



BARGE "EMS 373"

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	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-3/8	01-3/8	- 01-5/8	01-5/8
2 PORT	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
2 STBD	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
3 PORT	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-5/8	01-5/8	- 02-1/8	02-1/8	- 02-1/2	02-1/2
3 STBD	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-5/8	01-5/8	- 02-1/8	02-1/8	- 02-1/2	02-1/2

(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 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

December 21, 2011

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 373"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

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	2.65	0	255.78	0	537.70	0	838.41	0	1,159.42	0	1,491.08	0	1,822.75	0	2,154.42	0	2,486.08	0	2,817.74
1/4	5.94	1/4	261.47	1/4	543.80	1/4	844.88	1/4	1,166.33	1/4	1,497.99	1/4	1,829.66	1/4	2,161.33	1/4	2,492.99	1/4	2,824.65
1/2	9.24	1/2	267.15	1/2	549.90	1/2	851.35	1/2	1,173.24	1/2	1,504.90	1/2	1,836.57	1/2	2,168.23	1/2	2,499.90	1/2	2,831.56
3/4	12.53	3/4	272.83	3/4	555.99	3/4	857.82	3/4	1,180.15	3/4	1,511.81	3/4	1,843.48	3/4	2,175.14	3/4	2,506.81	3/4	2,838.47
1	15.83	1	278.52	1	562.09	1	864.29	1	1,187.06	1	1,518.72	1	1,850.39	1	2,182.05	1	2,513.72	1	2,845.37
1/4	20.88	1/4	284.24	1/4	568.22	1/4	870.79	1/4	1,193.97	1/4	1,525.63	1/4	1,857.30	1/4	2,188.96	1/4	2,520.63	1/4	2,852.28
1/2	25.94	1/2	289.95	1/2	574.36	1/2	877.30	1/2	1,200.88	1/2	1,532.54	1/2	1,864.21	1/2	2,195.87	1/2	2,527.54	1/2	2,859.19
3/4	31.00	3/4	295.67	3/4	580.49	3/4	883.80	3/4	1,207.79	3/4	1,539.45	3/4	1,871.12	3/4	2,202.78	3/4	2,534.45	3/4	2,866.10
2	36.05	2	301.39	2	586.62	2	890.31	2	1,214.70	2	1,546.36	2	1,878.03	2	2,209.69	2	2,541.36	2	2,873.01
1/4	41.39	1/4	307.14	1/4	592.79	1/4	896.84	1/4	1,221.61	1/4	1,553.27	1/4	1,884.94	1/4	2,216.60	1/4	2,548.27	1/4	2,879.92
1/2	46.73	1/2	312.89	1/2	598.95	1/2	903.38	1/2	1,228.52	1/2	1,560.18	1/2	1,891.85	1/2	2,223.51	1/2	2,555.18	1/2	2,886.83
3/4	52.07	3/4	318.65	3/4	605.12	3/4	909.92	3/4	1,235.43	3/4	1,567.09	3/4	1,898.76	3/4	2,230.42	3/4	2,562.09	3/4	2,893.74
3	57.40	3	324.40	3	611.29	3	916.46	3	1,242.34	3	1,574.00	3	1,905.67	3	2,237.33	3	2,569.00	3	2,900.65
1/4	62.78	1/4	330.18	1/4	617.49	1/4	923.05	1/4	1,249.24	1/4	1,580.91	1/4	1,912.58	1/4	2,244.24	1/4	2,575.91	1/4	2,907.55
1/2	68.15	1/2	335.97	1/2	623.69	1/2	929.65	1/2	1,256.15	1/2	1,587.82	1/2	1,919.49	1/2	2,251.15	1/2	2,582.82	1/2	2,914.46
3/4	73.52	3/4	341.76	3/4	629.89	3/4	936.24	3/4	1,263.06	3/4	1,594.73	3/4	1,926.40	3/4	2,258.06	3/4	2,589.73	3/4	2,921.37
4	78.89	4	347.55	4	636.09	4	942.83	4	1,269.97	4	1,601.64	4	1,933.31	4	2,264.97	4	2,596.64	4	2,928.28
1/4	84.30	1/4	353.37	1/4	642.33	1/4	949.45	1/4	1,276.88	1/4	1,608.55	1/4	1,940.21	1/4	2,271.88	1/4	2,603.55	1/4	2,935.19
1/2	89.71	1/2	359.19	1/2	648.56	1/2	956.08	1/2	1,283.79	1/2	1,615.46	1/2	1,947.12	1/2	2,278.79	1/2	2,610.46	1/2	2,942.10
3/4	95.11	3/4	365.01	3/4	654.80	3/4	962.71	3/4	1,290.70	3/4	1,622.37	3/4	1,954.03	3/4	2,285.70	3/4	2,617.37	3/4	2,949.01
5	100.52	5	370.83	5	661.04	5	969.33	5	1,297.61	5	1,629.28	5	1,960.94	5	2,292.61	5	2,624.28	5	2,955.92
1/4	105.96	1/4	376.69	1/4	667.28	1/4	976.02	1/4	1,304.52	1/4	1,636.19	1/4	1,967.85	1/4	2,299.52	1/4	2,631.18	1/4	2,962.82
1/2	111.40	1/2	382.54	1/2	673.52	1/2	982.70	1/2	1,311.43	1/2	1,643.10	1/2	1,974.76	1/2	2,306.43	1/2	2,638.09	1/2	2,969.73
3/4	116.85	3/4	388.40	3/4	679.76	3/4	989.39	3/4	1,318.34	3/4	1,650.01	3/4	1,981.67	3/4	2,313.34	3/4	2,645.00	3/4	2,976.64
6	122.29	6	394.26	6	686.00	6	996.07	6	1,325.25	6	1,656.92	6	1,988.58	6	2,320.25	6	2,651.91	6	2,983.55
1/4	127.76	1/4	400.15	1/4	692.28	1/4	1,002.79	1/4	1,332.16	1/4	1,663.83	1/4	1,995.49	1/4	2,327.16	1/4	2,658.82	1/4	2,990.46
1/2	133.24	1/2	406.04	1/2	698.56	1/2	1,009.51	1/2	1,339.07	1/2	1,670.74	1/2	2,002.40	1/2	2,334.07	1/2	2,665.73	1/2	2,997.37
3/4	138.72	3/4	411.93	3/4	704.83	3/4	1,016.23	3/4	1,345.98	3/4	1,677.65	3/4	2,009.31	3/4	2,340.98	3/4	2,672.64	3/4	3,004.28
7	144.19	7	417.82	7	711.11	7	1,022.95	7	1,352.89	7	1,684.56	7	2,016.22	7	2,347.89	7	2,679.55	7	3,011.19
1/4	149.70	1/4	423.74	1/4	717.40	1/4	1,029.71	1/4	1,359.80	1/4	1,691.47	1/4	2,023.13	1/4	2,354.80	1/4	2,686.46	1/4	3,018.09
1/2	155.21	1/2	429.67	1/2	723.70	1/2	1,036.46	1/2	1,366.71	1/2	1,698.38	1/2	2,030.04	1/2	2,361.71	1/2	2,693.37	1/2	3,025.00
3/4	160.72	3/4	435.59	3/4	730.00	3/4	1,043.21	3/4	1,373.62	3/4	1,705.28	3/4	2,036.95	3/4	2,368.62	3/4	2,700.28	3/4	3,031.91
8	166.23	8	441.52	8	736.30	8	1,049.97	8	1,380.53	8	1,712.19	8	2,043.86	8	2,375.53	8	2,707.19	8	3,038.82
1/4	171.78	1/4	447.48	1/4	742.63	1/4	1,056.76	1/4	1,387.44	1/4	1,719.10	1/4	2,050.77	1/4	2,382.44	1/4	2,714.10	1/4	3,045.73
1/2	177.32	1/2	453.44	1/2	748.96	1/2	1,063.55	1/2	1,394.35	1/2	1,726.01	1/2	2,057.68	1/2	2,389.35	1/2	2,721.01	1/2	3,052.64
3/4	182.87	3/4	459.40	3/4	755.29	3/4	1,070.34	3/4	1,401.26	3/4	1,732.92	3/4	2,064.59	3/4	2,396.26	3/4	2,727.92	3/4	3,059.55
9	188.41	9	465.36	9	761.63	9	1,077.12	9	1,408.17	9	1,739.83	9	2,071.50	9	2,403.16	9	2,734.83	9	3,066.46
1/4	193.99	1/4	471.35	1/4	767.99	1/4	1,083.95	1/4	1,415.08	1/4	1,746.74	1/4	2,078.41	1/4	2,410.07	1/4	2,741.74	1/4	3,073.37
1/2	199.57	1/2	477.34	1/2	774.36	1/2	1,090.77	1/2	1,421.99	1/2	1,753.65	1/2	2,085.32	1/2	2,416.98	1/2	2,748.65	1/2	3,080.27
3/4	205.15	3/4	483.34	3/4	780.73	3/4	1,097.59	3/4	1,428.90	3/4	1,760.56	3/4	2,092.23	3/4	2,423.89	3/4	2,755.56	3/4	3,087.18
10	210.73	10	489.33	10	787.09	10	1,104.42	10	1,435.81	10	1,767.47	10	2,099.14	10	2,430.80	10	2,762.47	10	3,094.09
1/4	216.35	1/4	495.36	1/4	793.49	1/4	1,111.28	1/4	1,442.72	1/4	1,774.38	1/4	2,106.05	1/4	2,437.71	1/4	2,769.38	1/4	3,101.00
1/2	221.96	1/2	501.39	1/2	799.89	1/2	1,118.13	1/2	1,449.63	1/2	1,781.29	1/2	2,112.96	1/2	2,444.62	1/2	2,776.29	1/2	3,107.91
3/4	227.57	3/4	507.42	3/4	806.28	3/4	1,124.99	3/4	1,456.54	3/4	1,788.20	3/4	2,119.87	3/4	2,451.53	3/4	2,783.20	3/4	3,114.82
11	233.19	11	513.45	11	812.68	11	1,131.85	11	1,463.45	11	1,795.11	11	2,126.78	11	2,458.44	11	2,790.10	11	3,121.73
1/4	238.84	1/4	519.51	1/4	819.11	1/4	1,138.74	1/4	1,470.36	1/4	1,802.02	1/4	2,133.69	1/4	2,465.35	1/4	2,797.01	1/4	3,128.64
1/2	244.49	1/2	525.57	1/2	825.54	1/2	1,145.63	1/2	1,477.26	1/2	1,808.93	1/2	2,140.60	1/2	2,472.26	1/2	2,803.92	1/2	3,135.54
3/4	250.14	3/4	531.64	3/4	831.97	3/4	1,152.53	3/4	1,484.17	3/4	1,815.84	3/4	2,147.51	3/4	2,479.17	3/4	2,810.83	3/4	3,142.45

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" 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 77588

<http://www.pmacorp.net>



BARGE "EMS 373"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 1/2"

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	3,149.36	0	3,480.98	0	3,812.61	0	4,143.42	0		0		0		0		0		0	
1/4	3,156.27	1/4	3,487.89	1/4	3,819.52	1/4	4,150.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,163.18	1/2	3,494.80	1/2	3,826.42	1/2	4,157.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,170.09	3/4	3,501.71	3/4	3,833.33	3/4	4,164.03	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,177.00	1	3,508.62	1	3,840.24	1	4,170.90	1		1		1		1		1		1	
1/4	3,183.91	1/4	3,515.53	1/4	3,847.15	1/4	4,177.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,190.81	1/2	3,522.44	1/2	3,854.06	1/2	4,184.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,197.72	3/4	3,529.35	3/4	3,860.97	3/4	4,191.50	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,204.63	2	3,536.25	2	3,867.88	2	4,198.37	2		2		2		2		2		2	
1/4	3,211.54	1/4	3,543.16	1/4	3,874.79	1/4	4,205.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.45	1/2	3,550.07	1/2	3,881.69	1/2	4,212.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.36	3/4	3,556.98	3/4	3,888.60	3/4	4,218.98	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,232.27	3	3,563.89	3	3,895.51	3	4,225.85	3		3		3		3		3		3	
1/4	3,239.18	1/4	3,570.80	1/4	3,902.42	1/4	4,232.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,246.09	1/2	3,577.71	1/2	3,909.33	1/2	4,239.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,252.99	3/4	3,584.62	3/4	3,916.24	3/4	4,246.45	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,259.90	4	3,591.53	4	3,923.15	4	4,253.32	4		4		4		4		4		4	
1/4	3,266.81	1/4	3,598.43	1/4	3,930.06	1/4	4,260.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,273.72	1/2	3,605.34	1/2	3,936.97	1/2	4,267.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.63	3/4	3,612.25	3/4	3,943.87	3/4	4,273.92	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,287.54	5	3,619.16	5	3,950.78	5	4,280.79	5		5		5		5		5		5	
1/4	3,294.45	1/4	3,626.07	1/4	3,957.69	1/4	4,287.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,301.36	1/2	3,632.98	1/2	3,964.60	1/2	4,294.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,308.26	3/4	3,639.89	3/4	3,971.51	3/4	4,301.40	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,315.17	6	3,646.80	6	3,978.42	6	4,308.27	6		6		6		6		6		6	
1/4	3,322.08	1/4	3,653.70	1/4	3,985.33	1/4	4,315.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,328.99	1/2	3,660.61	1/2	3,992.24	1/2	4,322.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,335.90	3/4	3,667.52	3/4	3,999.14	3/4	4,328.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,342.81	7	3,674.43	7	4,006.05	7	4,335.74	7		7		7		7		7		7	
1/4	3,349.72	1/4	3,681.34	1/4	4,012.92	1/4	4,342.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,356.63	1/2	3,688.25	1/2	4,019.79	1/2	4,349.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,363.53	3/4	3,695.16	3/4	4,026.66	3/4	4,356.13	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,370.44	8	3,702.07	8	4,033.53	8	4,362.92	8		8		8		8		8		8	
1/4	3,377.35	1/4	3,708.97	1/4	4,040.40	1/4	4,369.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,384.26	1/2	3,715.88	1/2	4,047.26	1/2	4,375.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,391.17	3/4	3,722.79	3/4	4,054.13	3/4	4,382.25	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,398.08	9	3,729.70	9	4,061.00	9	4,388.69	9		9		9		9		9		9	
1/4	3,404.99	1/4	3,736.61	1/4	4,067.87	1/4	4,393.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,411.90	1/2	3,743.52	1/2	4,074.74	1/2	4,399.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,418.81	3/4	3,750.43	3/4	4,081.61	3/4	4,404.37	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,425.71	10	3,757.34	10	4,088.48	10	=====	10		10		10		10		10		10	
1/4	3,432.62	1/4	3,764.25	1/4	4,095.34	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,439.53	1/2	3,771.15	1/2	4,102.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,446.44	3/4	3,778.06	3/4	4,109.08	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,453.35	11	3,784.97	11	4,115.95	11		11		11		11		11		11		11	
1/4	3,460.26	1/4	3,791.88	1/4	4,122.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,467.17	1/2	3,798.79	1/2	4,129.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,474.08	3/4	3,805.70	3/4	4,136.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
REPRINTED: 12/21/2011 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

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	2.66	0	255.79	0	537.70	0	839.19	0	1,160.71	0	1,492.33	0	1,823.96	0	2,155.58	0	2,487.20	0	2,818.82
1/4	5.95	1/4	261.48	1/4	543.80	1/4	845.69	1/4	1,167.62	1/4	1,499.24	1/4	1,830.87	1/4	2,162.49	1/4	2,494.11	1/4	2,825.72
1/2	9.25	1/2	267.16	1/2	549.89	1/2	852.19	1/2	1,174.53	1/2	1,506.15	1/2	1,837.77	1/2	2,169.40	1/2	2,501.02	1/2	2,832.63
3/4	12.54	3/4	272.84	3/4	555.99	3/4	858.69	3/4	1,181.44	3/4	1,513.06	3/4	1,844.68	3/4	2,176.31	3/4	2,507.93	3/4	2,839.54
1	15.83	1	278.53	1	562.09	1	865.18	1	1,188.35	1	1,519.97	1	1,851.59	1	2,183.21	1	2,514.84	1	2,846.45
1/4	20.89	1/4	284.24	1/4	568.22	1/4	871.72	1/4	1,195.26	1/4	1,526.88	1/4	1,858.50	1/4	2,190.12	1/4	2,521.75	1/4	2,853.35
1/2	25.95	1/2	289.96	1/2	574.35	1/2	878.25	1/2	1,202.16	1/2	1,533.79	1/2	1,865.41	1/2	2,197.03	1/2	2,528.65	1/2	2,860.26
3/4	31.00	3/4	295.68	3/4	580.48	3/4	884.78	3/4	1,209.07	3/4	1,540.70	3/4	1,872.32	3/4	2,203.94	3/4	2,535.56	3/4	2,867.17
2	36.06	2	301.40	2	586.62	2	891.32	2	1,215.98	2	1,547.60	2	1,879.23	2	2,210.85	2	2,542.47	2	2,874.08
1/4	41.40	1/4	307.15	1/4	592.78	1/4	897.88	1/4	1,222.89	1/4	1,554.51	1/4	1,886.14	1/4	2,217.76	1/4	2,549.38	1/4	2,880.99
1/2	46.74	1/2	312.90	1/2	598.95	1/2	904.45	1/2	1,229.80	1/2	1,561.42	1/2	1,893.04	1/2	2,224.67	1/2	2,556.29	1/2	2,887.89
3/4	52.08	3/4	318.65	3/4	605.12	3/4	911.02	3/4	1,236.71	3/4	1,568.33	3/4	1,899.95	3/4	2,231.58	3/4	2,563.20	3/4	2,894.80
3	57.41	3	324.41	3	611.28	3	917.59	3	1,243.62	3	1,575.24	3	1,906.86	3	2,238.48	3	2,570.11	3	2,901.71
1/4	62.79	1/4	330.19	1/4	617.48	1/4	924.20	1/4	1,250.53	1/4	1,582.15	1/4	1,913.77	1/4	2,245.39	1/4	2,577.02	1/4	2,908.62
1/2	68.16	1/2	335.98	1/2	623.68	1/2	930.82	1/2	1,257.43	1/2	1,589.06	1/2	1,920.68	1/2	2,252.30	1/2	2,583.92	1/2	2,915.52
3/4	73.53	3/4	341.77	3/4	629.89	3/4	937.43	3/4	1,264.34	3/4	1,595.97	3/4	1,927.59	3/4	2,259.21	3/4	2,590.83	3/4	2,922.43
4	78.90	4	347.55	4	636.09	4	944.05	4	1,271.25	4	1,602.87	4	1,934.50	4	2,266.12	4	2,597.74	4	2,929.34
1/4	84.31	1/4	353.37	1/4	642.32	1/4	950.70	1/4	1,278.16	1/4	1,609.78	1/4	1,941.41	1/4	2,273.03	1/4	2,604.65	1/4	2,936.25
1/2	89.72	1/2	359.20	1/2	648.56	1/2	957.35	1/2	1,285.07	1/2	1,616.69	1/2	1,948.31	1/2	2,279.94	1/2	2,611.56	1/2	2,943.16
3/4	95.12	3/4	365.02	3/4	654.79	3/4	964.00	3/4	1,291.98	3/4	1,623.60	3/4	1,955.22	3/4	2,286.85	3/4	2,618.47	3/4	2,950.06
5	100.53	5	370.84	5	661.03	5	970.65	5	1,298.89	5	1,630.51	5	1,962.13	5	2,293.75	5	2,625.38	5	2,956.97
1/4	105.97	1/4	376.69	1/4	667.30	1/4	977.33	1/4	1,305.80	1/4	1,637.42	1/4	1,969.04	1/4	2,300.66	1/4	2,632.29	1/4	2,963.88
1/2	111.41	1/2	382.55	1/2	673.57	1/2	984.02	1/2	1,312.71	1/2	1,644.33	1/2	1,975.95	1/2	2,307.57	1/2	2,639.19	1/2	2,970.79
3/4	116.86	3/4	388.41	3/4	679.84	3/4	990.70	3/4	1,319.61	3/4	1,651.24	3/4	1,982.86	3/4	2,314.48	3/4	2,646.10	3/4	2,977.70
6	122.30	6	394.26	6	686.11	6	997.39	6	1,326.52	6	1,658.15	6	1,989.77	6	2,321.39	6	2,653.01	6	2,984.60
1/4	127.77	1/4	400.15	1/4	692.41	1/4	1,004.10	1/4	1,333.43	1/4	1,665.05	1/4	1,996.68	1/4	2,328.30	1/4	2,659.92	1/4	2,991.51
1/2	133.25	1/2	406.04	1/2	698.72	1/2	1,010.82	1/2	1,340.34	1/2	1,671.96	1/2	2,003.59	1/2	2,335.21	1/2	2,666.83	1/2	2,998.42
3/4	138.73	3/4	411.93	3/4	705.02	3/4	1,017.54	3/4	1,347.25	3/4	1,678.87	3/4	2,010.49	3/4	2,342.12	3/4	2,673.74	3/4	3,005.33
7	144.20	7	417.82	7	711.33	7	1,024.26	7	1,354.16	7	1,685.78	7	2,017.40	7	2,349.03	7	2,680.65	7	3,012.23
1/4	149.71	1/4	423.75	1/4	717.65	1/4	1,031.02	1/4	1,361.07	1/4	1,692.69	1/4	2,024.31	1/4	2,355.93	1/4	2,687.56	1/4	3,019.14
1/2	155.22	1/2	429.67	1/2	723.98	1/2	1,037.77	1/2	1,367.98	1/2	1,699.60	1/2	2,031.22	1/2	2,362.84	1/2	2,694.47	1/2	3,026.05
3/4	160.73	3/4	435.60	3/4	730.30	3/4	1,044.52	3/4	1,374.88	3/4	1,706.51	3/4	2,038.13	3/4	2,369.75	3/4	2,701.37	3/4	3,032.96
8	166.24	8	441.52	8	736.63	8	1,051.28	8	1,381.79	8	1,713.42	8	2,045.04	8	2,376.66	8	2,708.28	8	3,039.87
1/4	171.79	1/4	447.48	1/4	742.99	1/4	1,058.06	1/4	1,388.70	1/4	1,720.32	1/4	2,051.95	1/4	2,383.57	1/4	2,715.19	1/4	3,046.77
1/2	177.33	1/2	453.44	1/2	749.35	1/2	1,064.85	1/2	1,395.61	1/2	1,727.23	1/2	2,058.86	1/2	2,390.48	1/2	2,722.10	1/2	3,053.68
3/4	182.88	3/4	459.40	3/4	755.71	3/4	1,071.64	3/4	1,402.52	3/4	1,734.14	3/4	2,065.76	3/4	2,397.39	3/4	2,729.01	3/4	3,060.59
9	188.42	9	465.36	9	762.07	9	1,078.43	9	1,409.43	9	1,741.05	9	2,072.67	9	2,404.30	9	2,735.92	9	3,067.50
1/4	194.00	1/4	471.35	1/4	768.47	1/4	1,085.25	1/4	1,416.34	1/4	1,747.96	1/4	2,079.58	1/4	2,411.20	1/4	2,742.83	1/4	3,074.40
1/2	199.58	1/2	477.35	1/2	774.86	1/2	1,092.07	1/2	1,423.25	1/2	1,754.87	1/2	2,086.49	1/2	2,418.11	1/2	2,749.74	1/2	3,081.31
3/4	205.16	3/4	483.34	3/4	781.26	3/4	1,098.90	3/4	1,430.15	3/4	1,761.78	3/4	2,093.40	3/4	2,425.02	3/4	2,756.64	3/4	3,088.22
10	210.74	10	489.33	10	787.65	10	1,105.72	10	1,437.06	10	1,768.69	10	2,100.31	10	2,431.93	10	2,763.55	10	3,095.13
1/4	216.36	1/4	495.36	1/4	794.08	1/4	1,112.57	1/4	1,443.97	1/4	1,775.59	1/4	2,107.22	1/4	2,438.84	1/4	2,770.46	1/4	3,102.04
1/2	221.97	1/2	501.39	1/2	800.50	1/2	1,119.43	1/2	1,450.88	1/2	1,782.50	1/2	2,114.13	1/2	2,445.75	1/2	2,777.37	1/2	3,108.94
3/4	227.59	3/4	507.42	3/4	806.93	3/4	1,126.29	3/4	1,457.79	3/4	1,789.41	3/4	2,121.03	3/4	2,452.66	3/4	2,784.28	3/4	3,115.85
11	233.20	11	513.45	11	813.35	11	1,133.15	11	1,464.70	11	1,796.32	11	2,127.94	11	2,459.57	11	2,791.18	11	3,122.76
1/4	238.85	1/4	519.51	1/4	819.81	1/4	1,140.04	1/4	1,471.61	1/4	1,803.23	1/4	2,134.85	1/4	2,466.47	1/4	2,798.09	1/4	3,129.67
1/2	244.50	1/2	525.57	1/2	826.27	1/2	1,146.93	1/2	1,478.52	1/2	1,810.14	1/2	2,141.76	1/2	2,473.38	1/2	2,805.00	1/2	3,136.57
3/4	250.15	3/4	531.64	3/4	832.73	3/4	1,153.82	3/4	1,485.43	3/4	1,817.05	3/4	2,148.67	3/4	2,480.29	3/4	2,811.91	3/4	3,143.48

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" 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 77588
<http://www.pmacorp.net>



BARGE "EMS 373"

**1 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	3,150.39	0	3,481.96	0	3,813.54	0	4,144.32	0		0		0		0		0		0	
1/4	3,157.30	1/4	3,488.87	1/4	3,820.45	1/4	4,151.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,164.21	1/2	3,495.78	1/2	3,827.35	1/2	4,158.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,171.11	3/4	3,502.69	3/4	3,834.26	3/4	4,164.92	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,178.02	1	3,509.60	1	3,841.17	1	4,171.79	1		1		1		1		1		1	
1/4	3,184.93	1/4	3,516.50	1/4	3,848.08	1/4	4,178.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,191.84	1/2	3,523.41	1/2	3,854.99	1/2	4,185.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,198.74	3/4	3,530.32	3/4	3,861.89	3/4	4,192.39	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,205.65	2	3,537.23	2	3,868.80	2	4,199.26	2		2		2		2		2		2	
1/4	3,212.56	1/4	3,544.13	1/4	3,875.71	1/4	4,206.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.47	1/2	3,551.04	1/2	3,882.62	1/2	4,213.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.38	3/4	3,557.95	3/4	3,889.52	3/4	4,219.87	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,233.28	3	3,564.86	3	3,896.43	3	4,226.73	3		3		3		3		3		3	
1/4	3,240.19	1/4	3,571.77	1/4	3,903.34	1/4	4,233.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,247.10	1/2	3,578.67	1/2	3,910.25	1/2	4,240.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,254.01	3/4	3,585.58	3/4	3,917.16	3/4	4,247.34	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,260.91	4	3,592.49	4	3,924.06	4	4,254.21	4		4		4		4		4		4	
1/4	3,267.82	1/4	3,599.40	1/4	3,930.97	1/4	4,261.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,274.73	1/2	3,606.30	1/2	3,937.88	1/2	4,267.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,281.64	3/4	3,613.21	3/4	3,944.79	3/4	4,274.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,288.55	5	3,620.12	5	3,951.69	5	4,281.68	5		5		5		5		5		5	
1/4	3,295.45	1/4	3,627.03	1/4	3,958.60	1/4	4,288.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,302.36	1/2	3,633.94	1/2	3,965.51	1/2	4,295.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,309.27	3/4	3,640.84	3/4	3,972.42	3/4	4,302.28	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,316.18	6	3,647.75	6	3,979.33	6	4,309.15	6		6		6		6		6		6	
1/4	3,323.09	1/4	3,654.66	1/4	3,986.23	1/4	4,316.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,329.99	1/2	3,661.57	1/2	3,993.14	1/2	4,322.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,336.90	3/4	3,668.48	3/4	4,000.05	3/4	4,329.75	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,343.81	7	3,675.38	7	4,006.96	7	4,336.62	7		7		7		7		7		7	
1/4	3,350.72	1/4	3,682.29	1/4	4,013.83	1/4	4,343.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,357.62	1/2	3,689.20	1/2	4,020.69	1/2	4,350.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,364.53	3/4	3,696.11	3/4	4,027.56	3/4	4,357.00	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,371.44	8	3,703.01	8	4,034.43	8	4,363.80	8		8		8		8		8		8	
1/4	3,378.35	1/4	3,709.92	1/4	4,041.30	1/4	4,370.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,385.26	1/2	3,716.83	1/2	4,048.17	1/2	4,376.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,392.16	3/4	3,723.74	3/4	4,055.03	3/4	4,383.13	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,399.07	9	3,730.65	9	4,061.90	9	4,389.57	9		9		9		9		9		9	
1/4	3,405.98	1/4	3,737.55	1/4	4,068.77	1/4	4,394.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,412.89	1/2	3,744.46	1/2	4,075.64	1/2	4,400.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,419.79	3/4	3,751.37	3/4	4,082.51	3/4	4,405.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,426.70	10	3,758.28	10	4,089.37	10	=====	10		10		10		10		10		10	
1/4	3,433.61	1/4	3,765.18	1/4	4,096.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,440.52	1/2	3,772.09	1/2	4,103.11	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,447.43	3/4	3,779.00	3/4	4,109.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,454.33	11	3,785.91	11	4,116.85	11		11		11		11		11		11		11	
1/4	3,461.24	1/4	3,792.82	1/4	4,123.71	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,468.15	1/2	3,799.72	1/2	4,130.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,475.06	3/4	3,806.63	3/4	4,137.45	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
REPRINTED: 12/21/2011 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

2 PORT 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	3,879.26	0	4,267.82	0	4,656.38	0	5,044.00	0		0		0		0		0		0	
1/4	3,887.35	1/4	4,275.91	1/4	4,664.47	1/4	5,052.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,895.45	1/2	4,284.01	1/2	4,672.57	1/2	5,060.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,903.54	3/4	4,292.10	3/4	4,680.66	3/4	5,068.14	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,911.64	1	4,300.20	1	4,688.76	1	5,076.19	1		1		1		1		1		1	
1/4	3,919.73	1/4	4,308.29	1/4	4,696.85	1/4	5,084.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,927.83	1/2	4,316.39	1/2	4,704.95	1/2	5,092.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,935.92	3/4	4,324.48	3/4	4,713.04	3/4	5,100.34	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,944.02	2	4,332.58	2	4,721.14	2	5,108.38	2		2		2		2		2		2	
1/4	3,952.11	1/4	4,340.67	1/4	4,729.23	1/4	5,116.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,960.21	1/2	4,348.77	1/2	4,737.33	1/2	5,124.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,968.30	3/4	4,356.86	3/4	4,745.42	3/4	5,132.53	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,976.40	3	4,364.96	3	4,753.52	3	5,140.58	3		3		3		3		3		3	
1/4	3,984.49	1/4	4,373.05	1/4	4,761.61	1/4	5,148.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,992.59	1/2	4,381.15	1/2	4,769.71	1/2	5,156.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,000.68	3/4	4,389.24	3/4	4,777.80	3/4	5,164.72	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,008.78	4	4,397.34	4	4,785.90	4	5,172.77	4		4		4		4		4		4	
1/4	4,016.87	1/4	4,405.43	1/4	4,793.99	1/4	5,180.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,024.97	1/2	4,413.53	1/2	4,802.09	1/2	5,188.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,033.06	3/4	4,421.62	3/4	4,810.18	3/4	5,196.91	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,041.16	5	4,429.72	5	4,818.28	5	5,204.96	5		5		5		5		5		5	
1/4	4,049.25	1/4	4,437.81	1/4	4,826.37	1/4	5,213.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,057.35	1/2	4,445.91	1/2	4,834.47	1/2	5,221.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,065.44	3/4	4,454.00	3/4	4,842.56	3/4	5,229.11	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,073.54	6	4,462.10	6	4,850.66	6	5,237.15	6		6		6		6		6		6	
1/4	4,081.63	1/4	4,470.19	1/4	4,858.75	1/4	5,245.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,089.73	1/2	4,478.29	1/2	4,866.85	1/2	5,253.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,097.82	3/4	4,486.38	3/4	4,874.94	3/4	5,261.30	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,105.92	7	4,494.48	7	4,883.04	7	5,269.35	7		7		7		7		7		7	
1/4	4,114.01	1/4	4,502.57	1/4	4,891.09	1/4	5,277.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,122.11	1/2	4,510.67	1/2	4,899.13	1/2	5,285.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,130.20	3/4	4,518.76	3/4	4,907.18	3/4	5,293.23	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,138.30	8	4,526.86	8	4,915.23	8	5,301.19	8		8		8		8		8		8	
1/4	4,146.39	1/4	4,534.95	1/4	4,923.28	1/4	5,309.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,154.49	1/2	4,543.05	1/2	4,931.33	1/2	5,317.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,162.58	3/4	4,551.14	3/4	4,939.37	3/4	5,325.34	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,170.68	9	4,559.24	9	4,947.42	9	5,333.39	9		9		9		9		9		9	
1/4	4,178.77	1/4	4,567.33	1/4	4,955.47	1/4	5,341.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,186.87	1/2	4,575.43	1/2	4,963.52	1/2	5,349.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,194.96	3/4	4,583.52	3/4	4,971.57	3/4	5,357.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,203.06	10	4,591.62	10	4,979.61	10	5,365.59	10		10		10		10		10		10	
1/4	4,211.15	1/4	4,599.71	1/4	4,987.66	1/4	5,373.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,219.25	1/2	4,607.81	1/2	4,995.71	1/2	5,381.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,227.34	3/4	4,615.90	3/4	5,003.76	3/4	5,389.74	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,235.44	11	4,624.00	11	5,011.81	11	5,397.79	11		11		11		11		11		11	
1/4	4,243.53	1/4	4,632.09	1/4	5,019.86	1/4	5,405.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,251.63	1/2	4,640.19	1/2	5,027.90	1/2	5,413.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,259.72	3/4	4,648.28	3/4	5,035.95	3/4	5,421.94	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 09/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "EMS 373"

2 STBD 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	18.88	0	396.97	0	785.16	0	1,173.65	0	1,562.18	0	1,950.71	0	2,339.24	0	2,727.77	0	3,116.31	0	3,504.83
1/4	24.66	1/4	405.06	1/4	793.24	1/4	1,181.74	1/4	1,570.28	1/4	1,958.81	1/4	2,347.34	1/4	2,735.87	1/4	3,124.40	1/4	3,512.92
1/2	30.44	1/2	413.16	1/2	801.33	1/2	1,189.84	1/2	1,578.37	1/2	1,966.90	1/2	2,355.43	1/2	2,743.96	1/2	3,132.49	1/2	3,521.01
3/4	36.22	3/4	421.25	3/4	809.41	3/4	1,197.93	3/4	1,586.46	3/4	1,975.00	3/4	2,363.53	3/4	2,752.06	3/4	3,140.59	3/4	3,529.11
1	42.00	1	429.35	1	817.50	1	1,206.03	1	1,594.56	1	1,983.09	1	2,371.62	1	2,760.15	1	3,148.68	1	3,537.20
1/4	49.81	1/4	437.44	1/4	825.59	1/4	1,214.12	1/4	1,602.65	1/4	1,991.18	1/4	2,379.72	1/4	2,768.25	1/4	3,156.78	1/4	3,545.29
1/2	57.61	1/2	445.53	1/2	833.68	1/2	1,222.22	1/2	1,610.75	1/2	1,999.28	1/2	2,387.81	1/2	2,776.34	1/2	3,164.87	1/2	3,553.39
3/4	65.41	3/4	453.63	3/4	841.78	3/4	1,230.31	3/4	1,618.84	3/4	2,007.37	3/4	2,395.90	3/4	2,784.44	3/4	3,172.97	3/4	3,561.48
2	73.22	2	461.72	2	849.87	2	1,238.40	2	1,626.94	2	2,015.47	2	2,404.00	2	2,792.53	2	3,181.06	2	3,569.57
1/4	81.31	1/4	469.82	1/4	857.97	1/4	1,246.50	1/4	1,635.03	1/4	2,023.56	1/4	2,412.09	1/4	2,800.62	1/4	3,189.16	1/4	3,577.67
1/2	89.41	1/2	477.91	1/2	866.06	1/2	1,254.59	1/2	1,643.12	1/2	2,031.66	1/2	2,420.19	1/2	2,808.72	1/2	3,197.25	1/2	3,585.76
3/4	97.50	3/4	486.00	3/4	874.16	3/4	1,262.69	3/4	1,651.22	3/4	2,039.75	3/4	2,428.28	3/4	2,816.81	3/4	3,205.34	3/4	3,593.85
3	105.59	3	494.10	3	882.25	3	1,270.78	3	1,659.31	3	2,047.84	3	2,436.38	3	2,824.91	3	3,213.44	3	3,601.95
1/4	113.69	1/4	502.19	1/4	890.35	1/4	1,278.88	1/4	1,667.41	1/4	2,055.94	1/4	2,444.47	1/4	2,833.00	1/4	3,221.53	1/4	3,610.04
1/2	121.78	1/2	510.28	1/2	898.44	1/2	1,286.97	1/2	1,675.50	1/2	2,064.03	1/2	2,452.56	1/2	2,841.10	1/2	3,229.63	1/2	3,618.13
3/4	129.88	3/4	518.38	3/4	906.53	3/4	1,295.07	3/4	1,683.60	3/4	2,072.13	3/4	2,460.66	3/4	2,849.19	3/4	3,237.72	3/4	3,626.23
4	137.97	4	526.47	4	914.63	4	1,303.16	4	1,691.69	4	2,080.22	4	2,468.75	4	2,857.28	4	3,245.82	4	3,634.32
1/4	146.06	1/4	534.57	1/4	922.72	1/4	1,311.25	1/4	1,699.79	1/4	2,088.32	1/4	2,476.85	1/4	2,865.38	1/4	3,253.91	1/4	3,642.41
1/2	154.16	1/2	542.66	1/2	930.82	1/2	1,319.35	1/2	1,707.88	1/2	2,096.41	1/2	2,484.94	1/2	2,873.47	1/2	3,262.00	1/2	3,650.51
3/4	162.25	3/4	550.75	3/4	938.91	3/4	1,327.44	3/4	1,715.97	3/4	2,104.51	3/4	2,493.04	3/4	2,881.57	3/4	3,270.10	3/4	3,658.60
5	170.34	5	558.85	5	947.01	5	1,335.54	5	1,724.07	5	2,112.60	5	2,501.13	5	2,889.66	5	3,278.19	5	3,666.69
1/4	178.44	1/4	566.93	1/4	955.10	1/4	1,343.63	1/4	1,732.16	1/4	2,120.69	1/4	2,509.23	1/4	2,897.76	1/4	3,286.29	1/4	3,674.79
1/2	186.53	1/2	575.01	1/2	963.20	1/2	1,351.73	1/2	1,740.26	1/2	2,128.79	1/2	2,517.32	1/2	2,905.85	1/2	3,294.38	1/2	3,682.88
3/4	194.63	3/4	583.10	3/4	971.29	3/4	1,359.82	3/4	1,748.35	3/4	2,136.88	3/4	2,525.41	3/4	2,913.95	3/4	3,302.48	3/4	3,690.97
6	202.72	6	591.18	6	979.38	6	1,367.92	6	1,756.45	6	2,144.98	6	2,533.51	6	2,922.04	6	3,310.57	6	3,699.07
1/4	210.81	1/4	599.27	1/4	987.48	1/4	1,376.01	1/4	1,764.54	1/4	2,153.07	1/4	2,541.60	1/4	2,930.13	1/4	3,318.67	1/4	3,707.16
1/2	218.91	1/2	607.35	1/2	995.57	1/2	1,384.10	1/2	1,772.64	1/2	2,161.17	1/2	2,549.70	1/2	2,938.23	1/2	3,326.76	1/2	3,715.25
3/4	227.00	3/4	615.43	3/4	1,003.67	3/4	1,392.20	3/4	1,780.73	3/4	2,169.26	3/4	2,557.79	3/4	2,946.32	3/4	3,334.85	3/4	3,723.35
7	235.09	7	623.52	7	1,011.76	7	1,400.29	7	1,788.82	7	2,177.36	7	2,565.89	7	2,954.42	7	3,342.95	7	3,731.44
1/4	243.19	1/4	631.60	1/4	1,019.86	1/4	1,408.39	1/4	1,796.92	1/4	2,185.45	1/4	2,573.98	1/4	2,962.51	1/4	3,351.04	1/4	3,739.53
1/2	251.28	1/2	639.68	1/2	1,027.95	1/2	1,416.48	1/2	1,805.01	1/2	2,193.54	1/2	2,582.08	1/2	2,970.61	1/2	3,359.14	1/2	3,747.63
3/4	259.38	3/4	647.77	3/4	1,036.04	3/4	1,424.58	3/4	1,813.11	3/4	2,201.64	3/4	2,590.17	3/4	2,978.70	3/4	3,367.23	3/4	3,755.72
8	267.47	8	655.85	8	1,044.14	8	1,432.67	8	1,821.20	8	2,209.73	8	2,598.26	8	2,986.80	8	3,375.33	8	3,763.81
1/4	275.56	1/4	663.93	1/4	1,052.23	1/4	1,440.76	1/4	1,829.30	1/4	2,217.83	1/4	2,606.36	1/4	2,994.89	1/4	3,383.42	1/4	3,771.91
1/2	283.66	1/2	672.01	1/2	1,060.33	1/2	1,448.86	1/2	1,837.39	1/2	2,225.92	1/2	2,614.45	1/2	3,002.98	1/2	3,391.52	1/2	3,780.00
3/4	291.75	3/4	680.09	3/4	1,068.42	3/4	1,456.95	3/4	1,845.48	3/4	2,234.02	3/4	2,622.55	3/4	3,011.08	3/4	3,399.61	3/4	3,788.09
9	299.85	9	688.17	9	1,076.52	9	1,465.05	9	1,853.58	9	2,242.11	9	2,630.64	9	3,019.17	9	3,407.70	9	3,796.19
1/4	307.94	1/4	696.25	1/4	1,084.61	1/4	1,473.14	1/4	1,861.67	1/4	2,250.20	1/4	2,638.74	1/4	3,027.27	1/4	3,415.80	1/4	3,804.28
1/2	316.03	1/2	704.33	1/2	1,092.71	1/2	1,481.24	1/2	1,869.77	1/2	2,258.30	1/2	2,646.83	1/2	3,035.36	1/2	3,423.89	1/2	3,812.37
3/4	324.13	3/4	712.41	3/4	1,100.80	3/4	1,489.33	3/4	1,877.86	3/4	2,266.39	3/4	2,654.92	3/4	3,043.46	3/4	3,431.99	3/4	3,820.47
10	332.22	10	720.49	10	1,108.89	10	1,497.43	10	1,885.96	10	2,274.49	10	2,663.02	10	3,051.55	10	3,440.08	10	3,828.56
1/4	340.31	1/4	728.57	1/4	1,116.99	1/4	1,505.52	1/4	1,894.05	1/4	2,282.58	1/4	2,671.11	1/4	3,059.64	1/4	3,448.17	1/4	3,836.65
1/2	348.41	1/2	736.66	1/2	1,125.08	1/2	1,513.61	1/2	1,902.15	1/2	2,290.68	1/2	2,679.21	1/2	3,067.74	1/2	3,456.27	1/2	3,844.75
3/4	356.50	3/4	744.74	3/4	1,133.18	3/4	1,521.71	3/4	1,910.24	3/4	2,298.77	3/4	2,687.30	3/4	3,075.83	3/4	3,464.36	3/4	3,852.84
11	364.60	11	752.82	11	1,141.27	11	1,529.80	11	1,918.33	11	2,306.87	11	2,695.40	11	3,083.93	11	3,472.45	11	3,860.93
1/4	372.69	1/4	760.91	1/4	1,149.37	1/4	1,537.90	1/4	1,926.43	1/4	2,314.96	1/4	2,703.49	1/4	3,092.02	1/4	3,480.55	1/4	3,869.03
1/2	380.78	1/2	768.99	1/2	1,157.46	1/2	1,545.99	1/2	1,934.52	1/2	2,323.05	1/2	2,711.59	1/2	3,100.12	1/2	3,488.64	1/2	3,877.12
3/4	388.88	3/4	777.08	3/4	1,165.56	3/4	1,554.09	3/4	1,942.62	3/4	2,331.15	3/4	2,719.68	3/4	3,108.21	3/4	3,496.73	3/4	3,885.21

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" HERMETIC VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-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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BARGE "EMS 373"

**2 STBD
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	3,893.31	0	4,281.78	0	4,670.26	0	5,057.79	0		0		0		0		0		0	
1/4	3,901.40	1/4	4,289.88	1/4	4,678.36	1/4	5,065.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.49	1/2	4,297.97	1/2	4,686.45	1/2	5,073.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.59	3/4	4,306.06	3/4	4,694.54	3/4	5,081.93	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,925.68	1	4,314.16	1	4,702.64	1	5,089.98	1		1		1		1		1		1	
1/4	3,933.77	1/4	4,322.25	1/4	4,710.73	1/4	5,098.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,941.87	1/2	4,330.34	1/2	4,718.82	1/2	5,106.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,949.96	3/4	4,338.44	3/4	4,726.92	3/4	5,114.12	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,958.05	2	4,346.53	2	4,735.01	2	5,122.16	2		2		2		2		2		2	
1/4	3,966.15	1/4	4,354.62	1/4	4,743.10	1/4	5,130.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.24	1/2	4,362.72	1/2	4,751.20	1/2	5,138.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.33	3/4	4,370.81	3/4	4,759.29	3/4	5,146.30	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,990.43	3	4,378.90	3	4,767.38	3	5,154.34	3		3		3		3		3		3	
1/4	3,998.52	1/4	4,387.00	1/4	4,775.48	1/4	5,162.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,006.61	1/2	4,395.09	1/2	4,783.57	1/2	5,170.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,014.71	3/4	4,403.18	3/4	4,791.66	3/4	5,178.48	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,022.80	4	4,411.28	4	4,799.76	4	5,186.53	4		4		4		4		4		4	
1/4	4,030.89	1/4	4,419.37	1/4	4,807.85	1/4	5,194.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,038.99	1/2	4,427.46	1/2	4,815.94	1/2	5,202.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,047.08	3/4	4,435.56	3/4	4,824.04	3/4	5,210.67	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,055.17	5	4,443.65	5	4,832.13	5	5,218.71	5		5		5		5		5		5	
1/4	4,063.27	1/4	4,451.74	1/4	4,840.22	1/4	5,226.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,071.36	1/2	4,459.84	1/2	4,848.32	1/2	5,234.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,079.45	3/4	4,467.93	3/4	4,856.41	3/4	5,242.85	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,087.55	6	4,476.02	6	4,864.50	6	5,250.90	6		6		6		6		6		6	
1/4	4,095.64	1/4	4,484.12	1/4	4,872.60	1/4	5,258.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,103.73	1/2	4,492.21	1/2	4,880.69	1/2	5,266.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,111.83	3/4	4,500.30	3/4	4,888.78	3/4	5,275.03	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,119.92	7	4,508.40	7	4,896.88	7	5,283.08	7		7		7		7		7		7	
1/4	4,128.01	1/4	4,516.49	1/4	4,904.92	1/4	5,291.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,136.11	1/2	4,524.58	1/2	4,912.97	1/2	5,299.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,144.20	3/4	4,532.68	3/4	4,921.01	3/4	5,306.96	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,152.29	8	4,540.77	8	4,929.06	8	5,314.92	8		8		8		8		8		8	
1/4	4,160.39	1/4	4,548.86	1/4	4,937.11	1/4	5,322.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,168.48	1/2	4,556.96	1/2	4,945.15	1/2	5,330.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,176.57	3/4	4,565.05	3/4	4,953.20	3/4	5,337.56	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,184.67	9	4,573.14	9	4,961.24	9	5,345.11	9		9		9		9		9		9	
1/4	4,192.76	1/4	4,581.24	1/4	4,969.29	1/4	5,351.23	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,200.85	1/2	4,589.33	1/2	4,977.33	1/2	5,357.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,208.95	3/4	4,597.42	3/4	4,985.38	3/4	5,363.47	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,217.04	10	4,605.52	10	4,993.43	10	=====	10		10		10		10		10		10	
1/4	4,225.13	1/4	4,613.61	1/4	5,001.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,233.23	1/2	4,621.70	1/2	5,009.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,241.32	3/4	4,629.80	3/4	5,017.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,249.41	11	4,637.89	11	5,025.61	11		11		11		11		11		11		11	
1/4	4,257.50	1/4	4,645.98	1/4	5,033.66	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,265.60	1/2	4,654.08	1/2	5,041.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,273.69	3/4	4,662.17	3/4	5,049.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
REPRINTED: 12/21/2011 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

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	17.59	0	369.35	0	721.47	0	1,077.95	0	1,439.19	0	1,800.23	0	2,160.75	0	2,522.15	0	2,883.55	0	3,244.59
1/4	22.97	1/4	376.88	1/4	728.71	1/4	1,085.47	1/4	1,446.71	1/4	1,807.74	1/4	2,168.28	1/4	2,529.68	1/4	2,891.07	1/4	3,252.12
1/2	28.35	1/2	384.41	1/2	735.95	1/2	1,093.00	1/2	1,454.24	1/2	1,815.24	1/2	2,175.81	1/2	2,537.21	1/2	2,898.59	1/2	3,259.65
3/4	33.72	3/4	391.94	3/4	743.19	3/4	1,100.53	3/4	1,461.76	3/4	1,822.75	3/4	2,183.34	3/4	2,544.74	3/4	2,906.11	3/4	3,267.18
1	39.10	1	399.47	1	750.43	1	1,108.05	1	1,469.29	1	1,830.25	1	2,190.87	1	2,552.27	1	2,913.63	1	3,274.71
1/4	46.36	1/4	407.00	1/4	757.68	1/4	1,115.58	1/4	1,476.82	1/4	1,837.76	1/4	2,198.40	1/4	2,559.80	1/4	2,921.16	1/4	3,282.23
1/2	53.62	1/2	414.53	1/2	764.93	1/2	1,123.10	1/2	1,484.34	1/2	1,845.27	1/2	2,205.93	1/2	2,567.32	1/2	2,928.68	1/2	3,289.76
3/4	60.89	3/4	422.06	3/4	772.18	3/4	1,130.63	3/4	1,491.87	3/4	1,852.77	3/4	2,213.46	3/4	2,574.85	3/4	2,936.20	3/4	3,297.29
2	68.15	2	429.59	2	779.43	2	1,138.15	2	1,499.39	2	1,860.28	2	2,220.99	2	2,582.38	2	2,943.72	2	3,304.82
1/4	75.68	1/4	437.12	1/4	786.67	1/4	1,145.68	1/4	1,506.92	1/4	1,867.79	1/4	2,228.52	1/4	2,589.91	1/4	2,951.24	1/4	3,312.35
1/2	83.21	1/2	444.65	1/2	793.91	1/2	1,153.21	1/2	1,514.44	1/2	1,875.29	1/2	2,236.04	1/2	2,597.44	1/2	2,958.77	1/2	3,319.87
3/4	90.74	3/4	452.18	3/4	801.14	3/4	1,160.73	3/4	1,521.97	3/4	1,882.80	3/4	2,243.57	3/4	2,604.97	3/4	2,966.29	3/4	3,327.40
3	98.27	3	459.71	3	808.38	3	1,168.26	3	1,529.50	3	1,890.30	3	2,251.10	3	2,612.50	3	2,973.81	3	3,334.93
1/4	105.80	1/4	467.24	1/4	815.62	1/4	1,175.78	1/4	1,537.02	1/4	1,897.81	1/4	2,258.63	1/4	2,620.03	1/4	2,981.33	1/4	3,342.46
1/2	113.33	1/2	474.77	1/2	822.86	1/2	1,183.31	1/2	1,544.55	1/2	1,905.32	1/2	2,266.16	1/2	2,627.56	1/2	2,988.85	1/2	3,349.99
3/4	120.86	3/4	482.30	3/4	830.10	3/4	1,190.84	3/4	1,552.07	3/4	1,912.82	3/4	2,273.69	3/4	2,635.09	3/4	2,996.38	3/4	3,357.52
4	128.39	4	489.83	4	837.34	4	1,198.36	4	1,559.60	4	1,920.33	4	2,281.22	4	2,642.62	4	3,003.90	4	3,365.04
1/4	135.92	1/4	497.07	1/4	844.86	1/4	1,205.89	1/4	1,567.13	1/4	1,927.83	1/4	2,288.75	1/4	2,650.14	1/4	3,011.42	1/4	3,372.57
1/2	143.45	1/2	504.32	1/2	852.37	1/2	1,213.41	1/2	1,574.65	1/2	1,935.34	1/2	2,296.28	1/2	2,657.67	1/2	3,018.94	1/2	3,380.10
3/4	150.98	3/4	511.57	3/4	859.89	3/4	1,220.94	3/4	1,582.18	3/4	1,942.85	3/4	2,303.81	3/4	2,665.20	3/4	3,026.46	3/4	3,387.63
5	158.51	5	518.82	5	867.41	5	1,228.46	5	1,589.70	5	1,950.35	5	2,311.34	5	2,672.73	5	3,033.99	5	3,395.16
1/4	166.04	1/4	526.06	1/4	874.92	1/4	1,235.99	1/4	1,597.23	1/4	1,957.86	1/4	2,318.86	1/4	2,680.26	1/4	3,041.51	1/4	3,401.54
1/2	173.57	1/2	533.30	1/2	882.44	1/2	1,243.52	1/2	1,604.75	1/2	1,965.36	1/2	2,326.39	1/2	2,687.79	1/2	3,049.03	1/2	3,407.93
3/4	181.10	3/4	540.54	3/4	889.96	3/4	1,251.04	3/4	1,612.28	3/4	1,972.87	3/4	2,333.92	3/4	2,695.32	3/4	3,056.55	3/4	3,414.31
6	188.63	6	547.78	6	897.47	6	1,258.57	6	1,619.81	6	1,980.38	6	2,341.45	6	2,702.85	6	3,064.07	6	3,420.69
1/4	196.16	1/4	555.01	1/4	904.99	1/4	1,266.09	1/4	1,627.33	1/4	1,987.88	1/4	2,348.98	1/4	2,710.38	1/4	3,071.59	1/4	3,427.08
1/2	203.69	1/2	562.25	1/2	912.51	1/2	1,273.62	1/2	1,634.86	1/2	1,995.39	1/2	2,356.51	1/2	2,717.91	1/2	3,079.12	1/2	3,433.46
3/4	211.22	3/4	569.49	3/4	920.02	3/4	1,281.14	3/4	1,642.38	3/4	2,002.89	3/4	2,364.04	3/4	2,725.44	3/4	3,086.64	3/4	3,439.85
7	218.75	7	576.73	7	927.54	7	1,288.67	7	1,649.91	7	2,010.40	7	2,371.57	7	2,732.97	7	3,094.16	7	3,446.23
1/4	226.28	1/4	583.97	1/4	935.06	1/4	1,296.20	1/4	1,657.43	1/4	2,017.91	1/4	2,379.10	1/4	2,740.49	1/4	3,101.68	1/4	3,452.62
1/2	233.81	1/2	591.21	1/2	942.57	1/2	1,303.72	1/2	1,664.96	1/2	2,025.41	1/2	2,386.63	1/2	2,748.02	1/2	3,109.20	1/2	3,459.00
3/4	241.34	3/4	598.45	3/4	950.09	3/4	1,311.25	3/4	1,672.49	3/4	2,032.92	3/4	2,394.16	3/4	2,755.55	3/4	3,116.73	3/4	3,465.38
8	248.87	8	605.69	8	957.61	8	1,318.77	8	1,680.01	8	2,040.43	8	2,401.68	8	2,763.08	8	3,124.25	8	3,471.77
1/4	256.40	1/4	612.92	1/4	965.12	1/4	1,326.30	1/4	1,687.54	1/4	2,047.93	1/4	2,409.21	1/4	2,770.61	1/4	3,131.77	1/4	3,478.15
1/2	263.93	1/2	620.16	1/2	972.64	1/2	1,333.83	1/2	1,695.06	1/2	2,055.44	1/2	2,416.74	1/2	2,778.14	1/2	3,139.29	1/2	3,484.54
3/4	271.46	3/4	627.39	3/4	980.16	3/4	1,341.35	3/4	1,702.59	3/4	2,062.94	3/4	2,424.27	3/4	2,785.67	3/4	3,146.81	3/4	3,490.92
9	278.99	9	634.62	9	987.67	9	1,348.88	9	1,710.12	9	2,070.45	9	2,431.80	9	2,793.20	9	3,154.34	9	3,497.31
1/4	286.52	1/4	641.86	1/4	995.19	1/4	1,356.40	1/4	1,717.63	1/4	2,077.97	1/4	2,439.33	1/4	2,800.73	1/4	3,161.86	1/4	3,503.69
1/2	294.05	1/2	649.09	1/2	1,002.71	1/2	1,363.93	1/2	1,725.15	1/2	2,085.49	1/2	2,446.86	1/2	2,808.26	1/2	3,169.38	1/2	3,510.07
3/4	301.58	3/4	656.33	3/4	1,010.23	3/4	1,371.45	3/4	1,732.66	3/4	2,093.00	3/4	2,454.39	3/4	2,815.79	3/4	3,176.90	3/4	3,516.46
10	309.11	10	663.56	10	1,017.74	10	1,378.98	10	1,740.18	10	2,100.52	10	2,461.92	10	2,823.31	10	3,184.42	10	3,522.84
1/4	316.64	1/4	670.80	1/4	1,025.27	1/4	1,386.51	1/4	1,747.69	1/4	2,108.05	1/4	2,469.45	1/4	2,830.84	1/4	3,191.94	1/4	3,529.23
1/2	324.17	1/2	678.04	1/2	1,032.79	1/2	1,394.03	1/2	1,755.19	1/2	2,115.58	1/2	2,476.98	1/2	2,838.37	1/2	3,199.47	1/2	3,535.61
3/4	331.70	3/4	685.28	3/4	1,040.32	3/4	1,401.56	3/4	1,762.70	3/4	2,123.11	3/4	2,484.50	3/4	2,845.90	3/4	3,206.99	3/4	3,541.99
11	339.23	11	692.52	11	1,047.85	11	1,409.08	11	1,770.21	11	2,130.64	11	2,492.03	11	2,853.43	11	3,214.51	11	3,548.38
1/4	346.76	1/4	699.76	1/4	1,055.37	1/4	1,416.61	1/4	1,777.71	1/4	2,138.17	1/4	2,499.56	1/4	2,860.96	1/4	3,222.03	1/4	3,554.76
1/2	354.29	1/2	707.00	1/2	1,062.90	1/2	1,424.13	1/2	1,785.22	1/2	2,145.70	1/2	2,507.09	1/2	2,868.49	1/2	3,229.55	1/2	3,561.15
3/4	361.82	3/4	714.23	3/4	1,070.42	3/4	1,431.66	3/4	1,792.72	3/4	2,153.22	3/4	2,514.62	3/4	2,876.02	3/4	3,237.07	3/4	3,567.53

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" HERMETIC VALVE
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>



BARGE "EMS 373"

3 PORT 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	3,573.92	0	3,880.36	0	4,186.80	0	4,492.51	0		0		0		0		0		0	
1/4	3,580.30	1/4	3,886.74	1/4	4,193.18	1/4	4,498.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.68	1/2	3,893.13	1/2	4,199.57	1/2	4,505.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.07	3/4	3,899.51	3/4	4,205.95	3/4	4,511.56	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,599.45	1	3,905.89	1	4,212.34	1	4,517.91	1		1		1		1		1		1	
1/4	3,605.84	1/4	3,912.28	1/4	4,218.72	1/4	4,524.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,612.22	1/2	3,918.66	1/2	4,225.10	1/2	4,530.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,618.60	3/4	3,925.05	3/4	4,231.49	3/4	4,536.95	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,624.99	2	3,931.43	2	4,237.87	2	4,543.30	2		2		2		2		2		2	
1/4	3,631.37	1/4	3,937.81	1/4	4,244.26	1/4	4,549.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,637.76	1/2	3,944.20	1/2	4,250.64	1/2	4,555.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,644.14	3/4	3,950.58	3/4	4,257.02	3/4	4,562.34	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,650.53	3	3,956.97	3	4,263.41	3	4,568.69	3		3		3		3		3		3	
1/4	3,656.91	1/4	3,963.35	1/4	4,269.79	1/4	4,575.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,663.29	1/2	3,969.74	1/2	4,276.18	1/2	4,581.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,669.68	3/4	3,976.12	3/4	4,282.56	3/4	4,587.73	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,676.06	4	3,982.50	4	4,288.95	4	4,594.08	4		4		4		4		4		4	
1/4	3,682.45	1/4	3,988.89	1/4	4,295.33	1/4	4,600.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.83	1/2	3,995.27	1/2	4,301.71	1/2	4,606.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.22	3/4	4,001.66	3/4	4,308.10	3/4	4,613.12	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,701.60	5	4,008.04	5	4,314.48	5	4,619.47	5		5		5		5		5		5	
1/4	3,707.98	1/4	4,014.43	1/4	4,320.87	1/4	4,625.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.37	1/2	4,020.81	1/2	4,327.25	1/2	4,632.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,720.75	3/4	4,027.19	3/4	4,333.64	3/4	4,638.52	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,727.14	6	4,033.58	6	4,340.02	6	4,644.86	6		6		6		6		6		6	
1/4	3,733.52	1/4	4,039.96	1/4	4,346.40	1/4	4,651.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,739.90	1/2	4,046.35	1/2	4,352.79	1/2	4,657.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.29	3/4	4,052.73	3/4	4,359.17	3/4	4,663.91	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,752.67	7	4,059.11	7	4,365.56	7	4,670.26	7		7		7		7		7		7	
1/4	3,759.06	1/4	4,065.50	1/4	4,371.90	1/4	4,677.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.44	1/2	4,071.88	1/2	4,378.25	1/2	4,685.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.83	3/4	4,078.27	3/4	4,384.60	3/4	4,692.47	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,778.21	8	4,084.65	8	4,390.95	8	4,699.88	8		8		8		8		8		8	
1/4	3,784.59	1/4	4,091.04	1/4	4,397.30	1/4	4,706.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,790.98	1/2	4,097.42	1/2	4,403.64	1/2	4,713.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,797.36	3/4	4,103.80	3/4	4,409.99	3/4	4,720.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,803.75	9	4,110.19	9	4,416.34	9	4,727.96	9		9		9		9		9		9	
1/4	3,810.13	1/4	4,116.57	1/4	4,422.69	1/4	4,733.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,816.52	1/2	4,122.96	1/2	4,429.04	1/2	4,739.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,822.90	3/4	4,129.34	3/4	4,435.38	3/4	4,745.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,829.28	10	4,135.73	10	4,441.73	10	=====	10		10		10		10		10		10	
1/4	3,835.67	1/4	4,142.11	1/4	4,448.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.05	1/2	4,148.49	1/2	4,454.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.44	3/4	4,154.88	3/4	4,460.77	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,854.82	11	4,161.26	11	4,467.12	11		11		11		11		11		11		11	
1/4	3,861.20	1/4	4,167.65	1/4	4,473.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,867.59	1/2	4,174.03	1/2	4,479.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,873.97	3/4	4,180.41	3/4	4,486.17	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
REPRINTED: 12/21/2011 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-09 3/4"

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	17.60	0	368.96	0	722.45	0	1,079.74	0	1,440.62	0	1,800.77	0	2,158.88	0	2,519.62	0	2,880.56	0	3,241.17
1/4	22.98	1/4	376.49	1/4	729.74	1/4	1,087.26	1/4	1,448.14	1/4	1,808.21	1/4	2,166.40	1/4	2,527.14	1/4	2,888.07	1/4	3,248.69
1/2	28.36	1/2	384.01	1/2	737.02	1/2	1,094.78	1/2	1,455.66	1/2	1,815.66	1/2	2,173.92	1/2	2,534.65	1/2	2,895.58	1/2	3,256.21
3/4	33.74	3/4	391.53	3/4	744.31	3/4	1,102.30	3/4	1,463.18	3/4	1,823.10	3/4	2,181.44	3/4	2,542.16	3/4	2,903.10	3/4	3,263.73
1	39.12	1	399.05	1	751.60	1	1,109.81	1	1,470.70	1	1,830.55	1	2,189.97	1	2,549.67	1	2,910.61	1	3,271.25
1/4	46.37	1/4	406.57	1/4	758.89	1/4	1,117.33	1/4	1,478.22	1/4	1,837.99	1/4	2,196.49	1/4	2,557.19	1/4	2,918.12	1/4	3,278.77
1/2	53.62	1/2	414.09	1/2	766.19	1/2	1,124.85	1/2	1,485.73	1/2	1,845.43	1/2	2,204.01	1/2	2,564.71	1/2	2,925.64	1/2	3,286.29
3/4	60.87	3/4	421.61	3/4	773.48	3/4	1,132.37	3/4	1,493.25	3/4	1,852.88	3/4	2,211.53	3/4	2,572.23	3/4	2,933.15	3/4	3,293.81
2	68.12	2	429.13	2	780.78	2	1,139.89	2	1,500.77	2	1,860.32	2	2,219.05	2	2,579.75	2	2,940.66	2	3,301.33
1/4	75.65	1/4	436.65	1/4	788.08	1/4	1,147.41	1/4	1,508.29	1/4	1,867.77	1/4	2,226.57	1/4	2,587.27	1/4	2,948.17	1/4	3,308.85
1/2	83.17	1/2	444.17	1/2	795.37	1/2	1,154.92	1/2	1,515.81	1/2	1,875.21	1/2	2,234.10	1/2	2,594.79	1/2	2,955.69	1/2	3,316.37
3/4	90.69	3/4	451.70	3/4	802.67	3/4	1,162.44	3/4	1,523.33	3/4	1,882.66	3/4	2,241.62	3/4	2,602.31	3/4	2,963.20	3/4	3,323.88
3	98.21	3	459.22	3	809.97	3	1,169.96	3	1,530.84	3	1,890.10	3	2,249.14	3	2,609.83	3	2,970.71	3	3,331.40
1/4	105.73	1/4	466.74	1/4	817.26	1/4	1,177.48	1/4	1,538.36	1/4	1,897.55	1/4	2,256.66	1/4	2,617.35	1/4	2,978.23	1/4	3,338.92
1/2	113.25	1/2	474.26	1/2	824.56	1/2	1,185.00	1/2	1,545.88	1/2	1,904.99	1/2	2,264.18	1/2	2,624.87	1/2	2,985.74	1/2	3,346.44
3/4	120.77	3/4	481.78	3/4	831.86	3/4	1,192.52	3/4	1,553.40	3/4	1,912.44	3/4	2,271.70	3/4	2,632.39	3/4	2,993.25	3/4	3,353.96
4	128.29	4	489.30	4	839.15	4	1,200.03	4	1,560.92	4	1,919.88	4	2,279.23	4	2,639.91	4	3,000.77	4	3,361.48
1/4	135.81	1/4	496.60	1/4	846.67	1/4	1,207.55	1/4	1,568.44	1/4	1,927.33	1/4	2,286.75	1/4	2,647.43	1/4	3,008.28	1/4	3,369.00
1/2	143.33	1/2	503.89	1/2	854.19	1/2	1,215.07	1/2	1,575.95	1/2	1,934.77	1/2	2,294.27	1/2	2,654.95	1/2	3,015.79	1/2	3,376.52
3/4	150.86	3/4	511.19	3/4	861.71	3/4	1,222.59	3/4	1,583.47	3/4	1,942.21	3/4	2,301.79	3/4	2,662.47	3/4	3,023.30	3/4	3,384.04
5	158.38	5	518.49	5	869.23	5	1,230.11	5	1,590.99	5	1,949.66	5	2,309.31	5	2,669.99	5	3,030.82	5	3,391.56
1/4	165.90	1/4	525.77	1/4	876.74	1/4	1,237.63	1/4	1,598.51	1/4	1,957.10	1/4	2,316.82	1/4	2,677.51	1/4	3,038.33	1/4	3,399.94
1/2	173.42	1/2	533.06	1/2	884.26	1/2	1,245.15	1/2	1,606.03	1/2	1,964.55	1/2	2,324.34	1/2	2,685.03	1/2	3,045.84	1/2	3,404.33
3/4	180.94	3/4	540.34	3/4	891.78	3/4	1,252.66	3/4	1,613.55	3/4	1,971.99	3/4	2,331.85	3/4	2,692.55	3/4	3,053.36	3/4	3,410.72
6	188.46	6	547.63	6	899.30	6	1,260.18	6	1,621.06	6	1,979.44	6	2,339.36	6	2,700.07	6	3,060.87	6	3,417.10
1/4	195.98	1/4	554.91	1/4	906.82	1/4	1,267.70	1/4	1,628.58	1/4	1,986.88	1/4	2,346.87	1/4	2,707.59	1/4	3,068.38	1/4	3,423.49
1/2	203.50	1/2	562.20	1/2	914.34	1/2	1,275.22	1/2	1,636.10	1/2	1,994.33	1/2	2,354.38	1/2	2,715.11	1/2	3,075.90	1/2	3,429.88
3/4	211.02	3/4	569.49	3/4	921.85	3/4	1,282.74	3/4	1,643.62	3/4	2,001.77	3/4	2,361.89	3/4	2,722.63	3/4	3,083.41	3/4	3,436.26
7	218.54	7	576.77	7	929.37	7	1,290.26	7	1,651.14	7	2,009.22	7	2,369.40	7	2,730.15	7	3,090.92	7	3,442.65
1/4	226.07	1/4	584.06	1/4	936.89	1/4	1,297.77	1/4	1,658.66	1/4	2,016.66	1/4	2,376.91	1/4	2,737.67	1/4	3,098.43	1/4	3,449.04
1/2	233.59	1/2	591.34	1/2	944.41	1/2	1,305.29	1/2	1,666.18	1/2	2,024.11	1/2	2,384.42	1/2	2,745.19	1/2	3,105.95	1/2	3,455.42
3/4	241.11	3/4	598.63	3/4	951.93	3/4	1,312.81	3/4	1,673.69	3/4	2,031.55	3/4	2,391.94	3/4	2,752.71	3/4	3,113.46	3/4	3,461.81
8	248.63	8	605.92	8	959.45	8	1,320.33	8	1,681.21	8	2,038.99	8	2,399.45	8	2,760.23	8	3,120.97	8	3,468.20
1/4	256.15	1/4	613.20	1/4	966.96	1/4	1,327.85	1/4	1,688.73	1/4	2,046.44	1/4	2,406.96	1/4	2,767.75	1/4	3,128.49	1/4	3,474.58
1/2	263.67	1/2	620.48	1/2	974.48	1/2	1,335.37	1/2	1,696.25	1/2	2,053.88	1/2	2,414.47	1/2	2,775.27	1/2	3,136.00	1/2	3,480.97
3/4	271.19	3/4	627.76	3/4	982.00	3/4	1,342.88	3/4	1,703.77	3/4	2,061.33	3/4	2,421.98	3/4	2,782.79	3/4	3,143.51	3/4	3,487.35
9	278.71	9	635.04	9	989.52	9	1,350.40	9	1,711.29	9	2,068.77	9	2,429.49	9	2,790.31	9	3,151.03	9	3,493.74
1/4	286.23	1/4	642.32	1/4	997.04	1/4	1,357.92	1/4	1,718.77	1/4	2,076.26	1/4	2,437.00	1/4	2,797.84	1/4	3,158.54	1/4	3,500.13
1/2	293.75	1/2	649.60	1/2	1,004.56	1/2	1,365.44	1/2	1,726.25	1/2	2,083.74	1/2	2,444.51	1/2	2,805.36	1/2	3,166.05	1/2	3,506.51
3/4	301.28	3/4	656.88	3/4	1,012.07	3/4	1,372.96	3/4	1,733.73	3/4	2,091.22	3/4	2,452.02	3/4	2,812.88	3/4	3,173.56	3/4	3,512.90
10	308.80	10	664.17	10	1,019.59	10	1,380.48	10	1,741.21	10	2,098.71	10	2,459.54	10	2,820.40	10	3,181.08	10	3,519.29
1/4	316.32	1/4	671.45	1/4	1,027.11	1/4	1,387.99	1/4	1,748.65	1/4	2,106.23	1/4	2,467.05	1/4	2,827.92	1/4	3,188.59	1/4	3,525.67
1/2	323.84	1/2	678.74	1/2	1,034.63	1/2	1,395.51	1/2	1,756.10	1/2	2,113.75	1/2	2,474.56	1/2	2,835.44	1/2	3,196.10	1/2	3,532.06
3/4	331.36	3/4	686.02	3/4	1,042.15	3/4	1,403.03	3/4	1,763.54	3/4	2,121.27	3/4	2,482.07	3/4	2,842.96	3/4	3,203.61	3/4	3,538.45
11	338.88	11	693.31	11	1,049.67	11	1,410.55	11	1,770.99	11	2,128.79	11	2,489.58	11	2,850.48	11	3,211.12	11	3,544.83
1/4	346.40	1/4	700.60	1/4	1,057.19	1/4	1,418.07	1/4	1,778.43	1/4	2,136.31	1/4	2,497.09	1/4	2,858.00	1/4	3,218.64	1/4	3,551.22
1/2	353.92	1/2	707.88	1/2	1,064.70	1/2	1,425.59	1/2	1,785.88	1/2	2,143.84	1/2	2,504.60	1/2	2,865.52	1/2	3,226.15	1/2	3,557.60
3/4	361.44	3/4	715.17	3/4	1,072.22	3/4	1,433.11	3/4	1,793.32	3/4	2,151.36	3/4	2,512.11	3/4	2,873.04	3/4	3,233.66	3/4	3,563.99

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" HERMETIC VALVE
 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
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BARGE "EMS 373"

**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	3,570.38	0	3,876.92	0	4,183.47	0	4,489.29	0		0		0		0		0		0	
1/4	3,576.76	1/4	3,883.31	1/4	4,189.86	1/4	4,495.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,583.15	1/2	3,889.70	1/2	4,196.24	1/2	4,501.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,589.54	3/4	3,896.08	3/4	4,202.63	3/4	4,508.34	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,595.92	1	3,902.47	1	4,209.02	1	4,514.69	1		1		1		1		1		1	
1/4	3,602.31	1/4	3,908.86	1/4	4,215.40	1/4	4,521.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,608.70	1/2	3,915.24	1/2	4,221.79	1/2	4,527.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,615.08	3/4	3,921.63	3/4	4,228.18	3/4	4,533.74	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,621.47	2	3,928.02	2	4,234.56	2	4,540.09	2		2		2		2		2		2	
1/4	3,627.86	1/4	3,934.40	1/4	4,240.95	1/4	4,546.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,634.24	1/2	3,940.79	1/2	4,247.34	1/2	4,552.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,640.63	3/4	3,947.18	3/4	4,253.72	3/4	4,559.14	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,647.01	3	3,953.56	3	4,260.11	3	4,565.49	3		3		3		3		3		3	
1/4	3,653.40	1/4	3,959.95	1/4	4,266.50	1/4	4,571.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,659.79	1/2	3,966.33	1/2	4,272.88	1/2	4,578.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.17	3/4	3,972.72	3/4	4,279.27	3/4	4,584.54	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,672.56	4	3,979.11	4	4,285.65	4	4,590.89	4		4		4		4		4		4	
1/4	3,678.95	1/4	3,985.49	1/4	4,292.04	1/4	4,597.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,685.33	1/2	3,991.88	1/2	4,298.43	1/2	4,603.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.72	3/4	3,998.27	3/4	4,304.81	3/4	4,609.94	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,698.11	5	4,004.65	5	4,311.20	5	4,616.29	5		5		5		5		5		5	
1/4	3,704.49	1/4	4,011.04	1/4	4,317.59	1/4	4,622.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.88	1/2	4,017.43	1/2	4,323.97	1/2	4,628.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.26	3/4	4,023.81	3/4	4,330.36	3/4	4,635.34	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,723.65	6	4,030.20	6	4,336.75	6	4,641.69	6		6		6		6		6		6	
1/4	3,730.04	1/4	4,036.58	1/4	4,343.13	1/4	4,648.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.42	1/2	4,042.97	1/2	4,349.52	1/2	4,654.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,742.81	3/4	4,049.36	3/4	4,355.90	3/4	4,660.74	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,749.20	7	4,055.74	7	4,362.29	7	4,667.09	7		7		7		7		7		7	
1/4	3,755.58	1/4	4,062.13	1/4	4,368.64	1/4	4,674.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,761.97	1/2	4,068.52	1/2	4,374.99	1/2	4,681.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,768.36	3/4	4,074.90	3/4	4,381.34	3/4	4,689.31	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,774.74	8	4,081.29	8	4,387.69	8	4,696.72	8		8		8		8		8		8	
1/4	3,781.13	1/4	4,087.68	1/4	4,394.04	1/4	4,703.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,787.52	1/2	4,094.06	1/2	4,400.39	1/2	4,710.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,793.90	3/4	4,100.45	3/4	4,406.74	3/4	4,717.79	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,800.29	9	4,106.84	9	4,413.09	9	4,724.81	9		9		9		9		9		9	
1/4	3,806.67	1/4	4,113.22	1/4	4,419.44	1/4	4,730.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,813.06	1/2	4,119.61	1/2	4,425.79	1/2	4,736.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,819.45	3/4	4,125.99	3/4	4,432.14	3/4	4,741.90	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,825.83	10	4,132.38	10	4,438.49	10	=====	10		10		10		10		10		10	
1/4	3,832.22	1/4	4,138.77	1/4	4,444.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,838.61	1/2	4,145.15	1/2	4,451.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,844.99	3/4	4,151.54	3/4	4,457.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,851.38	11	4,157.93	11	4,463.89	11		11		11		11		11		11		11	
1/4	3,857.77	1/4	4,164.31	1/4	4,470.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,864.15	1/2	4,170.70	1/2	4,476.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,870.54	3/4	4,177.09	3/4	4,482.94	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
REPRINTED: 12/21/2011 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "EMS 373"

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	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8
2 PORT	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
2 STBD	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-1/2	- 02-1/2
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-1/2	- 02-1/2

(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'-03"

September 23, 2011

PRECISION MEASUREMENT
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BARGE "EMS 373"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	
					4,253.32				3,923.15				3,259.90				2,596.64			2,264.97
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,246.45				3,916.24				3,252.99				2,589.73			2,258.06
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,239.58				3,909.33				3,246.09				2,582.82			2,251.15
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,232.71				3,902.42				3,239.18				2,575.91			2,244.24
1		1		1		1		1		1		1		1		1		1		1
					4,225.85				3,895.51				3,232.27				2,900.65			2,237.33
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,218.98				3,888.60				3,225.36				2,893.74			2,230.42
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,212.11				3,881.69				3,218.45				2,886.83			2,223.51
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,205.24				3,874.79				3,211.54				2,879.92			2,216.60
2		2		2		2		2		2		2		2		2		2		2
					4,198.37				3,867.88				3,204.63				2,873.01			2,209.69
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,191.50				3,860.97				3,197.72				2,866.10			2,202.78
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,184.63				3,854.06				3,190.81				2,859.19			2,195.87
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,177.77				3,847.15				3,183.91				2,852.28			2,188.96
3		3		3		3		3		3		3		3		3		3		3
					4,170.90				3,840.24				3,177.00				2,845.37			2,182.05
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,164.03				3,833.33				3,170.09				2,838.47			2,175.14
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,157.16				3,826.42				3,163.18				2,831.56			2,168.23
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,150.29				3,819.52				3,156.27				2,824.65			2,161.33
4		4		4		4		4		4		4		4		4		4		4
					4,143.42				3,812.61				3,149.36				2,817.74			2,154.42
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,136.55				3,805.70				3,142.45				2,810.83			2,147.51
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,129.69				3,798.79				3,135.54				2,803.92			2,140.60
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,122.82				3,791.88				3,128.64				2,797.01			2,133.69
5		5		5		5		5		5		5		5		5		5		5
					4,115.95				3,784.97				3,121.73				2,790.10			2,126.78
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,109.08				3,778.06				3,114.82				2,783.20			2,119.87
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,102.21				3,771.15				3,107.91				2,776.29			2,112.96
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,095.34				3,764.25				3,101.00				2,769.38			2,106.05
6		6		6		6		6		6		6		6		6		6		6
					4,088.48				3,757.34				3,094.09				2,762.47			2,099.14
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,404.37				4,081.61				3,087.18				2,755.56			2,092.23
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,399.14				4,074.74				3,080.27				2,748.65			2,085.32
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,393.92				4,067.87				3,073.37				2,741.74			2,078.41
7		7		7		7		7		7		7		7		7		7		7
					4,388.69				4,061.00				3,066.46				2,734.83			2,071.50
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,382.25				4,054.13				3,059.55				2,727.92			2,064.59
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,375.81				4,047.26				3,052.64				2,721.01			2,057.68
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,369.36				4,040.40				3,045.73				2,714.10			2,050.77
8		8		8		8		8		8		8		8		8		8		8
					4,362.92				4,033.53				3,038.82				2,707.19			2,043.86
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,356.13				4,026.66				3,031.91				2,700.28			2,036.95
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,349.33				4,019.79				3,025.00				2,693.37			2,030.04
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,342.54				4,012.92				3,018.09				2,686.46			2,023.13
9		9		9		9		9		9		9		9		9		9		9
					4,335.74				4,006.05				3,011.19				2,679.55			2,016.22
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,328.87				3,999.14				3,004.28				2,672.64			2,009.31
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,322.00				3,992.24				2,997.37				2,665.73			2,002.40
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,315.14				3,985.33				2,990.46				2,658.82			1,995.49
10		10		10		10		10		10		10		10		10		10		10
					4,308.27				3,978.42				2,983.55				2,651.91			1,988.58
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,301.40				3,971.51				2,976.64				2,645.00			1,981.67
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
					4,294.53				3,964.60				2,969.73				2,638.09			1,974.76
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
					4,287.66				3,957.69				2,962.82				2,631.18			1,967.85
11		11		11		11		11		11		11		11		11		11		11
					4,280.79				3,950.78				2,955.92				2,624.28			1,960.94
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
					4,273.92				3,943.87				2,9							



BARGE "EMS 373"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04"

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	1,933.31	0	1,601.64	0	1,269.97	0	942.83	0	636.09	0	347.55	0	78.89	0		0		0	
1/4	1,926.40	1/4	1,594.73	1/4	1,263.06	1/4	936.24	1/4	629.89	1/4	341.76	1/4	73.52	1/4	1/4	1/4		1/4	
1/2	1,919.49	1/2	1,587.82	1/2	1,256.15	1/2	929.65	1/2	623.69	1/2	335.97	1/2	68.15	1/2	1/2	1/2		1/2	
3/4	1,912.58	3/4	1,580.91	3/4	1,249.24	3/4	923.05	3/4	617.49	3/4	330.18	3/4	62.78	3/4	3/4	3/4		3/4	
1	1,905.67	1	1,574.00	1	1,242.34	1	916.46	1	611.29	1	324.40	1	57.40	1	1	1		1	
1/4	1,898.76	1/4	1,567.09	1/4	1,235.43	1/4	909.92	1/4	605.12	1/4	318.65	1/4	52.07	1/4	1/4	1/4		1/4	
1/2	1,891.85	1/2	1,560.18	1/2	1,228.52	1/2	903.38	1/2	598.95	1/2	312.89	1/2	46.73	1/2	1/2	1/2		1/2	
3/4	1,884.94	3/4	1,553.27	3/4	1,221.61	3/4	896.84	3/4	592.79	3/4	307.14	3/4	41.39	3/4	3/4	3/4		3/4	
2	1,878.03	2	1,546.36	2	1,214.70	2	890.31	2	586.62	2	301.39	2	36.05	2	2	2		2	
1/4	1,871.12	1/4	1,539.45	1/4	1,207.79	1/4	883.80	1/4	580.49	1/4	295.67	1/4	31.00	1/4	1/4	1/4		1/4	
1/2	1,864.21	1/2	1,532.54	1/2	1,200.88	1/2	877.30	1/2	574.36	1/2	289.95	1/2	25.94	1/2	1/2	1/2		1/2	
3/4	1,857.30	3/4	1,525.63	3/4	1,193.97	3/4	870.79	3/4	568.22	3/4	284.23	3/4	20.88	3/4	3/4	3/4		3/4	
3	1,850.39	3	1,518.72	3	1,187.06	3	864.29	3	562.09	3	278.52	3	15.83	3	3	3		3	
1/4	1,843.48	1/4	1,511.81	1/4	1,180.15	1/4	857.82	1/4	555.99	1/4	272.83	1/4	12.53	1/4	1/4	1/4		1/4	
1/2	1,836.57	1/2	1,504.90	1/2	1,173.24	1/2	851.35	1/2	549.90	1/2	267.15	1/2	9.24	1/2	1/2	1/2		1/2	
3/4	1,829.66	3/4	1,497.99	3/4	1,166.33	3/4	844.88	3/4	543.80	3/4	261.47	3/4	5.94	3/4	3/4	3/4		3/4	
4	1,822.75	4	1,491.08	4	1,159.42	4	838.41	4	537.70	4	255.78	4	2.65	4	4	4		4	
1/4	1,815.84	1/4	1,484.17	1/4	1,152.53	1/4	831.97	1/4	531.64	1/4	250.14	1/4		1/4	1/4	1/4		1/4	
1/2	1,808.93	1/2	1,477.26	1/2	1,145.63	1/2	825.54	1/2	525.57	1/2	244.49	1/2		1/2	1/2	1/2		1/2	
3/4	1,802.02	3/4	1,470.36	3/4	1,138.74	3/4	819.11	3/4	519.51	3/4	238.84	3/4		3/4	3/4	3/4		3/4	
5	1,795.11	5	1,463.45	5	1,131.85	5	812.68	5	513.45	5	233.19	5		5	5	5		5	
1/4	1,788.20	1/4	1,456.54	1/4	1,124.99	1/4	806.28	1/4	507.42	1/4	227.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,781.29	1/2	1,449.63	1/2	1,118.13	1/2	799.89	1/2	501.39	1/2	221.96	1/2		1/2	1/2	1/2		1/2	
3/4	1,774.38	3/4	1,442.72	3/4	1,111.28	3/4	793.49	3/4	495.36	3/4	216.35	3/4		3/4	3/4	3/4		3/4	
6	1,767.47	6	1,435.81	6	1,104.42	6	787.09	6	489.33	6	210.73	6		6	6	6		6	
1/4	1,760.56	1/4	1,428.90	1/4	1,097.59	1/4	780.73	1/4	483.34	1/4	205.15	1/4		1/4	1/4	1/4		1/4	
1/2	1,753.65	1/2	1,421.99	1/2	1,090.77	1/2	774.36	1/2	477.34	1/2	199.57	1/2		1/2	1/2	1/2		1/2	
3/4	1,746.74	3/4	1,415.08	3/4	1,083.95	3/4	767.99	3/4	471.35	3/4	193.99	3/4		3/4	3/4	3/4		3/4	
7	1,739.83	7	1,408.17	7	1,077.12	7	761.63	7	465.36	7	188.41	7		7	7	7		7	
1/4	1,732.92	1/4	1,401.26	1/4	1,070.34	1/4	755.29	1/4	459.40	1/4	182.87	1/4		1/4	1/4	1/4		1/4	
1/2	1,726.01	1/2	1,394.35	1/2	1,063.55	1/2	748.96	1/2	453.44	1/2	177.32	1/2		1/2	1/2	1/2		1/2	
3/4	1,719.10	3/4	1,387.44	3/4	1,056.76	3/4	742.63	3/4	447.48	3/4	171.78	3/4		3/4	3/4	3/4		3/4	
8	1,712.19	8	1,380.53	8	1,049.97	8	736.30	8	441.52	8	166.23	8		8	8	8		8	
1/4	1,705.28	1/4	1,373.62	1/4	1,043.21	1/4	730.00	1/4	435.59	1/4	160.72	1/4		1/4	1/4	1/4		1/4	
1/2	1,698.38	1/2	1,366.71	1/2	1,036.46	1/2	723.70	1/2	429.67	1/2	155.21	1/2		1/2	1/2	1/2		1/2	
3/4	1,691.47	3/4	1,359.80	3/4	1,029.71	3/4	717.40	3/4	423.74	3/4	149.70	3/4		3/4	3/4	3/4		3/4	
9	1,684.56	9	1,352.89	9	1,022.95	9	711.11	9	417.82	9	144.19	9		9	9	9		9	
1/4	1,677.65	1/4	1,345.98	1/4	1,016.23	1/4	704.83	1/4	411.93	1/4	138.72	1/4		1/4	1/4	1/4		1/4	
1/2	1,670.74	1/2	1,339.07	1/2	1,009.51	1/2	698.56	1/2	406.04	1/2	133.24	1/2		1/2	1/2	1/2		1/2	
3/4	1,663.83	3/4	1,332.16	3/4	1,002.79	3/4	692.28	3/4	400.15	3/4	127.76	3/4		3/4	3/4	3/4		3/4	
10	1,656.92	10	1,325.25	10	996.07	10	686.00	10	394.26	10	122.29	10		10	10	10		10	
1/4	1,650.01	1/4	1,318.34	1/4	989.39	1/4	989.39	1/4	388.40	1/4	116.85	1/4		1/4	1/4	1/4		1/4	
1/2	1,643.10	1/2	1,311.43	1/2	982.70	1/2	673.52	1/2	382.54	1/2	111.40	1/2		1/2	1/2	1/2		1/2	
3/4	1,636.19	3/4	1,304.52	3/4	976.02	3/4	667.28	3/4	376.69	3/4	105.96	3/4		3/4	3/4	3/4		3/4	
11	1,629.28	11	1,297.61	11	969.33	11	661.04	11	370.83	11	100.52	11		11	11	11		11	
1/4	1,622.37	1/4	1,290.70	1/4	962.71	1/4	654.80	1/4	365.01	1/4	95.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,615.46	1/2	1,283.79	1/2	956.08	1/2	648.56	1/2	359.19	1/2	89.71	1/2		1/2	1/2	1/2		1/2	
3/4	1,608.55	3/4	1,276.88	3/4	949.45	3/4	642.33	3/4	353.37	3/4	84.30	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
PRINTED: 09/23/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	4,261.07	0	3,930.97	0	3,599.40	0	3,267.82	0	2,936.25	0	2,604.65	0	2,273.03
1/4		1/4		1/4		1/4	4,254.21	1/4	3,924.06	1/4	3,592.49	1/4	3,260.91	1/4	2,929.34	1/4	2,597.74	1/4	2,266.12
1/2		1/2		1/2		1/2	4,247.34	1/2	3,917.16	1/2	3,585.58	1/2	3,254.01	1/2	2,922.43	1/2	2,590.83	1/2	2,259.21
3/4		3/4		3/4		3/4	4,240.47	3/4	3,910.25	3/4	3,578.67	3/4	3,247.10	3/4	2,915.52	3/4	2,583.92	3/4	2,252.30
1		1		1		1	4,233.60	1	3,903.34	1	3,571.77	1	3,240.19	1	2,908.62	1	2,577.02	1	2,245.39
1/4		1/4		1/4		1/4	4,226.73	1/4	3,896.43	1/4	3,564.86	1/4	3,233.28	1/4	2,901.71	1/4	2,570.11	1/4	2,238.48
1/2		1/2		1/2		1/2	4,219.87	1/2	3,889.52	1/2	3,557.95	1/2	3,226.38	1/2	2,894.80	1/2	2,563.20	1/2	2,231.58
3/4		3/4		3/4		3/4	4,213.00	3/4	3,882.62	3/4	3,551.04	3/4	3,219.47	3/4	2,887.89	3/4	2,556.29	3/4	2,224.67
2		2		2		2	4,206.13	2	3,875.71	2	3,544.13	2	3,212.56	2	2,880.99	2	2,549.38	2	2,217.76
1/4		1/4		1/4		1/4	4,199.26	1/4	3,868.80	1/4	3,537.23	1/4	3,205.65	1/4	2,874.08	1/4	2,542.47	1/4	2,210.85
1/2		1/2		1/2		1/2	4,192.39	1/2	3,861.89	1/2	3,530.32	1/2	3,198.74	1/2	2,867.17	1/2	2,535.56	1/2	2,203.94
3/4		3/4		3/4		3/4	4,185.53	3/4	3,854.99	3/4	3,523.41	3/4	3,191.84	3/4	2,860.26	3/4	2,528.65	3/4	2,197.03
3		3		3		3	4,178.66	3	3,848.08	3	3,516.50	3	3,184.93	3	2,853.35	3	2,521.75	3	2,190.12
1/4		1/4		1/4		1/4	4,171.79	1/4	3,841.17	1/4	3,509.60	1/4	3,178.02	1/4	2,846.45	1/4	2,514.84	1/4	2,183.21
1/2		1/2		1/2		1/2	4,164.92	1/2	3,834.26	1/2	3,502.69	1/2	3,171.11	1/2	2,839.54	1/2	2,507.93	1/2	2,176.31
3/4		3/4		3/4		3/4	4,158.05	3/4	3,827.35	3/4	3,495.78	3/4	3,164.21	3/4	2,832.63	3/4	2,501.02	3/4	2,169.40
4		4		4		4	4,151.19	4	3,820.45	4	3,488.87	4	3,157.30	4	2,825.72	4	2,494.11	4	2,162.49
1/4		1/4		1/4		1/4	4,144.32	1/4	3,813.54	1/4	3,481.96	1/4	3,150.39	1/4	2,818.82	1/4	2,487.20	1/4	2,155.58
1/2		1/2		1/2		1/2	4,137.45	1/2	3,806.63	1/2	3,475.06	1/2	3,143.48	1/2	2,811.91	1/2	2,480.29	1/2	2,148.67
3/4		3/4		3/4		3/4	4,130.58	3/4	3,799.72	3/4	3,468.15	3/4	3,136.57	3/4	2,805.00	3/4	2,473.38	3/4	2,141.76
5		5		5		5	4,123.71	5	3,792.82	5	3,461.24	5	3,129.67	5	2,798.09	5	2,466.47	5	2,134.85
1/4		1/4		1/4		1/4	4,116.85	1/4	3,785.91	1/4	3,454.33	1/4	3,122.76	1/4	2,791.18	1/4	2,459.57	1/4	2,127.94
1/2		1/2		1/2		1/2	4,109.98	1/2	3,779.00	1/2	3,447.43	1/2	3,115.85	1/2	2,784.28	1/2	2,452.66	1/2	2,121.03
3/4		3/4		3/4		3/4	4,103.11	3/4	3,772.09	3/4	3,440.52	3/4	3,108.94	3/4	2,777.37	3/4	2,445.75	3/4	2,114.13
6		6		6		6	4,096.24	6	3,765.18	6	3,433.61	6	3,102.04	6	2,770.46	6	2,438.84	6	2,107.22
1/4		1/4		1/4		1/4	4,089.37	1/4	3,758.28	1/4	3,426.70	1/4	3,095.13	1/4	2,763.55	1/4	2,431.93	1/4	2,100.31
1/2		1/2		1/2	4,405.24	1/2	4,082.51	1/2	3,751.37	1/2	3,419.79	1/2	3,088.22	1/2	2,756.64	1/2	2,425.02	1/2	2,093.40
3/4		3/4		3/4	4,400.02	3/4	4,075.64	3/4	3,744.46	3/4	3,412.89	3/4	3,081.31	3/4	2,749.74	3/4	2,418.11	3/4	2,086.49
7		7		7	4,394.79	7	4,068.77	7	3,737.55	7	3,405.98	7	3,074.40	7	2,742.83	7	2,411.20	7	2,079.58
1/4		1/4		1/4	4,389.57	1/4	4,061.90	1/4	3,730.65	1/4	3,399.07	1/4	3,067.50	1/4	2,735.92	1/4	2,404.30	1/4	2,072.67
1/2		1/2		1/2	4,383.13	1/2	4,055.03	1/2	3,723.74	1/2	3,392.16	1/2	3,060.59	1/2	2,729.01	1/2	2,397.39	1/2	2,065.76
3/4		3/4		3/4	4,376.68	3/4	4,048.17	3/4	3,716.83	3/4	3,385.26	3/4	3,053.68	3/4	2,722.10	3/4	2,390.48	3/4	2,058.86
8		8		8	4,370.24	8	4,041.30	8	3,709.92	8	3,378.35	8	3,046.77	8	2,715.19	8	2,383.57	8	2,051.95
1/4		1/4		1/4	4,363.80	1/4	4,034.43	1/4	3,703.01	1/4	3,371.44	1/4	3,039.87	1/4	2,708.28	1/4	2,376.66	1/4	2,045.04
1/2		1/2		1/2	4,357.00	1/2	4,027.56	1/2	3,696.11	1/2	3,364.53	1/2	3,032.96	1/2	2,701.37	1/2	2,369.75	1/2	2,038.13
3/4		3/4		3/4	4,350.21	3/4	4,020.69	3/4	3,689.20	3/4	3,357.62	3/4	3,026.05	3/4	2,694.47	3/4	2,362.84	3/4	2,031.22
9		9		9	4,343.42	9	4,013.83	9	3,682.29	9	3,350.72	9	3,019.14	9	2,687.56	9	2,355.93	9	2,024.31
1/4		1/4		1/4	4,336.62	1/4	4,006.96	1/4	3,675.38	1/4	3,343.81	1/4	3,012.23	1/4	2,680.65	1/4	2,349.03	1/4	2,017.40
1/2		1/2		1/2	4,329.75	1/2	4,000.05	1/2	3,668.47	1/2	3,336.90	1/2	3,005.33	1/2	2,673.74	1/2	2,342.12	1/2	2,010.49
3/4		3/4		3/4	4,322.89	3/4	3,993.14	3/4	3,661.57	3/4	3,329.99	3/4	2,998.42	3/4	2,666.83	3/4	2,335.21	3/4	2,003.59
10		10		10	4,316.02	10	3,986.23	10	3,654.66	10	3,323.08	10	2,991.51	10	2,659.92	10	2,328.30	10	1,996.68
1/4		1/4		1/4	4,309.15	1/4	3,979.33	1/4	3,647.75	1/4	3,316.18	1/4	2,984.60	1/4	2,653.01	1/4	2,321.39	1/4	1,989.77
1/2		1/2		1/2	4,302.28	1/2	3,972.42	1/2	3,640.84	1/2	3,309.27	1/2	2,977.69	1/2	2,646.10	1/2	2,314.48	1/2	1,982.86
3/4		3/4		3/4	4,295.41	3/4	3,965.51	3/4	3,633.94	3/4	3,302.36	3/4	2,970.79	3/4	2,639.19	3/4	2,307.57	3/4	1,975.95
11		11		11	4,288.55	11	3,958.60	11	3,627.03	11	3,295.45	11	2,963.88	11	2,632.29	11	2,300.66	11	1,969.04
1/4		1/4		1/4	4,281.68	1/4	3,951.69	1/4	3,620.12	1/4	3,288.55	1/4	2,956.97	1/4	2,625.38	1/4	2,293.75	1/4	1,962.13
1/2		1/2		1/2	4,274.81	1/2	3,944.79	1/2	3,613.21	1/2	3,281.64	1/2	2,950.06	1/2	2,618.47	1/2	2,286.85	1/2	1,955.22
3/4		3/4		3/4	4,267.94	3/4	3,937.88	3/4	3,606.30	3/4	3,274.73	3/4	2,943.16	3/4	2,611.56	3/4	2,279.94	3/4	1,948.31

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 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 373"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	1,941.41	0	1,609.78	0	1,278.16	0	950.70	0	642.32	0	353.37	0	84.31	0		0		0	
1/4	1,934.50	1/4	1,602.87	1/4	1,271.25	1/4	944.05	1/4	636.09	1/4	347.55	1/4	78.90	1/4	1/4	1/4		1/4	
1/2	1,927.59	1/2	1,595.97	1/2	1,264.34	1/2	937.43	1/2	629.89	1/2	341.77	1/2	73.53	1/2	1/2	1/2		1/2	
3/4	1,920.68	3/4	1,589.06	3/4	1,257.43	3/4	930.82	3/4	623.68	3/4	335.98	3/4	68.16	3/4	3/4	3/4		3/4	
1	1,913.77	1	1,582.15	1	1,250.53	1	924.20	1	617.48	1	330.19	1	62.79	1	1	1		1	
1/4	1,906.86	1/4	1,575.24	1/4	1,243.62	1/4	917.59	1/4	611.28	1/4	324.41	1/4	57.41	1/4	1/4	1/4		1/4	
1/2	1,899.95	1/2	1,568.33	1/2	1,236.71	1/2	911.02	1/2	605.12	1/2	318.65	1/2	52.08	1/2	1/2	1/2		1/2	
3/4	1,893.04	3/4	1,561.42	3/4	1,229.80	3/4	904.45	3/4	598.95	3/4	312.90	3/4	46.74	3/4	3/4	3/4		3/4	
2	1,886.14	2	1,554.51	2	1,222.89	2	897.88	2	592.78	2	307.15	2	41.40	2	2	2		2	
1/4	1,879.23	1/4	1,547.60	1/4	1,215.98	1/4	891.32	1/4	586.62	1/4	301.40	1/4	36.06	1/4	1/4	1/4		1/4	
1/2	1,872.32	1/2	1,540.70	1/2	1,209.07	1/2	884.78	1/2	580.48	1/2	295.68	1/2	31.00	1/2	1/2	1/2		1/2	
3/4	1,865.41	3/4	1,533.79	3/4	1,202.16	3/4	878.25	3/4	574.35	3/4	289.96	3/4	25.95	3/4	3/4	3/4		3/4	
3	1,858.50	3	1,526.88	3	1,195.26	3	871.72	3	568.22	3	284.24	3	20.89	3	3	3		3	
1/4	1,851.59	1/4	1,519.97	1/4	1,188.35	1/4	865.18	1/4	562.09	1/4	278.53	1/4	15.83	1/4	1/4	1/4		1/4	
1/2	1,844.68	1/2	1,513.06	1/2	1,181.44	1/2	858.69	1/2	555.99	1/2	272.84	1/2	12.54	1/2	1/2	1/2		1/2	
3/4	1,837.77	3/4	1,506.15	3/4	1,174.53	3/4	852.19	3/4	549.89	3/4	267.16	3/4	9.25	3/4	3/4	3/4		3/4	
4	1,830.87	4	1,499.24	4	1,167.62	4	845.69	4	543.80	4	261.48	4	5.95	4	4	4		4	
1/4	1,823.96	1/4	1,492.33	1/4	1,160.71	1/4	839.19	1/4	537.70	1/4	255.79	1/4	2.66	1/4	1/4	1/4		1/4	
1/2	1,817.05	1/2	1,485.43	1/2	1,153.82	1/2	832.73	1/2	531.64	1/2	250.15	1/2		1/2	1/2	1/2		1/2	
3/4	1,810.14	3/4	1,478.52	3/4	1,146.93	3/4	826.27	3/4	525.57	3/4	244.50	3/4		3/4	3/4	3/4		3/4	
5	1,803.23	5	1,471.61	5	1,140.04	5	819.81	5	519.51	5	238.85	5		5	5	5		5	
1/4	1,796.32	1/4	1,464.70	1/4	1,133.15	1/4	813.35	1/4	513.45	1/4	233.20	1/4		1/4	1/4	1/4		1/4	
1/2	1,789.41	1/2	1,457.79	1/2	1,126.29	1/2	806.93	1/2	507.42	1/2	227.59	1/2		1/2	1/2	1/2		1/2	
3/4	1,782.50	3/4	1,450.88	3/4	1,119.43	3/4	800.50	3/4	501.39	3/4	221.97	3/4		3/4	3/4	3/4		3/4	
6	1,775.59	6	1,443.97	6	1,112.57	6	794.08	6	495.36	6	216.36	6		6	6	6		6	
1/4	1,768.69	1/4	1,437.06	1/4	1,105.72	1/4	787.65	1/4	489.33	1/4	210.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,761.78	1/2	1,430.15	1/2	1,098.89	1/2	781.26	1/2	483.34	1/2	205.16	1/2		1/2	1/2	1/2		1/2	
3/4	1,754.87	3/4	1,423.25	3/4	1,092.07	3/4	774.86	3/4	477.35	3/4	199.58	3/4		3/4	3/4	3/4		3/4	
7	1,747.96	7	1,416.34	7	1,085.25	7	768.47	7	471.35	7	194.00	7		7	7	7		7	
1/4	1,741.05	1/4	1,409.43	1/4	1,078.43	1/4	762.07	1/4	465.36	1/4	188.42	1/4		1/4	1/4	1/4		1/4	
1/2	1,734.14	1/2	1,402.52	1/2	1,071.64	1/2	755.71	1/2	459.40	1/2	182.88	1/2		1/2	1/2	1/2		1/2	
3/4	1,727.23	3/4	1,395.61	3/4	1,064.85	3/4	749.35	3/4	453.44	3/4	177.33	3/4		3/4	3/4	3/4		3/4	
8	1,720.32	8	1,388.70	8	1,058.06	8	742.99	8	447.48	8	171.79	8		8	8	8		8	
1/4	1,713.42	1/4	1,381.79	1/4	1,051.28	1/4	736.63	1/4	441.52	1/4	166.24	1/4		1/4	1/4	1/4		1/4	
1/2	1,706.51	1/2	1,374.88	1/2	1,044.52	1/2	730.30	1/2	435.60	1/2	160.73	1/2		1/2	1/2	1/2		1/2	
3/4	1,699.60	3/4	1,367.98	3/4	1,037.77	3/4	723.98	3/4	429.67	3/4	155.22	3/4		3/4	3/4	3/4		3/4	
9	1,692.69	9	1,361.07	9	1,031.01	9	717.65	9	423.75	9	149.71	9		9	9	9		9	
1/4	1,685.78	1/4	1,354.16	1/4	1,024.26	1/4	711.33	1/4	417.82	1/4	144.20	1/4		1/4	1/4	1/4		1/4	
1/2	1,678.87	1/2	1,347.25	1/2	1,017.54	1/2	705.02	1/2	411.93	1/2	138.73	1/2		1/2	1/2	1/2		1/2	
3/4	1,671.96	3/4	1,340.34	3/4	1,010.82	3/4	698.72	3/4	406.04	3/4	133.25	3/4		3/4	3/4	3/4		3/4	
10	1,665.05	10	1,333.43	10	1,004.10	10	692.41	10	400.15	10	127.77	10		10	10	10		10	
1/4	1,658.15	1/4	1,326.52	1/4	997.39	1/4	686.11	1/4	394.26	1/4	122.30	1/4		1/4	1/4	1/4		1/4	
1/2	1,651.24	1/2	1,319.61	1/2	990.70	1/2	679.84	1/2	388.41	1/2	116.86	1/2		1/2	1/2	1/2		1/2	
3/4	1,644.33	3/4	1,312.71	3/4	984.02	3/4	673.57	3/4	382.55	3/4	111.41	3/4		3/4	3/4	3/4		3/4	
11	1,637.42	11	1,305.80	11	977.33	11	667.30	11	376.69	11	105.97	11		11	11	11		11	
1/4	1,630.51	1/4	1,298.89	1/4	970.65	1/4	661.03	1/4	370.84	1/4	100.53	1/4		1/4	1/4	1/4		1/4	
1/2	1,623.60	1/2	1,291.98	1/2	964.00	1/2	654.79	1/2	365.02	1/2	95.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,616.69	3/4	1,285.07	3/4	957.35	3/4	648.56	3/4	359.20	3/4	89.72	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
PRINTED: 09/23/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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
1/4		1/4		1/4		1/4	5,172.77	1/4	4,785.90	1/4	4,397.34	1/4	4,008.78	1/4	3,620.22	1/4	3,231.63	1/4	2,843.01		
1/2		1/2		1/2		1/2	5,164.72	1/2	4,777.80	1/2	4,389.24	1/2	4,000.68	1/2	3,612.12	1/2	3,223.53	1/2	2,834.92		
3/4		3/4		3/4		3/4	5,156.67	3/4	4,769.71	3/4	4,381.15	3/4	3,992.59	3/4	3,604.03	3/4	3,215.44	3/4	2,826.82		
1	1	1	1	1	1	1	5,148.63	1	4,761.61	1	4,373.05	1	3,984.49	1	3,595.93	1	3,207.34	1	2,818.72		
1/4		1/4		1/4		1/4	5,140.58	1/4	4,753.52	1/4	4,364.96	1/4	3,976.40	1/4	3,587.84	1/4	3,199.24	1/4	2,810.63		
1/2		1/2		1/2		1/2	5,132.53	1/2	4,745.42	1/2	4,356.86	1/2	3,968.30	1/2	3,579.74	1/2	3,191.15	1/2	2,802.53		
3/4		3/4		3/4		3/4	5,124.48	3/4	4,737.33	3/4	4,348.77	3/4	3,960.21	3/4	3,571.65	3/4	3,183.05	3/4	2,794.43		
2	2	2	2	2	2	2	5,116.43	2	4,729.23	2	4,340.67	2	3,952.11	2	3,563.55	2	3,174.96	2	2,786.34		
1/4		1/4		1/4		1/4	5,108.38	1/4	4,721.14	1/4	4,332.58	1/4	3,944.02	1/4	3,555.46	1/4	3,166.86	1/4	2,778.24		
1/2		1/2		1/2		1/2	5,100.34	1/2	4,713.04	1/2	4,324.48	1/2	3,935.92	1/2	3,547.36	1/2	3,158.76	1/2	2,770.15		
3/4		3/4		3/4		3/4	5,092.29	3/4	4,704.95	3/4	4,316.39	3/4	3,927.83	3/4	3,539.27	3/4	3,150.67	3/4	2,762.05		
3	3	3	3	3	3	3	5,084.24	3	4,696.85	3	4,308.29	3	3,919.73	3	3,531.17	3	3,142.57	3	2,753.95		
1/4		1/4		1/4		1/4	5,076.19	1/4	4,688.76	1/4	4,300.20	1/4	3,911.64	1/4	3,523.08	1/4	3,134.47	1/4	2,745.86		
1/2		1/2		1/2		1/2	5,068.14	1/2	4,680.66	1/2	4,292.10	1/2	3,903.54	1/2	3,514.98	1/2	3,126.38	1/2	2,737.76		
3/4		3/4		3/4		3/4	5,060.10	3/4	4,672.57	3/4	4,284.01	3/4	3,895.45	3/4	3,506.89	3/4	3,118.28	3/4	2,729.66		
4	4	4	4	4	4	4	5,052.05	4	4,664.47	4	4,275.91	4	3,887.35	4	3,498.79	4	3,110.19	4	2,721.57		
1/4		1/4		1/4		1/4	5,044.00	1/4	4,656.38	1/4	4,267.82	1/4	3,879.26	1/4	3,490.70	1/4	3,102.09	1/4	2,713.47		
1/2		1/2		1/2		1/2	5,035.95	1/2	4,648.28	1/2	4,259.72	1/2	3,871.16	1/2	3,482.60	1/2	3,093.99	1/2	2,705.38		
3/4		3/4		3/4		3/4	5,027.90	3/4	4,640.19	3/4	4,251.63	3/4	3,863.07	3/4	3,474.51	3/4	3,085.90	3/4	2,697.28		
5	5	5	5	5	5	5	5,019.86	5	4,632.09	5	4,243.53	5	3,854.97	5	3,466.41	5	3,077.80	5	2,689.18		
1/4		1/4		1/4		1/4	5,011.81	1/4	4,624.00	1/4	4,235.44	1/4	3,846.88	1/4	3,458.32	1/4	3,069.70	1/4	2,681.09		
1/2		1/2		1/2		1/2	5,003.76	1/2	4,615.90	1/2	4,227.34	1/2	3,838.78	1/2	3,450.22	1/2	3,061.61	1/2	2,672.99		
3/4		3/4		3/4		3/4	4,995.71	3/4	4,607.81	3/4	4,219.25	3/4	3,830.69	3/4	3,442.13	3/4	3,053.51	3/4	2,664.89		
6	6	6	6	6	6	6	4,987.66	6	4,599.71	6	4,211.15	6	3,822.59	6	3,434.03	6	3,045.42	6	2,656.80		
1/4		1/4		1/4		1/4	4,979.61	1/4	4,591.62	1/4	4,203.06	1/4	3,814.50	1/4	3,425.94	1/4	3,037.32	1/4	2,648.70		
1/2		1/2		1/2	5,349.75	1/2	4,971.57	1/2	4,583.52	1/2	4,194.96	1/2	3,806.40	1/2	3,417.84	1/2	3,029.22	1/2	2,640.61		
3/4		3/4		3/4	5,343.63	3/4	4,963.52	3/4	4,575.43	3/4	4,186.87	3/4	3,798.31	3/4	3,409.75	3/4	3,021.13	3/4	2,632.51		
7	7	7	7	7	5,337.51	7	4,955.47	7	4,567.33	7	4,178.77	7	3,790.21	7	3,401.65	7	3,013.03	7	2,624.41		
1/4		1/4		1/4	5,331.39	1/4	4,947.42	1/4	4,559.24	1/4	4,170.68	1/4	3,782.12	1/4	3,393.55	1/4	3,004.94	1/4	2,616.32		
1/2		1/2		1/2	5,323.84	1/2	4,939.37	1/2	4,551.14	1/2	4,162.58	1/2	3,774.02	1/2	3,385.46	1/2	2,996.84	1/2	2,608.22		
3/4		3/4		3/4	5,316.29	3/4	4,931.33	3/4	4,543.05	3/4	4,154.49	3/4	3,765.93	3/4	3,377.36	3/4	2,988.74	3/4	2,600.13		
8	8	8	8	8	5,308.74	8	4,923.28	8	4,534.95	8	4,146.39	8	3,757.83	8	3,369.26	8	2,980.65	8	2,592.03		
1/4		1/4		1/4	5,301.19	1/4	4,915.23	1/4	4,526.86	1/4	4,138.30	1/4	3,749.74	1/4	3,361.17	1/4	2,972.55	1/4	2,583.93		
1/2		1/2		1/2	5,293.23	1/2	4,907.18	1/2	4,518.76	1/2	4,130.20	1/2	3,741.64	1/2	3,353.07	1/2	2,964.45	1/2	2,575.84		
3/4		3/4		3/4	5,285.27	3/4	4,899.13	3/4	4,510.67	3/4	4,122.11	3/4	3,733.55	3/4	3,344.98	3/4	2,956.36	3/4	2,567.74		
9	9	9	9	9	5,277.31	9	4,891.09	9	4,502.57	9	4,114.01	9	3,725.45	9	3,336.88	9	2,948.26	9	2,559.64		
1/4		1/4		1/4	5,269.35	1/4	4,883.04	1/4	4,494.48	1/4	4,105.92	1/4	3,717.36	1/4	3,328.78	1/4	2,940.17	1/4	2,551.55		
1/2		1/2		1/2	5,261.30	1/2	4,874.94	1/2	4,486.38	1/2	4,097.82	1/2	3,709.26	1/2	3,320.69	1/2	2,932.07	1/2	2,543.45		
3/4		3/4		3/4	5,253.25	3/4	4,866.85	3/4	4,478.29	3/4	4,089.73	3/4	3,701.17	3/4	3,312.59	3/4	2,923.97	3/4	2,535.36		
10	10	10	10	10	5,245.20	10	4,858.75	10	4,470.19	10	4,081.63	10	3,693.07	10	3,304.49	10	2,915.88	10	2,527.26		
1/4		1/4		1/4	5,237.15	1/4	4,850.66	1/4	4,462.10	1/4	4,073.54	1/4	3,684.98	1/4	3,296.40	1/4	2,907.78	1/4	2,519.16		
1/2		1/2		1/2	5,229.11	1/2	4,842.56	1/2	4,454.00	1/2	4,065.44	1/2	3,676.88	1/2	3,288.30	1/2	2,899.68	1/2	2,511.07		
3/4		3/4		3/4	5,221.06	3/4	4,834.47	3/4	4,445.91	3/4	4,057.35	3/4	3,668.79	3/4	3,280.21	3/4	2,891.59	3/4	2,502.97		
11	11	11	11	11	5,213.01	11	4,826.37	11	4,437.81	11	4,049.25	11	3,660.69	11	3,272.11	11	2,883.49	11	2,494.87		
1/4		1/4		1/4	5,204.96	1/4	4,818.28	1/4	4,429.72	1/4	4,041.16	1/4	3,652.60	1/4	3,264.01	1/4	2,875.40	1/4	2,486.78		
1/2		1/2		1/2	5,196.91	1/2	4,810.18	1/2	4,421.62	1/2	4,033.06	1/2	3,644.50	1/2	3,255.92	1/2	2,867.30	1/2	2,478.68		
3/4		3/4		3/4	5,188.87	3/4	4,802.09	3/4	4,413.53	3/4	4,024.97	3/4	3,636.41	3/4	3,247.82	3/4	2,859.20	3/4	2,470.59		

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 43'-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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BARGE "EMS 373"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	2,462.49	0	2,073.87	0	1,685.25	0	1,296.64	0	908.02	0	534.37	0	146.10	0		0		0	
1/4	2,454.39	1/4	2,065.78	1/4	1,677.16	1/4	1,288.54	1/4	899.92	1/4	526.59	1/4	138.00	1/4	1/4	1/4		1/4	1/4
1/2	2,446.30	1/2	2,057.68	1/2	1,669.06	1/2	1,280.44	1/2	892.13	1/2	518.49	1/2	129.90	1/2	1/2	1/2		1/2	1/2
3/4	2,438.20	3/4	2,049.58	3/4	1,660.97	3/4	1,272.35	3/4	884.34	3/4	510.40	3/4	121.81	3/4	3/4	3/4		3/4	3/4
1	2,430.11	1	2,041.49	1	1,652.87	1	1,264.25	1	876.55	1	502.30	1	113.71	1	1	1		1	1
1/4	2,422.01	1/4	2,033.39	1/4	1,644.77	1/4	1,256.16	1/4	868.76	1/4	494.21	1/4	105.62	1/4	1/4	1/4		1/4	1/4
1/2	2,413.91	1/2	2,025.30	1/2	1,636.68	1/2	1,248.06	1/2	860.97	1/2	486.11	1/2	97.52	1/2	1/2	1/2		1/2	1/2
3/4	2,405.82	3/4	2,017.20	3/4	1,628.58	3/4	1,239.96	3/4	853.18	3/4	478.01	3/4	89.43	3/4	3/4	3/4		3/4	3/4
2	2,397.72	2	2,009.10	2	1,620.49	2	1,231.87	2	845.39	2	469.92	2	81.33	2	2	2		2	2
1/4	2,389.62	1/4	2,001.01	1/4	1,612.39	1/4	1,223.77	1/4	837.60	1/4	461.82	1/4	73.23	1/4	1/4	1/4		1/4	1/4
1/2	2,381.53	1/2	1,992.91	1/2	1,604.29	1/2	1,215.68	1/2	829.82	1/2	453.73	1/2	65.13	1/2	1/2	1/2		1/2	1/2
3/4	2,373.43	3/4	1,984.81	3/4	1,596.20	3/4	1,207.58	3/4	822.03	3/4	445.63	3/4	57.02	3/4	3/4	3/4		3/4	3/4
3	2,365.34	3	1,976.72	3	1,588.10	3	1,199.48	3	814.25	3	437.54	3	48.92	3	3	3		3	3
1/4	2,357.24	1/4	1,968.62	1/4	1,580.00	1/4	1,191.39	1/4	806.46	1/4	429.44	1/4	40.81	1/4	1/4	1/4		1/4	1/4
1/2	2,349.14	1/2	1,960.53	1/2	1,571.91	1/2	1,183.29	1/2	798.69	1/2	421.35	1/2	32.73	1/2	1/2	1/2		1/2	1/2
3/4	2,341.05	3/4	1,952.43	3/4	1,563.81	3/4	1,175.19	3/4	790.91	3/4	413.25	3/4	24.65	3/4	3/4	3/4		3/4	3/4
4	2,332.95	4	1,944.33	4	1,555.72	4	1,167.10	4	783.14	4	405.15	4	18.88	4	4	4		4	4
1/4	2,324.85	1/4	1,936.24	1/4	1,547.62	1/4	1,159.00	1/4	775.37	1/4	397.06	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,316.76	1/2	1,928.14	1/2	1,539.52	1/2	1,150.91	1/2	767.59	1/2	388.96	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,308.66	3/4	1,920.04	3/4	1,531.43	3/4	1,142.81	3/4	759.82	3/4	380.87	3/4		3/4	3/4	3/4		3/4	3/4
5	2,300.57	5	1,911.95	5	1,523.33	5	1,134.71	5	752.04	5	372.77	5		5	5	5		5	5
1/4	2,292.47	1/4	1,903.85	1/4	1,515.23	1/4	1,126.62	1/4	744.27	1/4	364.68	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,284.37	1/2	1,895.76	1/2	1,507.14	1/2	1,118.52	1/2	736.49	1/2	356.58	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,276.28	3/4	1,887.66	3/4	1,499.04	3/4	1,110.42	3/4	728.72	3/4	348.49	3/4		3/4	3/4	3/4		3/4	3/4
6	2,268.18	6	1,879.56	6	1,490.95	6	1,102.33	6	720.95	6	340.39	6		6	6	6		6	6
1/4	2,260.08	1/4	1,871.47	1/4	1,482.85	1/4	1,094.23	1/4	713.17	1/4	332.29	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,251.99	1/2	1,863.37	1/2	1,474.75	1/2	1,086.14	1/2	705.40	1/2	324.20	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,243.89	3/4	1,855.27	3/4	1,466.66	3/4	1,078.04	3/4	697.63	3/4	316.10	3/4		3/4	3/4	3/4		3/4	3/4
7	2,235.80	7	1,847.18	7	1,458.56	7	1,069.94	7	689.86	7	308.01	7		7	7	7		7	7
1/4	2,227.70	1/4	1,839.08	1/4	1,450.46	1/4	1,061.85	1/4	682.09	1/4	299.91	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,219.60	1/2	1,830.99	1/2	1,442.37	1/2	1,053.75	1/2	674.32	1/2	291.82	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,211.51	3/4	1,822.89	3/4	1,434.27	3/4	1,045.65	3/4	666.55	3/4	283.72	3/4		3/4	3/4	3/4		3/4	3/4
8	2,203.41	8	1,814.79	8	1,426.18	8	1,037.56	8	658.78	8	275.62	8		8	8	8		8	8
1/4	2,195.32	1/4	1,806.70	1/4	1,418.08	1/4	1,029.46	1/4	651.01	1/4	267.53	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,187.22	1/2	1,798.60	1/2	1,409.98	1/2	1,021.37	1/2	643.24	1/2	259.43	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,179.12	3/4	1,790.51	3/4	1,401.89	3/4	1,013.27	3/4	635.46	3/4	251.34	3/4		3/4	3/4	3/4		3/4	3/4
9	2,171.03	9	1,782.41	9	1,393.79	9	1,005.17	9	627.69	9	243.24	9		9	9	9		9	9
1/4	2,162.93	1/4	1,774.31	1/4	1,385.70	1/4	997.08	1/4	619.92	1/4	235.15	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,154.83	1/2	1,766.22	1/2	1,377.60	1/2	988.98	1/2	612.14	1/2	227.05	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,146.74	3/4	1,758.12	3/4	1,369.50	3/4	980.89	3/4	604.37	3/4	218.96	3/4		3/4	3/4	3/4		3/4	3/4
10	2,138.64	10	1,750.02	10	1,361.41	10	972.79	10	596.59	10	210.86	10		10	10	10		10	10
1/4	2,130.55	1/4	1,741.93	1/4	1,353.31	1/4	964.69	1/4	588.82	1/4	202.76	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,122.45	1/2	1,733.83	1/2	1,345.21	1/2	956.60	1/2	581.04	1/2	194.67	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,114.35	3/4	1,725.74	3/4	1,337.12	3/4	948.50	3/4	573.27	3/4	186.57	3/4		3/4	3/4	3/4		3/4	3/4
11	2,106.26	11	1,717.64	11	1,329.02	11	940.40	11	565.50	11	178.48	11		11	11	11		11	11
1/4	2,098.16	1/4	1,709.54	1/4	1,320.93	1/4	932.31	1/4	557.72	1/4	170.38	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,090.06	1/2	1,701.45	1/2	1,312.83	1/2	924.21	1/2	549.94	1/2	162.29	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,081.97	3/4	1,693.35	3/4	1,304.73	3/4	916.12	3/4	542.16	3/4	154.19	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
PRINTED: 09/23/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

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	5,202.62	0	4,815.94	0	4,427.46	0	4,038.99	0	3,650.51	0	3,262.00	0	2,873.47
1/4		1/4		1/4		1/4	5,194.57	1/4	4,807.85	1/4	4,419.37	1/4	4,030.89	1/4	3,642.41	1/4	3,253.91	1/4	2,865.38
1/2		1/2		1/2		1/2	5,186.53	1/2	4,799.76	1/2	4,411.28	1/2	4,022.80	1/2	3,634.32	1/2	3,245.82	1/2	2,857.28
3/4		3/4		3/4		3/4	5,178.48	3/4	4,791.66	3/4	4,403.18	3/4	4,014.71	3/4	3,626.23	3/4	3,237.72	3/4	2,849.19
1		1		1		1	5,170.44	1	4,783.57	1	4,395.09	1	4,006.61	1	3,618.13	1	3,229.63	1	2,841.10
1/4		1/4		1/4		1/4	5,162.39	1/4	4,775.48	1/4	4,387.00	1/4	3,998.52	1/4	3,610.04	1/4	3,221.53	1/4	2,833.00
1/2		1/2		1/2		1/2	5,154.34	1/2	4,767.38	1/2	4,378.90	1/2	3,990.43	1/2	3,601.95	1/2	3,213.44	1/2	2,824.91
3/4		3/4		3/4		3/4	5,146.30	3/4	4,759.29	3/4	4,370.81	3/4	3,982.33	3/4	3,593.85	3/4	3,205.34	3/4	2,816.81
2		2		2		2	5,138.25	2	4,751.20	2	4,362.72	2	3,974.24	2	3,585.76	2	3,197.25	2	2,808.72
1/4		1/4		1/4		1/4	5,130.21	1/4	4,743.10	1/4	4,354.62	1/4	3,966.15	1/4	3,577.67	1/4	3,189.16	1/4	2,800.62
1/2		1/2		1/2		1/2	5,122.16	1/2	4,735.01	1/2	4,346.53	1/2	3,958.05	1/2	3,569.57	1/2	3,181.06	1/2	2,792.53
3/4		3/4		3/4		3/4	5,114.12	3/4	4,726.92	3/4	4,338.44	3/4	3,949.96	3/4	3,561.48	3/4	3,172.97	3/4	2,784.44
3		3		3		3	5,106.07	3	4,718.82	3	4,330.34	3	3,941.87	3	3,553.39	3	3,164.87	3	2,776.34
1/4		1/4		1/4		1/4	5,098.02	1/4	4,710.73	1/4	4,322.25	1/4	3,933.77	1/4	3,545.29	1/4	3,156.78	1/4	2,768.25
1/2		1/2		1/2		1/2	5,089.98	1/2	4,702.64	1/2	4,314.16	1/2	3,925.68	1/2	3,537.20	1/2	3,148.68	1/2	2,760.15
3/4		3/4		3/4		3/4	5,081.93	3/4	4,694.54	3/4	4,306.06	3/4	3,917.59	3/4	3,529.11	3/4	3,140.59	3/4	2,752.06
4		4		4		4	5,073.89	4	4,686.45	4	4,297.97	4	3,909.49	4	3,521.01	4	3,132.49	4	2,743.96
1/4		1/4		1/4		1/4	5,065.84	1/4	4,678.36	1/4	4,289.88	1/4	3,901.40	1/4	3,512.92	1/4	3,124.40	1/4	2,735.87
1/2		1/2		1/2		1/2	5,057.79	1/2	4,670.26	1/2	4,281.78	1/2	3,893.31	1/2	3,504.83	1/2	3,116.31	1/2	2,727.77
3/4		3/4		3/4		3/4	5,049.75	3/4	4,662.17	3/4	4,273.69	3/4	3,885.21	3/4	3,496.73	3/4	3,108.21	3/4	2,719.68
5		5		5		5	5,041.70	5	4,654.08	5	4,265.60	5	3,877.12	5	3,488.64	5	3,100.12	5	2,711.59
1/4		1/4		1/4		1/4	5,033.66	1/4	4,645.98	1/4	4,257.50	1/4	3,869.03	1/4	3,480.55	1/4	3,092.02	1/4	2,703.49
1/2		1/2		1/2		1/2	5,025.61	1/2	4,637.89	1/2	4,249.41	1/2	3,860.93	1/2	3,472.45	1/2	3,083.93	1/2	2,695.40
3/4		3/4		3/4		3/4	5,017.56	3/4	4,629.80	3/4	4,241.32	3/4	3,852.84	3/4	3,464.36	3/4	3,075.83	3/4	2,687.30
6		6		6		6	5,009.52	6	4,621.70	6	4,233.23	6	3,844.75	6	3,456.27	6	3,067.74	6	2,679.21
1/4		1/4		1/4		1/4	5,001.47	1/4	4,613.61	1/4	4,225.13	1/4	3,836.65	1/4	3,448.17	1/4	3,059.64	1/4	2,671.11
1/2		1/2		1/2		1/2	4,993.43	1/2	4,605.52	1/2	4,217.04	1/2	3,828.56	1/2	3,440.08	1/2	3,051.55	1/2	2,663.02
3/4		3/4		3/4	5,363.47	3/4	4,985.38	3/4	4,597.42	3/4	4,208.95	3/4	3,820.47	3/4	3,431.99	3/4	3,043.46	3/4	2,654.92
7		7		7	5,357.35	7	4,977.33	7	4,589.33	7	4,200.85	7	3,812.37	7	3,423.89	7	3,035.36	7	2,646.83
1/4		1/4		1/4	5,351.23	1/4	4,969.29	1/4	4,581.24	1/4	4,192.76	1/4	3,804.28	1/4	3,415.80	1/4	3,027.27	1/4	2,638.74
1/2		1/2		1/2	5,345.11	1/2	4,961.24	1/2	4,573.14	1/2	4,184.67	1/2	3,796.19	1/2	3,407.70	1/2	3,019.17	1/2	2,630.64
3/4		3/4		3/4	5,337.56	3/4	4,953.20	3/4	4,565.05	3/4	4,176.57	3/4	3,788.09	3/4	3,399.61	3/4	3,011.08	3/4	2,622.55
8		8		8	5,330.01	8	4,945.15	8	4,556.96	8	4,168.48	8	3,780.00	8	3,391.52	8	3,002.98	8	2,614.45
1/4		1/4		1/4	5,322.47	1/4	4,937.11	1/4	4,548.86	1/4	4,160.39	1/4	3,771.91	1/4	3,383.42	1/4	2,994.89	1/4	2,606.36
1/2		1/2		1/2	5,314.92	1/2	4,929.06	1/2	4,540.77	1/2	4,152.29	1/2	3,763.81	1/2	3,375.33	1/2	2,986.80	1/2	2,598.26
3/4		3/4		3/4	5,306.96	3/4	4,921.01	3/4	4,532.68	3/4	4,144.20	3/4	3,755.72	3/4	3,367.23	3/4	2,978.70	3/4	2,590.17
9		9		9	5,299.00	9	4,912.97	9	4,524.58	9	4,136.11	9	3,747.63	9	3,359.14	9	2,970.61	9	2,582.08
1/4		1/4		1/4	5,291.04	1/4	4,904.92	1/4	4,516.49	1/4	4,128.01	1/4	3,739.53	1/4	3,351.04	1/4	2,962.51	1/4	2,573.98
1/2		1/2		1/2	5,283.08	1/2	4,896.88	1/2	4,508.40	1/2	4,119.92	1/2	3,731.44	1/2	3,342.95	1/2	2,954.42	1/2	2,565.89
3/4		3/4		3/4	5,275.03	3/4	4,888.78	3/4	4,500.30	3/4	4,111.83	3/4	3,723.35	3/4	3,334.85	3/4	2,946.32	3/4	2,557.79
10		10		10	5,266.99	10	4,880.69	10	4,492.21	10	4,103.73	10	3,715.25	10	3,326.76	10	2,938.23	10	2,549.70
1/4		1/4		1/4	5,258.94	1/4	4,872.60	1/4	4,484.12	1/4	4,095.64	1/4	3,707.16	1/4	3,318.67	1/4	2,930.13	1/4	2,541.60
1/2		1/2		1/2	5,250.90	1/2	4,864.50	1/2	4,476.02	1/2	4,087.55	1/2	3,699.07	1/2	3,310.57	1/2	2,922.04	1/2	2,533.51
3/4		3/4		3/4	5,242.85	3/4	4,856.41	3/4	4,467.93	3/4	4,079.45	3/4	3,690.97	3/4	3,302.48	3/4	2,913.95	3/4	2,525.41
11		11		11	5,234.80	11	4,848.32	11	4,459.84	11	4,071.36	11	3,682.88	11	3,294.38	11	2,905.85	11	2,517.32
1/4		1/4		1/4	5,226.76	1/4	4,840.22	1/4	4,451.74	1/4	4,063.27	1/4	3,674.79	1/4	3,286.29	1/4	2,897.76	1/4	2,509.23
1/2		1/2		1/2	5,218.71	1/2	4,832.13	1/2	4,443.65	1/2	4,055.17	1/2	3,666.69	1/2	3,278.19	1/2	2,889.66	1/2	2,501.13
3/4		3/4		3/4	5,210.67	3/4	4,824.04	3/4	4,435.56	3/4	4,047.08	3/4	3,658.60	3/4	3,270.10	3/4	2,881.57	3/4	2,493.04

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 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "EMS 373"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,484.94	0	2,096.41	0	1,707.88	0	1,319.35	0	930.82	0	542.66	0	154.16	0		0		0	
1/4	2,476.85	1/4	2,088.32	1/4	1,699.79	1/4	1,311.25	1/4	922.72	1/4	534.57	1/4	146.06	1/4	1/4	1/4		1/4	
1/2	2,468.75	1/2	2,080.22	1/2	1,691.69	1/2	1,303.16	1/2	914.63	1/2	526.47	1/2	137.97	1/2	1/2	1/2		1/2	
3/4	2,460.66	3/4	2,072.13	3/4	1,683.60	3/4	1,295.07	3/4	906.53	3/4	518.38	3/4	129.88	3/4	3/4	3/4		3/4	
1	2,452.56	1	2,064.03	1	1,675.50	1	1,286.97	1	898.44	1	510.28	1	121.78	1	1	1		1	
1/4	2,444.47	1/4	2,055.94	1/4	1,667.41	1/4	1,278.88	1/4	890.35	1/4	502.19	1/4	113.69	1/4	1/4	1/4		1/4	
1/2	2,436.38	1/2	2,047.84	1/2	1,659.31	1/2	1,270.78	1/2	882.25	1/2	494.10	1/2	105.59	1/2	1/2	1/2		1/2	
3/4	2,428.28	3/4	2,039.75	3/4	1,651.22	3/4	1,262.69	3/4	874.16	3/4	486.00	3/4	97.50	3/4	3/4	3/4		3/4	
2	2,420.19	2	2,031.66	2	1,643.12	2	1,254.59	2	866.06	2	477.91	2	89.41	2	2	2		2	
1/4	2,412.09	1/4	2,023.56	1/4	1,635.03	1/4	1,246.50	1/4	857.97	1/4	469.82	1/4	81.31	1/4	1/4	1/4		1/4	
1/2	2,404.00	1/2	2,015.47	1/2	1,626.94	1/2	1,238.40	1/2	849.87	1/2	461.72	1/2	73.22	1/2	1/2	1/2		1/2	
3/4	2,395.90	3/4	2,007.37	3/4	1,618.84	3/4	1,230.31	3/4	841.78	3/4	453.63	3/4	65.14	3/4	3/4	3/4		3/4	
3	2,387.81	3	1,999.28	3	1,610.75	3	1,222.22	3	833.68	3	445.53	3	57.05	3	3	3		3	
1/4	2,379.72	1/4	1,991.18	1/4	1,602.65	1/4	1,214.12	1/4	825.59	1/4	437.44	1/4	49.01	1/4	1/4	1/4		1/4	
1/2	2,371.62	1/2	1,983.09	1/2	1,594.56	1/2	1,206.03	1/2	817.50	1/2	429.35	1/2	41.00	1/2	1/2	1/2		1/2	
3/4	2,363.53	3/4	1,975.00	3/4	1,586.46	3/4	1,197.93	3/4	809.41	3/4	421.25	3/4	33.22	3/4	3/4	3/4		3/4	
4	2,355.43	4	1,966.90	4	1,578.37	4	1,189.84	4	801.33	4	413.16	4	30.44	4	4	4		4	
1/4	2,347.34	1/4	1,958.81	1/4	1,570.28	1/4	1,181.74	1/4	793.24	1/4	405.06	1/4	24.66	1/4	1/4	1/4		1/4	
1/2	2,339.24	1/2	1,950.71	1/2	1,562.18	1/2	1,173.65	1/2	785.16	1/2	396.97	1/2	18.88	1/2	1/2	1/2		1/2	
3/4	2,331.15	3/4	1,942.62	3/4	1,554.09	3/4	1,165.56	3/4	777.08	3/4	388.88	3/4		3/4	3/4	3/4		3/4	
5	2,323.05	5	1,934.52	5	1,545.99	5	1,157.46	5	768.99	5	380.78	5		5	5	5		5	
1/4	2,314.96	1/4	1,926.43	1/4	1,537.90	1/4	1,149.37	1/4	760.91	1/4	372.69	1/4		1/4	1/4	1/4		1/4	
1/2	2,306.87	1/2	1,918.33	1/2	1,529.80	1/2	1,141.27	1/2	752.82	1/2	364.60	1/2		1/2	1/2	1/2		1/2	
3/4	2,298.77	3/4	1,910.24	3/4	1,521.71	3/4	1,133.18	3/4	744.74	3/4	356.50	3/4		3/4	3/4	3/4		3/4	
6	2,290.68	6	1,902.15	6	1,513.61	6	1,125.08	6	736.66	6	348.41	6		6	6	6		6	
1/4	2,282.58	1/4	1,894.05	1/4	1,505.52	1/4	1,116.99	1/4	728.57	1/4	340.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,274.49	1/2	1,885.96	1/2	1,497.43	1/2	1,108.89	1/2	720.49	1/2	332.22	1/2		1/2	1/2	1/2		1/2	
3/4	2,266.39	3/4	1,877.86	3/4	1,489.33	3/4	1,100.80	3/4	712.41	3/4	324.13	3/4		3/4	3/4	3/4		3/4	
7	2,258.30	7	1,869.77	7	1,481.24	7	1,092.71	7	704.33	7	316.03	7		7	7	7		7	
1/4	2,250.20	1/4	1,861.67	1/4	1,473.14	1/4	1,084.61	1/4	696.25	1/4	307.94	1/4		1/4	1/4	1/4		1/4	
1/2	2,242.11	1/2	1,853.58	1/2	1,465.05	1/2	1,076.52	1/2	688.17	1/2	299.85	1/2		1/2	1/2	1/2		1/2	
3/4	2,234.02	3/4	1,845.48	3/4	1,456.95	3/4	1,068.42	3/4	680.09	3/4	291.75	3/4		3/4	3/4	3/4		3/4	
8	2,225.92	8	1,837.39	8	1,448.86	8	1,060.33	8	672.01	8	283.66	8		8	8	8		8	
1/4	2,217.83	1/4	1,829.30	1/4	1,440.76	1/4	1,052.23	1/4	663.93	1/4	275.56	1/4		1/4	1/4	1/4		1/4	
1/2	2,209.73	1/2	1,821.20	1/2	1,432.67	1/2	1,044.14	1/2	655.85	1/2	267.47	1/2		1/2	1/2	1/2		1/2	
3/4	2,201.64	3/4	1,813.11	3/4	1,424.58	3/4	1,036.04	3/4	647.77	3/4	259.38	3/4		3/4	3/4	3/4		3/4	
9	2,193.54	9	1,805.01	9	1,416.48	9	1,027.95	9	639.68	9	251.28	9		9	9	9		9	
1/4	2,185.45	1/4	1,796.92	1/4	1,408.39	1/4	1,019.86	1/4	631.60	1/4	243.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,177.36	1/2	1,788.82	1/2	1,400.29	1/2	1,011.76	1/2	623.52	1/2	235.09	1/2		1/2	1/2	1/2		1/2	
3/4	2,169.26	3/4	1,780.73	3/4	1,392.20	3/4	1,003.67	3/4	615.43	3/4	227.00	3/4		3/4	3/4	3/4		3/4	
10	2,161.17	10	1,772.64	10	1,384.10	10	995.57	10	607.35	10	218.91	10		10	10	10		10	
1/4	2,153.07	1/4	1,764.54	1/4	1,376.01	1/4	987.48	1/4	599.27	1/4	210.81	1/4		1/4	1/4	1/4		1/4	
1/2	2,144.98	1/2	1,756.45	1/2	1,367.92	1/2	979.38	1/2	591.18	1/2	202.72	1/2		1/2	1/2	1/2		1/2	
3/4	2,136.88	3/4	1,748.35	3/4	1,359.82	3/4	971.29	3/4	583.10	3/4	194.63	3/4		3/4	3/4	3/4		3/4	
11	2,128.79	11	1,740.26	11	1,351.73	11	963.20	11	575.01	11	186.53	11		11	11	11		11	
1/4	2,120.69	1/4	1,732.16	1/4	1,343.63	1/4	955.10	1/4	566.93	1/4	178.44	1/4		1/4	1/4	1/4		1/4	
1/2	2,112.60	1/2	1,724.07	1/2	1,335.54	1/2	947.01	1/2	558.85	1/2	170.34	1/2		1/2	1/2	1/2		1/2	
3/4	2,104.51	3/4	1,715.97	3/4	1,327.44	3/4	938.91	3/4	550.75	3/4	162.25	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
PRINTED: 09/23/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 373"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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		0		0		0	4,600.43	0	4,295.33	0	3,988.89	0	3,682.45	0	3,372.57	0	3,011.42	0	2,650.14		
1/4		1/4		1/4		1/4	4,594.08	1/4	4,288.95	1/4	3,982.50	1/4	3,676.06	1/4	3,365.04	1/4	3,003.90	1/4	2,642.62		
1/2		1/2		1/2		1/2	4,587.73	1/2	4,282.56	1/2	3,976.12	1/2	3,669.68	1/2	3,357.52	1/2	2,996.38	1/2	2,635.09		
3/4		3/4		3/4		3/4	4,581.38	3/4	4,276.18	3/4	3,969.74	3/4	3,663.29	3/4	3,349.99	3/4	2,988.85	3/4	2,627.56		
1		1		1		1	4,575.04	1	4,269.79	1	3,963.35	1	3,656.91	1	3,342.46	1	2,981.33	1	2,620.03		
1/4		1/4		1/4		1/4	4,568.69	1/4	4,263.41	1/4	3,956.97	1/4	3,650.53	1/4	3,334.93	1/4	2,973.81	1/4	2,612.50		
1/2		1/2		1/2		1/2	4,562.34	1/2	4,257.02	1/2	3,950.58	1/2	3,644.14	1/2	3,327.40	1/2	2,966.29	1/2	2,604.97		
3/4		3/4		3/4		3/4	4,555.99	3/4	4,250.64	3/4	3,944.20	3/4	3,637.76	3/4	3,319.87	3/4	2,958.77	3/4	2,597.44		
2		2		2		2	4,549.65	2	4,244.26	2	3,937.81	2	3,631.37	2	3,312.35	2	2,951.24	2	2,589.91		
1/4		1/4		1/4		1/4	4,543.30	1/4	4,237.87	1/4	3,931.43	1/4	3,624.99	1/4	3,304.82	1/4	2,943.72	1/4	2,582.38		
1/2		1/2		1/2		1/2	4,536.95	1/2	4,231.49	1/2	3,925.05	1/2	3,618.60	1/2	3,297.29	1/2	2,936.20	1/2	2,574.85		
3/4		3/4		3/4		3/4	4,530.60	3/4	4,225.10	3/4	3,918.66	3/4	3,612.22	3/4	3,289.76	3/4	2,928.68	3/4	2,567.32		
3		3		3		3	4,524.25	3	4,218.72	3	3,912.28	3	3,605.84	3	3,282.23	3	2,921.16	3	2,559.80		
1/4		1/4		1/4		1/4	4,517.91	1/4	4,212.34	1/4	3,905.89	1/4	3,599.45	1/4	3,274.71	1/4	2,913.63	1/4	2,552.27		
1/2		1/2		1/2		1/2	4,511.56	1/2	4,205.95	1/2	3,899.51	1/2	3,593.07	1/2	3,267.18	1/2	2,906.11	1/2	2,544.74		
3/4		3/4		3/4		3/4	4,505.21	3/4	4,199.57	3/4	3,893.13	3/4	3,586.68	3/4	3,259.65	3/4	2,898.59	3/4	2,537.21		
4		4		4		4	4,498.86	4	4,193.18	4	3,886.74	4	3,580.30	4	3,252.12	4	2,891.07	4	2,529.68		
1/4		1/4		1/4		1/4	4,492.51	1/4	4,186.80	1/4	3,880.36	1/4	3,573.92	1/4	3,244.59	1/4	2,883.55	1/4	2,522.15		
1/2		1/2		1/2		1/2	4,486.17	1/2	4,180.41	1/2	3,873.97	1/2	3,567.53	1/2	3,237.07	1/2	2,876.02	1/2	2,514.62		
3/4		3/4		3/4		3/4	4,479.82	3/4	4,174.03	3/4	3,867.59	3/4	3,561.15	3/4	3,229.55	3/4	2,868.49	3/4	2,507.09		
5		5		5		5	4,473.47	5	4,167.65	5	3,861.20	5	3,554.76	5	3,222.03	5	2,860.96	5	2,499.56		
1/4		1/4		1/4		1/4	4,467.12	1/4	4,161.26	1/4	3,854.82	1/4	3,548.38	1/4	3,214.51	1/4	2,853.43	1/4	2,492.03		
1/2		1/2		1/2		1/2	4,460.77	1/2	4,154.88	1/2	3,848.44	1/2	3,541.99	1/2	3,206.99	1/2	2,845.90	1/2	2,484.50		
3/4		3/4		3/4		3/4	4,454.43	3/4	4,148.49	3/4	3,842.05	3/4	3,535.61	3/4	3,199.47	3/4	2,838.37	3/4	2,476.98		
6		6		6		6	4,448.08	6	4,142.11	6	3,835.67	6	3,529.23	6	3,191.94	6	2,830.84	6	2,469.45		
1/4		1/4		1/4		1/4	4,441.73	1/4	4,135.73	1/4	3,829.28	1/4	3,522.84	1/4	3,184.42	1/4	2,823.31	1/4	2,461.92		
1/2		1/2		1/2		1/2	4,745.04	1/2	4,435.38	1/2	4,129.34	1/2	3,822.90	1/2	3,516.46	1/2	3,176.90	1/2	2,815.79	1/2	2,454.39
3/4		3/4		3/4		3/4	4,739.35	3/4	4,429.04	3/4	4,122.96	3/4	3,816.52	3/4	3,510.07	3/4	3,169.38	3/4	2,808.26	3/4	2,446.86
7		7		7		7	4,733.66	7	4,422.69	7	4,116.57	7	3,810.13	7	3,503.69	7	3,161.86	7	2,800.73	7	2,439.33
1/4		1/4		1/4		1/4	4,727.96	1/4	4,416.34	1/4	4,110.19	1/4	3,803.75	1/4	3,497.31	1/4	3,154.34	1/4	2,793.20	1/4	2,431.80
1/2		1/2		1/2		1/2	4,720.94	1/2	4,409.99	1/2	4,103.80	1/2	3,797.36	1/2	3,490.92	1/2	3,146.81	1/2	2,785.67	1/2	2,424.27
3/4		3/4		3/4		3/4	4,713.92	3/4	4,403.64	3/4	4,097.42	3/4	3,790.98	3/4	3,484.54	3/4	3,139.29	3/4	2,778.14	3/4	2,416.74
8		8		8		8	4,706.90	8	4,397.30	8	4,091.04	8	3,784.59	8	3,478.15	8	3,131.77	8	2,770.61	8	2,409.21
1/4		1/4		1/4		1/4	4,699.88	1/4	4,390.95	1/4	4,084.65	1/4	3,778.21	1/4	3,471.77	1/4	3,124.25	1/4	2,763.08	1/4	2,401.68
1/2		1/2		1/2		1/2	4,692.47	1/2	4,384.60	1/2	4,078.27	1/2	3,771.83	1/2	3,465.38	1/2	3,116.73	1/2	2,755.55	1/2	2,394.16
3/4		3/4		3/4		3/4	4,685.07	3/4	4,378.25	3/4	4,071.88	3/4	3,765.44	3/4	3,459.00	3/4	3,109.20	3/4	2,748.02	3/4	2,386.63
9		9		9		9	4,677.66	9	4,371.90	9	4,065.50	9	3,759.06	9	3,452.62	9	3,101.68	9	2,740.49	9	2,379.10
1/4		1/4		1/4		1/4	4,670.26	1/4	4,365.56	1/4	4,059.11	1/4	3,752.67	1/4	3,446.23	1/4	3,094.16	1/4	2,732.96	1/4	2,371.57
1/2		1/2		1/2		1/2	4,663.91	1/2	4,359.17	1/2	4,052.73	1/2	3,746.29	1/2	3,439.85	1/2	3,086.64	1/2	2,725.44	1/2	2,364.04
3/4		3/4		3/4		3/4	4,657.56	3/4	4,352.79	3/4	4,046.35	3/4	3,739.90	3/4	3,433.46	3/4	3,079.12	3/4	2,717.91	3/4	2,356.51
10		10		10		10	4,651.21	10	4,346.40	10	4,039.96	10	3,733.52	10	3,427.08	10	3,071.59	10	2,710.38	10	2,348.98
1/4		1/4		1/4		1/4	4,644.86	1/4	4,340.02	1/4	4,033.58	1/4	3,727.14	1/4	3,420.69	1/4	3,064.07	1/4	2,702.85	1/4	2,341.45
1/2		1/2		1/2		1/2	4,638.52	1/2	4,333.64	1/2	4,027.19	1/2	3,720.75	1/2	3,414.31	1/2	3,056.55	1/2	2,695.32	1/2	2,333.92
3/4		3/4		3/4		3/4	4,632.17	3/4	4,327.25	3/4	4,020.81	3/4	3,714.37	3/4	3,407.93	3/4	3,049.03	3/4	2,687.79	3/4	2,326.39
11		11		11		11	4,625.82	11	4,320.87	11	4,014.43	11	3,707.98	11	3,401.54	11	3,041.51	11	2,680.26	11	2,318.86
1/4		1/4		1/4		1/4	4,619.47	1/4	4,314.48	1/4	4,008.04	1/4	3,701.60	1/4	3,395.16	1/4	3,033.99	1/4	2,672.73	1/4	2,311.34
1/2		1/2		1/2		1/2	4,613.12	1/2	4,308.10	1/2	4,001.66	1/2	3,695.22	1/2	3,387.63	1/2	3,026.46	1/2	2,665.20	1/2	2,303.81
3/4		3/4		3/4		3/4	4,606.78	3/4	4,301.71	3/4	3,995.27	3/4	3,688.83	3/4	3,380.10	3/4	3,018.94	3/4	2,657.67	3/4	2,296.28

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



BARGE "EMS 373"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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
	2,288.75		1,927.83		1,567.13		1,205.89		844.86		497.07		135.92						
1/4	2,281.22	1/4	1,920.33	1/4	1,559.60	1/4	1,198.36	1/4	837.34	1/4	489.83	1/4	128.39	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,273.69	1/2	1,912.82	1/2	1,552.07	1/2	1,190.84	1/2	830.10	1/2	482.30	1/2	120.86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,266.16	3/4	1,905.32	3/4	1,544.55	3/4	1,183.31	3/4	822.86	3/4	474.77	3/4	113.33	3/4	3/4	3/4	3/4	3/4	3/4
1	2,258.63	1	1,897.81	1	1,537.02	1	1,175.78	1	815.62	1	467.24	1	105.80	1	1	1	1	1	1
1/4	2,251.10	1/4	1,890.30	1/4	1,529.50	1/4	1,168.26	1/4	808.38	1/4	459.71	1/4	98.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,243.57	1/2	1,882.80	1/2	1,521.97	1/2	1,160.73	1/2	801.14	1/2	452.18	1/2	90.74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,236.04	3/4	1,875.29	3/4	1,514.44	3/4	1,153.21	3/4	793.91	3/4	444.65	3/4	83.21	3/4	3/4	3/4	3/4	3/4	3/4
2	2,228.52	2	1,867.79	2	1,506.92	2	1,145.68	2	786.67	2	437.12	2	75.68	2	2	2	2	2	2
1/4	2,220.99	1/4	1,860.28	1/4	1,499.39	1/4	1,138.15	1/4	779.43	1/4	429.59	1/4	68.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,213.46	1/2	1,852.77	1/2	1,491.87	1/2	1,130.63	1/2	772.18	1/2	422.06	1/2	60.89	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,205.93	3/4	1,845.27	3/4	1,484.34	3/4	1,123.10	3/4	764.93	3/4	414.53	3/4	53.62	3/4	3/4	3/4	3/4	3/4	3/4
3	2,198.40	3	1,837.76	3	1,476.82	3	1,115.58	3	757.68	3	407.00	3	46.36	3	3	3	3	3	3
1/4	2,190.87	1/4	1,830.25	1/4	1,469.29	1/4	1,108.05	1/4	750.43	1/4	399.47	1/4	39.10	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,183.34	1/2	1,822.75	1/2	1,461.76	1/2	1,100.53	1/2	743.19	1/2	391.94	1/2	33.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,175.81	3/4	1,815.24	3/4	1,454.24	3/4	1,093.00	3/4	735.95	3/4	384.41	3/4	28.35	3/4	3/4	3/4	3/4	3/4	3/4
4	2,168.28	4	1,807.74	4	1,446.71	4	1,085.47	4	728.71	4	376.88	4	22.97	4	4	4	4	4	4
1/4	2,160.75	1/4	1,800.23	1/4	1,439.19	1/4	1,077.95	1/4	721.47	1/4	369.35	1/4	17.59	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,153.22	1/2	1,792.72	1/2	1,431.66	1/2	1,070.42	1/2	714.23	1/2	361.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,145.70	3/4	1,785.22	3/4	1,424.13	3/4	1,062.90	3/4	707.00	3/4	354.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,138.17	5	1,777.71	5	1,416.61	5	1,055.37	5	699.76	5	346.76	5		5	5	5	5	5	5
1/4	2,130.64	1/4	1,770.21	1/4	1,409.08	1/4	1,047.84	1/4	692.52	1/4	339.23	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,123.11	1/2	1,762.70	1/2	1,401.56	1/2	1,040.32	1/2	685.28	1/2	331.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,115.58	3/4	1,755.19	3/4	1,394.03	3/4	1,032.79	3/4	678.04	3/4	324.17	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,108.05	6	1,747.69	6	1,386.51	6	1,025.27	6	670.80	6	316.64	6		6	6	6	6	6	6
1/4	2,100.52	1/4	1,740.18	1/4	1,378.98	1/4	1,017.74	1/4	663.56	1/4	309.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,093.00	1/2	1,732.66	1/2	1,371.45	1/2	1,010.22	1/2	656.33	1/2	301.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,085.49	3/4	1,725.15	3/4	1,363.93	3/4	1,002.71	3/4	649.09	3/4	294.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,077.97	7	1,717.63	7	1,356.40	7	995.19	7	641.86	7	286.52	7		7	7	7	7	7	7
1/4	2,070.45	1/4	1,710.12	1/4	1,348.88	1/4	987.67	1/4	634.62	1/4	278.99	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,062.94	1/2	1,702.59	1/2	1,341.35	1/2	980.16	1/2	627.39	1/2	271.46	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,055.44	3/4	1,695.06	3/4	1,333.83	3/4	972.64	3/4	620.16	3/4	263.93	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,047.93	8	1,687.54	8	1,326.30	8	965.12	8	612.92	8	256.40	8		8	8	8	8	8	8
1/4	2,040.43	1/4	1,680.01	1/4	1,318.77	1/4	957.61	1/4	605.69	1/4	248.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,032.92	1/2	1,672.49	1/2	1,311.25	1/2	950.09	1/2	598.45	1/2	241.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,025.41	3/4	1,664.96	3/4	1,303.72	3/4	942.57	3/4	591.21	3/4	233.81	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,017.91	9	1,657.43	9	1,296.20	9	935.06	9	583.97	9	226.28	9		9	9	9	9	9	9
1/4	2,010.40	1/4	1,649.91	1/4	1,288.67	1/4	927.54	1/4	576.73	1/4	218.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,002.89	1/2	1,642.38	1/2	1,281.14	1/2	920.02	1/2	569.49	1/2	211.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,995.39	3/4	1,634.86	3/4	1,273.62	3/4	912.51	3/4	562.25	3/4	203.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,987.88	10	1,627.33	10	1,266.09	10	904.99	10	555.01	10	196.16	10		10	10	10	10	10	10
1/4	1,980.38	1/4	1,619.81	1/4	1,258.57	1/4	897.47	1/4	547.78	1/4	188.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,972.87	1/2	1,612.28	1/2	1,251.04	1/2	889.96	1/2	540.54	1/2	181.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,965.36	3/4	1,604.75	3/4	1,243.52	3/4	882.44	3/4	533.30	3/4	173.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,957.86	11	1,597.23	11	1,235.99	11	874.92	11	526.06	11	166.04	11		11	11	11	11	11	11
1/4	1,950.35	1/4	1,589.70	1/4	1,228.46	1/4	867.41	1/4	518.82	1/4	158.51	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,942.85	1/2	1,582.18	1/2	1,220.94	1/2	859.89	1/2	511.57	1/2	150.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,935.34	3/4	1,574.65	3/4	1,213.41	3/4	852.37	3/4	504.32	3/4	143.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
PRINTED: 09/23/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2011

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



BARGE "EMS 373"

**3 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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
1/4		1/4		1/4		1/4	4,597.24	1/4	4,292.04	1/4	3,985.49	1/4	3,678.95	1/4	3,369.00	1/4	3,008.28	1/4	2,647.43		
1/2		1/2		1/2		1/2	4,590.89	1/2	4,285.65	1/2	3,979.11	1/2	3,672.56	1/2	3,361.48	1/2	3,000.77	1/2	2,639.91		
3/4		3/4		3/4		3/4	4,584.54	3/4	4,279.27	3/4	3,972.72	3/4	3,666.17	3/4	3,353.96	3/4	2,993.25	3/4	2,632.39		
1		1		1		1	4,578.19	1	4,272.88	1	3,966.33	1	3,659.79	1	3,346.44	1	2,985.74	1	2,624.87		
1/4		1/4		1/4		1/4	4,571.84	1/4	4,266.50	1/4	3,959.95	1/4	3,653.40	1/4	3,338.92	1/4	2,978.23	1/4	2,617.35		
1/2		1/2		1/2		1/2	4,565.49	1/2	4,260.11	1/2	3,953.56	1/2	3,647.01	1/2	3,331.40	1/2	2,970.71	1/2	2,609.83		
3/4		3/4		3/4		3/4	4,559.14	3/4	4,253.72	3/4	3,947.18	3/4	3,640.63	3/4	3,323.88	3/4	2,963.20	3/4	2,602.31		
2		2		2		2	4,552.79	2	4,247.34	2	3,940.79	2	3,634.24	2	3,316.37	2	2,955.69	2	2,594.79		
1/4		1/4		1/4		1/4	4,546.44	1/4	4,240.95	1/4	3,934.40	1/4	3,627.86	1/4	3,308.85	1/4	2,948.17	1/4	2,587.27		
1/2		1/2		1/2		1/2	4,540.09	1/2	4,234.56	1/2	3,928.02	1/2	3,621.47	1/2	3,301.33	1/2	2,940.66	1/2	2,579.75		
3/4		3/4		3/4		3/4	4,533.74	3/4	4,228.18	3/4	3,921.63	3/4	3,615.08	3/4	3,293.81	3/4	2,933.15	3/4	2,572.23		
3		3		3		3	4,527.39	3	4,221.79	3	3,915.24	3	3,608.70	3	3,286.29	3	2,925.64	3	2,564.71		
1/4		1/4		1/4		1/4	4,521.04	1/4	4,215.40	1/4	3,908.86	1/4	3,602.31	1/4	3,278.77	1/4	2,918.12	1/4	2,557.19		
1/2		1/2		1/2		1/2	4,514.69	1/2	4,209.02	1/2	3,902.47	1/2	3,595.92	1/2	3,271.25	1/2	2,910.61	1/2	2,549.67		
3/4		3/4		3/4		3/4	4,508.34	3/4	4,202.63	3/4	3,896.08	3/4	3,589.54	3/4	3,263.73	3/4	2,903.10	3/4	2,542.16		
4		4		4		4	4,501.99	4	4,196.24	4	3,889.70	4	3,583.15	4	3,256.21	4	2,895.58	4	2,534.65		
1/4		1/4		1/4		1/4	4,495.64	1/4	4,189.86	1/4	3,883.31	1/4	3,576.76	1/4	3,248.69	1/4	2,888.07	1/4	2,527.14		
1/2		1/2		1/2		1/2	4,489.29	1/2	4,183.47	1/2	3,876.92	1/2	3,570.38	1/2	3,241.17	1/2	2,880.56	1/2	2,519.62		
3/4		3/4		3/4		3/4	4,482.94	3/4	4,177.09	3/4	3,870.54	3/4	3,563.99	3/4	3,233.66	3/4	2,873.04	3/4	2,512.11		
5		5		5		5	4,476.59	5	4,170.70	5	3,864.15	5	3,557.60	5	3,226.15	5	2,865.52	5	2,504.60		
1/4		1/4		1/4		1/4	4,470.24	1/4	4,164.31	1/4	3,857.77	1/4	3,551.22	1/4	3,218.64	1/4	2,858.00	1/4	2,497.09		
1/2		1/2		1/2		1/2	4,463.89	1/2	4,157.93	1/2	3,851.38	1/2	3,544.83	1/2	3,211.13	1/2	2,850.48	1/2	2,489.58		
3/4		3/4		3/4		3/4	4,457.54	3/4	4,151.54	3/4	3,844.99	3/4	3,538.45	3/4	3,203.61	3/4	2,842.96	3/4	2,482.07		
6		6		6		6	4,451.19	6	4,145.15	6	3,838.61	6	3,532.06	6	3,196.10	6	2,835.44	6	2,474.56		
1/4		1/4		1/4		1/4	4,444.84	1/4	4,138.77	1/4	3,832.22	1/4	3,525.67	1/4	3,188.59	1/4	2,827.92	1/4	2,467.05		
1/2		1/2		1/2		1/2	4,438.49	1/2	4,132.38	1/2	3,825.83	1/2	3,519.29	1/2	3,181.08	1/2	2,820.40	1/2	2,459.54		
3/4		3/4		3/4		3/4	4,741.90	3/4	4,432.14	3/4	4,125.99	3/4	3,819.45	3/4	3,512.90	3/4	3,173.56	3/4	2,812.88		
7		7		7		7	4,736.21	7	4,425.79	7	4,119.61	7	3,813.06	7	3,506.51	7	3,166.05	7	2,805.36		
1/4		1/4		1/4		1/4	4,730.51	1/4	4,419.44	1/4	4,113.22	1/4	3,806.67	1/4	3,500.13	1/4	3,158.54	1/4	2,797.84		
1/2		1/2		1/2		1/2	4,724.81	1/2	4,413.09	1/2	4,106.84	1/2	3,800.29	1/2	3,493.74	1/2	3,151.03	1/2	2,790.32		
3/4		3/4		3/4		3/4	4,717.79	3/4	4,406.74	3/4	4,100.45	3/4	3,793.90	3/4	3,487.35	3/4	3,143.51	3/4	2,782.79		
8		8		8		8	4,710.77	8	4,400.39	8	4,094.06	8	3,787.52	8	3,480.97	8	3,136.00	8	2,775.27		
1/4		1/4		1/4		1/4	4,703.75	1/4	4,394.04	1/4	4,087.68	1/4	3,781.13	1/4	3,474.58	1/4	3,128.49	1/4	2,767.75		
1/2		1/2		1/2		1/2	4,696.72	1/2	4,387.69	1/2	4,081.29	1/2	3,774.74	1/2	3,468.20	1/2	3,120.97	1/2	2,760.23		
3/4		3/4		3/4		3/4	4,689.31	3/4	4,381.34	3/4	4,074.90	3/4	3,768.36	3/4	3,461.81	3/4	3,113.46	3/4	2,752.71		
9		9		9		9	4,681.90	9	4,374.99	9	4,068.52	9	3,761.97	9	3,455.42	9	3,105.95	9	2,745.19		
1/4		1/4		1/4		1/4	4,674.50	1/4	4,368.64	1/4	4,062.13	1/4	3,755.58	1/4	3,449.04	1/4	3,098.43	1/4	2,737.67		
1/2		1/2		1/2		1/2	4,667.09	1/2	4,362.29	1/2	4,055.74	1/2	3,749.20	1/2	3,442.65	1/2	3,090.92	1/2	2,730.15		
3/4		3/4		3/4		3/4	4,660.74	3/4	4,355.90	3/4	4,049.36	3/4	3,742.81	3/4	3,436.26	3/4	3,083.41	3/4	2,722.63		
10		10		10		10	4,654.39	10	4,349.52	10	4,042.97	10	3,736.42	10	3,429.88	10	3,075.90	10	2,715.11		
1/4		1/4		1/4		1/4	4,648.04	1/4	4,343.13	1/4	4,036.58	1/4	3,730.04	1/4	3,423.49	1/4	3,068.38	1/4	2,707.59		
1/2		1/2		1/2		1/2	4,641.69	1/2	4,336.75	1/2	4,030.20	1/2	3,723.65	1/2	3,417.10	1/2	3,060.87	1/2	2,700.07		
3/4		3/4		3/4		3/4	4,635.34	3/4	4,330.36	3/4	4,023.81	3/4	3,717.26	3/4	3,410.72	3/4	3,053.36	3/4	2,692.55		
11		11		11		11	4,628.99	11	4,323.97	11	4,017.43	11	3,710.88	11	3,404.33	11	3,045.84	11	2,685.03		
1/4		1/4		1/4		1/4	4,622.64	1/4	4,317.59	1/4	4,011.04	1/4	3,704.49	1/4	3,397.94	1/4	3,038.33	1/4	2,677.51		
1/2		1/2		1/2		1/2	4,616.29	1/2	4,311.20	1/2	4,004.65	1/2	3,698.11	1/2	3,391.56	1/2	3,030.82	1/2	2,669.99		
3/4		3/4		3/4		3/4	4,609.94	3/4	4,304.81	3/4	3,998.27	3/4	3,691.72	3/4	3,384.04	3/4	3,023.30	3/4	2,662.47		
12		12		12		12	4,603.59	12	4,298.43	12	3,991.88	12	3,685.33	12	3,376.52	12	3,015.79	12	2,654.95		

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



BARGE "EMS 373"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

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	2,286.75	0	1,927.33	0	1,568.44	0	1,207.55	0	846.67	0	496.60	0	135.81	0		0		0	
1/4	2,279.23	1/4	1,919.88	1/4	1,560.92	1/4	1,200.03	1/4	839.15	1/4	489.30	1/4	128.29	1/4		1/4		1/4	
1/2	2,271.70	1/2	1,912.44	1/2	1,553.40	1/2	1,192.52	1/2	831.86	1/2	481.78	1/2	120.77	1/2		1/2		1/2	
3/4	2,264.18	3/4	1,904.99	3/4	1,545.88	3/4	1,185.00	3/4	824.56	3/4	474.26	3/4	113.25	3/4		3/4		3/4	
1	2,256.66	1	1,897.55	1	1,538.36	1	1,177.48	1	817.26	1	466.74	1	105.73	1		1		1	
1/4	2,249.14	1/4	1,890.10	1/4	1,530.84	1/4	1,169.96	1/4	809.97	1/4	459.22	1/4	98.21	1/4		1/4		1/4	
1/2	2,241.62	1/2	1,882.66	1/2	1,523.33	1/2	1,162.44	1/2	802.67	1/2	451.70	1/2	90.69	1/2		1/2		1/2	
3/4	2,234.10	3/4	1,875.21	3/4	1,515.81	3/4	1,154.92	3/4	795.37	3/4	444.17	3/4	83.17	3/4		3/4		3/4	
2	2,226.57	2	1,867.77	2	1,508.29	2	1,147.41	2	788.08	2	436.65	2	75.65	2		2		2	
1/4	2,219.05	1/4	1,860.32	1/4	1,500.77	1/4	1,139.89	1/4	780.78	1/4	429.13	1/4	68.12	1/4		1/4		1/4	
1/2	2,211.53	1/2	1,852.88	1/2	1,493.25	1/2	1,132.37	1/2	773.48	1/2	421.61	1/2	60.87	1/2		1/2		1/2	
3/4	2,204.01	3/4	1,845.43	3/4	1,485.73	3/4	1,124.85	3/4	766.19	3/4	414.09	3/4	53.62	3/4		3/4		3/4	
3	2,196.49	3	1,837.99	3	1,478.22	3	1,117.33	3	758.89	3	406.57	3	46.37	3		3		3	
1/4	2,188.97	1/4	1,830.55	1/4	1,470.70	1/4	1,109.81	1/4	751.60	1/4	399.05	1/4	39.12	1/4		1/4		1/4	
1/2	2,181.44	1/2	1,823.10	1/2	1,463.18	1/2	1,102.30	1/2	744.31	1/2	391.53	1/2	33.74	1/2		1/2		1/2	
3/4	2,173.92	3/4	1,815.66	3/4	1,455.66	3/4	1,094.78	3/4	737.02	3/4	384.01	3/4	28.36	3/4		3/4		3/4	
4	2,166.40	4	1,808.21	4	1,448.14	4	1,087.26	4	729.74	4	376.49	4	22.98	4		4		4	
1/4	2,158.88	1/4	1,800.77	1/4	1,440.62	1/4	1,079.74	1/4	722.45	1/4	368.96	1/4	17.60	1/4		1/4		1/4	
1/2	2,151.36	1/2	1,793.32	1/2	1,433.11	1/2	1,072.22	1/2	715.17	1/2	361.44	1/2		1/2		1/2		1/2	
3/4	2,143.84	3/4	1,785.88	3/4	1,425.59	3/4	1,064.70	3/4	707.88	3/4	353.92	3/4		3/4		3/4		3/4	
5	2,136.31	5	1,778.43	5	1,418.07	5	1,057.19	5	700.60	5	346.40	5		5		5		5	
1/4	2,128.79	1/4	1,770.99	1/4	1,410.55	1/4	1,049.67	1/4	693.31	1/4	338.88	1/4		1/4		1/4		1/4	
1/2	2,121.27	1/2	1,763.54	1/2	1,403.03	1/2	1,042.15	1/2	686.02	1/2	331.36	1/2		1/2		1/2		1/2	
3/4	2,113.75	3/4	1,756.10	3/4	1,395.51	3/4	1,034.63	3/4	678.74	3/4	323.84	3/4		3/4		3/4		3/4	
6	2,106.23	6	1,748.65	6	1,387.99	6	1,027.11	6	671.45	6	316.32	6		6		6		6	
1/4	2,098.71	1/4	1,741.21	1/4	1,380.48	1/4	1,019.59	1/4	664.17	1/4	308.80	1/4		1/4		1/4		1/4	
1/2	2,091.22	1/2	1,733.73	1/2	1,372.96	1/2	1,012.07	1/2	656.88	1/2	301.28	1/2		1/2		1/2		1/2	
3/4	2,083.74	3/4	1,726.25	3/4	1,365.44	3/4	1,004.56	3/4	649.60	3/4	293.75	3/4		3/4		3/4		3/4	
7	2,076.26	7	1,718.77	7	1,357.92	7	997.04	7	642.32	7	286.23	7		7		7		7	
1/4	2,068.77	1/4	1,711.29	1/4	1,350.40	1/4	989.52	1/4	635.04	1/4	278.71	1/4		1/4		1/4		1/4	
1/2	2,061.33	1/2	1,703.77	1/2	1,342.88	1/2	982.00	1/2	627.76	1/2	271.19	1/2		1/2		1/2		1/2	
3/4	2,053.88	3/4	1,696.25	3/4	1,335.37	3/4	974.48	3/4	620.48	3/4	263.67	3/4		3/4		3/4		3/4	
8	2,046.44	8	1,688.73	8	1,327.85	8	966.96	8	613.20	8	256.15	8		8		8		8	
1/4	2,038.99	1/4	1,681.21	1/4	1,320.33	1/4	959.45	1/4	605.92	1/4	248.63	1/4		1/4		1/4		1/4	
1/2	2,031.55	1/2	1,673.69	1/2	1,312.81	1/2	951.93	1/2	598.63	1/2	241.11	1/2		1/2		1/2		1/2	
3/4	2,024.11	3/4	1,666.18	3/4	1,305.29	3/4	944.41	3/4	591.34	3/4	233.59	3/4		3/4		3/4		3/4	
9	2,016.66	9	1,658.66	9	1,297.77	9	936.89	9	584.06	9	226.07	9		9		9		9	
1/4	2,009.22	1/4	1,651.14	1/4	1,290.26	1/4	929.37	1/4	576.77	1/4	218.54	1/4		1/4		1/4		1/4	
1/2	2,001.77	1/2	1,643.62	1/2	1,282.74	1/2	921.85	1/2	569.49	1/2	211.02	1/2		1/2		1/2		1/2	
3/4	1,994.33	3/4	1,636.10	3/4	1,275.22	3/4	914.34	3/4	562.20	3/4	203.50	3/4		3/4		3/4		3/4	
10	1,986.88	10	1,628.58	10	1,267.70	10	906.82	10	554.91	10	195.98	10		10		10		10	
1/4	1,979.44	1/4	1,621.07	1/4	1,260.18	1/4	899.30	1/4	547.63	1/4	188.46	1/4		1/4		1/4		1/4	
1/2	1,971.99	1/2	1,613.55	1/2	1,252.66	1/2	891.78	1/2	540.34	1/2	180.94	1/2		1/2		1/2		1/2	
3/4	1,964.55	3/4	1,606.03	3/4	1,245.15	3/4	884.26	3/4	533.06	3/4	173.42	3/4		3/4		3/4		3/4	
11	1,957.10	11	1,598.51	11	1,237.63	11	876.74	11	525.77	11	165.90	11		11		11		11	
1/4	1,949.66	1/4	1,590.99	1/4	1,230.11	1/4	869.23	1/4	518.49	1/4	158.38	1/4		1/4		1/4		1/4	
1/2	1,942.21	1/2	1,583.47	1/2	1,222.59	1/2	861.71	1/2	511.19	1/2	150.86	1/2		1/2		1/2		1/2	
3/4	1,934.77	3/4	1,575.95	3/4	1,215.07	3/4	854.19	3/4	503.89	3/4	143.33	3/4		3/4		3/4		3/4	

STRAPPED: 09/23/2011 CL - SW
CALCULATED: 09/23/2011 CL
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CANCELS AND SUPERCEDES
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