,242.73	3/4	882.54	3/4	532.02	3/4	173.08	3/4	1.11	3/4		3/4	3/4	3/4	3/4
11	1,951.96	11	1,595.41	11	1,235.22	11	875.04	11	524.75	11	165.57	11	1.11	11		11	11	11	11
1/4	1,944.45	1/4	1,587.90	1/4	1,227.72	1/4	867.54	1/4	517.48	1/4	158.07	1/4	1.11	1/4		1/4	1/4	1/4	1/4
1/2	1,936.94	1/2	1,580.40	1/2	1,220.22	1/2	860.03	1/2	510.20	1/2	150.56	1/2	1.11	1/2		1/2	1/2	1/2	1/2
3/4	1,929.43	3/4	1,572.89	3/4	1,212.71	3/4	852.53	3/4	502.92	3/4	143.06	3/4	1.11	3/4		3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/10/2015 SW
CALCULATED: 06/10/2015 CL
PRINTED: 06/11/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2015

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