



# BARGE "EMS 380"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
1 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-1/2	01-1/2
2 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
2 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8
3 PORT	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-3/4	01-3/4	- 02-1/8	02-1/8	- 02-5/8	02-5/8
3 STBD	- 00-3/8	00-3/8	- 00-7/8	00-7/8	- 01-1/4	01-1/4	- 01-3/4	01-3/4	- 02-1/8	02-1/8	- 02-5/8	02-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

December 7, 2012

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "EMS 380"

## 1 PORT INNAGE 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.	
0	3,146.98	0	3,478.35	0	3,809.72	0	4,140.29	0		0		0		0		0		0	
1/4	3,153.89	1/4	3,485.25	1/4	3,816.62	1/4	4,147.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,160.79	1/2	3,492.16	1/2	3,823.53	1/2	4,154.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,167.69	3/4	3,499.06	3/4	3,830.43	3/4	4,160.88	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,174.60	1	3,505.96	1	3,837.33	1	4,167.74	1		1		1		1		1		1	
1/4	3,181.50	1/4	3,512.87	1/4	3,844.24	1/4	4,174.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,188.40	1/2	3,519.77	1/2	3,851.14	1/2	4,181.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,195.31	3/4	3,526.67	3/4	3,858.04	3/4	4,188.33	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,202.21	2	3,533.58	2	3,864.95	2	4,195.19	2		2		2		2		2		2	
1/4	3,209.11	1/4	3,540.48	1/4	3,871.85	1/4	4,202.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,216.02	1/2	3,547.39	1/2	3,878.75	1/2	4,208.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,222.92	3/4	3,554.29	3/4	3,885.66	3/4	4,215.78	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,229.82	3	3,561.19	3	3,892.56	3	4,222.65	3		3		3		3		3		3	
1/4	3,236.73	1/4	3,568.10	1/4	3,899.46	1/4	4,229.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.63	1/2	3,575.00	1/2	3,906.37	1/2	4,236.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.53	3/4	3,581.90	3/4	3,913.27	3/4	4,243.24	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,257.44	4	3,588.81	4	3,920.17	4	4,250.10	4		4		4		4		4		4	
1/4	3,264.34	1/4	3,595.71	1/4	3,927.08	1/4	4,256.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,271.25	1/2	3,602.61	1/2	3,933.98	1/2	4,263.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,278.15	3/4	3,609.52	3/4	3,940.88	3/4	4,270.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,285.05	5	3,616.42	5	3,947.79	5	4,277.56	5		5		5		5		5		5	
1/4	3,291.96	1/4	3,623.32	1/4	3,954.69	1/4	4,284.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,298.86	1/2	3,630.23	1/2	3,961.60	1/2	4,291.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.76	3/4	3,637.13	3/4	3,968.50	3/4	4,298.15	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,312.67	6	3,644.03	6	3,975.40	6	4,305.01	6		6		6		6		6		6	
1/4	3,319.57	1/4	3,650.94	1/4	3,982.31	1/4	4,311.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,326.47	1/2	3,657.84	1/2	3,989.21	1/2	4,318.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,333.38	3/4	3,664.74	3/4	3,996.11	3/4	4,325.60	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,340.28	7	3,671.65	7	4,003.02	7	4,332.46	7		7		7		7		7		7	
1/4	3,347.18	1/4	3,678.55	1/4	4,009.88	1/4	4,339.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,354.09	1/2	3,685.46	1/2	4,016.74	1/2	4,346.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,360.99	3/4	3,692.36	3/4	4,023.61	3/4	4,352.83	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,367.89	8	3,699.26	8	4,030.47	8	4,359.62	8		8		8		8		8		8	
1/4	3,374.80	1/4	3,706.17	1/4	4,037.33	1/4	4,366.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,381.70	1/2	3,713.07	1/2	4,044.20	1/2	4,372.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,388.60	3/4	3,719.97	3/4	4,051.06	3/4	4,378.94	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,395.51	9	3,726.88	9	4,057.92	9	4,385.38	9		9		9		9		9		9	
1/4	3,402.41	1/4	3,733.78	1/4	4,064.79	1/4	4,390.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,409.32	1/2	3,740.68	1/2	4,071.65	1/2	4,395.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,416.22	3/4	3,747.59	3/4	4,078.51	3/4	4,401.04	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,423.12	10	3,754.49	10	4,085.38	10		10		10		10		10		10		10	
1/4	3,430.03	1/4	3,761.39	1/4	4,092.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,436.93	1/2	3,768.30	1/2	4,099.11	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,443.83	3/4	3,775.20	3/4	4,105.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,450.74	11	3,782.10	11	4,112.83	11		11		11		11		11		11		11	
1/4	3,457.64	1/4	3,789.01	1/4	4,119.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,464.54	1/2	3,795.91	1/2	4,126.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,471.45	3/4	3,802.81	3/4	4,133.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 380"

**1 STBD  
INNAGE 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	3,148.42	0	3,479.78	0	3,811.15	0	4,141.72	0		0		0		0		0		0	
1/4	3,155.32	1/4	3,486.69	1/4	3,818.05	1/4	4,148.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,162.23	1/2	3,493.59	1/2	3,824.95	1/2	4,155.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,169.13	3/4	3,500.49	3/4	3,831.86	3/4	4,162.31	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,176.03	1	3,507.40	1	3,838.76	1	4,169.17	1		1		1		1		1		1	
1/4	3,182.94	1/4	3,514.30	1/4	3,845.66	1/4	4,176.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,189.84	1/2	3,521.20	1/2	3,852.57	1/2	4,182.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,196.74	3/4	3,528.11	3/4	3,859.47	3/4	4,189.77	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,203.65	2	3,535.01	2	3,866.37	2	4,196.63	2		2		2		2		2		2	
1/4	3,210.55	1/4	3,541.91	1/4	3,873.28	1/4	4,203.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,217.45	1/2	3,548.82	1/2	3,880.18	1/2	4,210.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,224.36	3/4	3,555.72	3/4	3,887.08	3/4	4,217.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,231.26	3	3,562.62	3	3,893.99	3	4,224.09	3		3		3		3		3		3	
1/4	3,238.16	1/4	3,569.53	1/4	3,900.89	1/4	4,230.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.07	1/2	3,576.43	1/2	3,907.79	1/2	4,237.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.97	3/4	3,583.33	3/4	3,914.70	3/4	4,244.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,258.87	4	3,590.24	4	3,921.60	4	4,251.54	4		4		4		4		4		4	
1/4	3,265.78	1/4	3,597.14	1/4	3,928.50	1/4	4,258.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,272.68	1/2	3,604.04	1/2	3,935.41	1/2	4,265.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,279.58	3/4	3,610.95	3/4	3,942.31	3/4	4,272.13	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,286.49	5	3,617.85	5	3,949.21	5	4,279.00	5		5		5		5		5		5	
1/4	3,293.39	1/4	3,624.75	1/4	3,956.12	1/4	4,285.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,300.29	1/2	3,631.66	1/2	3,963.02	1/2	4,292.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,307.20	3/4	3,638.56	3/4	3,969.92	3/4	4,299.59	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,314.10	6	3,645.46	6	3,976.83	6	4,306.45	6		6		6		6		6		6	
1/4	3,321.00	1/4	3,652.37	1/4	3,983.73	1/4	4,313.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,327.91	1/2	3,659.27	1/2	3,990.63	1/2	4,320.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,334.81	3/4	3,666.17	3/4	3,997.54	3/4	4,327.04	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,341.71	7	3,673.08	7	4,004.44	7	4,333.91	7		7		7		7		7		7	
1/4	3,348.62	1/4	3,679.98	1/4	4,011.31	1/4	4,340.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,355.52	1/2	3,686.88	1/2	4,018.17	1/2	4,347.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,362.42	3/4	3,693.79	3/4	4,025.03	3/4	4,354.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,369.33	8	3,700.69	8	4,031.90	8	4,361.07	8		8		8		8		8		8	
1/4	3,376.23	1/4	3,707.59	1/4	4,038.76	1/4	4,367.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,383.14	1/2	3,714.50	1/2	4,045.62	1/2	4,373.94	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,390.04	3/4	3,721.40	3/4	4,052.49	3/4	4,380.38	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,396.94	9	3,728.31	9	4,059.35	9	4,386.82	9		9		9		9		9		9	
1/4	3,403.85	1/4	3,735.21	1/4	4,066.22	1/4	4,393.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,410.75	1/2	3,742.11	1/2	4,073.08	1/2	4,397.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,417.65	3/4	3,749.02	3/4	4,079.94	3/4	4,402.49	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,424.56	10	3,755.92	10	4,086.81	10		10		10		10		10		10		10	
1/4	3,431.46	1/4	3,762.82	1/4	4,093.67	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,438.36	1/2	3,769.73	1/2	4,100.54	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,445.27	3/4	3,776.63	3/4	4,107.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,452.17	11	3,783.53	11	4,114.26	11		11		11		11		11		11		11	
1/4	3,459.07	1/4	3,790.44	1/4	4,121.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,465.98	1/2	3,797.34	1/2	4,127.99	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,472.88	3/4	3,804.24	3/4	4,134.86	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 2 PORT INNAGE 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	3,874.08	0	4,262.13	0	4,650.17	0	5,037.27	0		0		0		0		0		0	
1/4	3,882.17	1/4	4,270.21	1/4	4,658.25	1/4	5,045.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,890.25	1/2	4,278.29	1/2	4,666.34	1/2	5,053.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,898.34	3/4	4,286.38	3/4	4,674.42	3/4	5,061.38	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,906.42	1	4,294.46	1	4,682.50	1	5,069.42	1		1		1		1		1		1	
1/4	3,914.50	1/4	4,302.55	1/4	4,690.59	1/4	5,077.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,922.59	1/2	4,310.63	1/2	4,698.67	1/2	5,085.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,930.67	3/4	4,318.71	3/4	4,706.76	3/4	5,093.53	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,938.76	2	4,326.80	2	4,714.84	2	5,101.57	2		2		2		2		2		2	
1/4	3,946.84	1/4	4,334.88	1/4	4,722.92	1/4	5,109.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,954.93	1/2	4,342.97	1/2	4,731.01	1/2	5,117.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,963.01	3/4	4,351.05	3/4	4,739.09	3/4	5,125.68	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,971.09	3	4,359.14	3	4,747.18	3	5,133.72	3		3		3		3		3		3	
1/4	3,979.18	1/4	4,367.22	1/4	4,755.26	1/4	5,141.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,987.26	1/2	4,375.30	1/2	4,763.35	1/2	5,149.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,995.35	3/4	4,383.39	3/4	4,771.43	3/4	5,157.83	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,003.43	4	4,391.47	4	4,779.51	4	5,165.87	4		4		4		4		4		4	
1/4	4,011.52	1/4	4,399.56	1/4	4,787.60	1/4	5,173.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,019.60	1/2	4,407.64	1/2	4,795.68	1/2	5,181.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,027.68	3/4	4,415.73	3/4	4,803.77	3/4	5,189.98	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,035.77	5	4,423.81	5	4,811.85	5	5,198.02	5		5		5		5		5		5	
1/4	4,043.85	1/4	4,431.89	1/4	4,819.94	1/4	5,206.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,051.94	1/2	4,439.98	1/2	4,828.02	1/2	5,214.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,060.02	3/4	4,448.06	3/4	4,836.10	3/4	5,222.13	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,068.10	6	4,456.15	6	4,844.19	6	5,230.17	6		6		6		6		6		6	
1/4	4,076.19	1/4	4,464.23	1/4	4,852.27	1/4	5,238.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,084.27	1/2	4,472.31	1/2	4,860.36	1/2	5,246.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,092.36	3/4	4,480.40	3/4	4,868.44	3/4	5,254.28	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,100.44	7	4,488.48	7	4,876.52	7	5,262.32	7		7		7		7		7		7	
1/4	4,108.53	1/4	4,496.57	1/4	4,884.56	1/4	5,270.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,116.61	1/2	4,504.65	1/2	4,892.60	1/2	5,278.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,124.69	3/4	4,512.74	3/4	4,900.64	3/4	5,286.17	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,132.78	8	4,520.82	8	4,908.67	8	5,294.12	8		8		8		8		8		8	
1/4	4,140.86	1/4	4,528.90	1/4	4,916.71	1/4	5,301.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,148.95	1/2	4,536.99	1/2	4,924.75	1/2	5,309.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,157.03	3/4	4,545.07	3/4	4,932.79	3/4	5,316.74	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,165.11	9	4,553.16	9	4,940.82	9	5,324.28	9		9		9		9		9		9	
1/4	4,173.20	1/4	4,561.24	1/4	4,948.86	1/4	5,330.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,181.28	1/2	4,569.32	1/2	4,956.90	1/2	5,336.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,189.37	3/4	4,577.41	3/4	4,964.94	3/4	5,342.62	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,197.45	10	4,585.49	10	4,972.97	10		10		10		10		10		10		10	
1/4	4,205.54	1/4	4,593.58	1/4	4,981.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,213.62	1/2	4,601.66	1/2	4,989.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,221.70	3/4	4,609.75	3/4	4,997.09	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,229.79	11	4,617.83	11	5,005.12	11		11		11		11		11		11		11	
1/4	4,237.87	1/4	4,625.91	1/4	5,013.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,245.96	1/2	4,634.00	1/2	5,021.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,254.04	3/4	4,642.08	3/4	5,029.24	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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







# BARGE "EMS 380"

## 2 STBD INNAGE 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	3,888.98	0	4,277.02	0	4,665.07	0	5,052.17	0		0		0		0		0		0	
1/4	3,897.06	1/4	4,285.11	1/4	4,673.16	1/4	5,060.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,905.15	1/2	4,293.19	1/2	4,681.24	1/2	5,068.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,913.23	3/4	4,301.28	3/4	4,689.32	3/4	5,076.28	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,921.32	1	4,309.36	1	4,697.41	1	5,084.32	1		1		1		1		1		1	
1/4	3,929.40	1/4	4,317.45	1/4	4,705.49	1/4	5,092.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,937.48	1/2	4,325.53	1/2	4,713.58	1/2	5,100.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,945.57	3/4	4,333.61	3/4	4,721.66	3/4	5,108.43	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,953.65	2	4,341.70	2	4,729.75	2	5,116.47	2		2		2		2		2		2	
1/4	3,961.74	1/4	4,349.78	1/4	4,737.83	1/4	5,124.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,969.82	1/2	4,357.87	1/2	4,745.91	1/2	5,132.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,977.91	3/4	4,365.95	3/4	4,754.00	3/4	5,140.58	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,985.99	3	4,374.04	3	4,762.08	3	5,148.62	3		3		3		3		3		3	
1/4	3,994.07	1/4	4,382.12	1/4	4,770.17	1/4	5,156.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,002.16	1/2	4,390.20	1/2	4,778.25	1/2	5,164.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,010.24	3/4	4,398.29	3/4	4,786.34	3/4	5,172.73	3/4		3/4		3/4		3/4		3/4		3/4	
4	4,018.33	4	4,406.37	4	4,794.42	4	5,180.76	4		4		4		4		4		4	
1/4	4,026.41	1/4	4,414.46	1/4	4,802.50	1/4	5,188.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,034.50	1/2	4,422.54	1/2	4,810.59	1/2	5,196.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,042.58	3/4	4,430.63	3/4	4,818.67	3/4	5,204.87	3/4		3/4		3/4		3/4		3/4		3/4	
5	4,050.66	5	4,438.71	5	4,826.76	5	5,212.91	5		5		5		5		5		5	
1/4	4,058.75	1/4	4,446.79	1/4	4,834.84	1/4	5,220.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,066.83	1/2	4,454.88	1/2	4,842.93	1/2	5,228.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,074.92	3/4	4,462.96	3/4	4,851.01	3/4	5,237.02	3/4		3/4		3/4		3/4		3/4		3/4	
6	4,083.00	6	4,471.05	6	4,859.09	6	5,245.06	6		6		6		6		6		6	
1/4	4,091.09	1/4	4,479.13	1/4	4,867.18	1/4	5,253.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,099.17	1/2	4,487.22	1/2	4,875.26	1/2	5,261.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,107.25	3/4	4,495.30	3/4	4,883.35	3/4	5,269.17	3/4		3/4		3/4		3/4		3/4		3/4	
7	4,115.34	7	4,503.38	7	4,891.43	7	5,277.21	7		7		7		7		7		7	
1/4	4,123.42	1/4	4,511.47	1/4	4,899.47	1/4	5,285.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,131.51	1/2	4,519.55	1/2	4,907.51	1/2	5,293.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,139.59	3/4	4,527.64	3/4	4,915.54	3/4	5,301.06	3/4		3/4		3/4		3/4		3/4		3/4	
8	4,147.68	8	4,535.72	8	4,923.58	8	5,309.01	8		8		8		8		8		8	
1/4	4,155.76	1/4	4,543.81	1/4	4,931.62	1/4	5,316.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,163.84	1/2	4,551.89	1/2	4,939.65	1/2	5,324.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,171.93	3/4	4,559.97	3/4	4,947.69	3/4	5,331.63	3/4		3/4		3/4		3/4		3/4		3/4	
9	4,180.01	9	4,568.06	9	4,955.73	9	5,339.17	9		9		9		9		9		9	
1/4	4,188.10	1/4	4,576.14	1/4	4,963.76	1/4	5,346.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,196.18	1/2	4,584.23	1/2	4,971.80	1/2	5,351.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,204.27	3/4	4,592.31	3/4	4,979.84	3/4	5,357.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	4,212.35	10	4,600.40	10	4,987.88	10		10		10		10		10		10		10	
1/4	4,220.43	1/4	4,608.48	1/4	4,995.91	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,228.52	1/2	4,616.56	1/2	5,003.95	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,236.60	3/4	4,624.65	3/4	5,011.99	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	4,244.69	11	4,632.73	11	5,020.02	11		11		11		11		11		11		11	
1/4	4,252.77	1/4	4,640.82	1/4	5,028.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,260.86	1/2	4,648.90	1/2	5,036.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,268.94	3/4	4,656.99	3/4	5,044.13	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 3 PORT INNAGE 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	3,574.18	0	3,880.64	0	4,187.11	0	4,492.84	0		0		0		0		0		0	
1/4	3,580.56	1/4	3,887.03	1/4	4,193.49	1/4	4,499.19	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,586.95	1/2	3,893.41	1/2	4,199.88	1/2	4,505.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,593.33	3/4	3,899.80	3/4	4,206.26	3/4	4,511.89	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,599.72	1	3,906.18	1	4,212.65	1	4,518.24	1		1		1		1		1		1	
1/4	3,606.10	1/4	3,912.57	1/4	4,219.03	1/4	4,524.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,612.48	1/2	3,918.95	1/2	4,225.42	1/2	4,530.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,618.87	3/4	3,925.34	3/4	4,231.80	3/4	4,537.28	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,625.25	2	3,931.72	2	4,238.19	2	4,543.63	2		2		2		2		2		2	
1/4	3,631.64	1/4	3,938.10	1/4	4,244.57	1/4	4,549.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,638.02	1/2	3,944.49	1/2	4,250.95	1/2	4,556.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,644.41	3/4	3,950.87	3/4	4,257.34	3/4	4,562.67	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,650.79	3	3,957.26	3	4,263.72	3	4,569.02	3		3		3		3		3		3	
1/4	3,657.18	1/4	3,963.64	1/4	4,270.11	1/4	4,575.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,663.56	1/2	3,970.03	1/2	4,276.49	1/2	4,581.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,669.95	3/4	3,976.41	3/4	4,282.88	3/4	4,588.07	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,676.33	4	3,982.80	4	4,289.26	4	4,594.41	4		4		4		4		4		4	
1/4	3,682.72	1/4	3,989.18	1/4	4,295.65	1/4	4,600.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,689.10	1/2	3,995.57	1/2	4,302.03	1/2	4,607.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,695.49	3/4	4,001.95	3/4	4,308.42	3/4	4,613.46	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,701.87	5	4,008.34	5	4,314.80	5	4,619.81	5		5		5		5		5		5	
1/4	3,708.26	1/4	4,014.72	1/4	4,321.19	1/4	4,626.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.64	1/2	4,021.11	1/2	4,327.57	1/2	4,632.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,721.02	3/4	4,027.49	3/4	4,333.96	3/4	4,638.85	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,727.41	6	4,033.88	6	4,340.34	6	4,645.20	6		6		6		6		6		6	
1/4	3,733.79	1/4	4,040.26	1/4	4,346.73	1/4	4,651.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,740.18	1/2	4,046.64	1/2	4,353.11	1/2	4,657.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.56	3/4	4,053.03	3/4	4,359.49	3/4	4,664.24	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,752.95	7	4,059.41	7	4,365.88	7	4,670.59	7		7		7		7		7		7	
1/4	3,759.33	1/4	4,065.80	1/4	4,372.23	1/4	4,678.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,765.72	1/2	4,072.18	1/2	4,378.58	1/2	4,685.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,772.10	3/4	4,078.57	3/4	4,384.92	3/4	4,692.81	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,778.49	8	4,084.95	8	4,391.27	8	4,700.22	8		8		8		8		8		8	
1/4	3,784.87	1/4	4,091.34	1/4	4,397.62	1/4	4,707.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.26	1/2	4,097.72	1/2	4,403.97	1/2	4,714.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,797.64	3/4	4,104.11	3/4	4,410.32	3/4	4,721.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,804.03	9	4,110.49	9	4,416.67	9	4,728.31	9		9		9		9		9		9	
1/4	3,810.41	1/4	4,116.88	1/4	4,423.01	1/4	4,734.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,816.80	1/2	4,123.26	1/2	4,429.36	1/2	4,739.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,823.18	3/4	4,129.65	3/4	4,435.71	3/4	4,745.39	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,829.56	10	4,136.03	10	4,442.06	10		10		10		10		10		10		10	
1/4	3,835.95	1/4	4,142.41	1/4	4,448.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,842.33	1/2	4,148.80	1/2	4,454.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,848.72	3/4	4,155.18	3/4	4,461.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,855.10	11	4,161.57	11	4,467.45	11		11		11		11		11		11		11	
1/4	3,861.49	1/4	4,167.95	1/4	4,473.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,867.87	1/2	4,174.34	1/2	4,480.15	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,874.26	3/4	4,180.72	3/4	4,486.50	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 3 STBD INNAGE 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,569.35	0	3,875.81	0	4,182.27	0	4,488.00	0		0		0		0		0		0	
1/4	3,575.73	1/4	3,882.19	1/4	4,188.66	1/4	4,494.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,582.12	1/2	3,888.58	1/2	4,195.04	1/2	4,500.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,588.50	3/4	3,894.96	3/4	4,201.42	3/4	4,507.04	3/4		3/4		3/4		3/4		3/4		3/4	
1	3,594.89	1	3,901.35	1	4,207.81	1	4,513.39	1		1		1		1		1		1	
1/4	3,601.27	1/4	3,907.73	1/4	4,214.19	1/4	4,519.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,607.66	1/2	3,914.12	1/2	4,220.58	1/2	4,526.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,614.04	3/4	3,920.50	3/4	4,226.96	3/4	4,532.43	3/4		3/4		3/4		3/4		3/4		3/4	
2	3,620.43	2	3,926.89	2	4,233.35	2	4,538.78	2		2		2		2		2		2	
1/4	3,626.81	1/4	3,933.27	1/4	4,239.73	1/4	4,545.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,633.20	1/2	3,939.66	1/2	4,246.12	1/2	4,551.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,639.58	3/4	3,946.04	3/4	4,252.50	3/4	4,557.82	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,645.96	3	3,952.43	3	4,258.89	3	4,564.17	3		3		3		3		3		3	
1/4	3,652.35	1/4	3,958.81	1/4	4,265.27	1/4	4,570.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.73	1/2	3,965.19	1/2	4,271.66	1/2	4,576.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,665.12	3/4	3,971.58	3/4	4,278.04	3/4	4,583.22	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,671.50	4	3,977.96	4	4,284.42	4	4,589.56	4		4		4		4		4		4	
1/4	3,677.89	1/4	3,984.35	1/4	4,290.81	1/4	4,595.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,684.27	1/2	3,990.73	1/2	4,297.19	1/2	4,602.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,690.66	3/4	3,997.12	3/4	4,303.58	3/4	4,608.61	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,697.04	5	4,003.50	5	4,309.96	5	4,614.96	5		5		5		5		5		5	
1/4	3,703.43	1/4	4,009.89	1/4	4,316.35	1/4	4,621.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.81	1/2	4,016.27	1/2	4,322.73	1/2	4,627.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,716.20	3/4	4,022.66	3/4	4,329.12	3/4	4,634.00	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,722.58	6	4,029.04	6	4,335.50	6	4,640.35	6		6		6		6		6		6	
1/4	3,728.96	1/4	4,035.43	1/4	4,341.89	1/4	4,646.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.35	1/2	4,041.81	1/2	4,348.27	1/2	4,653.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.73	3/4	4,048.19	3/4	4,354.66	3/4	4,659.39	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,748.12	7	4,054.58	7	4,361.04	7	4,665.74	7		7		7		7		7		7	
1/4	3,754.50	1/4	4,060.96	1/4	4,367.39	1/4	4,673.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.89	1/2	4,067.35	1/2	4,373.74	1/2	4,680.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,767.27	3/4	4,073.73	3/4	4,380.08	3/4	4,687.96	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,773.66	8	4,080.12	8	4,386.43	8	4,695.37	8		8		8		8		8		8	
1/4	3,780.04	1/4	4,086.50	1/4	4,392.78	1/4	4,702.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,786.43	1/2	4,092.89	1/2	4,399.13	1/2	4,709.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,792.81	3/4	4,099.27	3/4	4,405.48	3/4	4,716.43	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,799.20	9	4,105.66	9	4,411.82	9	4,723.45	9		9		9		9		9		9	
1/4	3,805.58	1/4	4,112.04	1/4	4,418.17	1/4	4,729.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,811.96	1/2	4,118.43	1/2	4,424.52	1/2	4,734.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,818.35	3/4	4,124.81	3/4	4,430.87	3/4	4,740.53	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,824.73	10	4,131.19	10	4,437.21	10		10		10		10		10		10		10	
1/4	3,831.12	1/4	4,137.58	1/4	4,443.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,837.50	1/2	4,143.96	1/2	4,449.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,843.89	3/4	4,150.35	3/4	4,456.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	3,850.27	11	4,156.73	11	4,462.61	11		11		11		11		11		11		11	
1/4	3,856.66	1/4	4,163.12	1/4	4,468.95	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,863.04	1/2	4,169.50	1/2	4,475.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,869.43	3/4	4,175.89	3/4	4,481.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 380"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
1 STBD	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-3/4	- 00-3/4	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-1/2	- 01-1/2
2 PORT	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
2 STBD	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

December 7, 2012

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 380"

## 1 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		0		0		0		0		0		0	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
1		1		1		1		1		1		1		1		1		1	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
2		2		2		2		2		2		2		2		2		2	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
3		3		3		3		3		3		3		3		3		3	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
4		4		4		4		4		4		4		4		4		4	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
5		5		5		5		5		5		5		5		5		5	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
6		6		6		6		6		6		6		6		6		6	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
7		7		7		7		7		7		7		7		7		7	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
8		8		8		8		8		8		8		8		8		8	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
9		9		9		9		9		9		9		9		9		9	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
10		10		10		10		10		10		10		10		10		10	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
11		11		11		11		11		11		11		11		11		11	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" 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 380"

## 1 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	1,938.75	0	1,607.33	0	1,275.92	0	948.74	0	641.84	0	353.10	0	84.24	0		0		0	
1/4	1,931.85	1/4	1,600.43	1/4	1,269.01	1/4	942.12	1/4	635.61	1/4	347.28	1/4	78.83	1/4	1/4	1/4		1/4	
1/2	1,924.94	1/2	1,593.53	1/2	1,262.11	1/2	935.53	1/2	629.42	1/2	341.50	1/2	73.47	1/2	1/2	1/2		1/2	
3/4	1,918.04	3/4	1,586.62	3/4	1,255.21	3/4	928.94	3/4	623.22	3/4	335.72	3/4	68.10	3/4	3/4	3/4		3/4	
1	1,911.13	1	1,579.72	1	1,248.30	1	922.36	1	617.02	1	329.94	1	62.73	1	1	1		1	
1/4	1,904.23	1/4	1,572.81	1/4	1,241.40	1/4	915.77	1/4	610.83	1/4	324.15	1/4	57.36	1/4	1/4	1/4		1/4	
1/2	1,897.32	1/2	1,565.91	1/2	1,234.49	1/2	909.24	1/2	604.66	1/2	318.40	1/2	52.03	1/2	1/2	1/2		1/2	
3/4	1,890.42	3/4	1,559.00	3/4	1,227.59	3/4	902.70	3/4	598.50	3/4	312.66	3/4	46.69	3/4	3/4	3/4		3/4	
2	1,883.51	2	1,552.10	2	1,220.68	2	896.17	2	592.34	2	306.91	2	41.36	2	2	2		2	
1/4	1,876.61	1/4	1,545.19	1/4	1,213.78	1/4	889.63	1/4	586.18	1/4	301.16	1/4	36.03	1/4	1/4	1/4		1/4	
1/2	1,869.71	1/2	1,538.29	1/2	1,206.87	1/2	883.13	1/2	580.05	1/2	295.45	1/2	30.97	1/2	1/2	1/2		1/2	
3/4	1,862.80	3/4	1,531.39	3/4	1,199.97	3/4	876.63	3/4	573.92	3/4	289.73	3/4	25.92	3/4	3/4	3/4		3/4	
3	1,855.90	3	1,524.48	3	1,193.06	3	870.13	3	567.79	3	284.02	3	20.87	3	3	3		3	
1/4	1,848.99	1/4	1,517.58	1/4	1,186.16	1/4	863.63	1/4	561.67	1/4	278.31	1/4	15.81	1/4	1/4	1/4		1/4	
1/2	1,842.09	1/2	1,510.67	1/2	1,179.26	1/2	857.17	1/2	555.57	1/2	272.63	1/2	12.52	1/2	1/2	1/2		1/2	
3/4	1,835.18	3/4	1,503.77	3/4	1,172.35	3/4	850.70	3/4	549.48	3/4	266.95	3/4	9.23	3/4	3/4	3/4		3/4	
4	1,828.28	4	1,496.86	4	1,165.45	4	844.24	4	543.39	4	261.27	4	5.94	4	4	4		4	
1/4	1,821.37	1/4	1,489.96	1/4	1,158.54	1/4	837.77	1/4	537.29	1/4	255.59	1/4	2.65	1/4	1/4	1/4		1/4	
1/2	1,814.47	1/2	1,483.05	1/2	1,151.66	1/2	831.34	1/2	531.23	1/2	249.95	1/2		1/2	1/2	1/2		1/2	
3/4	1,807.57	3/4	1,476.15	3/4	1,144.77	3/4	824.92	3/4	525.18	3/4	244.30	3/4		3/4	3/4	3/4		3/4	
5	1,800.66	5	1,469.24	5	1,137.88	5	818.49	5	519.12	5	238.66	5		5	5	5		5	
1/4	1,793.76	1/4	1,462.34	1/4	1,130.99	1/4	812.07	1/4	513.06	1/4	233.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,786.85	1/2	1,455.44	1/2	1,124.14	1/2	805.67	1/2	507.03	1/2	227.40	1/2		1/2	1/2	1/2		1/2	
3/4	1,779.95	3/4	1,448.53	3/4	1,117.29	3/4	799.28	3/4	501.01	3/4	221.79	3/4		3/4	3/4	3/4		3/4	
6	1,773.04	6	1,441.63	6	1,110.44	6	792.89	6	494.99	6	216.18	6		6	6	6		6	
1/4	1,766.14	1/4	1,434.72	1/4	1,103.58	1/4	786.50	1/4	488.96	1/4	210.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,759.23	1/2	1,427.82	1/2	1,096.76	1/2	780.14	1/2	482.97	1/2	205.00	1/2		1/2	1/2	1/2		1/2	
3/4	1,752.33	3/4	1,420.91	3/4	1,089.95	3/4	773.77	3/4	476.98	3/4	199.42	3/4		3/4	3/4	3/4		3/4	
7	1,745.42	7	1,414.01	7	1,083.13	7	767.41	7	470.99	7	193.85	7		7	7	7		7	
1/4	1,738.52	1/4	1,407.10	1/4	1,076.31	1/4	761.05	1/4	465.00	1/4	188.27	1/4		1/4	1/4	1/4		1/4	
1/2	1,731.62	1/2	1,400.20	1/2	1,069.53	1/2	754.72	1/2	459.05	1/2	182.73	1/2		1/2	1/2	1/2		1/2	
3/4	1,724.71	3/4	1,393.30	3/4	1,062.74	3/4	748.40	3/4	453.09	3/4	177.19	3/4		3/4	3/4	3/4		3/4	
8	1,717.81	8	1,386.39	8	1,055.96	8	742.07	8	447.14	8	171.65	8		8	8	8		8	
1/4	1,710.90	1/4	1,379.49	1/4	1,049.18	1/4	735.74	1/4	441.18	1/4	166.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,704.00	1/2	1,372.58	1/2	1,042.43	1/2	729.45	1/2	435.26	1/2	160.60	1/2		1/2	1/2	1/2		1/2	
3/4	1,697.09	3/4	1,365.68	3/4	1,035.68	3/4	723.16	3/4	429.34	3/4	155.10	3/4		3/4	3/4	3/4		3/4	
9	1,690.19	9	1,358.77	9	1,028.93	9	716.86	9	423.42	9	149.59	9		9	9	9		9	
1/4	1,683.28	1/4	1,351.87	1/4	1,022.18	1/4	710.57	1/4	417.50	1/4	144.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,676.38	1/2	1,344.96	1/2	1,015.46	1/2	704.30	1/2	411.62	1/2	138.61	1/2		1/2	1/2	1/2		1/2	
3/4	1,669.48	3/4	1,338.06	3/4	1,008.75	3/4	698.03	3/4	405.73	3/4	133.14	3/4		3/4	3/4	3/4		3/4	
10	1,662.57	10	1,331.15	10	1,002.03	10	691.76	10	399.84	10	127.67	10		10	10	10		10	
1/4	1,655.67	1/4	1,324.25	1/4	995.32	1/4	685.48	1/4	393.96	1/4	122.19	1/4		1/4	1/4	1/4		1/4	
1/2	1,648.76	1/2	1,317.35	1/2	988.64	1/2	679.25	1/2	388.11	1/2	116.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,641.86	3/4	1,310.44	3/4	981.96	3/4	673.01	3/4	382.25	3/4	111.32	3/4		3/4	3/4	3/4		3/4	
11	1,634.95	11	1,303.54	11	975.28	11	666.77	11	376.40	11	105.88	11		11	11	11		11	
1/4	1,628.05	1/4	1,296.63	1/4	968.60	1/4	660.54	1/4	370.55	1/4	100.45	1/4		1/4	1/4	1/4		1/4	
1/2	1,621.14	1/2	1,289.73	1/2	961.98	1/2	654.31	1/2	364.73	1/2	95.04	1/2		1/2	1/2	1/2		1/2	
3/4	1,614.24	3/4	1,282.82	3/4	955.36	3/4	648.07	3/4	358.92	3/4	89.64	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 1 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	4,258.41	1/4	4,251.54	1/4	4,244.68	1/4	4,237.81	1/4	4,230.95	1/4	4,224.09	1/4	4,217.22	1/4	4,210.36	1/4	4,203.49	1/4	4,196.63
1/2	3,928.50	1/2	3,921.60	1/2	3,914.70	1/2	3,907.79	1/2	3,900.89	1/2	3,893.99	1/2	3,887.08	1/2	3,880.18	1/2	3,873.28	1/2	3,866.37
3/4	3,597.14	3/4	3,590.24	3/4	3,583.33	3/4	3,576.43	3/4	3,569.53	3/4	3,562.62	3/4	3,555.72	3/4	3,548.82	3/4	3,541.91	3/4	3,535.01
0	3,272.68	0	3,265.78	0	3,258.87	0	3,251.97	0	3,245.07	0	3,238.16	0	3,231.26	0	3,224.36	0	3,217.45	0	3,210.55
1/4	2,941.32	1/4	2,934.41	1/4	2,927.51	1/4	2,920.61	1/4	2,913.70	1/4	2,906.80	1/4	2,899.90	1/4	2,892.99	1/4	2,886.09	1/4	2,879.19
1/2	2,609.93	1/2	2,603.03	1/2	2,596.12	1/2	2,589.22	1/2	2,582.31	1/2	2,575.41	1/2	2,568.50	1/2	2,561.60	1/2	2,554.69	1/2	2,547.79
3/4	2,278.51	3/4	2,271.61	3/4	2,264.71	3/4	2,257.80	3/4	2,250.90	3/4	2,243.99	3/4	2,237.09	3/4	2,230.18	3/4	2,223.28	3/4	2,216.37
0	1,941.32	0	1,934.41	0	1,927.51	0	1,920.61	0	1,913.70	0	1,906.80	0	1,899.90	0	1,892.99	0	1,886.09	0	1,879.19
1/4	1,609.93	1/4	1,603.03	1/4	1,596.12	1/4	1,589.22	1/4	1,582.31	1/4	1,575.41	1/4	1,568.50	1/4	1,561.60	1/4	1,554.69	1/4	1,547.79
1/2	1,278.51	1/2	1,271.61	1/2	1,264.71	1/2	1,257.80	1/2	1,250.90	1/2	1,243.99	1/2	1,237.09	1/2	1,230.18	1/2	1,223.28	1/2	1,216.37
3/4	947.14	3/4	940.24	3/4	933.33	3/4	926.43	3/4	919.53	3/4	912.62	3/4	905.72	3/4	898.82	3/4	891.91	3/4	885.01
0	615.78	0	608.87	0	601.97	0	595.07	0	588.16	0	581.26	0	574.36	0	567.45	0	560.55	0	553.65
1/4	284.32	1/4	277.41	1/4	270.51	1/4	263.61	1/4	256.70	1/4	249.80	1/4	242.90	1/4	236.00	1/4	229.10	1/4	222.20
1/2	152.93	1/2	146.03	1/2	139.12	1/2	132.22	1/2	125.31	1/2	118.41	1/2	111.50	1/2	104.60	1/2	97.70	1/2	90.80
3/4	21.51	3/4	14.61	3/4	7.71	3/4	0.80	3/4	-6.10	3/4	-13.20	3/4	-20.30	3/4	-27.40	3/4	-34.50	3/4	-41.60

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "EMS 380"

## 1 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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,940.19	1/4	1,608.78	1/4	1,277.36	1/4	950.10	1/4	641.92	1/4	353.15	1/4	84.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,933.29	1/2	1,601.87	1/2	1,270.46	1/2	943.46	1/2	635.69	1/2	347.34	1/2	78.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,926.38	3/4	1,594.97	3/4	1,263.55	3/4	936.85	3/4	629.49	3/4	341.55	3/4	73.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	1,919.48	1	1,588.06	1	1,256.65	1	930.24	1	623.29	1	335.77	1	68.12	1	1	1	1	1	1	1	
1/4	1,912.58	1/4	1,581.16	1/4	1,249.74	1/4	923.62	1/4	617.10	1/4	329.99	1/4	62.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,905.67	1/2	1,574.26	1/2	1,242.84	1/2	917.01	1/2	610.90	1/2	324.20	1/2	57.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,898.77	3/4	1,567.35	3/4	1,235.93	3/4	910.45	3/4	604.74	3/4	318.45	3/4	52.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
2	1,891.86	2	1,560.45	2	1,229.03	2	903.89	2	598.57	2	312.71	2	46.71	2	2	2	2	2	2	2	
1/4	1,884.96	1/4	1,553.54	1/4	1,222.13	1/4	897.32	1/4	592.41	1/4	306.96	1/4	41.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,878.05	1/2	1,546.64	1/2	1,215.22	1/2	890.76	1/2	586.25	1/2	301.21	1/2	36.04	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,871.15	3/4	1,539.73	3/4	1,208.32	3/4	884.23	3/4	580.12	3/4	295.49	3/4	30.99	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
3	1,864.24	3	1,532.83	3	1,201.41	3	877.70	3	573.99	3	289.78	3	25.93	3	3	3	3	3	3	3	
1/4	1,857.34	1/4	1,525.92	1/4	1,194.51	1/4	871.17	1/4	567.87	1/4	284.07	1/4	20.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,850.44	1/2	1,519.02	1/2	1,187.60	1/2	864.64	1/2	561.74	1/2	278.35	1/2	15.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,843.53	3/4	1,512.11	3/4	1,180.70	3/4	858.15	3/4	555.64	3/4	272.67	3/4	12.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
4	1,836.63	4	1,505.21	4	1,173.79	4	851.65	4	549.55	4	266.99	4	9.24	4	4	4	4	4	4	4	
1/4	1,829.72	1/4	1,498.31	1/4	1,166.89	1/4	845.16	1/4	543.46	1/4	261.31	1/4	5.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,822.82	1/2	1,491.40	1/2	1,159.99	1/2	838.67	1/2	537.36	1/2	255.63	1/2	2.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,815.91	3/4	1,484.50	3/4	1,153.10	3/4	832.21	3/4	531.30	3/4	249.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
5	1,809.01	5	1,477.59	5	1,146.21	5	825.75	5	525.24	5	244.34	5		5	5	5	5	5	5	5	
1/4	1,802.10	1/4	1,470.69	1/4	1,139.32	1/4	819.30	1/4	519.19	1/4	238.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,795.20	1/2	1,463.78	1/2	1,132.44	1/2	812.84	1/2	513.13	1/2	233.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,788.29	3/4	1,456.88	3/4	1,125.58	3/4	806.42	3/4	507.10	3/4	227.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
6	1,781.39	6	1,449.97	6	1,118.73	6	800.00	6	501.08	6	221.83	6		6	6	6	6	6	6	6	
1/4	1,774.49	1/4	1,443.07	1/4	1,111.88	1/4	793.58	1/4	495.05	1/4	216.22	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,767.58	1/2	1,436.17	1/2	1,105.03	1/2	787.16	1/2	489.03	1/2	210.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,760.68	3/4	1,429.26	3/4	1,098.21	3/4	780.77	3/4	483.04	3/4	205.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
7	1,753.77	7	1,422.36	7	1,091.39	7	774.38	7	477.05	7	199.46	7		7	7	7	7	7	7	7	
1/4	1,746.87	1/4	1,415.45	1/4	1,084.57	1/4	767.99	1/4	471.06	1/4	193.88	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,739.96	1/2	1,408.55	1/2	1,077.75	1/2	761.59	1/2	465.07	1/2	188.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,733.06	3/4	1,401.64	3/4	1,070.97	3/4	755.24	3/4	459.11	3/4	182.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
8	1,726.15	8	1,394.74	8	1,064.18	8	748.88	8	453.16	8	177.22	8		8	8	8	8	8	8	8	
1/4	1,719.25	1/4	1,387.83	1/4	1,057.40	1/4	742.53	1/4	447.20	1/4	171.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,712.35	1/2	1,380.93	1/2	1,050.62	1/2	736.17	1/2	441.25	1/2	166.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,705.44	3/4	1,374.02	3/4	1,043.87	3/4	729.85	3/4	435.32	3/4	160.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
9	1,698.54	9	1,367.12	9	1,037.12	9	723.52	9	429.40	9	155.13	9		9	9	9	9	9	9	9	
1/4	1,691.63	1/4	1,360.22	1/4	1,030.37	1/4	717.20	1/4	423.48	1/4	149.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,684.73	1/2	1,353.31	1/2	1,023.62	1/2	710.88	1/2	417.56	1/2	144.11	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,677.82	3/4	1,346.41	3/4	1,016.91	3/4	704.58	3/4	411.67	3/4	138.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
10	1,670.92	10	1,339.50	10	1,010.19	10	698.28	10	405.79	10	133.17	10		10	10	10	10	10	10	10	
1/4	1,664.01	1/4	1,332.60	1/4	1,003.48	1/4	691.98	1/4	399.90	1/4	127.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,657.11	1/2	1,325.69	1/2	996.76	1/2	685.68	1/2	394.01	1/2	122.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,650.20	3/4	1,318.79	3/4	990.08	3/4	679.41	3/4	388.16	3/4	116.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
11	1,643.30	11	1,311.88	11	983.40	11	673.15	11	382.31	11	111.34	11		11	11	11	11	11	11	11	
1/4	1,636.40	1/4	1,304.98	1/4	976.72	1/4	666.88	1/4	376.46	1/4	105.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,629.49	1/2	1,298.08	1/2	970.04	1/2	660.61	1/2	370.61	1/2	100.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,622.59	3/4	1,291.17	3/4	963.39	3/4	654.38	3/4	364.79	3/4	95.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "EMS 380"

## 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		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 42'-00" 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 380"

## 2 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.	
0	2,459.21	0	2,071.11	0	1,683.01	0	1,294.91	0	906.81	0	533.66	0	145.90	0		0		0	
1/4	2,451.12	1/4	2,063.02	1/4	1,674.92	1/4	1,286.82	1/4	898.72	1/4	525.89	1/4	137.82	1/4	1/4	1/4		1/4	
1/2	2,443.04	1/2	2,054.94	1/2	1,666.84	1/2	1,278.74	1/2	890.94	1/2	517.80	1/2	129.73	1/2	1/2	1/2		1/2	
3/4	2,434.95	3/4	2,046.85	3/4	1,658.75	3/4	1,270.65	3/4	883.16	3/4	509.72	3/4	121.65	3/4	3/4	3/4		3/4	
1	2,426.86	1	2,038.77	1	1,650.67	1	1,262.57	1	875.38	1	501.63	1	113.56	1	1	1		1	
1/4	2,418.78	1/4	2,030.68	1/4	1,642.58	1/4	1,254.48	1/4	867.60	1/4	493.55	1/4	105.48	1/4	1/4	1/4		1/4	
1/2	2,410.69	1/2	2,022.59	1/2	1,634.50	1/2	1,246.40	1/2	859.82	1/2	485.46	1/2	97.39	1/2	1/2	1/2		1/2	
3/4	2,402.61	3/4	2,014.51	3/4	1,626.41	3/4	1,238.31	3/4	852.04	3/4	477.38	3/4	89.31	3/4	3/4	3/4		3/4	
2	2,394.52	2	2,006.42	2	1,618.32	2	1,230.23	2	844.26	2	469.29	2	81.22	2	2	2		2	
1/4	2,386.44	1/4	1,998.34	1/4	1,610.24	1/4	1,222.14	1/4	836.48	1/4	461.21	1/4	73.14	1/4	1/4	1/4		1/4	
1/2	2,378.35	1/2	1,990.25	1/2	1,602.15	1/2	1,214.05	1/2	828.71	1/2	453.12	1/2	65.34	1/2	1/2	1/2		1/2	
3/4	2,370.27	3/4	1,982.17	3/4	1,594.07	3/4	1,205.97	3/4	820.94	3/4	445.04	3/4	57.55	3/4	3/4	3/4		3/4	
3	2,362.18	3	1,974.08	3	1,585.98	3	1,197.88	3	813.16	3	436.95	3	49.75	3	3	3		3	
1/4	2,354.10	1/4	1,966.00	1/4	1,577.90	1/4	1,189.80	1/4	805.39	1/4	428.87	1/4	41.95	1/4	1/4	1/4		1/4	
1/2	2,346.01	1/2	1,957.91	1/2	1,569.81	1/2	1,181.71	1/2	797.62	1/2	420.78	1/2	36.18	1/2	1/2	1/2		1/2	
3/4	2,337.93	3/4	1,949.83	3/4	1,561.73	3/4	1,173.63	3/4	789.86	3/4	412.70	3/4	30.41	3/4	3/4	3/4		3/4	
4	2,329.84	4	1,941.74	4	1,553.64	4	1,165.54	4	782.10	4	404.61	4	24.63	4	4	4		4	
1/4	2,321.75	1/4	1,933.66	1/4	1,545.56	1/4	1,157.46	1/4	774.33	1/4	396.53	1/4	18.86	1/4	1/4	1/4		1/4	
1/2	2,313.67	1/2	1,925.57	1/2	1,537.47	1/2	1,149.37	1/2	766.57	1/2	388.44	1/2		1/2	1/2	1/2		1/2	
3/4	2,305.58	3/4	1,917.48	3/4	1,529.39	3/4	1,141.29	3/4	758.80	3/4	380.36	3/4		3/4	3/4	3/4		3/4	
5	2,297.50	5	1,909.40	5	1,521.30	5	1,133.20	5	751.04	5	372.28	5		5	5	5		5	
1/4	2,289.41	1/4	1,901.31	1/4	1,513.21	1/4	1,125.12	1/4	743.28	1/4	364.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,281.33	1/2	1,893.23	1/2	1,505.13	1/2	1,117.03	1/2	735.51	1/2	356.11	1/2		1/2	1/2	1/2		1/2	
3/4	2,273.24	3/4	1,885.14	3/4	1,497.04	3/4	1,108.94	3/4	727.75	3/4	348.02	3/4		3/4	3/4	3/4		3/4	
6	2,265.16	6	1,877.06	6	1,488.96	6	1,100.86	6	719.98	6	339.94	6		6	6	6		6	
1/4	2,257.07	1/4	1,868.97	1/4	1,480.87	1/4	1,092.77	1/4	712.22	1/4	331.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,248.99	1/2	1,860.89	1/2	1,472.79	1/2	1,084.69	1/2	704.46	1/2	323.77	1/2		1/2	1/2	1/2		1/2	
3/4	2,240.90	3/4	1,852.80	3/4	1,464.70	3/4	1,076.60	3/4	696.70	3/4	315.68	3/4		3/4	3/4	3/4		3/4	
7	2,232.81	7	1,844.72	7	1,456.62	7	1,068.52	7	688.94	7	307.60	7		7	7	7		7	
1/4	2,224.73	1/4	1,836.63	1/4	1,448.53	1/4	1,060.43	1/4	681.18	1/4	299.51	1/4		1/4	1/4	1/4		1/4	
1/2	2,216.64	1/2	1,828.54	1/2	1,440.45	1/2	1,052.35	1/2	673.42	1/2	291.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,208.56	3/4	1,820.46	3/4	1,432.36	3/4	1,044.26	3/4	665.66	3/4	283.34	3/4		3/4	3/4	3/4		3/4	
8	2,200.47	8	1,812.37	8	1,424.27	8	1,036.18	8	657.90	8	275.26	8		8	8	8		8	
1/4	2,192.39	1/4	1,804.29	1/4	1,416.19	1/4	1,028.09	1/4	650.15	1/4	267.17	1/4		1/4	1/4	1/4		1/4	
1/2	2,184.30	1/2	1,796.20	1/2	1,408.10	1/2	1,020.00	1/2	642.38	1/2	259.09	1/2		1/2	1/2	1/2		1/2	
3/4	2,176.22	3/4	1,788.12	3/4	1,400.02	3/4	1,011.92	3/4	634.62	3/4	251.00	3/4		3/4	3/4	3/4		3/4	
9	2,168.13	9	1,780.03	9	1,391.93	9	1,003.83	9	626.85	9	242.92	9		9	9	9		9	
1/4	2,160.05	1/4	1,771.95	1/4	1,383.85	1/4	995.75	1/4	619.09	1/4	234.83	1/4		1/4	1/4	1/4		1/4	
1/2	2,151.96	1/2	1,763.86	1/2	1,375.76	1/2	987.66	1/2	611.33	1/2	226.75	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.88	3/4	1,755.78	3/4	1,367.68	3/4	979.58	3/4	603.56	3/4	218.66	3/4		3/4	3/4	3/4		3/4	
10	2,135.79	10	1,747.69	10	1,359.59	10	971.49	10	595.80	10	210.58	10		10	10	10		10	
1/4	2,127.70	1/4	1,739.61	1/4	1,351.51	1/4	963.41	1/4	588.03	1/4	202.49	1/4		1/4	1/4	1/4		1/4	
1/2	2,119.62	1/2	1,731.52	1/2	1,343.42	1/2	955.32	1/2	580.27	1/2	194.41	1/2		1/2	1/2	1/2		1/2	
3/4	2,111.53	3/4	1,723.43	3/4	1,335.34	3/4	947.24	3/4	572.51	3/4	186.32	3/4		3/4	3/4	3/4		3/4	
11	2,103.45	11	1,715.35	11	1,327.25	11	939.15	11	564.74	11	178.24	11		11	11	11		11	
1/4	2,095.36	1/4	1,707.26	1/4	1,319.16	1/4	931.07	1/4	556.98	1/4	170.16	1/4		1/4	1/4	1/4		1/4	
1/2	2,087.28	1/2	1,699.18	1/2	1,311.08	1/2	922.98	1/2	549.21	1/2	162.07	1/2		1/2	1/2	1/2		1/2	
3/4	2,079.19	3/4	1,691.09	3/4	1,302.99	3/4	914.89	3/4	541.43	3/4	153.99	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 2 STBD 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		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,474.09	0	2,086.00	0	1,697.90	0	1,309.80	0	921.70	0	533.97	0	145.90	0		0		0	
1/4	2,466.01	1/4	2,077.91	1/4	1,689.81	1/4	1,301.71	1/4	913.61	1/4	525.89	1/4	137.82	1/4	1/4	1/4		1/4	
1/2	2,457.92	1/2	2,069.82	1/2	1,681.73	1/2	1,293.63	1/2	905.53	1/2	517.80	1/2	129.73	1/2	1/2	1/2		1/2	
3/4	2,449.84	3/4	2,061.74	3/4	1,673.64	3/4	1,285.54	3/4	897.44	3/4	509.72	3/4	121.65	3/4	3/4	3/4		3/4	
1	2,441.75	1	2,053.65	1	1,665.55	1	1,277.46	1	889.36	1	501.63	1	113.56	1	1	1		1	
1/4	2,433.67	1/4	2,045.57	1/4	1,657.47	1/4	1,269.37	1/4	881.27	1/4	493.55	1/4	105.48	1/4	1/4	1/4		1/4	
1/2	2,425.58	1/2	2,037.48	1/2	1,649.38	1/2	1,261.28	1/2	873.19	1/2	485.46	1/2	97.39	1/2	1/2	1/2		1/2	
3/4	2,417.50	3/4	2,029.40	3/4	1,641.30	3/4	1,253.20	3/4	865.10	3/4	477.38	3/4	89.31	3/4	3/4	3/4		3/4	
2	2,409.41	2	2,021.31	2	1,633.21	2	1,245.11	2	857.01	2	469.29	2	81.22	2	2	2		2	
1/4	2,401.33	1/4	2,013.23	1/4	1,625.13	1/4	1,237.03	1/4	848.93	1/4	461.21	1/4	73.14	1/4	1/4	1/4		1/4	
1/2	2,393.24	1/2	2,005.14	1/2	1,617.04	1/2	1,228.94	1/2	840.84	1/2	453.12	1/2	65.34	1/2	1/2	1/2		1/2	
3/4	2,385.16	3/4	1,997.06	3/4	1,608.96	3/4	1,220.86	3/4	832.76	3/4	445.04	3/4	57.55	3/4	3/4	3/4		3/4	
3	2,377.07	3	1,988.97	3	1,600.87	3	1,212.77	3	824.67	3	436.95	3	49.75	3	3	3		3	
1/4	2,368.98	1/4	1,980.89	1/4	1,592.79	1/4	1,204.69	1/4	816.59	1/4	428.87	1/4	41.95	1/4	1/4	1/4		1/4	
1/2	2,360.90	1/2	1,972.80	1/2	1,584.70	1/2	1,196.60	1/2	808.51	1/2	420.78	1/2	36.18	1/2	1/2	1/2		1/2	
3/4	2,352.81	3/4	1,964.71	3/4	1,576.62	3/4	1,188.52	3/4	800.44	3/4	412.70	3/4	30.41	3/4	3/4	3/4		3/4	
4	2,344.73	4	1,956.63	4	1,568.53	4	1,180.43	4	792.36	4	404.61	4	24.63	4	4	4		4	
1/4	2,336.64	1/4	1,948.54	1/4	1,560.44	1/4	1,172.35	1/4	784.29	1/4	396.53	1/4	18.86	1/4	1/4	1/4		1/4	
1/2	2,328.56	1/2	1,940.46	1/2	1,552.36	1/2	1,164.26	1/2	776.21	1/2	388.44	1/2		1/2	1/2	1/2		1/2	
3/4	2,320.47	3/4	1,932.37	3/4	1,544.27	3/4	1,156.17	3/4	768.14	3/4	380.36	3/4		3/4	3/4	3/4		3/4	
5	2,312.39	5	1,924.29	5	1,536.19	5	1,148.09	5	760.06	5	372.28	5		5	5	5		5	
1/4	2,304.30	1/4	1,916.20	1/4	1,528.10	1/4	1,140.00	1/4	751.99	1/4	364.19	1/4		1/4	1/4	1/4		1/4	
1/2	2,296.22	1/2	1,908.12	1/2	1,520.02	1/2	1,131.92	1/2	743.91	1/2	356.11	1/2		1/2	1/2	1/2		1/2	
3/4	2,288.13	3/4	1,900.03	3/4	1,511.93	3/4	1,123.83	3/4	735.84	3/4	348.02	3/4		3/4	3/4	3/4		3/4	
6	2,280.04	6	1,891.95	6	1,503.85	6	1,115.75	6	727.76	6	339.94	6		6	6	6		6	
1/4	2,271.96	1/4	1,883.86	1/4	1,495.76	1/4	1,107.66	1/4	719.69	1/4	331.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,263.87	1/2	1,875.77	1/2	1,487.68	1/2	1,099.58	1/2	711.62	1/2	323.77	1/2		1/2	1/2	1/2		1/2	
3/4	2,255.79	3/4	1,867.69	3/4	1,479.59	3/4	1,091.49	3/4	703.55	3/4	315.68	3/4		3/4	3/4	3/4		3/4	
7	2,247.70	7	1,859.60	7	1,471.50	7	1,083.41	7	695.48	7	307.60	7		7	7	7		7	
1/4	2,239.62	1/4	1,851.52	1/4	1,463.42	1/4	1,075.32	1/4	687.40	1/4	299.51	1/4		1/4	1/4	1/4		1/4	
1/2	2,231.53	1/2	1,843.43	1/2	1,455.33	1/2	1,067.23	1/2	679.33	1/2	291.43	1/2		1/2	1/2	1/2		1/2	
3/4	2,223.45	3/4	1,835.35	3/4	1,447.25	3/4	1,059.15	3/4	671.26	3/4	283.34	3/4		3/4	3/4	3/4		3/4	
8	2,215.36	8	1,827.26	8	1,439.16	8	1,051.06	8	663.19	8	275.26	8		8	8	8		8	
1/4	2,207.28	1/4	1,819.18	1/4	1,431.08	1/4	1,042.98	1/4	655.12	1/4	267.17	1/4		1/4	1/4	1/4		1/4	
1/2	2,199.19	1/2	1,811.09	1/2	1,422.99	1/2	1,034.89	1/2	647.05	1/2	259.09	1/2		1/2	1/2	1/2		1/2	
3/4	2,191.11	3/4	1,803.01	3/4	1,414.91	3/4	1,026.81	3/4	638.97	3/4	251.00	3/4		3/4	3/4	3/4		3/4	
9	2,183.02	9	1,794.92	9	1,406.82	9	1,018.72	9	630.90	9	242.92	9		9	9	9		9	
1/4	2,174.93	1/4	1,786.84	1/4	1,398.74	1/4	1,010.64	1/4	622.82	1/4	234.83	1/4		1/4	1/4	1/4		1/4	
1/2	2,166.85	1/2	1,778.75	1/2	1,390.65	1/2	1,002.55	1/2	614.75	1/2	226.75	1/2		1/2	1/2	1/2		1/2	
3/4	2,158.76	3/4	1,770.66	3/4	1,382.57	3/4	994.47	3/4	606.67	3/4	218.66	3/4		3/4	3/4	3/4		3/4	
10	2,150.68	10	1,762.58	10	1,374.48	10	986.38	10	598.60	10	210.58	10		10	10	10		10	
1/4	2,142.59	1/4	1,754.49	1/4	1,366.39	1/4	978.30	1/4	590.52	1/4	202.49	1/4		1/4	1/4	1/4		1/4	
1/2	2,134.51	1/2	1,746.41	1/2	1,358.31	1/2	970.21	1/2	582.45	1/2	194.41	1/2		1/2	1/2	1/2		1/2	
3/4	2,126.42	3/4	1,738.32	3/4	1,350.22	3/4	962.12	3/4	574.37	3/4	186.32	3/4		3/4	3/4	3/4		3/4	
11	2,118.34	11	1,730.24	11	1,342.14	11	954.04	11	566.30	11	178.24	11		11	11	11		11	
1/4	2,110.25	1/4	1,722.15	1/4	1,334.05	1/4	945.95	1/4	558.23	1/4	170.16	1/4		1/4	1/4	1/4		1/4	
1/2	2,102.17	1/2	1,714.07	1/2	1,325.97	1/2	937.87	1/2	550.14	1/2	162.07	1/2		1/2	1/2	1/2		1/2	
3/4	2,094.08	3/4	1,705.98	3/4	1,317.88	3/4	929.78	3/4	542.06	3/4	153.99	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
PRINTED: 12/07/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2012

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





# BARGE "EMS 380"

## 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.	
0	2,288.91	0	1,927.97	0	1,567.24	0	1,205.97	0	844.92	0	497.11	0	135.93	0		0		0	
1/4	2,281.38	1/4	1,920.47	1/4	1,559.72	1/4	1,198.45	1/4	837.40	1/4	489.87	1/4	128.40	1/4	1/4	1/4		1/4	
1/2	2,273.85	1/2	1,912.96	1/2	1,552.19	1/2	1,190.92	1/2	830.16	1/2	482.33	1/2	120.87	1/2	1/2	1/2		1/2	
3/4	2,266.33	3/4	1,905.45	3/4	1,544.66	3/4	1,183.40	3/4	822.92	3/4	474.80	3/4	113.34	3/4	3/4	3/4		3/4	
1	2,258.80	1	1,897.95	1	1,537.14	1	1,175.87	1	815.68	1	467.27	1	105.80	1	1	1		1	
1/4	2,251.27	1/4	1,890.44	1/4	1,529.61	1/4	1,168.34	1/4	808.44	1/4	459.74	1/4	98.27	1/4	1/4	1/4		1/4	
1/2	2,243.74	1/2	1,882.93	1/2	1,522.08	1/2	1,160.82	1/2	801.20	1/2	452.21	1/2	90.74	1/2	1/2	1/2		1/2	
3/4	2,236.21	3/4	1,875.43	3/4	1,514.56	3/4	1,153.29	3/4	793.96	3/4	444.68	3/4	83.21	3/4	3/4	3/4		3/4	
2	2,228.68	2	1,867.92	2	1,507.03	2	1,145.76	2	786.72	2	437.15	2	75.68	2	2	2		2	
1/4	2,221.15	1/4	1,860.41	1/4	1,499.50	1/4	1,138.24	1/4	779.48	1/4	429.62	1/4	68.15	1/4	1/4	1/4		1/4	
1/2	2,213.62	1/2	1,852.91	1/2	1,491.98	1/2	1,130.71	1/2	772.23	1/2	422.09	1/2	60.89	1/2	1/2	1/2		1/2	
3/4	2,206.09	3/4	1,845.40	3/4	1,484.45	3/4	1,123.18	3/4	764.98	3/4	414.56	3/4	53.63	3/4	3/4	3/4		3/4	
3	2,198.56	3	1,837.89	3	1,476.93	3	1,115.66	3	757.73	3	407.03	3	46.37	3	3	3		3	
1/4	2,191.03	1/4	1,830.39	1/4	1,469.40	1/4	1,108.13	1/4	750.49	1/4	399.50	1/4	39.11	1/4	1/4	1/4		1/4	
1/2	2,183.50	1/2	1,822.88	1/2	1,461.87	1/2	1,100.61	1/2	743.25	1/2	391.97	1/2	33.73	1/2	1/2	1/2		1/2	
3/4	2,175.97	3/4	1,815.37	3/4	1,454.35	3/4	1,093.08	3/4	736.01	3/4	384.44	3/4	28.35	3/4	3/4	3/4		3/4	
4	2,168.44	4	1,807.87	4	1,446.82	4	1,085.55	4	728.77	4	376.91	4	22.97	4	4	4		4	
1/4	2,160.91	1/4	1,800.36	1/4	1,439.29	1/4	1,078.03	1/4	721.53	1/4	369.38	1/4	17.59	1/4	1/4	1/4		1/4	
1/2	2,153.38	1/2	1,792.85	1/2	1,431.77	1/2	1,070.50	1/2	714.29	1/2	361.84	1/2		1/2	1/2	1/2		1/2	
3/4	2,145.85	3/4	1,785.35	3/4	1,424.24	3/4	1,062.97	3/4	707.05	3/4	354.31	3/4		3/4	3/4	3/4		3/4	
5	2,138.32	5	1,777.84	5	1,416.71	5	1,055.45	5	699.81	5	346.78	5		5	5	5		5	
1/4	2,130.79	1/4	1,770.34	1/4	1,409.19	1/4	1,047.92	1/4	692.57	1/4	339.25	1/4		1/4	1/4	1/4		1/4	
1/2	2,123.26	1/2	1,762.83	1/2	1,401.66	1/2	1,040.39	1/2	685.33	1/2	331.72	1/2		1/2	1/2	1/2		1/2	
3/4	2,115.73	3/4	1,755.32	3/4	1,394.13	3/4	1,032.87	3/4	678.09	3/4	324.19	3/4		3/4	3/4	3/4		3/4	
6	2,108.20	6	1,747.82	6	1,386.61	6	1,025.34	6	670.85	6	316.66	6		6	6	6		6	
1/4	2,100.67	1/4	1,740.31	1/4	1,379.08	1/4	1,017.81	1/4	663.61	1/4	309.13	1/4		1/4	1/4	1/4		1/4	
1/2	2,093.16	1/2	1,732.79	1/2	1,371.56	1/2	1,010.30	1/2	656.38	1/2	301.60	1/2		1/2	1/2	1/2		1/2	
3/4	2,085.64	3/4	1,725.28	3/4	1,364.03	3/4	1,002.78	3/4	649.14	3/4	294.07	3/4		3/4	3/4	3/4		3/4	
7	2,078.12	7	1,717.76	7	1,356.50	7	995.26	7	641.91	7	286.54	7		7	7	7		7	
1/4	2,070.60	1/4	1,710.24	1/4	1,348.98	1/4	987.75	1/4	634.67	1/4	279.01	1/4		1/4	1/4	1/4		1/4	
1/2	2,063.09	1/2	1,702.72	1/2	1,341.45	1/2	980.23	1/2	627.44	1/2	271.48	1/2		1/2	1/2	1/2		1/2	
3/4	2,055.59	3/4	1,695.19	3/4	1,333.92	3/4	972.71	3/4	620.20	3/4	263.95	3/4		3/4	3/4	3/4		3/4	
8	2,048.08	8	1,687.66	8	1,326.40	8	965.19	8	612.97	8	256.42	8		8	8	8		8	
1/4	2,040.57	1/4	1,680.14	1/4	1,318.87	1/4	957.68	1/4	605.73	1/4	248.89	1/4		1/4	1/4	1/4		1/4	
1/2	2,033.07	1/2	1,672.61	1/2	1,311.34	1/2	950.16	1/2	598.49	1/2	241.36	1/2		1/2	1/2	1/2		1/2	
3/4	2,025.56	3/4	1,665.09	3/4	1,303.82	3/4	942.64	3/4	591.25	3/4	233.82	3/4		3/4	3/4	3/4		3/4	
9	2,018.05	9	1,657.56	9	1,296.29	9	935.12	9	584.01	9	226.29	9		9	9	9		9	
1/4	2,010.55	1/4	1,650.03	1/4	1,288.77	1/4	927.61	1/4	576.77	1/4	218.76	1/4		1/4	1/4	1/4		1/4	
1/2	2,003.04	1/2	1,642.51	1/2	1,281.24	1/2	920.09	1/2	569.53	1/2	211.23	1/2		1/2	1/2	1/2		1/2	
3/4	1,995.53	3/4	1,634.98	3/4	1,273.71	3/4	912.57	3/4	562.29	3/4	203.70	3/4		3/4	3/4	3/4		3/4	
10	1,988.03	10	1,627.45	10	1,266.19	10	905.06	10	555.06	10	196.17	10		10	10	10		10	
1/4	1,980.52	1/4	1,619.93	1/4	1,258.66	1/4	897.54	1/4	547.82	1/4	188.64	1/4		1/4	1/4	1/4		1/4	
1/2	1,973.01	1/2	1,612.40	1/2	1,251.13	1/2	890.02	1/2	540.58	1/2	181.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,965.51	3/4	1,604.87	3/4	1,243.61	3/4	882.50	3/4	533.34	3/4	173.58	3/4		3/4	3/4	3/4		3/4	
11	1,958.00	11	1,597.35	11	1,236.08	11	874.99	11	526.10	11	166.05	11		11	11	11		11	
1/4	1,950.49	1/4	1,589.82	1/4	1,228.55	1/4	867.47	1/4	518.86	1/4	158.52	1/4		1/4	1/4	1/4		1/4	
1/2	1,942.99	1/2	1,582.29	1/2	1,221.03	1/2	859.95	1/2	511.61	1/2	150.99	1/2		1/2	1/2	1/2		1/2	
3/4	1,935.48	3/4	1,574.77	3/4	1,213.50	3/4	852.43	3/4	504.36	3/4	143.46	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 12/07/2012 CL - SW  
CALCULATED: 12/07/2012 CL  
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& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>







# BARGE "EMS 380"

## 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	2,286.09	0	1,926.77	0	1,567.98	0	1,207.20	0	846.43	0	496.46	0	135.77	0		0		0	
1/4	2,278.57	1/4	1,919.33	1/4	1,560.46	1/4	1,199.69	1/4	838.91	1/4	489.16	1/4	128.26	1/4	1/4	1/4		1/4	
1/2	2,271.05	1/2	1,911.88	1/2	1,552.95	1/2	1,192.17	1/2	831.61	1/2	481.64	1/2	120.74	1/2	1/2	1/2		1/2	
3/4	2,263.53	3/4	1,904.44	3/4	1,545.43	3/4	1,184.65	3/4	824.32	3/4	474.13	3/4	113.22	3/4	3/4	3/4		3/4	
1	2,256.01	1	1,897.00	1	1,537.92	1	1,177.14	1	817.03	1	466.61	1	105.70	1	1	1		1	
1/4	2,248.49	1/4	1,889.56	1/4	1,530.40	1/4	1,169.62	1/4	809.73	1/4	459.09	1/4	98.18	1/4	1/4	1/4		1/4	
1/2	2,240.97	1/2	1,882.11	1/2	1,522.88	1/2	1,162.11	1/2	802.44	1/2	451.57	1/2	90.66	1/2	1/2	1/2		1/2	
3/4	2,233.45	3/4	1,874.67	3/4	1,515.37	3/4	1,154.59	3/4	795.14	3/4	444.05	3/4	83.14	3/4	3/4	3/4		3/4	
2	2,225.93	2	1,867.23	2	1,507.85	2	1,147.07	2	787.85	2	436.53	2	75.62	2	2	2		2	
1/4	2,218.41	1/4	1,859.79	1/4	1,500.33	1/4	1,139.56	1/4	780.56	1/4	429.01	1/4	68.10	1/4	1/4	1/4		1/4	
1/2	2,210.89	1/2	1,852.34	1/2	1,492.82	1/2	1,132.04	1/2	773.26	1/2	421.49	1/2	60.85	1/2	1/2	1/2		1/2	
3/4	2,203.37	3/4	1,844.90	3/4	1,485.30	3/4	1,124.52	3/4	765.97	3/4	413.97	3/4	53.61	3/4	3/4	3/4		3/4	
3	2,195.85	3	1,837.46	3	1,477.79	3	1,117.01	3	758.67	3	406.46	3	46.36	3	3	3		3	
1/4	2,188.33	1/4	1,830.02	1/4	1,470.27	1/4	1,109.49	1/4	751.38	1/4	398.94	1/4	39.11	1/4	1/4	1/4		1/4	
1/2	2,180.81	1/2	1,822.57	1/2	1,462.75	1/2	1,101.98	1/2	744.10	1/2	391.42	1/2	33.73	1/2	1/2	1/2		1/2	
3/4	2,173.30	3/4	1,815.13	3/4	1,455.24	3/4	1,094.46	3/4	736.81	3/4	383.90	3/4	28.35	3/4	3/4	3/4		3/4	
4	2,165.78	4	1,807.69	4	1,447.72	4	1,086.94	4	729.53	4	376.38	4	22.97	4	4	4		4	
1/4	2,158.26	1/4	1,800.25	1/4	1,440.21	1/4	1,079.43	1/4	722.24	1/4	368.86	1/4	17.59	1/4	1/4	1/4		1/4	
1/2	2,150.74	1/2	1,792.80	1/2	1,432.69	1/2	1,071.91	1/2	714.96	1/2	361.34	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.22	3/4	1,785.36	3/4	1,425.17	3/4	1,064.40	3/4	707.68	3/4	353.82	3/4		3/4	3/4	3/4		3/4	
5	2,135.70	5	1,777.92	5	1,417.66	5	1,056.88	5	700.39	5	346.30	5		5	5	5		5	
1/4	2,128.18	1/4	1,770.48	1/4	1,410.14	1/4	1,049.36	1/4	693.11	1/4	338.79	1/4		1/4	1/4	1/4		1/4	
1/2	2,120.66	1/2	1,763.03	1/2	1,402.62	1/2	1,041.85	1/2	685.83	1/2	331.27	1/2		1/2	1/2	1/2		1/2	
3/4	2,113.14	3/4	1,755.59	3/4	1,395.11	3/4	1,034.33	3/4	678.54	3/4	323.75	3/4		3/4	3/4	3/4		3/4	
6	2,105.62	6	1,748.15	6	1,387.59	6	1,026.81	6	671.26	6	316.23	6		6	6	6		6	
1/4	2,098.10	1/4	1,740.71	1/4	1,380.08	1/4	1,019.30	1/4	663.97	1/4	308.71	1/4		1/4	1/4	1/4		1/4	
1/2	2,090.62	1/2	1,733.23	1/2	1,372.56	1/2	1,011.78	1/2	656.70	1/2	301.19	1/2		1/2	1/2	1/2		1/2	
3/4	2,083.14	3/4	1,725.75	3/4	1,365.04	3/4	1,004.27	3/4	649.42	3/4	293.67	3/4		3/4	3/4	3/4		3/4	
7	2,075.65	7	1,718.27	7	1,357.53	7	996.75	7	642.14	7	286.15	7		7	7	7		7	
1/4	2,068.17	1/4	1,710.79	1/4	1,350.01	1/4	989.23	1/4	634.86	1/4	278.63	1/4		1/4	1/4	1/4		1/4	
1/2	2,060.73	1/2	1,703.27	1/2	1,342.49	1/2	981.72	1/2	627.58	1/2	271.12	1/2		1/2	1/2	1/2		1/2	
3/4	2,053.29	3/4	1,695.76	3/4	1,334.98	3/4	974.20	3/4	620.30	3/4	263.60	3/4		3/4	3/4	3/4		3/4	
8	2,045.85	8	1,688.24	8	1,327.46	8	966.68	8	613.02	8	256.08	8		8	8	8		8	
1/4	2,038.40	1/4	1,680.72	1/4	1,319.95	1/4	959.17	1/4	605.74	1/4	248.56	1/4		1/4	1/4	1/4		1/4	
1/2	2,030.96	1/2	1,673.21	1/2	1,312.43	1/2	951.65	1/2	598.46	1/2	241.04	1/2		1/2	1/2	1/2		1/2	
3/4	2,023.52	3/4	1,665.69	3/4	1,304.91	3/4	944.14	3/4	591.17	3/4	233.52	3/4		3/4	3/4	3/4		3/4	
9	2,016.08	9	1,658.17	9	1,297.40	9	936.62	9	583.89	9	226.00	9		9	9	9		9	
1/4	2,008.63	1/4	1,650.66	1/4	1,289.88	1/4	929.10	1/4	576.61	1/4	218.48	1/4		1/4	1/4	1/4		1/4	
1/2	2,001.19	1/2	1,643.14	1/2	1,282.36	1/2	921.59	1/2	569.32	1/2	210.96	1/2		1/2	1/2	1/2		1/2	
3/4	1,993.75	3/4	1,635.63	3/4	1,274.85	3/4	914.07	3/4	562.04	3/4	203.44	3/4		3/4	3/4	3/4		3/4	
10	1,986.31	10	1,628.11	10	1,267.33	10	906.55	10	554.75	10	195.93	10		10	10	10		10	
1/4	1,978.86	1/4	1,620.59	1/4	1,259.82	1/4	899.04	1/4	547.47	1/4	188.41	1/4		1/4	1/4	1/4		1/4	
1/2	1,971.42	1/2	1,613.08	1/2	1,252.30	1/2	891.52	1/2	540.19	1/2	180.89	1/2		1/2	1/2	1/2		1/2	
3/4	1,963.98	3/4	1,605.56	3/4	1,244.78	3/4	884.01	3/4	532.90	3/4	173.37	3/4		3/4	3/4	3/4		3/4	
11	1,956.54	11	1,598.05	11	1,237.27	11	876.49	11	525.62	11	165.85	11		11	11	11		11	
1/4	1,949.09	1/4	1,590.53	1/4	1,229.75	1/4	868.97	1/4	518.34	1/4	158.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,941.65	1/2	1,583.01	1/2	1,222.24	1/2	861.46	1/2	511.04	1/2	150.81	1/2		1/2	1/2	1/2		1/2	
3/4	1,934.21	3/4	1,575.50	3/4	1,214.72	3/4	853.94	3/4	503.75	3/4	143.29	3/4		3/4	3/4	3/4		3/4	

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