



# BARGE "E2MS 309"

## INNAGE (HERMETIC)

	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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-0/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

October 18, 2017

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "E2MS 309"

# 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	15.28	0	303.60	0	653.02	0	1,009.21	0	1,366.58	0	1,724.63	0	2,082.68	0	2,440.73	0	2,798.72	0	3,156.66
1/4	18.33	1/4	310.49	1/4	660.48	1/4	1,016.61	1/4	1,374.03	1/4	1,732.09	1/4	2,090.14	1/4	2,448.19	1/4	2,806.18	1/4	3,164.12
1/2	21.37	1/2	317.38	1/2	667.94	1/2	1,024.01	1/2	1,381.49	1/2	1,739.55	1/2	2,097.60	1/2	2,455.65	1/2	2,813.63	1/2	3,171.58
3/4	24.41	3/4	324.27	3/4	675.40	3/4	1,031.41	3/4	1,388.95	3/4	1,747.00	3/4	2,105.06	3/4	2,463.11	3/4	2,821.09	3/4	3,179.04
1	27.45	1	331.16	1	682.86	1	1,038.81	1	1,396.41	1	1,754.46	1	2,112.52	1	2,470.57	1	2,828.55	1	3,186.49
1/4	32.45	1/4	338.14	1/4	690.32	1/4	1,046.22	1/4	1,403.87	1/4	1,761.92	1/4	2,119.97	1/4	2,478.03	1/4	2,836.00	1/4	3,193.95
1/2	37.44	1/2	345.11	1/2	697.77	1/2	1,053.63	1/2	1,411.33	1/2	1,769.38	1/2	2,127.43	1/2	2,485.49	1/2	2,843.46	1/2	3,201.41
3/4	42.44	3/4	352.09	3/4	705.23	3/4	1,061.04	3/4	1,418.79	3/4	1,776.84	3/4	2,134.89	3/4	2,492.94	3/4	2,850.92	3/4	3,208.86
2	47.43	2	359.07	2	712.69	2	1,068.45	2	1,426.25	2	1,784.30	2	2,142.35	2	2,500.40	2	2,858.38	2	3,216.32
1/4	53.41	1/4	366.14	1/4	720.15	1/4	1,075.88	1/4	1,433.71	1/4	1,791.76	1/4	2,149.81	1/4	2,507.86	1/4	2,865.83	1/4	3,223.78
1/2	59.39	1/2	373.20	1/2	727.61	1/2	1,083.31	1/2	1,441.17	1/2	1,799.22	1/2	2,157.27	1/2	2,515.32	1/2	2,873.29	1/2	3,231.24
3/4	65.37	3/4	380.27	3/4	735.07	3/4	1,090.73	3/4	1,448.63	3/4	1,806.68	3/4	2,164.73	3/4	2,522.78	3/4	2,880.75	3/4	3,238.69
3	71.35	3	387.33	3	742.53	3	1,098.16	3	1,456.09	3	1,814.14	3	2,172.19	3	2,530.24	3	2,888.20	3	3,246.15
1/4	77.44	1/4	394.49	1/4	749.99	1/4	1,105.59	1/4	1,463.55	1/4	1,821.60	1/4	2,179.65	1/4	2,537.70	1/4	2,895.66	1/4	3,253.61
1/2	83.53	1/2	401.64	1/2	757.45	1/2	1,113.02	1/2	1,471.01	1/2	1,829.06	1/2	2,187.11	1/2	2,545.16	1/2	2,903.12	1/2	3,261.06
3/4	89.62	3/4	408.79	3/4	764.91	3/4	1,120.45	3/4	1,478.47	3/4	1,836.52	3/4	2,194.57	3/4	2,552.62	3/4	2,910.58	3/4	3,268.52
4	95.71	4	415.94	4	772.37	4	1,127.87	4	1,485.93	4	1,843.98	4	2,202.03	4	2,560.08	4	2,918.03	4	3,275.98
1/4	101.90	1/4	423.18	1/4	779.77	1/4	1,135.33	1/4	1,493.39	1/4	1,851.44	1/4	2,209.49	1/4	2,567.54	1/4	2,925.49	1/4	3,283.44
1/2	108.09	1/2	430.43	1/2	787.18	1/2	1,142.79	1/2	1,500.84	1/2	1,858.90	1/2	2,216.95	1/2	2,575.00	1/2	2,932.95	1/2	3,290.89
3/4	114.28	3/4	437.67	3/4	794.59	3/4	1,150.25	3/4	1,508.30	3/4	1,866.36	3/4	2,224.41	3/4	2,582.46	3/4	2,940.41	3/4	3,298.35
5	120.47	5	444.91	5	802.00	5	1,157.71	5	1,515.76	5	1,873.81	5	2,231.87	5	2,589.92	5	2,947.86	5	3,305.81
1/4	126.75	1/4	452.23	1/4	809.40	1/4	1,165.17	1/4	1,523.22	1/4	1,881.27	1/4	2,239.33	1/4	2,597.37	1/4	2,955.32	1/4	3,313.27
1/2	133.03	1/2	459.56	1/2	816.80	1/2	1,172.63	1/2	1,530.68	1/2	1,888.73	1/2	2,246.78	1/2	2,604.83	1/2	2,962.78	1/2	3,320.72
3/4	139.30	3/4	466.89	3/4	824.20	3/4	1,180.09	3/4	1,538.14	3/4	1,896.19	3/4	2,254.24	3/4	2,612.29	3/4	2,970.23	3/4	3,328.18
6	145.58	6	474.22	6	831.60	6	1,187.55	6	1,545.60	6	1,903.65	6	2,261.70	6	2,619.75	6	2,977.69	6	3,335.64
1/4	151.95	1/4	481.63	1/4	839.00	1/4	1,195.01	1/4	1,553.06	1/4	1,911.11	1/4	2,269.16	1/4	2,627.20	1/4	2,985.15	1/4	3,343.09
1/2	158.31	1/2	489.05	1/2	846.40	1/2	1,202.47	1/2	1,560.52	1/2	1,918.57	1/2	2,276.62	1/2	2,634.66	1/2	2,992.61	1/2	3,350.55
3/4	164.68	3/4	496.46	3/4	853.80	3/4	1,209.93	3/4	1,567.98	3/4	1,926.03	3/4	2,284.08	3/4	2,642.12	3/4	3,000.06	3/4	3,358.01
7	171.04	7	503.88	7	861.20	7	1,217.39	7	1,575.44	7	1,933.49	7	2,291.54	7	2,649.57	7	3,007.52	7	3,365.47
1/4	177.49	1/4	511.34	1/4	868.60	1/4	1,224.85	1/4	1,582.90	1/4	1,940.95	1/4	2,299.00	1/4	2,657.03	1/4	3,014.98	1/4	3,372.92
1/2	183.95	1/2	518.80	1/2	876.01	1/2	1,232.31	1/2	1,590.36	1/2	1,948.41	1/2	2,306.46	1/2	2,664.49	1/2	3,022.43	1/2	3,380.38
3/4	190.40	3/4	526.26	3/4	883.41	3/4	1,239.77	3/4	1,597.82	3/4	1,955.87	3/4	2,313.92	3/4	2,671.95	3/4	3,029.89	3/4	3,387.84
8	196.85	8	533.72	8	890.81	8	1,247.22	8	1,605.28	8	1,963.33	8	2,321.38	8	2,679.40	8	3,037.35	8	3,395.29
1/4	203.39	1/4	541.17	1/4	898.21	1/4	1,254.68	1/4	1,612.74	1/4	1,970.79	1/4	2,328.84	1/4	2,686.86	1/4	3,044.81	1/4	3,402.75
1/2	209.93	1/2	548.62	1/2	905.61	1/2	1,262.14	1/2	1,620.19	1/2	1,978.25	1/2	2,336.30	1/2	2,694.32	1/2	3,052.26	1/2	3,410.21
3/4	216.47	3/4	556.08	3/4	913.01	3/4	1,269.60	3/4	1,627.65	3/4	1,985.71	3/4	2,343.76	3/4	2,701.77	3/4	3,059.72	3/4	3,417.67
9	223.01	9	563.53	9	920.41	9	1,277.06	9	1,635.11	9	1,993.16	9	2,351.22	9	2,709.23	9	3,067.18	9	3,425.12
1/4	229.64	1/4	570.99	1/4	927.81	1/4	1,284.52	1/4	1,642.57	1/4	2,000.62	1/4	2,358.68	1/4	2,716.69	1/4	3,074.63	1/4	3,432.58
1/2	236.27	1/2	578.44	1/2	935.21	1/2	1,291.98	1/2	1,650.03	1/2	2,008.08	1/2	2,366.13	1/2	2,724.15	1/2	3,082.09	1/2	3,440.04
3/4	242.90	3/4	585.89	3/4	942.61	3/4	1,299.44	3/4	1,657.49	3/4	2,015.54	3/4	2,373.59	3/4	2,731.60	3/4	3,089.55	3/4	3,447.49
10	249.52	10	593.35	10	950.01	10	1,306.90	10	1,664.95	10	2,023.00	10	2,381.05	10	2,739.06	10	3,097.01	10	3,454.95
1/4	256.24	1/4	600.81	1/4	957.41	1/4	1,314.36	1/4	1,672.41	1/4	2,030.46	1/4	2,388.51	1/4	2,746.52	1/4	3,104.46	1/4	3,462.41
1/2	262.96	1/2	608.27	1/2	964.81	1/2	1,321.82	1/2	1,679.87	1/2	2,037.92	1/2	2,395.97	1/2	2,753.98	1/2	3,111.92	1/2	3,469.87
3/4	269.67	3/4	615.72	3/4	972.21	3/4	1,329.28	3/4	1,687.33	3/4	2,045.38	3/4	2,403.43	3/4	2,761.43	3/4	3,119.38	3/4	3,477.32
11	276.39	11	623.18	11	979.61	11	1,336.74	11	1,694.79	11	2,052.84	11	2,410.89	11	2,768.89	11	3,126.84	11	3,484.78
1/4	283.19	1/4	630.64	1/4	987.01	1/4	1,344.20	1/4	1,702.25	1/4	2,060.30	1/4	2,418.35	1/4	2,776.35	1/4	3,134.29	1/4	3,492.24
1/2	289.99	1/2	638.10	1/2	994.41	1/2	1,351.66	1/2	1,709.71	1/2	2,067.76	1/2	2,425.81	1/2	2,783.80	1/2	3,141.75	1/2	3,499.70
3/4	296.79	3/4	645.56	3/4	1,001.81	3/4	1,359.12	3/4	1,717.17	3/4	2,075.22	3/4	2,433.27	3/4	2,791.26	3/4	3,149.21	3/4	3,507.15

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
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# BARGE "E2MS 309"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,514.61	0	3,872.56	0	4,229.81	0	4,586.71	0	4,941.80	0		0		0		0		0	
1/4	3,522.07	1/4	3,880.01	1/4	4,237.24	1/4	4,594.15	1/4	4,949.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.52	1/2	3,887.47	1/2	4,244.68	1/2	4,601.58	1/2	4,956.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,536.98	3/4	3,894.93	3/4	4,252.11	3/4	4,609.02	3/4	4,963.68	3/4		3/4		3/4		3/4		3/4	
1	3,544.44	1	3,902.38	1	4,259.55	1	4,616.45	1	4,970.97	1		1		1		1		1	
1/4	3,551.90	1/4	3,909.84	1/4	4,266.98	1/4	4,623.89	1/4	4,977.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,559.35	1/2	3,917.30	1/2	4,274.42	1/2	4,631.32	1/2	4,983.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,566.81	3/4	3,924.76	3/4	4,281.85	3/4	4,638.76	3/4	4,990.27	3/4		3/4		3/4		3/4		3/4	
2	3,574.27	2	3,932.21	2	4,289.29	2	4,646.19	2	4,996.70	2		2		2		2		2	
1/4	3,581.72	1/4	3,939.67	1/4	4,296.73	1/4	4,653.63	1/4	5,001.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,589.18	1/2	3,947.13	1/2	4,304.16	1/2	4,661.07	1/2	5,007.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,596.64	3/4	3,954.58	3/4	4,311.60	3/4	4,668.50	3/4	5,012.26	3/4		3/4		3/4		3/4		3/4	
3	3,604.10	3	3,962.04	3	4,319.03	3	4,675.94	3	5,017.45	3		3		3		3		3	
1/4	3,611.55	1/4	3,969.50	1/4	4,326.47	1/4	4,683.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,619.01	1/2	3,976.96	1/2	4,333.90	1/2	4,690.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,626.47	3/4	3,984.41	3/4	4,341.34	3/4	4,698.24	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,633.92	4	3,991.87	4	4,348.77	4	4,705.68	4		4		4		4		4		4	
1/4	3,641.38	1/4	3,999.31	1/4	4,356.21	1/4	4,713.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,648.84	1/2	4,006.74	1/2	4,363.65	1/2	4,720.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,656.30	3/4	4,014.18	3/4	4,371.08	3/4	4,727.98	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,663.75	5	4,021.61	5	4,378.52	5	4,735.42	5		5		5		5		5		5	
1/4	3,671.21	1/4	4,029.05	1/4	4,385.95	1/4	4,742.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.67	1/2	4,036.48	1/2	4,393.39	1/2	4,750.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,686.13	3/4	4,043.92	3/4	4,400.82	3/4	4,757.73	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,693.58	6	4,051.35	6	4,408.26	6	4,765.16	6		6		6		6		6		6	
1/4	3,701.04	1/4	4,058.79	1/4	4,415.69	1/4	4,772.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,708.50	1/2	4,066.23	1/2	4,423.13	1/2	4,779.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.95	3/4	4,073.66	3/4	4,430.56	3/4	4,787.25	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,723.41	7	4,081.10	7	4,438.00	7	4,794.61	7		7		7		7		7		7	
1/4	3,730.87	1/4	4,088.53	1/4	4,445.44	1/4	4,801.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,738.33	1/2	4,095.97	1/2	4,452.87	1/2	4,809.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,745.78	3/4	4,103.40	3/4	4,460.31	3/4	4,816.70	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,753.24	8	4,110.84	8	4,467.74	8	4,824.06	8		8		8		8		8		8	
1/4	3,760.70	1/4	4,118.27	1/4	4,475.18	1/4	4,831.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.15	1/2	4,125.71	1/2	4,482.61	1/2	4,838.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,775.61	3/4	4,133.14	3/4	4,490.05	3/4	4,846.14	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,783.07	9	4,140.58	9	4,497.48	9	4,853.51	9		9		9		9		9		9	
1/4	3,790.53	1/4	4,148.02	1/4	4,504.92	1/4	4,860.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,797.98	1/2	4,155.45	1/2	4,512.36	1/2	4,868.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,805.44	3/4	4,162.89	3/4	4,519.79	3/4	4,875.60	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,812.90	10	4,170.32	10	4,527.23	10	4,882.96	10		10		10		10		10		10	
1/4	3,820.35	1/4	4,177.76	1/4	4,534.66	1/4	4,890.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,827.81	1/2	4,185.19	1/2	4,542.10	1/2	4,897.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,835.27	3/4	4,192.63	3/4	4,549.53	3/4	4,905.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,842.73	11	4,200.06	11	4,556.97	11	4,912.40	11		11		11		11		11		11	
1/4	3,850.18	1/4	4,207.50	1/4	4,564.40	1/4	4,919.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,857.64	1/2	4,214.94	1/2	4,571.84	1/2	4,927.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,865.10	3/4	4,222.37	3/4	4,579.27	3/4	4,934.45	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.28	0	303.53	0	652.96	0	1,010.56	0	1,368.46	0	1,726.46	0	2,084.47	0	2,442.47	0	2,800.41	0	3,158.31
1/4	18.32	1/4	310.42	1/4	660.41	1/4	1,018.01	1/4	1,375.92	1/4	1,733.92	1/4	2,091.92	1/4	2,449.93	1/4	2,807.87	1/4	3,165.76
1/2	21.37	1/2	317.31	1/2	667.87	1/2	1,025.45	1/2	1,383.38	1/2	1,741.38	1/2	2,099.38	1/2	2,457.39	1/2	2,815.32	1/2	3,173.22
3/4	24.41	3/4	324.20	3/4	675.33	3/4	1,032.89	3/4	1,390.84	3/4	1,748.84	3/4	2,106.84	3/4	2,464.84	3/4	2,822.78	3/4	3,180.68
1	27.45	1	331.09	1	682.79	1	1,040.34	1	1,398.29	1	1,756.30	1	2,114.30	1	2,472.30	1	2,830.24	1	3,188.13
1/4	32.44	1/4	338.07	1/4	690.25	1/4	1,047.79	1/4	1,405.75	1/4	1,763.76	1/4	2,121.76	1/4	2,479.76	1/4	2,837.69	1/4	3,195.59
1/2	37.43	1/2	345.05	1/2	697.71	1/2	1,055.24	1/2	1,413.21	1/2	1,771.21	1/2	2,129.22	1/2	2,487.22	1/2	2,845.15	1/2	3,203.05
3/4	42.43	3/4	352.02	3/4	705.16	3/4	1,062.70	3/4	1,420.67	3/4	1,778.67	3/4	2,136.68	3/4	2,494.68	3/4	2,852.60	3/4	3,210.50
2	47.42	2	359.00	2	712.62	2	1,070.15	2	1,428.13	2	1,786.13	2	2,144.13	2	2,502.14	2	2,860.06	2	3,217.96
1/4	53.40	1/4	366.06	1/4	720.08	1/4	1,077.60	1/4	1,435.59	1/4	1,793.59	1/4	2,151.59	1/4	2,509.60	1/4	2,867.52	1/4	3,225.41
1/2	59.37	1/2	373.13	1/2	727.54	1/2	1,085.05	1/2	1,443.04	1/2	1,801.05	1/2	2,159.05	1/2	2,517.05	1/2	2,874.97	1/2	3,232.87
3/4	65.35	3/4	380.19	3/4	735.00	3/4	1,092.51	3/4	1,450.50	3/4	1,808.51	3/4	2,166.51	3/4	2,524.51	3/4	2,882.43	3/4	3,240.33
3	71.33	3	387.26	3	742.46	3	1,099.96	3	1,457.96	3	1,815.96	3	2,173.97	3	2,531.97	3	2,889.89	3	3,247.78
1/4	77.42	1/4	394.41	1/4	749.92	1/4	1,107.42	1/4	1,465.42	1/4	1,823.42	1/4	2,181.43	1/4	2,539.43	1/4	2,897.34	1/4	3,255.24
1/2	83.51	1/2	401.56	1/2	757.37	1/2	1,114.87	1/2	1,472.88	1/2	1,830.88	1/2	2,188.88	1/2	2,546.89	1/2	2,904.80	1/2	3,262.70
3/4	89.60	3/4	408.71	3/4	764.83	3/4	1,122.33	3/4	1,480.34	3/4	1,838.34	3/4	2,196.34	3/4	2,554.35	3/4	2,912.25	3/4	3,270.15
4	95.69	4	415.86	4	772.29	4	1,129.79	4	1,487.79	4	1,845.80	4	2,203.80	4	2,561.80	4	2,919.71	4	3,277.61
1/4	101.88	1/4	423.10	1/4	779.75	1/4	1,137.25	1/4	1,495.25	1/4	1,853.26	1/4	2,211.26	1/4	2,569.26	1/4	2,927.17	1/4	3,285.06
1/2	108.07	1/2	430.34	1/2	787.21	1/2	1,144.71	1/2	1,502.71	1/2	1,860.71	1/2	2,218.72	1/2	2,576.72	1/2	2,934.62	1/2	3,292.52
3/4	114.25	3/4	437.58	3/4	794.67	3/4	1,152.17	3/4	1,510.17	3/4	1,868.17	3/4	2,226.18	3/4	2,584.18	3/4	2,942.08	3/4	3,299.98
5	120.44	5	444.82	5	802.12	5	1,159.62	5	1,517.63	5	1,875.63	5	2,233.63	5	2,591.64	5	2,949.54	5	3,307.43
1/4	126.72	1/4	452.15	1/4	809.57	1/4	1,167.08	1/4	1,525.09	1/4	1,883.09	1/4	2,241.09	1/4	2,599.09	1/4	2,956.99	1/4	3,314.89
1/2	132.99	1/2	459.48	1/2	817.01	1/2	1,174.54	1/2	1,532.54	1/2	1,890.55	1/2	2,248.55	1/2	2,606.55	1/2	2,964.45	1/2	3,322.35
3/4	139.27	3/4	466.80	3/4	824.46	3/4	1,182.00	3/4	1,540.00	3/4	1,898.01	3/4	2,256.01	3/4	2,614.01	3/4	2,971.90	3/4	3,329.80
6	145.55	6	474.13	6	831.90	6	1,189.46	6	1,547.46	6	1,905.46	6	2,263.47	6	2,621.46	6	2,979.36	6	3,337.26
1/4	151.91	1/4	481.54	1/4	839.34	1/4	1,196.92	1/4	1,554.92	1/4	1,912.92	1/4	2,270.93	1/4	2,628.92	1/4	2,986.82	1/4	3,344.71
1/2	158.27	1/2	488.96	1/2	846.79	1/2	1,204.38	1/2	1,562.38	1/2	1,920.38	1/2	2,278.38	1/2	2,636.37	1/2	2,994.27	1/2	3,352.17
3/4	164.64	3/4	496.37	3/4	854.23	3/4	1,211.83	3/4	1,569.84	3/4	1,927.84	3/4	2,285.84	3/4	2,643.83	3/4	3,001.73	3/4	3,359.63
7	171.00	7	503.79	7	861.68	7	1,219.29	7	1,577.30	7	1,935.30	7	2,293.30	7	2,651.29	7	3,009.18	7	3,367.08
1/4	177.45	1/4	511.25	1/4	869.12	1/4	1,226.75	1/4	1,584.75	1/4	1,942.76	1/4	2,300.76	1/4	2,658.74	1/4	3,016.64	1/4	3,374.54
1/2	183.91	1/2	518.70	1/2	876.57	1/2	1,234.21	1/2	1,592.21	1/2	1,950.22	1/2	2,308.22	1/2	2,666.20	1/2	3,024.10	1/2	3,381.99
3/4	190.36	3/4	526.16	3/4	884.01	3/4	1,241.67	3/4	1,599.67	3/4	1,957.67	3/4	2,315.68	3/4	2,673.66	3/4	3,031.55	3/4	3,389.45
8	196.81	8	533.62	8	891.45	8	1,249.13	8	1,607.13	8	1,965.13	8	2,323.14	8	2,681.11	8	3,039.01	8	3,396.91
1/4	203.35	1/4	541.08	1/4	898.90	1/4	1,256.58	1/4	1,614.59	1/4	1,972.59	1/4	2,330.59	1/4	2,688.57	1/4	3,046.47	1/4	3,404.36
1/2	209.89	1/2	548.54	1/2	906.34	1/2	1,264.04	1/2	1,622.05	1/2	1,980.05	1/2	2,338.05	1/2	2,696.02	1/2	3,053.92	1/2	3,411.82
3/4	216.43	3/4	556.00	3/4	913.79	3/4	1,271.50	3/4	1,629.50	3/4	1,987.51	3/4	2,345.51	3/4	2,703.48	3/4	3,061.38	3/4	3,419.28
9	222.96	9	563.46	9	921.23	9	1,278.96	9	1,636.96	9	1,994.97	9	2,352.97	9	2,710.94	9	3,068.83	9	3,426.73
1/4	229.59	1/4	570.91	1/4	928.68	1/4	1,286.42	1/4	1,644.42	1/4	2,002.42	1/4	2,360.43	1/4	2,718.39	1/4	3,076.29	1/4	3,434.19
1/2	236.22	1/2	578.37	1/2	936.12	1/2	1,293.88	1/2	1,651.88	1/2	2,009.88	1/2	2,367.89	1/2	2,725.85	1/2	3,083.75	1/2	3,441.64
3/4	242.84	3/4	585.83	3/4	943.56	3/4	1,301.33	3/4	1,659.34	3/4	2,017.34	3/4	2,375.34	3/4	2,733.31	3/4	3,091.20	3/4	3,449.10
10	249.47	10	593.29	10	951.01	10	1,308.79	10	1,666.80	10	2,024.80	10	2,382.80	10	2,740.76	10	3,098.66	10	3,456.56
1/4	256.19	1/4	600.75	1/4	958.45	1/4	1,316.25	1/4	1,674.25	1/4	2,032.26	1/4	2,390.26	1/4	2,748.22	1/4	3,106.12	1/4	3,464.01
1/2	262.90	1/2	608.21	1/2	965.90	1/2	1,323.71	1/2	1,681.71	1/2	2,039.72	1/2	2,397.72	1/2	2,755.67	1/2	3,113.57	1/2	3,471.47
3/4	269.61	3/4	615.66	3/4	973.34	3/4	1,331.17	3/4	1,689.17	3/4	2,047.17	3/4	2,405.18	3/4	2,763.13	3/4	3,121.03	3/4	3,478.93
11	276.33	11	623.12	11	980.78	11	1,338.63	11	1,696.63	11	2,054.63	11	2,412.64	11	2,770.59	11	3,128.48	11	3,486.38
1/4	283.13	1/4	630.58	1/4	988.23	1/4	1,346.08	1/4	1,704.09	1/4	2,062.09	1/4	2,420.09	1/4	2,778.04	1/4	3,135.94	1/4	3,493.84
1/2	289.93	1/2	638.04	1/2	995.67	1/2	1,353.54	1/2	1,711.55	1/2	2,069.55	1/2	2,427.55	1/2	2,785.50	1/2	3,143.40	1/2	3,501.29
3/4	296.73	3/4	645.50	3/4	1,003.12	3/4	1,361.00	3/4	1,719.00	3/4	2,077.01	3/4	2,435.01	3/4	2,792.95	3/4	3,150.85	3/4	3,508.75

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	3,516.21	0	3,874.10	0	4,231.31	0	4,588.16	0	4,943.20	0		0		0		0		0	
1/4	3,523.66	1/4	3,881.56	1/4	4,238.74	1/4	4,595.60	1/4	4,950.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,531.12	1/2	3,889.02	1/2	4,246.18	1/2	4,603.03	1/2	4,957.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,538.57	3/4	3,896.47	3/4	4,253.61	3/4	4,610.47	3/4	4,965.08	3/4		3/4		3/4		3/4		3/4	
1	3,546.03	1	3,903.93	1	4,261.05	1	4,617.90	1	4,972.37	1		1		1		1		1	
1/4	3,553.49	1/4	3,911.38	1/4	4,268.48	1/4	4,625.34	1/4	4,978.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.94	1/2	3,918.84	1/2	4,275.91	1/2	4,632.77	1/2	4,985.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.40	3/4	3,926.30	3/4	4,283.35	3/4	4,640.20	3/4	4,991.66	3/4		3/4		3/4		3/4		3/4	
2	3,575.86	2	3,933.75	2	4,290.78	2	4,647.64	2	4,998.09	2		2		2		2		2	
1/4	3,583.31	1/4	3,941.21	1/4	4,298.22	1/4	4,655.07	1/4	5,003.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,590.77	1/2	3,948.67	1/2	4,305.65	1/2	4,662.51	1/2	5,008.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,598.22	3/4	3,956.12	3/4	4,313.09	3/4	4,669.94	3/4	5,013.65	3/4		3/4		3/4		3/4		3/4	
3	3,605.68	3	3,963.58	3	4,320.52	3	4,677.38	3	5,018.84	3		3		3		3		3	
1/4	3,613.14	1/4	3,971.03	1/4	4,327.96	1/4	4,684.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,620.59	1/2	3,978.49	1/2	4,335.39	1/2	4,692.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,628.05	3/4	3,985.95	3/4	4,342.82	3/4	4,699.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,635.51	4	3,993.40	4	4,350.26	4	4,707.12	4		4		4		4		4		4	
1/4	3,642.96	1/4	4,000.84	1/4	4,357.69	1/4	4,714.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,650.42	1/2	4,008.27	1/2	4,365.13	1/2	4,721.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,657.87	3/4	4,015.71	3/4	4,372.56	3/4	4,729.42	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,665.33	5	4,023.14	5	4,380.00	5	4,736.85	5		5		5		5		5		5	
1/4	3,672.79	1/4	4,030.58	1/4	4,387.43	1/4	4,744.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,680.24	1/2	4,038.01	1/2	4,394.87	1/2	4,751.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,687.70	3/4	4,045.44	3/4	4,402.30	3/4	4,759.16	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,695.16	6	4,052.88	6	4,409.74	6	4,766.59	6		6		6		6		6		6	
1/4	3,702.61	1/4	4,060.31	1/4	4,417.17	1/4	4,773.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,710.07	1/2	4,067.75	1/2	4,424.60	1/2	4,781.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.52	3/4	4,075.18	3/4	4,432.04	3/4	4,788.67	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,724.98	7	4,082.62	7	4,439.47	7	4,796.03	7		7		7		7		7		7	
1/4	3,732.44	1/4	4,090.05	1/4	4,446.91	1/4	4,803.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,739.89	1/2	4,097.49	1/2	4,454.34	1/2	4,810.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,747.35	3/4	4,104.92	3/4	4,461.78	3/4	4,818.12	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,754.80	8	4,112.36	8	4,469.21	8	4,825.48	8		8		8		8		8		8	
1/4	3,762.26	1/4	4,119.79	1/4	4,476.65	1/4	4,832.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,769.72	1/2	4,127.22	1/2	4,484.08	1/2	4,840.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,777.17	3/4	4,134.66	3/4	4,491.51	3/4	4,847.56	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,784.63	9	4,142.09	9	4,498.95	9	4,854.92	9		9		9		9		9		9	
1/4	3,792.09	1/4	4,149.53	1/4	4,506.38	1/4	4,862.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,799.54	1/2	4,156.96	1/2	4,513.82	1/2	4,869.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,807.00	3/4	4,164.40	3/4	4,521.25	3/4	4,877.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,814.45	10	4,171.83	10	4,528.69	10	4,884.37	10		10		10		10		10		10	
1/4	3,821.91	1/4	4,179.27	1/4	4,536.12	1/4	4,891.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,829.37	1/2	4,186.70	1/2	4,543.56	1/2	4,899.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,836.82	3/4	4,194.13	3/4	4,550.99	3/4	4,906.45	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,844.28	11	4,201.57	11	4,558.43	11	4,913.81	11		11		11		11		11		11	
1/4	3,851.74	1/4	4,209.00	1/4	4,565.86	1/4	4,921.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,859.19	1/2	4,216.44	1/2	4,573.29	1/2	4,928.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,866.65	3/4	4,223.87	3/4	4,580.73	3/4	4,935.85	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	15.33	0	359.28	0	718.40	0	1,067.79	0	1,422.16	0	1,781.28	0	2,140.39	0	2,499.51	0	2,858.63	0	3,217.74
1/4	20.00	1/4	366.76	1/4	725.88	1/4	1,074.96	1/4	1,429.64	1/4	1,788.76	1/4	2,147.88	1/4	2,506.99	1/4	2,866.11	1/4	3,225.23
1/2	24.68	1/2	374.25	1/2	733.36	1/2	1,082.14	1/2	1,437.12	1/2	1,796.24	1/2	2,155.36	1/2	2,514.47	1/2	2,873.59	1/2	3,232.71
3/4	29.36	3/4	381.73	3/4	740.84	3/4	1,089.31	3/4	1,444.60	3/4	1,803.72	3/4	2,162.84	3/4	2,521.96	3/4	2,881.07	3/4	3,240.19
1	34.03	1	389.21	1	748.33	1	1,096.49	1	1,452.09	1	1,811.20	1	2,170.32	1	2,529.44	1	2,888.55	1	3,247.67
1/4	40.58	1/4	396.69	1/4	755.81	1/4	1,103.67	1/4	1,459.57	1/4	1,818.68	1/4	2,177.80	1/4	2,536.92	1/4	2,896.04	1/4	3,255.15
1/2	47.12	1/2	404.17	1/2	763.29	1/2	1,110.85	1/2	1,467.05	1/2	1,826.17	1/2	2,185.28	1/2	2,544.40	1/2	2,903.52	1/2	3,262.63
3/4	53.67	3/4	411.65	3/4	770.77	3/4	1,118.04	3/4	1,474.53	3/4	1,833.65	3/4	2,192.76	3/4	2,551.88	3/4	2,911.00	3/4	3,270.12
2	60.21	2	419.14	2	778.25	2	1,125.22	2	1,482.01	2	1,841.13	2	2,200.25	2	2,559.36	2	2,918.48	2	3,277.60
1/4	67.66	1/4	426.62	1/4	785.73	1/4	1,132.40	1/4	1,489.49	1/4	1,848.61	1/4	2,207.73	1/4	2,566.84	1/4	2,925.96	1/4	3,285.08
1/2	75.10	1/2	434.10	1/2	793.22	1/2	1,139.59	1/2	1,496.98	1/2	1,856.09	1/2	2,215.21	1/2	2,574.33	1/2	2,933.44	1/2	3,292.56
3/4	82.55	3/4	441.58	3/4	800.70	3/4	1,146.77	3/4	1,504.46	3/4	1,863.57	3/4	2,222.69	3/4	2,581.81	3/4	2,940.92	3/4	3,300.04
3	89.99	3	449.06	3	808.18	3	1,153.95	3	1,511.94	3	1,871.06	3	2,230.17	3	2,589.29	3	2,948.41	3	3,307.52
1/4	97.46	1/4	456.54	1/4	815.66	1/4	1,161.15	1/4	1,519.42	1/4	1,878.54	1/4	2,237.65	1/4	2,596.77	1/4	2,955.89	1/4	3,315.00
1/2	104.93	1/2	464.03	1/2	823.14	1/2	1,168.35	1/2	1,526.90	1/2	1,886.02	1/2	2,245.14	1/2	2,604.25	1/2	2,963.37	1/2	3,322.49
3/4	112.41	3/4	471.51	3/4	830.62	3/4	1,175.55	3/4	1,534.38	3/4	1,893.50	3/4	2,252.62	3/4	2,611.73	3/4	2,970.85	3/4	3,329.97
4	119.88	4	478.99	4	838.10	4	1,182.75	4	1,541.87	4	1,900.98	4	2,260.10	4	2,619.22	4	2,978.33	4	3,337.45
1/4	127.36	1/4	486.47	1/4	845.30	1/4	1,190.23	1/4	1,549.35	1/4	1,908.46	1/4	2,267.58	1/4	2,626.70	1/4	2,985.81	1/4	3,344.93
1/2	134.84	1/2	493.95	1/2	852.50	1/2	1,197.71	1/2	1,556.83	1/2	1,915.95	1/2	2,275.06	1/2	2,634.18	1/2	2,993.30	1/2	3,352.41
3/4	142.32	3/4	501.43	3/4	859.70	3/4	1,205.19	3/4	1,564.31	3/4	1,923.43	3/4	2,282.54	3/4	2,641.66	3/4	3,000.78	3/4	3,359.89
5	149.80	5	508.91	5	866.90	5	1,212.68	5	1,571.79	5	1,930.91	5	2,290.03	5	2,649.14	5	3,008.26	5	3,367.38
1/4	157.28	1/4	516.40	1/4	874.08	1/4	1,220.16	1/4	1,579.27	1/4	1,938.39	1/4	2,297.51	1/4	2,656.62	1/4	3,015.74	1/4	3,374.86
1/2	164.76	1/2	523.88	1/2	881.25	1/2	1,227.64	1/2	1,586.76	1/2	1,945.87	1/2	2,304.99	1/2	2,664.11	1/2	3,023.22	1/2	3,382.34
3/4	172.24	3/4	531.36	3/4	888.42	3/4	1,235.12	3/4	1,594.24	3/4	1,953.35	3/4	2,312.47	3/4	2,671.59	3/4	3,030.70	3/4	3,389.82
6	179.72	6	538.84	6	895.60	6	1,242.60	6	1,601.72	6	1,960.84	6	2,319.95	6	2,679.07	6	3,038.19	6	3,397.30
1/4	187.21	1/4	546.32	1/4	902.77	1/4	1,250.08	1/4	1,609.20	1/4	1,968.32	1/4	2,327.43	1/4	2,686.55	1/4	3,045.67	1/4	3,404.78
1/2	194.69	1/2	553.80	1/2	909.95	1/2	1,257.56	1/2	1,616.68	1/2	1,975.80	1/2	2,334.92	1/2	2,694.03	1/2	3,053.15	1/2	3,412.27
3/4	202.17	3/4	561.29	3/4	917.12	3/4	1,265.05	3/4	1,624.16	3/4	1,983.28	3/4	2,342.40	3/4	2,701.51	3/4	3,060.63	3/4	3,419.75
7	209.65	7	568.77	7	924.30	7	1,272.53	7	1,631.64	7	1,990.76	7	2,349.88	7	2,709.00	7	3,068.11	7	3,427.23
1/4	217.13	1/4	576.25	1/4	931.47	1/4	1,280.01	1/4	1,639.13	1/4	1,998.24	1/4	2,357.36	1/4	2,716.48	1/4	3,075.59	1/4	3,434.71
1/2	224.61	1/2	583.73	1/2	938.65	1/2	1,287.49	1/2	1,646.61	1/2	2,005.72	1/2	2,364.84	1/2	2,723.96	1/2	3,083.08	1/2	3,442.19
3/4	232.10	3/4	591.21	3/4	945.82	3/4	1,294.97	3/4	1,654.09	3/4	2,013.21	3/4	2,372.32	3/4	2,731.44	3/4	3,090.56	3/4	3,449.67
8	239.58	8	598.69	8	953.00	8	1,302.45	8	1,661.57	8	2,020.69	8	2,379.80	8	2,738.92	8	3,098.04	8	3,457.16
1/4	247.06	1/4	606.18	1/4	960.17	1/4	1,309.94	1/4	1,669.05	1/4	2,028.17	1/4	2,387.29	1/4	2,746.40	1/4	3,105.52	1/4	3,464.64
1/2	254.54	1/2	613.66	1/2	967.35	1/2	1,317.42	1/2	1,676.53	1/2	2,035.65	1/2	2,394.77	1/2	2,753.88	1/2	3,113.00	1/2	3,472.12
3/4	262.02	3/4	621.14	3/4	974.52	3/4	1,324.90	3/4	1,684.02	3/4	2,043.13	3/4	2,402.25	3/4	2,761.37	3/4	3,120.48	3/4	3,479.60
9	269.50	9	628.62	9	981.69	9	1,332.38	9	1,691.50	9	2,050.61	9	2,409.73	9	2,768.85	9	3,127.96	9	3,487.08
1/4	276.99	1/4	636.10	1/4	988.87	1/4	1,339.86	1/4	1,698.98	1/4	2,058.10	1/4	2,417.21	1/4	2,776.33	1/4	3,135.45	1/4	3,494.56
1/2	284.47	1/2	643.58	1/2	996.04	1/2	1,347.34	1/2	1,706.46	1/2	2,065.58	1/2	2,424.69	1/2	2,783.81	1/2	3,142.93	1/2	3,502.04
3/4	291.95	3/4	651.07	3/4	1,003.22	3/4	1,354.83	3/4	1,713.94	3/4	2,073.06	3/4	2,432.18	3/4	2,791.29	3/4	3,150.41	3/4	3,509.53
10	299.43	10	658.55	10	1,010.39	10	1,362.31	10	1,721.42	10	2,080.54	10	2,439.66	10	2,798.77	10	3,157.89	10	3,517.01
1/4	306.91	1/4	666.03	1/4	1,017.57	1/4	1,369.79	1/4	1,728.91	1/4	2,088.02	1/4	2,447.14	1/4	2,806.26	1/4	3,165.37	1/4	3,524.49
1/2	314.39	1/2	673.51	1/2	1,024.74	1/2	1,377.27	1/2	1,736.39	1/2	2,095.50	1/2	2,454.62	1/2	2,813.74	1/2	3,172.85	1/2	3,531.97
3/4	321.87	3/4	680.99	3/4	1,031.92	3/4	1,384.75	3/4	1,743.87	3/4	2,102.99	3/4	2,462.10	3/4	2,821.22	3/4	3,180.34	3/4	3,539.45
11	329.36	11	688.47	11	1,039.09	11	1,392.23	11	1,751.35	11	2,110.47	11	2,469.58	11	2,828.70	11	3,187.82	11	3,546.93
1/4	336.84	1/4	695.95	1/4	1,046.27	1/4	1,399.72	1/4	1,758.83	1/4	2,117.95	1/4	2,477.07	1/4	2,836.18	1/4	3,195.30	1/4	3,554.42
1/2	344.32	1/2	703.44	1/2	1,053.44	1/2	1,407.20	1/2	1,766.31	1/2	2,125.43	1/2	2,484.55	1/2	2,843.66	1/2	3,202.78	1/2	3,561.90
3/4	351.80	3/4	710.92	3/4	1,060.62	3/4	1,414.68	3/4	1,773.80	3/4	2,132.91	3/4	2,492.03	3/4	2,851.15	3/4	3,210.26	3/4	3,569.38

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,576.86	0	3,935.98	0	4,294.40	0	4,652.47	0	5,008.88	0		0		0		0		0	
1/4	3,584.34	1/4	3,943.46	1/4	4,301.86	1/4	4,659.93	1/4	5,016.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,591.82	1/2	3,950.94	1/2	4,309.32	1/2	4,667.39	1/2	5,023.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.31	3/4	3,958.42	3/4	4,316.78	3/4	4,674.85	3/4	5,030.85	3/4		3/4		3/4		3/4		3/4	
1	3,606.79	1	3,965.90	1	4,324.24	1	4,682.31	1	5,038.17	1		1		1		1		1	
1/4	3,614.27	1/4	3,973.39	1/4	4,331.70	1/4	4,689.77	1/4	5,044.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,621.75	1/2	3,980.87	1/2	4,339.16	1/2	4,697.23	1/2	5,051.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,629.23	3/4	3,988.35	3/4	4,346.62	3/4	4,704.69	3/4	5,057.55	3/4		3/4		3/4		3/4		3/4	
2	3,636.71	2	3,995.83	2	4,354.08	2	4,712.15	2	5,064.01	2		2		2		2		2	
1/4	3,644.20	1/4	4,003.31	1/4	4,361.53	1/4	4,719.61	1/4	5,069.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,651.68	1/2	4,010.79	1/2	4,368.99	1/2	4,727.07	1/2	5,074.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.16	3/4	4,018.28	3/4	4,376.45	3/4	4,734.52	3/4	5,079.64	3/4		3/4		3/4		3/4		3/4	
3	3,666.64	3	4,025.76	3	4,383.91	3	4,741.98	3	5,084.85	3		3		3		3		3	
1/4	3,674.12	1/4	4,033.24	1/4	4,391.37	1/4	4,749.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.60	1/2	4,040.72	1/2	4,398.83	1/2	4,756.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,689.08	3/4	4,048.20	3/4	4,406.29	3/4	4,764.36	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,696.57	4	4,055.68	4	4,413.75	4	4,771.82	4		4		4		4		4		4	
1/4	3,704.05	1/4	4,063.14	1/4	4,421.21	1/4	4,779.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.53	1/2	4,070.60	1/2	4,428.67	1/2	4,786.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.01	3/4	4,078.06	3/4	4,436.13	3/4	4,794.20	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,726.49	5	4,085.52	5	4,443.59	5	4,801.66	5		5		5		5		5		5	
1/4	3,733.97	1/4	4,092.98	1/4	4,451.05	1/4	4,809.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,741.46	1/2	4,100.44	1/2	4,458.51	1/2	4,816.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,748.94	3/4	4,107.90	3/4	4,465.97	3/4	4,824.04	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,756.42	6	4,115.36	6	4,473.43	6	4,831.50	6		6		6		6		6		6	
1/4	3,763.90	1/4	4,122.82	1/4	4,480.89	1/4	4,838.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,771.38	1/2	4,130.28	1/2	4,488.35	1/2	4,846.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,778.86	3/4	4,137.74	3/4	4,495.81	3/4	4,853.68	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,786.35	7	4,145.20	7	4,503.27	7	4,861.08	7		7		7		7		7		7	
1/4	3,793.83	1/4	4,152.66	1/4	4,510.73	1/4	4,868.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,801.31	1/2	4,160.12	1/2	4,518.19	1/2	4,875.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,808.79	3/4	4,167.58	3/4	4,525.65	3/4	4,883.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,816.27	8	4,175.04	8	4,533.11	8	4,890.66	8		8		8		8		8		8	
1/4	3,823.75	1/4	4,182.50	1/4	4,540.57	1/4	4,898.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,831.24	1/2	4,189.96	1/2	4,548.03	1/2	4,905.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,838.72	3/4	4,197.42	3/4	4,555.49	3/4	4,912.84	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,846.20	9	4,204.88	9	4,562.95	9	4,920.23	9		9		9		9		9		9	
1/4	3,853.68	1/4	4,212.34	1/4	4,570.41	1/4	4,927.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,861.16	1/2	4,219.80	1/2	4,577.87	1/2	4,935.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,868.64	3/4	4,227.26	3/4	4,585.33	3/4	4,942.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,876.12	10	4,234.72	10	4,592.79	10	4,949.81	10		10		10		10		10		10	
1/4	3,883.61	1/4	4,242.18	1/4	4,600.25	1/4	4,957.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,891.09	1/2	4,249.64	1/2	4,607.71	1/2	4,964.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,898.57	3/4	4,257.10	3/4	4,615.17	3/4	4,971.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,906.05	11	4,264.56	11	4,622.63	11	4,979.37	11		11		11		11		11		11	
1/4	3,913.53	1/4	4,272.02	1/4	4,630.09	1/4	4,986.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,921.01	1/2	4,279.48	1/2	4,637.55	1/2	4,994.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,928.50	3/4	4,286.94	3/4	4,645.01	3/4	5,001.50	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.34	0	359.65	0	719.13	0	1,078.21	0	1,437.59	0	1,797.07	0	2,156.55	0	2,516.03	0	2,875.45	0	3,234.82
1/4	20.02	1/4	367.14	1/4	726.62	1/4	1,085.68	1/4	1,445.08	1/4	1,804.56	1/4	2,164.04	1/4	2,523.52	1/4	2,882.93	1/4	3,242.31
1/2	24.70	1/2	374.63	1/2	734.11	1/2	1,093.16	1/2	1,452.56	1/2	1,812.05	1/2	2,171.53	1/2	2,531.01	1/2	2,890.42	1/2	3,249.79
3/4	29.39	3/4	382.11	3/4	741.60	3/4	1,100.63	3/4	1,460.05	3/4	1,819.54	3/4	2,179.02	3/4	2,538.50	3/4	2,897.91	3/4	3,257.28
1	34.07	1	389.60	1	749.09	1	1,108.11	1	1,467.54	1	1,827.02	1	2,186.51	1	2,545.99	1	2,905.40	1	3,264.77
1/4	40.62	1/4	397.09	1/4	756.57	1/4	1,115.59	1/4	1,475.03	1/4	1,834.51	1/4	2,194.00	1/4	2,553.48	1/4	2,912.88	1/4	3,272.25
1/2	47.17	1/2	404.58	1/2	764.06	1/2	1,123.07	1/2	1,482.52	1/2	1,842.00	1/2	2,201.48	1/2	2,560.97	1/2	2,920.37	1/2	3,279.74
3/4	53.72	3/4	412.07	3/4	771.55	3/4	1,130.56	3/4	1,490.01	3/4	1,849.49	3/4	2,208.97	3/4	2,568.46	3/4	2,927.86	3/4	3,287.23
2	60.27	2	419.56	2	779.04	2	1,138.04	2	1,497.50	2	1,856.98	2	2,216.46	2	2,575.94	2	2,935.34	2	3,294.71
1/4	67.73	1/4	427.05	1/4	786.53	1/4	1,145.52	1/4	1,504.99	1/4	1,864.47	1/4	2,223.95	1/4	2,583.43	1/4	2,942.83	1/4	3,302.20
1/2	75.18	1/2	434.54	1/2	794.02	1/2	1,153.01	1/2	1,512.48	1/2	1,871.96	1/2	2,231.44	1/2	2,590.92	1/2	2,950.32	1/2	3,309.69
3/4	82.63	3/4	442.03	3/4	801.51	3/4	1,160.49	3/4	1,519.97	3/4	1,879.45	3/4	2,238.93	3/4	2,598.41	3/4	2,957.80	3/4	3,317.18
3	90.08	3	449.52	3	809.00	3	1,167.97	3	1,527.46	3	1,886.94	3	2,246.42	3	2,605.90	3	2,965.29	3	3,324.66
1/4	97.56	1/4	457.01	1/4	816.49	1/4	1,175.46	1/4	1,534.95	1/4	1,894.43	1/4	2,253.91	1/4	2,613.39	1/4	2,972.78	1/4	3,332.15
1/2	105.04	1/2	464.50	1/2	823.98	1/2	1,182.95	1/2	1,542.43	1/2	1,901.92	1/2	2,261.40	1/2	2,620.88	1/2	2,980.26	1/2	3,339.64
3/4	112.52	3/4	471.98	3/4	831.47	3/4	1,190.44	3/4	1,549.92	3/4	1,909.41	3/4	2,268.89	3/4	2,628.37	3/4	2,987.75	3/4	3,347.12
4	120.00	4	479.47	4	838.96	4	1,197.93	4	1,557.41	4	1,916.89	4	2,276.38	4	2,635.86	4	2,995.24	4	3,354.61
1/4	127.49	1/4	486.96	1/4	846.44	1/4	1,205.42	1/4	1,564.90	1/4	1,924.38	1/4	2,283.87	1/4	2,643.35	1/4	3,002.73	1/4	3,362.10
1/2	134.97	1/2	494.45	1/2	853.93	1/2	1,212.91	1/2	1,572.39	1/2	1,931.87	1/2	2,291.35	1/2	2,650.84	1/2	3,010.21	1/2	3,369.58
3/4	142.46	3/4	501.94	3/4	861.42	3/4	1,220.40	3/4	1,579.88	3/4	1,939.36	3/4	2,298.84	3/4	2,658.33	3/4	3,017.70	3/4	3,377.07
5	149.95	5	509.43	5	868.91	5	1,227.89	5	1,587.37	5	1,946.85	5	2,306.33	5	2,665.81	5	3,025.19	5	3,384.56
1/4	157.44	1/4	516.92	1/4	876.39	1/4	1,235.38	1/4	1,594.86	1/4	1,954.34	1/4	2,313.82	1/4	2,673.30	1/4	3,032.67	1/4	3,392.04
1/2	164.93	1/2	524.41	1/2	883.86	1/2	1,242.87	1/2	1,602.35	1/2	1,961.83	1/2	2,321.31	1/2	2,680.79	1/2	3,040.16	1/2	3,399.53
3/4	172.42	3/4	531.90	3/4	891.34	3/4	1,250.36	3/4	1,609.84	3/4	1,969.32	3/4	2,328.80	3/4	2,688.28	3/4	3,047.65	3/4	3,407.02
6	179.91	6	539.39	6	898.81	6	1,257.85	6	1,617.33	6	1,976.81	6	2,336.29	6	2,695.76	6	3,055.13	6	3,414.50
1/4	187.40	1/4	546.88	1/4	906.29	1/4	1,265.33	1/4	1,624.82	1/4	1,984.30	1/4	2,343.78	1/4	2,703.25	1/4	3,062.62	1/4	3,421.99
1/2	194.88	1/2	554.37	1/2	913.76	1/2	1,272.82	1/2	1,632.31	1/2	1,991.79	1/2	2,351.27	1/2	2,710.74	1/2	3,070.11	1/2	3,429.48
3/4	202.37	3/4	561.86	3/4	921.24	3/4	1,280.31	3/4	1,639.79	3/4	1,999.28	3/4	2,358.76	3/4	2,718.22	3/4	3,077.59	3/4	3,436.97
7	209.86	7	569.34	7	928.71	7	1,287.80	7	1,647.28	7	2,006.77	7	2,366.25	7	2,725.71	7	3,085.08	7	3,444.45
1/4	217.35	1/4	576.83	1/4	936.19	1/4	1,295.29	1/4	1,654.77	1/4	2,014.25	1/4	2,373.74	1/4	2,733.20	1/4	3,092.57	1/4	3,451.94
1/2	224.84	1/2	584.32	1/2	943.66	1/2	1,302.78	1/2	1,662.26	1/2	2,021.74	1/2	2,381.23	1/2	2,740.68	1/2	3,100.06	1/2	3,459.43
3/4	232.33	3/4	591.81	3/4	951.14	3/4	1,310.27	3/4	1,669.75	3/4	2,029.23	3/4	2,388.71	3/4	2,748.17	3/4	3,107.54	3/4	3,466.91
8	239.82	8	599.30	8	958.61	8	1,317.76	8	1,677.24	8	2,036.72	8	2,396.20	8	2,755.66	8	3,115.03	8	3,474.40
1/4	247.31	1/4	606.79	1/4	966.08	1/4	1,325.25	1/4	1,684.73	1/4	2,044.21	1/4	2,403.69	1/4	2,763.14	1/4	3,122.52	1/4	3,481.89
1/2	254.80	1/2	614.28	1/2	973.56	1/2	1,332.74	1/2	1,692.22	1/2	2,051.70	1/2	2,411.18	1/2	2,770.63	1/2	3,130.06	1/2	3,489.37
3/4	262.29	3/4	621.77	3/4	981.03	3/4	1,340.23	3/4	1,699.71	3/4	2,059.19	3/4	2,418.67	3/4	2,778.12	3/4	3,137.49	3/4	3,496.86
9	269.78	9	629.26	9	988.51	9	1,347.72	9	1,707.20	9	2,066.68	9	2,426.16	9	2,785.61	9	3,144.98	9	3,504.35
1/4	277.27	1/4	636.75	1/4	995.98	1/4	1,355.20	1/4	1,714.69	1/4	2,074.17	1/4	2,433.65	1/4	2,793.09	1/4	3,152.46	1/4	3,511.83
1/2	284.75	1/2	644.24	1/2	1,003.46	1/2	1,362.69	1/2	1,722.18	1/2	2,081.66	1/2	2,441.14	1/2	2,800.58	1/2	3,159.95	1/2	3,519.32
3/4	292.24	3/4	651.73	3/4	1,010.93	3/4	1,370.18	3/4	1,729.66	3/4	2,089.15	3/4	2,448.63	3/4	2,808.07	3/4	3,167.44	3/4	3,526.81
10	299.73	10	659.21	10	1,018.41	10	1,377.67	10	1,737.15	10	2,096.64	10	2,456.12	10	2,815.55	10	3,174.92	10	3,534.30
1/4	307.22	1/4	666.70	1/4	1,025.88	1/4	1,385.16	1/4	1,744.64	1/4	2,104.12	1/4	2,463.61	1/4	2,823.04	1/4	3,182.41	1/4	3,541.78
1/2	314.71	1/2	674.19	1/2	1,033.36	1/2	1,392.65	1/2	1,752.13	1/2	2,111.61	1/2	2,471.10	1/2	2,830.53	1/2	3,189.90	1/2	3,549.27
3/4	322.20	3/4	681.68	3/4	1,040.83	3/4	1,400.14	3/4	1,759.62	3/4	2,119.10	3/4	2,478.58	3/4	2,838.01	3/4	3,197.38	3/4	3,556.76
11	329.69	11	689.17	11	1,048.31	11	1,407.63	11	1,767.11	11	2,126.59	11	2,486.07	11	2,845.50	11	3,204.87	11	3,564.24
1/4	337.18	1/4	696.66	1/4	1,055.78	1/4	1,415.12	1/4	1,774.60	1/4	2,134.08	1/4	2,493.56	1/4	2,852.99	1/4	3,212.36	1/4	3,571.73
1/2	344.67	1/2	704.15	1/2	1,063.26	1/2	1,422.61	1/2	1,782.09	1/2	2,141.57	1/2	2,501.05	1/2	2,860.47	1/2	3,219.85	1/2	3,579.22
3/4	352.16	3/4	711.64	3/4	1,070.73	3/4	1,430.10	3/4	1,789.58	3/4	2,149.06	3/4	2,508.54	3/4	2,867.96	3/4	3,227.33	3/4	3,586.70

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

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





# BARGE "E2MS 309"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	3,594.19	0	3,953.56	0	4,312.25	0	4,670.59	0	5,027.12	0		0		0		0		0	
1/4	3,601.68	1/4	3,961.05	1/4	4,319.71	1/4	4,678.06	1/4	5,034.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.16	1/2	3,968.54	1/2	4,327.18	1/2	4,685.52	1/2	5,041.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.65	3/4	3,976.02	3/4	4,334.64	3/4	4,692.99	3/4	5,049.09	3/4		3/4		3/4		3/4		3/4	
1	3,624.14	1	3,983.51	1	4,342.11	1	4,700.45	1	5,056.41	1		1		1		1		1	
1/4	3,631.62	1/4	3,991.00	1/4	4,349.58	1/4	4,707.92	1/4	5,062.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.11	1/2	3,998.48	1/2	4,357.04	1/2	4,715.39	1/2	5,069.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.60	3/4	4,005.97	3/4	4,364.51	3/4	4,722.85	3/4	5,075.78	3/4		3/4		3/4		3/4		3/4	
2	3,654.09	2	4,013.46	2	4,371.97	2	4,730.32	2	5,082.24	2		2		2		2		2	
1/4	3,661.57	1/4	4,020.94	1/4	4,379.44	1/4	4,737.78	1/4	5,087.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.06	1/2	4,028.43	1/2	4,386.90	1/2	4,745.25	1/2	5,092.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.55	3/4	4,035.92	3/4	4,394.37	3/4	4,752.71	3/4	5,097.87	3/4		3/4		3/4		3/4		3/4	
3	3,684.03	3	4,043.40	3	4,401.83	3	4,760.18	3	5,103.08	3		3		3		3		3	
1/4	3,691.52	1/4	4,050.89	1/4	4,409.30	1/4	4,767.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,699.01	1/2	4,058.38	1/2	4,416.77	1/2	4,775.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,706.49	3/4	4,065.87	3/4	4,424.23	3/4	4,782.57	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,713.98	4	4,073.35	4	4,431.70	4	4,790.04	4		4		4		4		4		4	
1/4	3,721.47	1/4	4,080.82	1/4	4,439.16	1/4	4,797.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,728.95	1/2	4,088.28	1/2	4,446.63	1/2	4,804.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,736.44	3/4	4,095.75	3/4	4,454.09	3/4	4,812.44	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,743.93	5	4,103.21	5	4,461.56	5	4,819.90	5		5		5		5		5		5	
1/4	3,751.42	1/4	4,110.68	1/4	4,469.02	1/4	4,827.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,758.90	1/2	4,118.15	1/2	4,476.49	1/2	4,834.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,766.39	3/4	4,125.61	3/4	4,483.95	3/4	4,842.30	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,773.88	6	4,133.08	6	4,491.42	6	4,849.76	6		6		6		6		6		6	
1/4	3,781.36	1/4	4,140.54	1/4	4,498.89	1/4	4,857.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,788.85	1/2	4,148.01	1/2	4,506.35	1/2	4,864.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,796.34	3/4	4,155.47	3/4	4,513.82	3/4	4,871.94	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,803.82	7	4,162.94	7	4,521.28	7	4,879.33	7		7		7		7		7		7	
1/4	3,811.31	1/4	4,170.40	1/4	4,528.75	1/4	4,886.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.80	1/2	4,177.87	1/2	4,536.21	1/2	4,894.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,826.28	3/4	4,185.33	3/4	4,543.68	3/4	4,901.50	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,833.77	8	4,192.80	8	4,551.14	8	4,908.90	8		8		8		8		8		8	
1/4	3,841.26	1/4	4,200.27	1/4	4,558.61	1/4	4,916.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.75	1/2	4,207.73	1/2	4,566.08	1/2	4,923.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,856.23	3/4	4,215.20	3/4	4,573.54	3/4	4,931.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,863.72	9	4,222.66	9	4,581.01	9	4,938.46	9		9		9		9		9		9	
1/4	3,871.21	1/4	4,230.13	1/4	4,588.47	1/4	4,945.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,878.69	1/2	4,237.59	1/2	4,595.94	1/2	4,953.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,886.18	3/4	4,245.06	3/4	4,603.40	3/4	4,960.64	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,893.67	10	4,252.52	10	4,610.87	10	4,968.04	10		10		10		10		10		10	
1/4	3,901.15	1/4	4,259.99	1/4	4,618.33	1/4	4,975.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,908.64	1/2	4,267.46	1/2	4,625.80	1/2	4,982.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,916.13	3/4	4,274.92	3/4	4,633.26	3/4	4,990.21	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,923.61	11	4,282.39	11	4,640.73	11	4,997.60	11		11		11		11		11		11	
1/4	3,931.10	1/4	4,289.85	1/4	4,648.20	1/4	5,004.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,938.59	1/2	4,297.32	1/2	4,655.66	1/2	5,012.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,946.07	3/4	4,304.78	3/4	4,663.13	3/4	5,019.74	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	15.26	0	357.53	0	714.42	0	1,061.67	0	1,414.56	0	1,771.15	0	2,127.01	0	2,483.59	0	2,839.88	0	3,196.14
1/4	19.91	1/4	364.96	1/4	721.85	1/4	1,068.81	1/4	1,421.99	1/4	1,778.57	1/4	2,134.44	1/4	2,491.01	1/4	2,847.30	1/4	3,203.54
1/2	24.57	1/2	372.40	1/2	729.29	1/2	1,075.95	1/2	1,429.42	1/2	1,785.98	1/2	2,141.87	1/2	2,498.44	1/2	2,854.72	1/2	3,210.93
3/4	29.22	3/4	379.83	3/4	736.73	3/4	1,083.08	3/4	1,436.85	3/4	1,793.39	3/4	2,149.30	3/4	2,505.86	3/4	2,862.15	3/4	3,218.33
1	33.88	1	387.27	1	744.16	1	1,090.22	1	1,444.28	1	1,800.81	1	2,156.72	1	2,513.28	1	2,869.57	1	3,225.72
1/4	40.39	1/4	394.70	1/4	751.60	1/4	1,097.43	1/4	1,451.71	1/4	1,808.22	1/4	2,164.15	1/4	2,520.71	1/4	2,876.99	1/4	3,233.11
1/2	46.90	1/2	402.14	1/2	759.03	1/2	1,104.64	1/2	1,459.14	1/2	1,815.63	1/2	2,171.58	1/2	2,528.13	1/2	2,884.41	1/2	3,240.51
3/4	53.42	3/4	409.57	3/4	766.47	3/4	1,111.85	3/4	1,466.57	3/4	1,823.05	3/4	2,179.00	3/4	2,535.55	3/4	2,891.83	3/4	3,247.90
2	59.93	2	417.01	2	773.90	2	1,119.06	2	1,474.00	2	1,830.46	2	2,186.43	2	2,542.98	2	2,899.26	2	3,255.30
1/4	67.35	1/4	424.44	1/4	781.34	1/4	1,126.27	1/4	1,481.44	1/4	1,837.88	1/4	2,193.86	1/4	2,550.40	1/4	2,906.68	1/4	3,262.69
1/2	74.76	1/2	431.88	1/2	788.77	1/2	1,133.48	1/2	1,488.87	1/2	1,845.29	1/2	2,201.28	1/2	2,557.82	1/2	2,914.10	1/2	3,270.08
3/4	82.17	3/4	439.31	3/4	796.21	3/4	1,140.69	3/4	1,496.30	3/4	1,852.70	3/4	2,208.71	3/4	2,565.25	3/4	2,921.52	3/4	3,277.48
3	89.58	3	446.75	3	803.64	3	1,147.90	3	1,503.73	3	1,860.12	3	2,216.14	3	2,572.67	3	2,928.95	3	3,284.87
1/4	97.01	1/4	454.18	1/4	811.01	1/4	1,155.12	1/4	1,511.16	1/4	1,867.53	1/4	2,223.56	1/4	2,580.09	1/4	2,936.37	1/4	3,292.27
1/2	104.45	1/2	461.62	1/2	818.39	1/2	1,162.35	1/2	1,518.59	1/2	1,874.95	1/2	2,230.99	1/2	2,587.52	1/2	2,943.79	1/2	3,299.66
3/4	111.89	3/4	469.05	3/4	825.76	3/4	1,169.57	3/4	1,526.02	3/4	1,882.36	3/4	2,238.42	3/4	2,594.94	3/4	2,951.21	3/4	3,307.05
4	119.32	4	476.49	4	833.13	4	1,176.79	4	1,533.45	4	1,889.77	4	2,245.84	4	2,602.36	4	2,958.63	4	3,314.45
1/4	126.77	1/4	483.93	1/4	840.29	1/4	1,184.22	1/4	1,540.88	1/4	1,897.19	1/4	2,253.27	1/4	2,609.79	1/4	2,966.06	1/4	3,321.84
1/2	134.21	1/2	491.36	1/2	847.45	1/2	1,191.65	1/2	1,548.31	1/2	1,904.60	1/2	2,260.70	1/2	2,617.21	1/2	2,973.48	1/2	3,329.23
3/4	141.66	3/4	498.80	3/4	854.61	3/4	1,199.08	3/4	1,555.74	3/4	1,912.02	3/4	2,268.13	3/4	2,624.63	3/4	2,980.90	3/4	3,336.63
5	149.10	5	506.23	5	861.78	5	1,206.51	5	1,563.17	5	1,919.43	5	2,275.55	5	2,632.06	5	2,988.32	5	3,344.02
1/4	156.55	1/4	513.67	1/4	868.91	1/4	1,213.94	1/4	1,570.60	1/4	1,926.84	1/4	2,282.98	1/4	2,639.48	1/4	2,995.75	1/4	3,351.41
1/2	164.00	1/2	521.10	1/2	876.05	1/2	1,221.37	1/2	1,578.03	1/2	1,934.26	1/2	2,290.42	1/2	2,646.90	1/2	3,003.17	1/2	3,358.80
3/4	171.45	3/4	528.54	3/4	883.19	3/4	1,228.80	3/4	1,585.46	3/4	1,941.67	3/4	2,297.85	3/4	2,654.32	3/4	3,010.59	3/4	3,366.19
6	178.89	6	535.97	6	890.33	6	1,236.24	6	1,592.89	6	1,949.08	6	2,305.28	6	2,661.75	6	3,018.01	6	3,373.58
1/4	186.34	1/4	543.41	1/4	897.47	1/4	1,243.67	1/4	1,600.32	1/4	1,956.50	1/4	2,312.71	1/4	2,669.17	1/4	3,025.43	1/4	3,380.96
1/2	193.79	1/2	550.84	1/2	904.61	1/2	1,251.10	1/2	1,607.75	1/2	1,963.91	1/2	2,320.15	1/2	2,676.59	1/2	3,032.86	1/2	3,388.34
3/4	201.23	3/4	558.28	3/4	911.75	3/4	1,258.53	3/4	1,615.18	3/4	1,971.33	3/4	2,327.58	3/4	2,684.01	3/4	3,040.28	3/4	3,395.72
7	208.68	7	565.71	7	918.89	7	1,265.96	7	1,622.61	7	1,978.74	7	2,335.01	7	2,691.44	7	3,047.70	7	3,403.10
1/4	216.13	1/4	573.15	1/4	926.03	1/4	1,273.39	1/4	1,630.04	1/4	1,986.15	1/4	2,342.44	1/4	2,698.86	1/4	3,055.12	1/4	3,410.26
1/2	223.57	1/2	580.58	1/2	933.17	1/2	1,280.82	1/2	1,637.47	1/2	1,993.57	1/2	2,349.88	1/2	2,706.28	1/2	3,062.55	1/2	3,417.41
3/4	231.02	3/4	588.02	3/4	940.30	3/4	1,288.25	3/4	1,644.90	3/4	2,000.98	3/4	2,357.31	3/4	2,713.70	3/4	3,069.97	3/4	3,424.56
8	238.47	8	595.45	8	947.44	8	1,295.68	8	1,652.33	8	2,008.40	8	2,364.74	8	2,721.12	8	3,077.39	8	3,431.72
1/4	245.91	1/4	602.89	1/4	954.58	1/4	1,303.11	1/4	1,659.76	1/4	2,015.81	1/4	2,372.17	1/4	2,728.55	1/4	3,084.81	1/4	3,438.39
1/2	253.36	1/2	610.33	1/2	961.72	1/2	1,310.54	1/2	1,667.19	1/2	2,023.22	1/2	2,379.61	1/2	2,735.97	1/2	3,092.23	1/2	3,445.07
3/4	260.81	3/4	617.76	3/4	968.86	3/4	1,317.97	3/4	1,674.62	3/4	2,030.64	3/4	2,387.04	3/4	2,743.39	3/4	3,099.66	3/4	3,451.74
9	268.26	9	625.20	9	976.00	9	1,325.40	9	1,682.05	9	2,038.05	9	2,394.47	9	2,750.81	9	3,107.08	9	3,458.42
1/4	275.70	1/4	632.63	1/4	983.14	1/4	1,332.83	1/4	1,689.48	1/4	2,045.46	1/4	2,401.90	1/4	2,758.23	1/4	3,114.50	1/4	3,464.62
1/2	283.15	1/2	640.07	1/2	990.28	1/2	1,340.26	1/2	1,696.91	1/2	2,052.87	1/2	2,409.34	1/2	2,765.66	1/2	3,121.92	1/2	3,470.81
3/4	290.60	3/4	647.50	3/4	997.42	3/4	1,347.69	3/4	1,704.34	3/4	2,060.27	3/4	2,416.77	3/4	2,773.08	3/4	3,129.34	3/4	3,477.01
10	298.04	10	654.94	10	1,004.56	10	1,355.12	10	1,711.77	10	2,067.68	10	2,424.20	10	2,780.50	10	3,136.77	10	3,483.21
1/4	305.48	1/4	662.37	1/4	1,011.69	1/4	1,362.55	1/4	1,719.20	1/4	2,075.09	1/4	2,431.63	1/4	2,787.92	1/4	3,144.19	1/4	3,488.94
1/2	312.91	1/2	669.81	1/2	1,018.83	1/2	1,369.98	1/2	1,726.63	1/2	2,082.49	1/2	2,439.05	1/2	2,795.35	1/2	3,151.61	1/2	3,494.68
3/4	320.35	3/4	677.24	3/4	1,025.97	3/4	1,377.41	3/4	1,734.07	3/4	2,089.90	3/4	2,446.47	3/4	2,802.77	3/4	3,159.03	3/4	3,500.41
11	327.78	11	684.68	11	1,033.11	11	1,384.84	11	1,741.50	11	2,097.31	11	2,453.90	11	2,810.19	11	3,166.46	11	3,506.14
1/4	335.22	1/4	692.11	1/4	1,040.25	1/4	1,392.27	1/4	1,748.91	1/4	2,104.73	1/4	2,461.32	1/4	2,817.61	1/4	3,173.88	1/4	3,511.39
1/2	342.65	1/2	699.55	1/2	1,047.39	1/2	1,399.70	1/2	1,756.32	1/2	2,112.16	1/2	2,468.74	1/2	2,825.03	1/2	3,181.30	1/2	3,516.64
3/4	350.09	3/4	706.98	3/4	1,054.53	3/4	1,407.13	3/4	1,763.74	3/4	2,119.59	3/4	2,476.17	3/4	2,832.46	3/4	3,188.72	3/4	3,521.90

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "E2MS 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	3,527.15	0	3,747.53	0	3,966.55	0	4,185.36	0	4,403.07	0		0		0		0		0	
1/4	3,531.96	1/4	3,752.10	1/4	3,971.10	1/4	4,189.92	1/4	4,407.54	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,536.77	1/2	3,756.67	1/2	3,975.66	1/2	4,194.48	1/2	4,412.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,541.58	3/4	3,761.24	3/4	3,980.22	3/4	4,199.03	3/4	4,416.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,546.39	1	3,765.82	1	3,984.78	1	4,203.59	1	4,420.96	1		1	1	1	1	1	1	1	1
1/4	3,550.96	1/4	3,770.39	1/4	3,989.34	1/4	4,208.15	1/4	4,424.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,555.54	1/2	3,774.96	1/2	3,993.90	1/2	4,212.71	1/2	4,428.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,560.11	3/4	3,779.53	3/4	3,998.46	3/4	4,217.27	3/4	4,432.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,564.68	2	3,784.10	2	4,003.02	2	4,221.83	2	4,436.73	2		2	2	2	2	2	2	2	2
1/4	3,569.25	1/4	3,788.67	1/4	4,007.57	1/4	4,226.39	1/4	4,439.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,573.82	1/2	3,793.24	1/2	4,012.13	1/2	4,230.95	1/2	4,443.09	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,578.39	3/4	3,797.81	3/4	4,016.69	3/4	4,235.50	3/4	4,446.27	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,582.96	3	3,802.39	3	4,021.25	3	4,240.06	3	4,449.45	3		3	3	3	3	3	3	3	3
1/4	3,587.53	1/4	3,806.96	1/4	4,025.81	1/4	4,244.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,592.11	1/2	3,811.53	1/2	4,030.37	1/2	4,249.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,596.68	3/4	3,816.10	3/4	4,034.93	3/4	4,253.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,601.25	4	3,820.67	4	4,039.48	4	4,258.30	4		4	4	4	4	4	4	4	4	4	4
1/4	3,605.82	1/4	3,825.23	1/4	4,044.04	1/4	4,262.86	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,610.39	1/2	3,829.79	1/2	4,048.60	1/2	4,267.41	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,614.96	3/4	3,834.35	3/4	4,053.16	3/4	4,271.97	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,619.53	5	3,838.91	5	4,057.72	5	4,276.53	5		5	5	5	5	5	5	5	5	5	5
1/4	3,624.11	1/4	3,843.46	1/4	4,062.28	1/4	4,281.09	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,628.68	1/2	3,848.02	1/2	4,066.84	1/2	4,285.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,633.25	3/4	3,852.58	3/4	4,071.39	3/4	4,290.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,637.82	6	3,857.14	6	4,075.95	6	4,294.77	6		6	6	6	6	6	6	6	6	6	6
1/4	3,642.39	1/4	3,861.70	1/4	4,080.51	1/4	4,299.28	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,646.96	1/2	3,866.26	1/2	4,085.07	1/2	4,303.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,651.53	3/4	3,870.82	3/4	4,089.63	3/4	4,308.31	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,656.10	7	3,875.37	7	4,094.19	7	4,312.82	7		7	7	7	7	7	7	7	7	7	7
1/4	3,660.68	1/4	3,879.93	1/4	4,098.75	1/4	4,317.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,665.25	1/2	3,884.49	1/2	4,103.30	1/2	4,321.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,669.82	3/4	3,889.05	3/4	4,107.86	3/4	4,326.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,674.39	8	3,893.61	8	4,112.42	8	4,330.88	8		8	8	8	8	8	8	8	8	8	8
1/4	3,678.96	1/4	3,898.17	1/4	4,116.98	1/4	4,335.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,683.53	1/2	3,902.73	1/2	4,121.54	1/2	4,339.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,688.10	3/4	3,907.28	3/4	4,126.10	3/4	4,344.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,692.67	9	3,911.84	9	4,130.66	9	4,348.93	9		9	9	9	9	9	9	9	9	9	9
1/4	3,697.25	1/4	3,916.40	1/4	4,135.21	1/4	4,353.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,701.82	1/2	3,920.96	1/2	4,139.77	1/2	4,357.96	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,706.39	3/4	3,925.52	3/4	4,144.33	3/4	4,362.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,710.96	10	3,930.08	10	4,148.89	10	4,366.99	10		10	10	10	10	10	10	10	10	10	10
1/4	3,715.53	1/4	3,934.64	1/4	4,153.45	1/4	4,371.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,720.10	1/2	3,939.19	1/2	4,158.01	1/2	4,376.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,724.67	3/4	3,943.75	3/4	4,162.57	3/4	4,380.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,729.25	11	3,948.31	11	4,167.12	11	4,385.05	11		11	11	11	11	11	11	11	11	11	11
1/4	3,733.82	1/4	3,952.87	1/4	4,171.68	1/4	4,389.55	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,738.39	1/2	3,957.43	1/2	4,176.24	1/2	4,394.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,742.96	3/4	3,961.99	3/4	4,180.80	3/4	4,398.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "E2MS 309"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	15.30	0	358.52	0	716.87	0	1,074.82	0	1,433.08	0	1,791.44	0	2,149.80	0	2,508.09	0	2,865.97	0	3,223.84
1/4	19.96	1/4	365.98	1/4	724.34	1/4	1,082.27	1/4	1,440.54	1/4	1,798.91	1/4	2,157.27	1/4	2,515.55	1/4	2,873.43	1/4	3,231.26
1/2	24.63	1/2	373.45	1/2	731.80	1/2	1,089.72	1/2	1,448.01	1/2	1,806.37	1/2	2,164.74	1/2	2,523.00	1/2	2,880.88	1/2	3,238.69
3/4	29.29	3/4	380.92	3/4	739.27	3/4	1,097.17	3/4	1,455.48	3/4	1,813.84	3/4	2,172.20	3/4	2,530.46	3/4	2,888.34	3/4	3,246.12
1	33.96	1	388.38	1	746.74	1	1,104.62	1	1,462.94	1	1,821.30	1	2,179.67	1	2,537.92	1	2,895.80	1	3,253.55
1/4	40.49	1/4	395.85	1/4	754.20	1/4	1,112.08	1/4	1,470.41	1/4	1,828.77	1/4	2,187.13	1/4	2,545.37	1/4	2,903.25	1/4	3,260.97
1/2	47.02	1/2	403.31	1/2	761.67	1/2	1,119.54	1/2	1,477.87	1/2	1,836.24	1/2	2,194.60	1/2	2,552.83	1/2	2,910.71	1/2	3,268.40
3/4	53.55	3/4	410.78	3/4	769.13	3/4	1,127.00	3/4	1,485.34	3/4	1,843.70	3/4	2,202.07	3/4	2,560.29	3/4	2,918.16	3/4	3,275.83
2	60.08	2	418.24	2	776.60	2	1,134.46	2	1,492.81	2	1,851.17	2	2,209.53	2	2,567.74	2	2,925.62	2	3,283.26
1/4	67.51	1/4	425.71	1/4	784.06	1/4	1,141.92	1/4	1,500.27	1/4	1,858.63	1/4	2,217.00	1/4	2,575.20	1/4	2,933.07	1/4	3,290.68
1/2	74.94	1/2	433.18	1/2	791.53	1/2	1,149.38	1/2	1,507.74	1/2	1,866.10	1/2	2,224.46	1/2	2,582.66	1/2	2,940.53	1/2	3,298.11
3/4	82.37	3/4	440.64	3/4	799.00	3/4	1,156.85	3/4	1,515.20	3/4	1,873.57	3/4	2,231.93	3/4	2,590.11	3/4	2,947.98	3/4	3,305.54
3	89.80	3	448.11	3	806.46	3	1,164.31	3	1,522.67	3	1,881.03	3	2,239.40	3	2,597.57	3	2,955.44	3	3,312.96
1/4	97.26	1/4	455.57	1/4	813.93	1/4	1,171.77	1/4	1,530.13	1/4	1,888.50	1/4	2,246.86	1/4	2,605.02	1/4	2,962.90	1/4	3,320.39
1/2	104.71	1/2	463.04	1/2	821.39	1/2	1,179.24	1/2	1,537.60	1/2	1,895.96	1/2	2,254.33	1/2	2,612.48	1/2	2,970.35	1/2	3,327.82
3/4	112.17	3/4	470.50	3/4	828.86	3/4	1,186.70	3/4	1,545.07	3/4	1,903.43	3/4	2,261.79	3/4	2,619.94	3/4	2,977.81	3/4	3,335.25
4	119.62	4	477.97	4	836.32	4	1,194.17	4	1,552.53	4	1,910.90	4	2,269.26	4	2,627.39	4	2,985.26	4	3,342.67
1/4	127.09	1/4	485.44	1/4	843.79	1/4	1,201.64	1/4	1,560.00	1/4	1,918.36	1/4	2,276.72	1/4	2,634.85	1/4	2,992.72	1/4	3,350.10
1/2	134.55	1/2	492.90	1/2	851.26	1/2	1,209.10	1/2	1,567.46	1/2	1,925.83	1/2	2,284.19	1/2	2,642.31	1/2	3,000.17	1/2	3,357.53
3/4	142.02	3/4	500.37	3/4	858.72	3/4	1,216.57	3/4	1,574.93	3/4	1,933.29	3/4	2,291.66	3/4	2,649.76	3/4	3,007.63	3/4	3,364.95
5	149.48	5	507.83	5	866.19	5	1,224.03	5	1,582.40	5	1,940.76	5	2,299.12	5	2,657.22	5	3,015.08	5	3,372.38
1/4	156.95	1/4	515.30	1/4	873.64	1/4	1,231.50	1/4	1,589.86	1/4	1,948.23	1/4	2,306.59	1/4	2,664.68	1/4	3,022.54	1/4	3,379.80
1/2	164.41	1/2	522.76	1/2	881.09	1/2	1,238.96	1/2	1,597.33	1/2	1,955.69	1/2	2,314.05	1/2	2,672.13	1/2	3,029.99	1/2	3,387.23
3/4	171.88	3/4	530.23	3/4	888.54	3/4	1,246.43	3/4	1,604.79	3/4	1,963.16	3/4	2,321.52	3/4	2,679.59	3/4	3,037.45	3/4	3,394.65
6	179.34	6	537.70	6	895.99	6	1,253.90	6	1,612.26	6	1,970.62	6	2,328.99	6	2,687.04	6	3,044.91	6	3,402.07
1/4	186.81	1/4	545.16	1/4	903.44	1/4	1,261.36	1/4	1,619.73	1/4	1,978.09	1/4	2,336.45	1/4	2,694.50	1/4	3,052.36	1/4	3,409.49
1/2	194.27	1/2	552.63	1/2	910.89	1/2	1,268.83	1/2	1,627.19	1/2	1,985.55	1/2	2,343.92	1/2	2,701.95	1/2	3,059.82	1/2	3,416.90
3/4	201.74	3/4	560.09	3/4	918.34	3/4	1,276.29	3/4	1,634.66	3/4	1,993.02	3/4	2,351.38	3/4	2,709.41	3/4	3,067.27	3/4	3,424.31
7	209.20	7	567.56	7	925.80	7	1,283.76	7	1,642.12	7	2,000.49	7	2,358.85	7	2,716.86	7	3,074.73	7	3,431.73
1/4	216.67	1/4	575.02	1/4	933.25	1/4	1,291.23	1/4	1,649.59	1/4	2,007.95	1/4	2,366.32	1/4	2,724.32	1/4	3,082.18	1/4	3,438.91
1/2	224.14	1/2	582.49	1/2	940.70	1/2	1,298.69	1/2	1,657.06	1/2	2,015.42	1/2	2,373.78	1/2	2,731.77	1/2	3,089.64	1/2	3,446.10
3/4	231.60	3/4	589.96	3/4	948.15	3/4	1,306.16	3/4	1,664.52	3/4	2,022.88	3/4	2,381.25	3/4	2,739.23	3/4	3,097.09	3/4	3,453.29
8	239.07	8	597.42	8	955.60	8	1,313.62	8	1,671.99	8	2,030.35	8	2,388.71	8	2,746.69	8	3,104.55	8	3,460.47
1/4	246.53	1/4	604.89	1/4	963.05	1/4	1,321.09	1/4	1,679.45	1/4	2,037.82	1/4	2,396.18	1/4	2,754.14	1/4	3,112.01	1/4	3,467.18
1/2	254.00	1/2	612.35	1/2	970.50	1/2	1,328.56	1/2	1,686.92	1/2	2,045.28	1/2	2,403.65	1/2	2,761.60	1/2	3,119.46	1/2	3,473.89
3/4	261.46	3/4	619.82	3/4	977.95	3/4	1,336.02	3/4	1,694.38	3/4	2,052.75	3/4	2,411.11	3/4	2,769.05	3/4	3,126.92	3/4	3,480.59
9	268.93	9	627.28	9	985.40	9	1,343.49	9	1,701.85	9	2,060.21	9	2,418.58	9	2,776.51	9	3,134.37	9	3,487.30
1/4	276.40	1/4	634.75	1/4	992.86	1/4	1,350.95	1/4	1,709.32	1/4	2,067.68	1/4	2,426.04	1/4	2,783.96	1/4	3,141.83	1/4	3,493.53
1/2	283.86	1/2	642.22	1/2	1,000.31	1/2	1,358.42	1/2	1,716.78	1/2	2,075.15	1/2	2,433.51	1/2	2,791.42	1/2	3,149.28	1/2	3,499.75
3/4	291.33	3/4	649.68	3/4	1,007.76	3/4	1,365.89	3/4	1,724.25	3/4	2,082.61	3/4	2,440.97	3/4	2,798.87	3/4	3,156.74	3/4	3,505.98
10	298.79	10	657.15	10	1,015.21	10	1,373.35	10	1,731.71	10	2,090.08	10	2,448.44	10	2,806.33	10	3,164.19	10	3,512.21
1/4	306.26	1/4	664.61	1/4	1,022.66	1/4	1,380.82	1/4	1,739.18	1/4	2,097.54	1/4	2,455.90	1/4	2,813.79	1/4	3,171.65	1/4	3,517.95
1/2	313.72	1/2	672.08	1/2	1,030.11	1/2	1,388.28	1/2	1,746.65	1/2	2,105.01	1/2	2,463.35	1/2	2,821.24	1/2	3,179.10	1/2	3,523.70
3/4	321.19	3/4	679.54	3/4	1,037.56	3/4	1,395.75	3/4	1,754.11	3/4	2,112.47	3/4	2,470.81	3/4	2,828.70	3/4	3,186.56	3/4	3,529.45
11	328.66	11	687.01	11	1,045.01	11	1,403.21	11	1,761.58	11	2,119.94	11	2,478.27	11	2,836.15	11	3,194.02	11	3,535.19
1/4	336.12	1/4	694.48	1/4	1,052.46	1/4	1,410.68	1/4	1,769.04	1/4	2,127.41	1/4	2,485.72	1/4	2,843.61	1/4	3,201.47	1/4	3,540.46
1/2	343.59	1/2	701.94	1/2	1,059.92	1/2	1,418.15	1/2	1,776.51	1/2	2,134.87	1/2	2,493.18	1/2	2,851.06	1/2	3,208.93	1/2	3,545.72
3/4	351.05	3/4	709.41	3/4	1,067.37	3/4	1,425.61	3/4	1,783.98	3/4	2,142.34	3/4	2,500.64	3/4	2,858.52	3/4	3,216.38	3/4	3,550.99

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 LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	3,556.26	0	3,777.22	0	3,996.82	0	4,216.23	0	4,434.51	0		0		0		0		0	
1/4	3,561.08	1/4	3,781.81	1/4	4,001.40	1/4	4,220.80	1/4	4,438.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,565.90	1/2	3,786.39	1/2	4,005.97	1/2	4,225.37	1/2	4,443.48	1/2		1/2		1/2		1/2		1/2	
3/4	3,570.73	3/4	3,790.97	3/4	4,010.54	3/4	4,229.94	3/4	4,447.96	3/4		3/4		3/4		3/4		3/4	
1	3,575.55	1	3,795.56	1	4,015.11	1	4,234.51	1	4,452.44	1		1		1		1		1	
1/4	3,580.14	1/4	3,800.14	1/4	4,019.68	1/4	4,239.08	1/4	4,456.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,584.72	1/2	3,804.72	1/2	4,024.25	1/2	4,243.65	1/2	4,460.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,589.30	3/4	3,809.31	3/4	4,028.82	3/4	4,248.22	3/4	4,464.30	3/4		3/4		3/4		3/4		3/4	
2	3,593.89	2	3,813.89	2	4,033.39	2	4,252.80	2	4,468.26	2		2		2		2		2	
1/4	3,598.47	1/4	3,818.47	1/4	4,037.96	1/4	4,257.37	1/4	4,471.45	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.05	1/2	3,823.06	1/2	4,042.53	1/2	4,261.94	1/2	4,474.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,607.64	3/4	3,827.64	3/4	4,047.10	3/4	4,266.51	3/4	4,477.83	3/4		3/4		3/4		3/4		3/4	
3	3,612.22	3	3,832.22	3	4,051.68	3	4,271.08	3	4,481.02	3		3		3		3		3	
1/4	3,616.80	1/4	3,836.81	1/4	4,056.25	1/4	4,275.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,621.39	1/2	3,841.39	1/2	4,060.82	1/2	4,280.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,625.97	3/4	3,845.97	3/4	4,065.39	3/4	4,284.79	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,630.55	4	3,850.56	4	4,069.96	4	4,289.36	4		4		4		4		4		4	
1/4	3,635.14	1/4	3,855.13	1/4	4,074.53	1/4	4,293.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,639.72	1/2	3,859.70	1/2	4,079.10	1/2	4,298.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,644.30	3/4	3,864.27	3/4	4,083.67	3/4	4,303.08	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,648.89	5	3,868.84	5	4,088.24	5	4,307.65	5		5		5		5		5		5	
1/4	3,653.47	1/4	3,873.41	1/4	4,092.81	1/4	4,312.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,658.05	1/2	3,877.98	1/2	4,097.38	1/2	4,316.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,662.64	3/4	3,882.55	3/4	4,101.96	3/4	4,321.36	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,667.22	6	3,887.12	6	4,106.53	6	4,325.93	6		6		6		6		6		6	
1/4	3,671.80	1/4	3,891.69	1/4	4,111.10	1/4	4,330.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,676.39	1/2	3,896.27	1/2	4,115.67	1/2	4,334.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,680.97	3/4	3,900.84	3/4	4,120.24	3/4	4,339.51	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,685.55	7	3,905.41	7	4,124.81	7	4,344.03	7		7		7		7		7		7	
1/4	3,690.14	1/4	3,909.98	1/4	4,129.38	1/4	4,348.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,694.72	1/2	3,914.55	1/2	4,133.95	1/2	4,353.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.30	3/4	3,919.12	3/4	4,138.52	3/4	4,357.61	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,703.89	8	3,923.69	8	4,143.09	8	4,362.13	8		8		8		8		8		8	
1/4	3,708.47	1/4	3,928.26	1/4	4,147.66	1/4	4,366.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,713.05	1/2	3,932.83	1/2	4,152.24	1/2	4,371.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.64	3/4	3,937.40	3/4	4,156.81	3/4	4,375.71	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,722.22	9	3,941.97	9	4,161.38	9	4,380.23	9		9		9		9		9		9	
1/4	3,726.80	1/4	3,946.55	1/4	4,165.95	1/4	4,384.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,731.39	1/2	3,951.12	1/2	4,170.52	1/2	4,389.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,735.97	3/4	3,955.69	3/4	4,175.09	3/4	4,393.81	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,740.55	10	3,960.26	10	4,179.66	10	4,398.34	10		10		10		10		10		10	
1/4	3,745.14	1/4	3,964.83	1/4	4,184.23	1/4	4,402.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,749.72	1/2	3,969.40	1/2	4,188.80	1/2	4,407.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754.30	3/4	3,973.97	3/4	4,193.37	3/4	4,411.91	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,758.89	11	3,978.54	11	4,197.94	11	4,416.44	11		11		11		11		11		11	
1/4	3,763.47	1/4	3,983.11	1/4	4,202.52	1/4	4,420.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,768.05	1/2	3,987.68	1/2	4,207.09	1/2	4,425.47	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,772.64	3/4	3,992.25	3/4	4,211.66	3/4	4,429.99	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

ULLAGE (HERMETIC)

	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-0/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

October 18, 2017

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "E2MS 309"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	0	0	0	0	4,868.23	0	4,512.36	0	4,155.45	0	3,797.98	0	3,440.04	0	3,082.09	0	2,724.15	0	2,366.13
1/4		1/4		1/4	4,860.87	1/4	4,504.92	1/4	4,148.02	1/4	3,790.53	1/4	3,432.58	1/4	3,074.63	1/4	2,716.69	1/4	2,358.68
1/2		1/2		1/2	4,853.51	1/2	4,497.48	1/2	4,140.58	1/2	3,783.07	1/2	3,425.12	1/2	3,067.18	1/2	2,709.23	1/2	2,351.22
3/4		3/4		3/4	4,846.14	3/4	4,490.05	3/4	4,133.14	3/4	3,775.61	3/4	3,417.67	3/4	3,059.72	3/4	2,701.77	3/4	2,343.76
1	1	1	1	1	4,838.78	1	4,482.61	1	4,125.71	1	3,768.15	1	3,410.21	1	3,052.26	1	2,694.32	1	2,336.30
1/4		1/4		1/4	4,831.42	1/4	4,475.18	1/4	4,118.27	1/4	3,760.70	1/4	3,402.75	1/4	3,044.81	1/4	2,686.86	1/4	2,328.84
1/2		1/2		1/2	4,824.06	1/2	4,467.74	1/2	4,110.84	1/2	3,753.24	1/2	3,395.29	1/2	3,037.35	1/2	2,679.40	1/2	2,321.38
3/4		3/4		3/4	4,816.70	3/4	4,460.31	3/4	4,103.40	3/4	3,745.78	3/4	3,387.84	3/4	3,029.89	3/4	2,671.95	3/4	2,313.92
2	2	2	2	2	4,809.33	2	4,452.87	2	4,095.97	2	3,738.33	2	3,380.38	2	3,022.43	2	2,664.49	2	2,306.46
1/4		1/4		1/4	4,801.97	1/4	4,445.44	1/4	4,088.53	1/4	3,730.87	1/4	3,372.92	1/4	3,014.98	1/4	2,657.03	1/4	2,299.00
1/2		1/2		1/2	4,794.61	1/2	4,438.00	1/2	4,081.10	1/2	3,723.41	1/2	3,365.47	1/2	3,007.52	1/2	2,649.57	1/2	2,291.54
3/4		3/4		3/4	4,787.25	3/4	4,430.56	3/4	4,073.66	3/4	3,715.95	3/4	3,358.01	3/4	3,000.06	3/4	2,642.12	3/4	2,284.08
3	3	3	3	3	4,779.89	3	4,423.13	3	4,066.23	3	3,708.50	3	3,350.55	3	2,992.61	3	2,634.66	3	2,276.62
1/4		1/4		1/4	4,772.52	1/4	4,415.69	1/4	4,058.79	1/4	3,701.04	1/4	3,343.09	1/4	2,985.15	1/4	2,627.20	1/4	2,269.16
1/2		1/2		1/2	4,765.16	1/2	4,408.26	1/2	4,051.35	1/2	3,693.58	1/2	3,335.64	1/2	2,977.69	1/2	2,619.75	1/2	2,261.70
3/4		3/4		3/4	4,757.73	3/4	4,400.82	3/4	4,043.92	3/4	3,686.13	3/4	3,328.18	3/4	2,970.23	3/4	2,612.29	3/4	2,254.24
4	4	4	4	4	4,750.29	4	4,393.39	4	4,036.48	4	3,678.67	4	3,320.72	4	2,962.78	4	2,604.83	4	2,246.78
1/4		1/4		1/4	4,742.86	1/4	4,385.95	1/4	4,029.05	1/4	3,671.21	1/4	3,313.27	1/4	2,955.32	1/4	2,597.37	1/4	2,239.33
1/2		1/2		1/2	4,735.42	1/2	4,378.52	1/2	4,021.61	1/2	3,663.75	1/2	3,305.81	1/2	2,947.86	1/2	2,589.92	1/2	2,231.87
3/4		3/4		3/4	4,727.98	3/4	4,371.08	3/4	4,014.18	3/4	3,656.30	3/4	3,298.35	3/4	2,940.41	3/4	2,582.46	3/4	2,224.41
5	5	5	5	5	4,720.55	5	4,363.65	5	4,006.74	5	3,648.84	5	3,290.89	5	2,932.95	5	2,575.00	5	2,216.95
1/4		1/4		1/4	4,713.11	1/4	4,356.21	1/4	3,999.31	1/4	3,641.38	1/4	3,283.44	1/4	2,925.49	1/4	2,567.54	1/4	2,209.49
1/2		1/2		1/2	4,705.68	1/2	4,348.77	1/2	3,991.87	1/2	3,633.92	1/2	3,275.98	1/2	2,918.03	1/2	2,560.08	1/2	2,202.03
3/4		3/4		3/4	4,698.24	3/4	4,341.34	3/4	3,984.41	3/4	3,626.47	3/4	3,268.52	3/4	2,910.58	3/4	2,552.62	3/4	2,194.57
6	6	6	6	6	4,690.81	6	4,333.90	6	3,976.96	6	3,619.01	6	3,261.06	6	2,903.12	6	2,545.16	6	2,187.11
1/4		1/4		1/4	4,683.37	1/4	4,326.47	1/4	3,969.50	1/4	3,611.55	1/4	3,253.61	1/4	2,895.66	1/4	2,537.70	1/4	2,179.65
1/2		1/2		1/2	5,017.45	1/2	4,675.94	1/2	4,319.03	1/2	3,962.04	1/2	3,604.10	1/2	3,246.15	1/2	2,888.20	1/2	2,530.24
3/4		3/4		3/4	5,012.26	3/4	4,668.50	3/4	4,311.60	3/4	3,954.58	3/4	3,596.64	3/4	3,238.69	3/4	2,880.75	3/4	2,522.78
7	7	7	7	7	5,007.07	7	4,661.07	7	4,304.16	7	3,947.13	7	3,589.18	7	3,231.24	7	2,873.29	7	2,515.32
1/4		1/4		1/4	5,001.89	1/4	4,653.63	1/4	4,296.73	1/4	3,939.67	1/4	3,581.72	1/4	3,223.78	1/4	2,865.83	1/4	2,507.86
1/2		1/2		1/2	4,996.70	1/2	4,646.19	1/2	4,289.29	1/2	3,932.21	1/2	3,574.27	1/2	3,216.32	1/2	2,858.38	1/2	2,500.40
3/4		3/4		3/4	4,990.27	3/4	4,638.76	3/4	4,281.85	3/4	3,924.76	3/4	3,566.81	3/4	3,208.86	3/4	2,850.92	3/4	2,492.94
8	8	8	8	8	4,983.84	8	4,631.32	8	4,274.42	8	3,917.30	8	3,559.35	8	3,201.41	8	2,843.46	8	2,485.49
1/4		1/4		1/4	4,977.40	1/4	4,623.89	1/4	4,266.98	1/4	3,909.84	1/4	3,551.90	1/4	3,193.95	1/4	2,836.00	1/4	2,478.03
1/2		1/2		1/2	4,970.97	1/2	4,616.45	1/2	4,259.55	1/2	3,902.38	1/2	3,544.44	1/2	3,186.49	1/2	2,828.55	1/2	2,470.57
3/4		3/4		3/4	4,963.68	3/4	4,609.02	3/4	4,252.11	3/4	3,894.93	3/4	3,536.98	3/4	3,179.04	3/4	2,821.09	3/4	2,463.11
9	9	9	9	9	4,956.39	9	4,601.58	9	4,244.68	9	3,887.47	9	3,529.52	9	3,171.58	9	2,813.63	9	2,455.65
1/4		1/4		1/4	4,949.09	1/4	4,594.15	1/4	4,237.24	1/4	3,880.01	1/4	3,522.07	1/4	3,164.12	1/4	2,806.18	1/4	2,448.19
1/2		1/2		1/2	4,941.80	1/2	4,586.71	1/2	4,229.81	1/2	3,872.56	1/2	3,514.61	1/2	3,156.66	1/2	2,798.72	1/2	2,440.73
3/4		3/4		3/4	4,934.45	3/4	4,579.27	3/4	4,222.37	3/4	3,865.10	3/4	3,507.15	3/4	3,149.21	3/4	2,791.26	3/4	2,433.27
10	10	10	10	10	4,927.10	10	4,571.84	10	4,214.94	10	3,857.64	10	3,499.70	10	3,141.75	10	2,783.80	10	2,425.81
1/4		1/4		1/4	4,919.75	1/4	4,564.40	1/4	4,207.50	1/4	3,850.18	1/4	3,492.24	1/4	3,134.29	1/4	2,776.35	1/4	2,418.35
1/2		1/2		1/2	4,912.40	1/2	4,556.97	1/2	4,200.06	1/2	3,842.73	1/2	3,484.78	1/2	3,126.84	1/2	2,768.89	1/2	2,410.89
3/4		3/4		3/4	4,905.04	3/4	4,549.53	3/4	4,192.63	3/4	3,835.27	3/4	3,477.32	3/4	3,119.38	3/4	2,761.43	3/4	2,403.43
11	11	11	11	11	4,897.68	11	4,542.10	11	4,185.19	11	3,827.81	11	3,469.87	11	3,111.92	11	2,753.98	11	2,395.97
1/4		1/4		1/4	4,890.32	1/4	4,534.66	1/4	4,177.76	1/4	3,820.35	1/4	3,462.41	1/4	3,104.46	1/4	2,746.52	1/4	2,388.51
1/2		1/2		1/2	4,882.96	1/2	4,527.23	1/2	4,170.32	1/2	3,812.90	1/2	3,454.95	1/2	3,097.01	1/2	2,739.06	1/2	2,381.05
3/4		3/4		3/4	4,875.60	3/4	4,519.79	3/4	4,162.89	3/4	3,805.44	3/4	3,447.49	3/4	3,089.55	3/4	2,731.60	3/4	2,373.59

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	2,008.08	0	1,650.03	0	1,291.98	0	935.21	0	578.44	0	236.27	0		0		0		0	
1/4	2,000.62	1/4	1,642.57	1/4	1,284.52	1/4	927.81	1/4	570.99	1/4	229.64	1/4		1/4		1/4		1/4	
1/2	1,993.16	1/2	1,635.11	1/2	1,277.06	1/2	920.41	1/2	563.53	1/2	223.01	1/2		1/2		1/2		1/2	
3/4	1,985.71	3/4	1,627.65	3/4	1,269.60	3/4	913.01	3/4	556.08	3/4	216.47	3/4		3/4		3/4		3/4	
1	1,978.25	1	1,620.19	1	1,262.14	1	905.61	1	548.62	1	209.93	1		1		1		1	
1/4	1,970.79	1/4	1,612.74	1/4	1,254.68	1/4	898.21	1/4	541.17	1/4	203.39	1/4		1/4		1/4		1/4	
1/2	1,963.33	1/2	1,605.28	1/2	1,247.22	1/2	890.81	1/2	533.72	1/2	196.85	1/2		1/2		1/2		1/2	
3/4	1,955.87	3/4	1,597.82	3/4	1,239.77	3/4	883.41	3/4	526.26	3/4	190.40	3/4		3/4		3/4		3/4	
2	1,948.41	2	1,590.36	2	1,232.31	2	876.01	2	518.80	2	183.95	2		2		2		2	
1/4	1,940.95	1/4	1,582.90	1/4	1,224.85	1/4	868.60	1/4	511.34	1/4	177.49	1/4		1/4		1/4		1/4	
1/2	1,933.49	1/2	1,575.44	1/2	1,217.39	1/2	861.20	1/2	503.88	1/2	171.04	1/2		1/2		1/2		1/2	
3/4	1,926.03	3/4	1,567.98	3/4	1,209.93	3/4	853.80	3/4	496.46	3/4	164.68	3/4		3/4		3/4		3/4	
3	1,918.57	3	1,560.52	3	1,202.47	3	846.40	3	489.05	3	158.31	3		3		3		3	
1/4	1,911.11	1/4	1,553.06	1/4	1,195.01	1/4	839.00	1/4	481.63	1/4	151.95	1/4		1/4		1/4		1/4	
1/2	1,903.65	1/2	1,545.60	1/2	1,187.55	1/2	831.60	1/2	474.22	1/2	145.58	1/2		1/2		1/2		1/2	
3/4	1,896.19	3/4	1,538.14	3/4	1,180.09	3/4	824.20	3/4	466.89	3/4	139.30	3/4		3/4		3/4		3/4	
4	1,888.73	4	1,530.68	4	1,172.63	4	816.80	4	459.56	4	133.03	4		4		4		4	
1/4	1,881.27	1/4	1,523.22	1/4	1,165.17	1/4	809.40	1/4	452.23	1/4	126.75	1/4		1/4		1/4		1/4	
1/2	1,873.81	1/2	1,515.76	1/2	1,157.71	1/2	802.00	1/2	444.91	1/2	120.47	1/2		1/2		1/2		1/2	
3/4	1,866.36	3/4	1,508.30	3/4	1,150.25	3/4	794.59	3/4	437.67	3/4	114.28	3/4		3/4		3/4		3/4	
5	1,858.90	5	1,500.84	5	1,142.79	5	787.18	5	430.43	5	108.09	5		5		5		5	
1/4	1,851.44	1/4	1,493.39	1/4	1,135.33	1/4	779.77	1/4	423.18	1/4	101.90	1/4		1/4		1/4		1/4	
1/2	1,843.98	1/2	1,485.93	1/2	1,127.87	1/2	772.37	1/2	415.94	1/2	95.71	1/2		1/2		1/2		1/2	
3/4	1,836.52	3/4	1,478.47	3/4	1,120.45	3/4	764.91	3/4	408.79	3/4	89.62	3/4		3/4		3/4		3/4	
6	1,829.06	6	1,471.01	6	1,113.02	6	757.45	6	401.64	6	83.53	6		6		6		6	
1/4	1,821.60	1/4	1,463.55	1/4	1,105.59	1/4	749.99	1/4	394.49	1/4	77.44	1/4		1/4		1/4		1/4	
1/2	1,814.14	1/2	1,456.09	1/2	1,098.16	1/2	742.53	1/2	387.33	1/2	71.35	1/2		1/2		1/2		1/2	
3/4	1,806.68	3/4	1,448.63	3/4	1,090.73	3/4	735.07	3/4	380.27	3/4	65.37	3/4		3/4		3/4		3/4	
7	1,799.22	7	1,441.17	7	1,083.31	7	727.61	7	373.20	7	59.39	7		7		7		7	
1/4	1,791.76	1/4	1,433.71	1/4	1,075.88	1/4	720.15	1/4	366.14	1/4	53.41	1/4		1/4		1/4		1/4	
1/2	1,784.30	1/2	1,426.25	1/2	1,068.45	1/2	712.69	1/2	359.07	1/2	47.43	1/2		1/2		1/2		1/2	
3/4	1,776.84	3/4	1,418.79	3/4	1,061.04	3/4	705.23	3/4	352.09	3/4	42.44	3/4		3/4		3/4		3/4	
8	1,769.38	8	1,411.33	8	1,053.63	8	697.77	8	345.11	8	37.44	8		8		8		8	
1/4	1,761.92	1/4	1,403.87	1/4	1,046.22	1/4	690.32	1/4	338.14	1/4	32.45	1/4		1/4		1/4		1/4	
1/2	1,754.46	1/2	1,396.41	1/2	1,038.81	1/2	682.86	1/2	331.16	1/2	27.45	1/2		1/2		1/2		1/2	
3/4	1,747.00	3/4	1,388.95	3/4	1,031.41	3/4	675.40	3/4	324.27	3/4	24.41	3/4		3/4		3/4		3/4	
9	1,739.55	9	1,381.49	9	1,024.01	9	667.94	9	317.38	9	21.37	9		9		9		9	
1/4	1,732.09	1/4	1,374.03	1/4	1,016.61	1/4	660.48	1/4	310.49	1/4	18.33	1/4		1/4		1/4		1/4	
1/2	1,724.63	1/2	1,366.58	1/2	1,009.21	1/2	653.02	1/2	303.60	1/2	15.28	1/2		1/2		1/2		1/2	
3/4	1,717.17	3/4	1,359.12	3/4	1,001.81	3/4	645.56	3/4	296.79	3/4		3/4		3/4		3/4		3/4	
10	1,709.71	10	1,351.66	10	994.41	10	638.10	10	289.99	10		10		10		10		10	
1/4	1,702.25	1/4	1,344.20	1/4	987.01	1/4	630.64	1/4	283.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,694.79	1/2	1,336.74	1/2	979.61	1/2	623.18	1/2	276.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,687.33	3/4	1,329.28	3/4	972.21	3/4	615.72	3/4	269.67	3/4		3/4		3/4		3/4		3/4	
11	1,679.87	11	1,321.82	11	964.81	11	608.27	11	262.96	11		11		11		11		11	
1/4	1,672.41	1/4	1,314.36	1/4	957.41	1/4	600.81	1/4	256.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,664.95	1/2	1,306.90	1/2	950.01	1/2	593.35	1/2	249.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,657.49	3/4	1,299.44	3/4	942.61	3/4	585.89	3/4	242.90	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "E2MS 309"

# 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,862.28	0	4,506.38	0	4,149.53	0	3,792.09	0	3,434.19	0	3,076.29	0	2,718.39	0	2,360.43
1/4		1/4		1/4	4,854.92	1/4	4,498.95	1/4	4,142.09	1/4	3,784.63	1/4	3,426.73	1/4	3,068.83	1/4	2,710.94	1/4	2,352.97
1/2		1/2		1/2	4,847.56	1/2	4,491.51	1/2	4,134.66	1/2	3,777.17	1/2	3,419.28	1/2	3,061.38	1/2	2,703.48	1/2	2,345.51
3/4		3/4		3/4	4,840.20	3/4	4,484.08	3/4	4,127.22	3/4	3,769.72	3/4	3,411.82	3/4	3,053.92	3/4	2,696.02	3/4	2,338.05
1	1	1	1	1	4,832.84	1	4,476.65	1	4,119.79	1	3,762.26	1	3,404.36	1	3,046.47	1	2,688.57	1	2,330.59
1/4		1/4		1/4	4,825.48	1/4	4,469.21	1/4	4,112.36	1/4	3,754.80	1/4	3,396.91	1/4	3,039.01	1/4	2,681.11	1/4	2,323.14
1/2		1/2		1/2	4,818.12	1/2	4,461.78	1/2	4,104.92	1/2	3,747.35	1/2	3,389.45	1/2	3,031.55	1/2	2,673.66	1/2	2,315.68
3/4		3/4		3/4	4,810.76	3/4	4,454.34	3/4	4,097.49	3/4	3,739.89	3/4	3,381.99	3/4	3,024.10	3/4	2,666.20	3/4	2,308.22
2	2	2	2	2	4,803.40	2	4,446.91	2	4,090.05	2	3,732.44	2	3,374.54	2	3,016.64	2	2,658.74	2	2,300.76
1/4		1/4		1/4	4,796.03	1/4	4,439.47	1/4	4,082.62	1/4	3,724.98	1/4	3,367.08	1/4	3,009.18	1/4	2,651.29	1/4	2,293.30
1/2		1/2		1/2	4,788.67	1/2	4,432.04	1/2	4,075.18	1/2	3,717.52	1/2	3,359.63	1/2	3,001.73	1/2	2,643.83	1/2	2,285.84
3/4		3/4		3/4	4,781.31	3/4	4,424.60	3/4	4,067.75	3/4	3,710.07	3/4	3,352.17	3/4	2,994.27	3/4	2,636.37	3/4	2,278.38
3	3	3	3	3	4,773.95	3	4,417.17	3	4,060.31	3	3,702.61	3	3,344.71	3	2,986.82	3	2,628.92	3	2,270.93
1/4		1/4		1/4	4,766.59	1/4	4,409.74	1/4	4,052.88	1/4	3,695.16	1/4	3,337.26	1/4	2,979.36	1/4	2,621.46	1/4	2,263.47
1/2		1/2		1/2	4,759.16	1/2	4,402.30	1/2	4,045.44	1/2	3,687.70	1/2	3,329.80	1/2	2,971.90	1/2	2,614.01	1/2	2,256.01
3/4		3/4		3/4	4,751.72	3/4	4,394.87	3/4	4,038.01	3/4	3,680.24	3/4	3,322.35	3/4	2,964.45	3/4	2,606.55	3/4	2,248.55
4	4	4	4	4	4,744.29	4	4,387.43	4	4,030.58	4	3,672.79	4	3,314.89	4	2,956.99	4	2,599.09	4	2,241.09
1/4		1/4		1/4	4,736.85	1/4	4,380.00	1/4	4,023.14	1/4	3,665.33	1/4	3,307.43	1/4	2,949.54	1/4	2,591.64	1/4	2,233.63
1/2		1/2		1/2	4,729.42	1/2	4,372.56	1/2	4,015.71	1/2	3,657.87	1/2	3,299.98	1/2	2,942.08	1/2	2,584.18	1/2	2,226.18
3/4		3/4		3/4	4,721.98	3/4	4,365.13	3/4	4,008.27	3/4	3,650.42	3/4	3,292.52	3/4	2,934.62	3/4	2,576.72	3/4	2,218.72
5	5	5	5	5	4,714.55	5	4,357.69	5	4,000.84	5	3,642.96	5	3,285.06	5	2,927.17	5	2,569.26	5	2,211.26
1/4		1/4		1/4	4,707.12	1/4	4,350.26	1/4	3,993.40	1/4	3,635.51	1/4	3,277.61	1/4	2,919.71	1/4	2,561.80	1/4	2,203.80
1/2		1/2		1/2	4,699.68	1/2	4,342.82	1/2	3,985.95	1/2	3,628.05	1/2	3,270.15	1/2	2,912.25	1/2	2,554.35	1/2	2,196.34
3/4		3/4		3/4	4,692.25	3/4	4,335.39	3/4	3,978.49	3/4	3,620.59	3/4	3,262.70	3/4	2,904.80	3/4	2,546.89	3/4	2,188.88
6	6	6	6	6	4,684.81	6	4,327.96	6	3,971.03	6	3,613.14	6	3,255.24	6	2,897.34	6	2,539.43	6	2,181.43
1/4		1/4	5,018.84	1/4	4,677.38	1/4	4,320.52	1/4	3,963.58	1/4	3,605.68	1/4	3,247.78	1/4	2,889.89	1/4	2,531.97	1/4	2,173.97
1/2		1/2	5,013.65	1/2	4,669.94	1/2	4,313.09	1/2	3,956.12	1/2	3,598.22	1/2	3,240.33	1/2	2,882.43	1/2	2,524.51	1/2	2,166.51
3/4		3/4	5,008.47	3/4	4,662.51	3/4	4,305.65	3/4	3,948.67	3/4	3,590.77	3/4	3,232.87	3/4	2,874.97	3/4	2,517.05	3/4	2,159.05
7	7	7	7	7	4,655.07	7	4,298.22	7	3,941.21	7	3,583.31	7	3,225.41	7	2,867.52	7	2,509.60	7	2,151.59
1/4		1/4	4,998.09	1/4	4,647.64	1/4	4,290.78	1/4	3,933.75	1/4	3,575.86	1/4	3,217.96	1/4	2,860.06	1/4	2,502.14	1/4	2,144.13
1/2		1/2	4,991.66	1/2	4,640.20	1/2	4,283.35	1/2	3,926.30	1/2	3,568.40	1/2	3,210.50	1/2	2,852.60	1/2	2,494.68	1/2	2,136.68
3/4		3/4	4,985.23	3/4	4,632.77	3/4	4,275.91	3/4	3,918.84	3/4	3,560.94	3/4	3,203.05	3/4	2,845.15	3/4	2,487.22	3/4	2,129.22
8	8	8	8	8	4,625.34	8	4,268.48	8	3,911.38	8	3,553.49	8	3,195.59	8	2,837.69	8	2,479.76	8	2,121.76
1/4		1/4	4,972.37	1/4	4,617.90	1/4	4,261.05	1/4	3,903.93	1/4	3,546.03	1/4	3,188.13	1/4	2,830.24	1/4	2,472.30	1/4	2,114.30
1/2		1/2	4,965.08	1/2	4,610.47	1/2	4,253.61	1/2	3,896.47	1/2	3,538.57	1/2	3,180.68	1/2	2,822.78	1/2	2,464.84	1/2	2,106.84
3/4		3/4	4,957.79	3/4	4,603.03	3/4	4,246.18	3/4	3,889.02	3/4	3,531.12	3/4	3,173.22	3/4	2,815.32	3/4	2,457.39	3/4	2,099.38
9	9	9	9	9	4,595.49	9	4,595.60	9	4,238.74	9	3,881.56	9	3,165.76	9	2,807.87	9	2,449.93	9	2,091.92
1/4		1/4	4,943.20	1/4	4,588.16	1/4	4,231.31	1/4	3,874.10	1/4	3,516.21	1/4	3,158.31	1/4	2,800.41	1/4	2,442.47	1/4	2,084.47
1/2		1/2	4,935.85	1/2	4,580.73	1/2	4,223.87	1/2	3,866.65	1/2	3,508.75	1/2	3,150.85	1/2	2,792.95	1/2	2,435.01	1/2	2,077.01
3/4		3/4	4,928.50	3/4	4,573.29	3/4	4,216.44	3/4	3,859.19	3/4	3,501.29	3/4	3,143.40	3/4	2,785.50	3/4	2,427.55	3/4	2,069.55
10	10	10	10	10	4,921.16	10	4,565.86	10	4,209.00	10	3,851.74	10	3,135.94	10	2,778.04	10	2,420.09	10	2,062.09
1/4		1/4	4,913.81	1/4	4,558.43	1/4	4,201.57	1/4	3,844.28	1/4	3,486.38	1/4	3,128.48	1/4	2,770.59	1/4	2,412.64	1/4	2,054.63
1/2		1/2	4,906.45	1/2	4,550.99	1/2	4,194.13	1/2	3,836.82	1/2	3,478.93	1/2	3,121.03	1/2	2,763.13	1/2	2,405.18	1/2	2,047.17
3/4		3/4	4,899.09	3/4	4,543.56	3/4	4,186.70	3/4	3,829.37	3/4	3,471.47	3/4	3,113.57	3/4	2,755.67	3/4	2,397.72	3/4	2,039.72
11	11	11	11	11	4,891.73	11	4,536.12	11	4,179.27	11	3,821.91	11	3,464.01	11	3,106.12	11	2,748.22	11	2,390.26
1/4		1/4	4,884.37	1/4	4,528.69	1/4	4,171.83	1/4	3,814.45	1/4	3,456.56	1/4	3,098.66	1/4	2,740.76	1/4	2,382.80	1/4	2,024.80
1/2		1/2	4,877.01	1/2	4,521.25	1/2	4,164.40	1/2	3,807.00	1/2	3,449.10	1/2	3,091.20	1/2	2,733.31	1/2	2,375.34	1/2	2,017.34
3/4		3/4	4,869.65	3/4	4,513.82	3/4	4,156.96	3/4	3,799.54	3/4	3,441.64	3/4	3,083.75	3/4	2,725.85	3/4	2,367.89	3/4	2,009.88

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

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



# BARGE "E2MS 309"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 15'-09 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	2,002.42	0	1,644.42	0	1,286.42	0	928.68	0	570.91	0	229.59	0		0		0		0	
1/4	1,994.97	1/4	1,636.96	1/4	1,278.96	1/4	921.23	1/4	563.46	1/4	222.96	1/4		1/4		1/4		1/4	
1/2	1,987.51	1/2	1,629.50	1/2	1,271.50	1/2	913.79	1/2	556.00	1/2	216.43	1/2		1/2		1/2		1/2	
3/4	1,980.05	3/4	1,622.05	3/4	1,264.04	3/4	906.34	3/4	548.54	3/4	209.89	3/4		3/4		3/4		3/4	
1	1,972.59	1	1,614.59	1	1,256.58	1	898.90	1	541.08	1	203.35	1		1		1		1	
1/4	1,965.13	1/4	1,607.13	1/4	1,249.13	1/4	891.45	1/4	533.62	1/4	196.81	1/4		1/4		1/4		1/4	
1/2	1,957.67	1/2	1,599.67	1/2	1,241.67	1/2	884.01	1/2	526.16	1/2	190.36	1/2		1/2		1/2		1/2	
3/4	1,950.22	3/4	1,592.21	3/4	1,234.21	3/4	876.57	3/4	518.70	3/4	183.91	3/4		3/4		3/4		3/4	
2	1,942.76	2	1,584.75	2	1,226.75	2	869.12	2	511.25	2	177.45	2		2		2		2	
1/4	1,935.30	1/4	1,577.30	1/4	1,219.29	1/4	861.68	1/4	503.79	1/4	171.00	1/4		1/4		1/4		1/4	
1/2	1,927.84	1/2	1,569.84	1/2	1,211.83	1/2	854.23	1/2	496.37	1/2	164.64	1/2		1/2		1/2		1/2	
3/4	1,920.38	3/4	1,562.38	3/4	1,204.38	3/4	846.79	3/4	488.96	3/4	158.27	3/4		3/4		3/4		3/4	
3	1,912.92	3	1,554.92	3	1,196.92	3	839.34	3	481.54	3	151.91	3		3		3		3	
1/4	1,905.46	1/4	1,547.46	1/4	1,189.46	1/4	831.90	1/4	474.13	1/4	145.55	1/4		1/4		1/4		1/4	
1/2	1,898.01	1/2	1,540.00	1/2	1,182.00	1/2	824.46	1/2	466.80	1/2	139.27	1/2		1/2		1/2		1/2	
3/4	1,890.55	3/4	1,532.54	3/4	1,174.54	3/4	817.01	3/4	459.48	3/4	132.99	3/4		3/4		3/4		3/4	
4	1,883.09	4	1,525.09	4	1,167.08	4	809.57	4	452.15	4	126.72	4		4		4		4	
1/4	1,875.63	1/4	1,517.63	1/4	1,159.62	1/4	802.12	1/4	444.82	1/4	120.44	1/4		1/4		1/4		1/4	
1/2	1,868.17	1/2	1,510.17	1/2	1,152.17	1/2	794.67	1/2	437.58	1/2	114.25	1/2		1/2		1/2		1/2	
3/4	1,860.71	3/4	1,502.71	3/4	1,144.71	3/4	787.21	3/4	430.34	3/4	108.07	3/4		3/4		3/4		3/4	
5	1,853.26	5	1,495.25	5	1,137.25	5	779.75	5	423.10	5	101.88	5		5		5		5	
1/4	1,845.80	1/4	1,487.79	1/4	1,129.79	1/4	772.29	1/4	415.86	1/4	95.69	1/4		1/4		1/4		1/4	
1/2	1,838.34	1/2	1,480.34	1/2	1,122.33	1/2	764.83	1/2	408.71	1/2	89.60	1/2		1/2		1/2		1/2	
3/4	1,830.88	3/4	1,472.88	3/4	1,114.87	3/4	757.37	3/4	401.56	3/4	83.51	3/4		3/4		3/4		3/4	
6	1,823.42	6	1,465.42	6	1,107.42	6	749.92	6	394.41	6	77.42	6		6		6		6	
1/4	1,815.96	1/4	1,457.96	1/4	1,099.96	1/4	742.46	1/4	387.26	1/4	71.33	1/4		1/4		1/4		1/4	
1/2	1,808.51	1/2	1,450.50	1/2	1,092.51	1/2	735.00	1/2	380.19	1/2	65.35	1/2		1/2		1/2		1/2	
3/4	1,801.05	3/4	1,443.04	3/4	1,085.05	3/4	727.54	3/4	373.13	3/4	59.37	3/4		3/4		3/4		3/4	
7	1,793.59	7	1,435.59	7	1,077.60	7	720.08	7	366.06	7	53.40	7		7		7		7	
1/4	1,786.13	1/4	1,428.13	1/4	1,070.15	1/4	712.62	1/4	359.00	1/4	47.42	1/4		1/4		1/4		1/4	
1/2	1,778.67	1/2	1,420.67	1/2	1,062.70	1/2	705.16	1/2	352.02	1/2	42.43	1/2		1/2		1/2		1/2	
3/4	1,771.21	3/4	1,413.21	3/4	1,055.24	3/4	697.71	3/4	345.05	3/4	37.43	3/4		3/4		3/4		3/4	
8	1,763.76	8	1,405.75	8	1,047.79	8	690.25	8	338.07	8	32.44	8		8		8		8	
1/4	1,756.30	1/4	1,398.29	1/4	1,040.34	1/4	682.79	1/4	331.09	1/4	27.45	1/4		1/4		1/4		1/4	
1/2	1,748.84	1/2	1,390.84	1/2	1,032.89	1/2	675.33	1/2	324.20	1/2	24.41	1/2		1/2		1/2		1/2	
3/4	1,741.38	3/4	1,383.38	3/4	1,025.45	3/4	667.87	3/4	317.31	3/4	21.37	3/4		3/4		3/4		3/4	
9	1,733.92	9	1,375.92	9	1,018.01	9	660.41	9	310.42	9	18.32	9		9		9		9	
1/4	1,726.46	1/4	1,368.46	1/4	1,010.56	1/4	652.96	1/4	303.53	1/4	15.28	1/4		1/4		1/4		1/4	
1/2	1,719.00	1/2	1,361.00	1/2	1,003.12	1/2	645.50	1/2	296.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,711.55	3/4	1,353.54	3/4	995.67	3/4	638.04	3/4	289.93	3/4		3/4		3/4		3/4		3/4	
10	1,704.09	10	1,346.08	10	988.23	10	630.58	10	283.13	10		10		10		10		10	
1/4	1,696.63	1/4	1,338.63	1/4	980.78	1/4	623.12	1/4	276.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.17	1/2	1,331.17	1/2	973.34	1/2	615.66	1/2	269.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,681.71	3/4	1,323.71	3/4	965.90	3/4	608.21	3/4	262.90	3/4		3/4		3/4		3/4		3/4	
11	1,674.25	11	1,316.25	11	958.45	11	600.75	11	256.19	11		11		11		11		11	
1/4	1,666.80	1/4	1,308.79	1/4	951.01	1/4	593.29	1/4	249.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,659.34	1/2	1,301.33	1/2	943.56	1/2	585.83	1/2	242.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,651.88	3/4	1,293.88	3/4	936.12	3/4	578.37	3/4	236.22	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "E2MS 309"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	0	0	0	0	4,935.02	0	4,577.87	0	4,219.80	0	3,861.16	0	3,502.04	0	3,142.93	0	2,783.81	0	2,424.69		
1/4	1/4	1/4	1/4	1/4	4,927.63	1/4	4,570.41	1/4	4,212.34	1/4	3,853.68	1/4	3,494.56	1/4	3,135.45	1/4	2,776.33	1/4	2,417.21		
1/2	1/2	1/2	1/2	1/2	4,920.23	1/2	4,562.95	1/2	4,204.88	1/2	3,846.20	1/2	3,487.08	1/2	3,127.96	1/2	2,768.85	1/2	2,409.73		
3/4	3/4	3/4	3/4	3/4	4,912.84	3/4	4,555.49	3/4	4,197.42	3/4	3,838.72	3/4	3,479.60	3/4	3,120.48	3/4	2,761.37	3/4	2,402.25		
1	1	1	1	1	4,905.44	1	4,548.03	1	4,189.96	1	3,831.24	1	3,472.12	1	3,113.00	1	2,753.88	1	2,394.77		
1/4	1/4	1/4	1/4	1/4	4,898.05	1/4	4,540.57	1/4	4,182.50	1/4	3,823.75	1/4	3,464.64	1/4	3,105.52	1/4	2,746.40	1/4	2,387.29		
1/2	1/2	1/2	1/2	1/2	4,890.65	1/2	4,533.11	1/2	4,175.04	1/2	3,816.27	1/2	3,457.16	1/2	3,098.04	1/2	2,738.92	1/2	2,379.80		
3/4	3/4	3/4	3/4	3/4	4,883.26	3/4	4,525.65	3/4	4,167.58	3/4	3,808.79	3/4	3,449.67	3/4	3,090.56	3/4	2,731.44	3/4	2,372.32		
2	2	2	2	2	4,875.87	2	4,518.19	2	4,160.12	2	3,801.31	2	3,442.19	2	3,083.08	2	2,723.96	2	2,364.84		
1/4	1/4	1/4	1/4	1/4	4,868.47	1/4	4,510.73	1/4	4,152.66	1/4	3,793.83	1/4	3,434.71	1/4	3,075.59	1/4	2,716.48	1/4	2,357.36		
1/2	1/2	1/2	1/2	1/2	4,861.08	1/2	4,503.27	1/2	4,145.20	1/2	3,786.35	1/2	3,427.23	1/2	3,068.11	1/2	2,709.00	1/2	2,349.88		
3/4	3/4	3/4	3/4	3/4	4,853.68	3/4	4,495.81	3/4	4,137.74	3/4	3,778.86	3/4	3,419.75	3/4	3,060.63	3/4	2,701.51	3/4	2,342.40		
3	3	3	3	3	4,846.29	3	4,488.35	3	4,130.28	3	3,771.38	3	3,412.27	3	3,053.15	3	2,694.03	3	2,334.92		
1/4	1/4	1/4	1/4	1/4	4,838.90	1/4	4,480.89	1/4	4,122.82	1/4	3,763.90	1/4	3,404.78	1/4	3,045.67	1/4	2,686.55	1/4	2,327.43		
1/2	1/2	1/2	1/2	1/2	4,831.50	1/2	4,473.43	1/2	4,115.36	1/2	3,756.42	1/2	3,397.30	1/2	3,038.19	1/2	2,679.07	1/2	2,319.95		
3/4	3/4	3/4	3/4	3/4	4,824.04	3/4	4,465.97	3/4	4,107.90	3/4	3,748.94	3/4	3,389.82	3/4	3,030.70	3/4	2,671.59	3/4	2,312.47		
4	4	4	4	4	4,816.58	4	4,458.51	4	4,100.44	4	3,741.46	4	3,382.34	4	3,023.22	4	2,664.11	4	2,304.99		
1/4	1/4	1/4	1/4	1/4	4,809.12	1/4	4,451.05	1/4	4,092.98	1/4	3,733.97	1/4	3,374.86	1/4	3,015.74	1/4	2,656.62	1/4	2,297.51		
1/2	1/2	1/2	1/2	1/2	4,801.66	1/2	4,443.59	1/2	4,085.52	1/2	3,726.49	1/2	3,367.38	1/2	3,008.26	1/2	2,649.14	1/2	2,290.03		
3/4	3/4	3/4	3/4	3/4	4,794.20	3/4	4,436.13	3/4	4,078.06	3/4	3,719.01	3/4	3,359.89	3/4	3,000.78	3/4	2,641.66	3/4	2,282.54		
5	5	5	5	5	4,786.74	5	4,428.67	5	4,070.60	5	3,711.53	5	3,352.41	5	2,993.30	5	2,634.18	5	2,275.06		
1/4	1/4	1/4	1/4	1/4	4,779.28	1/4	4,421.21	1/4	4,063.14	1/4	3,704.05	1/4	3,344.93	1/4	2,985.81	1/4	2,626.70	1/4	2,267.58		
1/2	1/2	1/2	1/2	1/2	4,771.82	1/2	4,413.75	1/2	4,055.68	1/2	3,696.57	1/2	3,337.45	1/2	2,978.33	1/2	2,619.22	1/2	2,260.10		
3/4	3/4	3/4	3/4	3/4	4,764.36	3/4	4,406.29	3/4	4,048.20	3/4	3,689.08	3/4	3,329.97	3/4	2,970.85	3/4	2,611.73	3/4	2,252.62		
6	6	6	6	6	4,756.90	6	4,398.83	6	4,040.72	6	3,681.60	6	3,322.49	6	2,963.37	6	2,604.25	6	2,245.14		
1/4	1/4	1/4	1/4	1/4	4,749.44	1/4	4,391.37	1/4	4,033.24	1/4	3,674.12	1/4	3,315.00	1/4	2,955.89	1/4	2,596.77	1/4	2,237.65		
1/2	1/2	1/2	1/2	1/2	5,084.85	1/2	4,741.98	1/2	4,383.91	1/2	4,025.76	1/2	3,666.64	1/2	3,307.52	1/2	2,948.41	1/2	2,589.29	1/2	2,230.17
3/4	3/4	3/4	3/4	3/4	5,079.64	3/4	4,734.52	3/4	4,376.45	3/4	4,018.28	3/4	3,659.16	3/4	3,300.04	3/4	2,940.92	3/4	2,581.81	3/4	2,222.69
7	7	7	7	7	5,074.43	7	4,727.07	7	4,368.99	7	4,010.79	7	3,651.68	7	3,292.56	7	2,933.44	7	2,574.33	7	2,215.21
1/4	1/4	1/4	1/4	1/4	5,069.22	1/4	4,719.61	1/4	4,361.53	1/4	4,003.31	1/4	3,644.20	1/4	3,285.08	1/4	2,925.96	1/4	2,566.84	1/4	2,207.73
1/2	1/2	1/2	1/2	1/2	5,064.01	1/2	4,712.15	1/2	4,354.08	1/2	3,995.83	1/2	3,636.71	1/2	3,277.60	1/2	2,918.48	1/2	2,559.36	1/2	2,200.25
3/4	3/4	3/4	3/4	3/4	5,057.55	3/4	4,704.69	3/4	4,346.62	3/4	3,988.35	3/4	3,629.23	3/4	3,270.12	3/4	2,911.00	3/4	2,551.88	3/4	2,192.76
8	8	8	8	8	5,051.09	8	4,697.23	8	4,339.16	8	3,980.87	8	3,621.75	8	3,262.63	8	2,903.52	8	2,544.40	8	2,185.28
1/4	1/4	1/4	1/4	1/4	5,044.63	1/4	4,689.77	1/4	4,331.70	1/4	3,973.39	1/4	3,614.27	1/4	3,255.15	1/4	2,896.04	1/4	2,536.92	1/4	2,177.80
1/2	1/2	1/2	1/2	1/2	5,038.17	1/2	4,682.31	1/2	4,324.24	1/2	3,965.90	1/2	3,606.79	1/2	3,247.67	1/2	2,888.55	1/2	2,529.44	1/2	2,170.32
3/4	3/4	3/4	3/4	3/4	5,030.85	3/4	4,674.85	3/4	4,316.78	3/4	3,958.42	3/4	3,599.31	3/4	3,240.19	3/4	2,881.07	3/4	2,521.96	3/4	2,162.84
9	9	9	9	9	5,023.53	9	4,667.39	9	4,309.32	9	3,950.94	9	3,591.82	9	3,232.71	9	2,873.59	9	2,514.47	9	2,155.36
1/4	1/4	1/4	1/4	1/4	5,016.21	1/4	4,659.93	1/4	4,301.86	1/4	3,943.46	1/4	3,584.34	1/4	3,225.23	1/4	2,866.11	1/4	2,506.99	1/4	2,147.88
1/2	1/2	1/2	1/2	1/2	5,008.88	1/2	4,652.47	1/2	4,294.40	1/2	3,935.98	1/2	3,576.86	1/2	3,217.74	1/2	2,858.63	1/2	2,499.51	1/2	2,140.39
3/4	3/4	3/4	3/4	3/4	5,001.50	3/4	4,645.01	3/4	4,286.94	3/4	3,928.50	3/4	3,569.38	3/4	3,210.26	3/4	2,851.15	3/4	2,492.03	3/4	2,132.91
10	10	10	10	10	4,994.13	10	4,637.55	10	4,279.48	10	3,921.01	10	3,561.90	10	3,202.78	10	2,843.66	10	2,484.55	10	2,125.43
1/4	1/4	1/4	1/4	1/4	4,986.75	1/4	4,630.09	1/4	4,272.02	1/4	3,913.53	1/4	3,554.42	1/4	3,195.30	1/4	2,836.18	1/4	2,477.07	1/4	2,117.95
1/2	1/2	1/2	1/2	1/2	4,979.37	1/2	4,622.63	1/2	4,264.56	1/2	3,906.05	1/2	3,546.93	1/2	3,187.82	1/2	2,828.70	1/2	2,469.58	1/2	2,110.47
3/4	3/4	3/4	3/4	3/4	4,971.98	3/4	4,615.17	3/4	4,257.10	3/4	3,898.57	3/4	3,539.45	3/4	3,180.34	3/4	2,821.22	3/4	2,462.10	3/4	2,102.99
11	11	11	11	11	4,964.59	11	4,607.71	11	4,249.64	11	3,891.09	11	3,531.97	11	3,172.85	11	2,813.74	11	2,454.62	11	2,095.50
1/4	1/4	1/4	1/4	1/4	4,957.20	1/4	4,600.25	1/4	4,242.18	1/4	3,883.61	1/4	3,524.49	1/4	3,165.37	1/4	2,806.26	1/4	2,447.14	1/4	2,088.02
1/2	1/2	1/2	1/2	1/2	4,949.81	1/2	4,592.79	1/2	4,234.72	1/2	3,876.12	1/2	3,517.01	1/2	3,157.89	1/2	2,798.77	1/2	2,439.66	1/2	2,080.54
3/4	3/4	3/4	3/4	3/4	4,942.41	3/4	4,585.33	3/4	4,227.26	3/4	3,868.64	3/4	3,509.53	3/4	3,150.41	3/4	2,791.29	3/4	2,432.18	3/4	2,073.06

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	2,065.58	0	1,706.46	0	1,347.34	0	996.04	0	643.58	0	284.47	0		0		0		0	
1/4	2,058.10	1/4	1,698.98	1/4	1,339.86	1/4	988.87	1/4	636.10	1/4	276.98	1/4		1/4		1/4		1/4	
1/2	2,050.61	1/2	1,691.50	1/2	1,332.38	1/2	981.69	1/2	628.62	1/2	269.50	1/2		1/2		1/2		1/2	
3/4	2,043.13	3/4	1,684.02	3/4	1,324.90	3/4	974.52	3/4	621.14	3/4	262.02	3/4		3/4		3/4		3/4	
1	2,035.65	1	1,676.53	1	1,317.42	1	967.35	1	613.66	1	254.54	1		1		1		1	
1/4	2,028.17	1/4	1,669.05	1/4	1,309.94	1/4	960.17	1/4	606.18	1/4	247.06	1/4		1/4		1/4		1/4	
1/2	2,020.69	1/2	1,661.57	1/2	1,302.45	1/2	953.00	1/2	598.69	1/2	239.58	1/2		1/2		1/2		1/2	
3/4	2,013.21	3/4	1,654.09	3/4	1,294.97	3/4	945.82	3/4	591.21	3/4	232.10	3/4		3/4		3/4		3/4	
2	2,005.72	2	1,646.61	2	1,287.49	2	938.65	2	583.73	2	224.61	2		2		2		2	
1/4	1,998.24	1/4	1,639.13	1/4	1,280.01	1/4	931.47	1/4	576.25	1/4	217.13	1/4		1/4		1/4		1/4	
1/2	1,990.76	1/2	1,631.64	1/2	1,272.53	1/2	924.30	1/2	568.77	1/2	209.65	1/2		1/2		1/2		1/2	
3/4	1,983.28	3/4	1,624.16	3/4	1,265.05	3/4	917.12	3/4	561.29	3/4	202.17	3/4		3/4		3/4		3/4	
3	1,975.80	3	1,616.68	3	1,257.56	3	909.95	3	553.80	3	194.69	3		3		3		3	
1/4	1,968.32	1/4	1,609.20	1/4	1,250.08	1/4	902.77	1/4	546.32	1/4	187.21	1/4		1/4		1/4		1/4	
1/2	1,960.84	1/2	1,601.72	1/2	1,242.60	1/2	895.60	1/2	538.84	1/2	179.72	1/2		1/2		1/2		1/2	
3/4	1,953.35	3/4	1,594.24	3/4	1,235.12	3/4	888.42	3/4	531.36	3/4	172.24	3/4		3/4		3/4		3/4	
4	1,945.87	4	1,586.76	4	1,227.64	4	881.25	4	523.88	4	164.76	4		4		4		4	
1/4	1,938.39	1/4	1,579.27	1/4	1,220.16	1/4	874.08	1/4	516.40	1/4	157.28	1/4		1/4		1/4		1/4	
1/2	1,930.91	1/2	1,571.79	1/2	1,212.68	1/2	866.90	1/2	508.91	1/2	149.80	1/2		1/2		1/2		1/2	
3/4	1,923.43	3/4	1,564.31	3/4	1,205.19	3/4	859.70	3/4	501.43	3/4	142.32	3/4		3/4		3/4		3/4	
5	1,915.95	5	1,556.83	5	1,197.71	5	852.50	5	493.95	5	134.84	5		5		5		5	
1/4	1,908.46	1/4	1,549.35	1/4	1,190.23	1/4	845.30	1/4	486.47	1/4	127.36	1/4		1/4		1/4		1/4	
1/2	1,900.98	1/2	1,541.87	1/2	1,182.75	1/2	838.10	1/2	478.99	1/2	119.88	1/2		1/2		1/2		1/2	
3/4	1,893.50	3/4	1,534.38	3/4	1,175.55	3/4	830.62	3/4	471.51	3/4	112.41	3/4		3/4		3/4		3/4	
6	1,886.02	6	1,526.90	6	1,168.35	6	823.14	6	464.02	6	104.93	6		6		6		6	
1/4	1,878.54	1/4	1,519.42	1/4	1,161.15	1/4	815.66	1/4	456.54	1/4	97.46	1/4		1/4		1/4		1/4	
1/2	1,871.06	1/2	1,511.94	1/2	1,153.95	1/2	808.18	1/2	449.06	1/2	89.99	1/2		1/2		1/2		1/2	
3/4	1,863.57	3/4	1,504.46	3/4	1,146.77	3/4	800.70	3/4	441.58	3/4	82.55	3/4		3/4		3/4		3/4	
7	1,856.09	7	1,496.98	7	1,139.59	7	793.22	7	434.10	7	75.10	7		7		7		7	
1/4	1,848.61	1/4	1,489.49	1/4	1,132.40	1/4	785.73	1/4	426.62	1/4	67.66	1/4		1/4		1/4		1/4	
1/2	1,841.13	1/2	1,482.01	1/2	1,125.22	1/2	778.25	1/2	419.14	1/2	60.21	1/2		1/2		1/2		1/2	
3/4	1,833.65	3/4	1,474.53	3/4	1,118.04	3/4	770.77	3/4	411.65	3/4	53.67	3/4		3/4		3/4		3/4	
8	1,826.17	8	1,467.05	8	1,110.85	8	763.29	8	404.17	8	47.12	8		8		8		8	
1/4	1,818.68	1/4	1,459.57	1/4	1,103.67	1/4	755.81	1/4	396.69	1/4	40.58	1/4		1/4		1/4		1/4	
1/2	1,811.20	1/2	1,452.09	1/2	1,096.49	1/2	748.33	1/2	389.21	1/2	34.03	1/2		1/2		1/2		1/2	
3/4	1,803.72	3/4	1,444.60	3/4	1,089.31	3/4	740.84	3/4	381.73	3/4	29.36	3/4		3/4		3/4		3/4	
9	1,796.24	9	1,437.12	9	1,082.14	9	733.36	9	374.25	9	24.68	9		9		9		9	
1/4	1,788.76	1/4	1,429.64	1/4	1,074.96	1/4	725.88	1/4	366.76	1/4	20.00	1/4		1/4		1/4		1/4	
1/2	1,781.28	1/2	1,422.16	1/2	1,067.79	1/2	718.40	1/2	359.28	1/2	15.33	1/2		1/2		1/2		1/2	
3/4	1,773.80	3/4	1,414.68	3/4	1,060.62	3/4	710.92	3/4	351.80	3/4		3/4		3/4		3/4		3/4	
10	1,766.31	10	1,407.20	10	1,053.44	10	703.44	10	344.32	10		10		10		10		10	
1/4	1,758.83	1/4	1,399.72	1/4	1,046.27	1/4	695.95	1/4	336.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,751.35	1/2	1,392.23	1/2	1,039.09	1/2	688.47	1/2	329.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,743.87	3/4	1,384.75	3/4	1,031.92	3/4	680.99	3/4	321.87	3/4		3/4		3/4		3/4		3/4	
11	1,736.39	11	1,377.27	11	1,024.74	11	673.51	11	314.39	11		11		11		11		11	
1/4	1,728.91	1/4	1,369.79	1/4	1,017.57	1/4	666.03	1/4	306.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,721.42	1/2	1,362.31	1/2	1,010.39	1/2	658.55	1/2	299.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,713.94	3/4	1,354.83	3/4	1,003.22	3/4	651.06	3/4	291.95	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "E2MS 309"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,945.85	0	4,588.47	0	4,230.13	0	3,871.21	0	3,511.83	0	3,152.46	0	2,793.09	0	2,433.65
1/4		1/4		1/4	4,938.46	1/4	4,581.01	1/4	4,222.66	1/4	3,863.72	1/4	3,504.35	1/4	3,144.98	1/4	2,785.61	1/4	2,426.16
1/2		1/2		1/2	4,931.07	1/2	4,573.54	1/2	4,215.20	1/2	3,856.23	1/2	3,496.86	1/2	3,137.49	1/2	2,778.12	1/2	2,418.67
3/4		3/4		3/4	4,923.68	3/4	4,566.08	3/4	4,207.73	3/4	3,848.75	3/4	3,489.37	3/4	3,130.00	3/4	2,770.63	3/4	2,411.18
1	1	1	1	1	4,916.29	1	4,558.61	1	4,200.27	1	3,841.26	1	3,481.89	1	3,122.52	1	2,763.14	1	2,403.69
1/4		1/4		1/4	4,908.90	1/4	4,551.14	1/4	4,192.80	1/4	3,833.77	1/4	3,474.40	1/4	3,115.03	1/4	2,755.66	1/4	2,396.20
1/2		1/2		1/2	4,901.50	1/2	4,543.68	1/2	4,185.33	1/2	3,826.28	1/2	3,466.91	1/2	3,107.54	1/2	2,748.17	1/2	2,388.71
3/4		3/4		3/4	4,894.11	3/4	4,536.21	3/4	4,177.87	3/4	3,818.80	3/4	3,459.43	3/4	3,100.06	3/4	2,740.68	3/4	2,381.23
2	2	2	2	2	4,886.72	2	4,528.75	2	4,170.40	2	3,811.31	2	3,451.94	2	3,092.57	2	2,733.20	2	2,373.74
1/4		1/4		1/4	4,879.33	1/4	4,521.28	1/4	4,162.94	1/4	3,803.82	1/4	3,444.45	1/4	3,085.08	1/4	2,725.71	1/4	2,366.25
1/2		1/2		1/2	4,871.94	1/2	4,513.82	1/2	4,155.47	1/2	3,796.34	1/2	3,436.97	1/2	3,077.59	1/2	2,718.22	1/2	2,358.76
3/4		3/4		3/4	4,864.55	3/4	4,506.35	3/4	4,148.01	3/4	3,788.85	3/4	3,429.48	3/4	3,070.11	3/4	2,710.74	3/4	2,351.27
3	3	3	3	3	4,857.16	3	4,498.89	3	4,140.54	3	3,781.36	3	3,421.99	3	3,062.62	3	2,703.25	3	2,343.78
1/4		1/4		1/4	4,849.76	1/4	4,491.42	1/4	4,133.08	1/4	3,773.88	1/4	3,414.50	1/4	3,055.13	1/4	2,695.76	1/4	2,336.29
1/2		1/2		1/2	4,842.30	1/2	4,483.95	1/2	4,125.61	1/2	3,766.39	1/2	3,407.02	1/2	3,047.65	1/2	2,688.28	1/2	2,328.80
3/4		3/4		3/4	4,834.83	3/4	4,476.49	3/4	4,118.15	3/4	3,758.90	3/4	3,399.53	3/4	3,040.16	3/4	2,680.79	3/4	2,321.31
4	4	4	4	4	4,827.37	4	4,469.02	4	4,110.68	4	3,751.42	4	3,392.04	4	3,032.67	4	2,673.30	4	2,313.82
1/4		1/4		1/4	4,819.90	1/4	4,461.56	1/4	4,103.21	1/4	3,743.93	1/4	3,384.56	1/4	3,025.19	1/4	2,665.81	1/4	2,306.33
1/2		1/2		1/2	4,812.44	1/2	4,454.09	1/2	4,095.75	1/2	3,736.44	1/2	3,377.07	1/2	3,017.70	1/2	2,658.33	1/2	2,298.84
3/4		3/4		3/4	4,804.97	3/4	4,446.63	3/4	4,088.28	3/4	3,728.95	3/4	3,369.58	3/4	3,010.21	3/4	2,650.84	3/4	2,291.35
5	5	5	5	5	4,797.51	5	4,439.16	5	4,080.82	5	3,721.47	5	3,362.10	5	3,002.73	5	2,643.35	5	2,283.87
1/4		1/4		1/4	4,790.04	1/4	4,431.70	1/4	4,073.35	1/4	3,713.98	1/4	3,354.61	1/4	2,995.24	1/4	2,635.86	1/4	2,276.38
1/2		1/2		1/2	4,782.57	1/2	4,424.23	1/2	4,065.87	1/2	3,706.49	1/2	3,347.12	1/2	2,987.75	1/2	2,628.37	1/2	2,268.89
3/4		3/4		3/4	4,775.11	3/4	4,416.77	3/4	4,058.38	3/4	3,699.01	3/4	3,339.64	3/4	2,980.26	3/4	2,620.88	3/4	2,261.40
6	6	6	6	6	4,767.64	6	4,409.30	6	4,050.89	6	3,691.52	6	3,332.15	6	2,972.78	6	2,613.39	6	2,253.91
1/4		1/4	5,103.08	1/4	4,760.18	1/4	4,401.83	1/4	4,043.40	1/4	3,684.03	1/4	3,324.66	1/4	2,965.29	1/4	2,605.90	1/4	2,246.42
1/2		1/2	5,097.87	1/2	4,752.71	1/2	4,394.37	1/2	4,035.92	1/2	3,676.55	1/2	3,317.18	1/2	2,957.80	1/2	2,598.41	1/2	2,238.93
3/4		3/4	5,092.66	3/4	4,745.25	3/4	4,386.90	3/4	4,028.43	3/4	3,669.06	3/4	3,309.69	3/4	2,950.32	3/4	2,590.92	3/4	2,231.44
7	7	7	7	7	4,737.78	7	4,379.44	7	4,020.94	7	3,661.57	7	3,302.20	7	2,942.83	7	2,583.43	7	2,223.95
1/4		1/4	5,087.45	1/4	4,730.32	1/4	4,371.97	1/4	4,013.46	1/4	3,654.09	1/4	3,294.71	1/4	2,935.34	1/4	2,575.94	1/4	2,216.46
1/2		1/2	5,082.24	1/2	4,722.85	1/2	4,364.51	1/2	4,005.97	1/2	3,646.60	1/2	3,287.23	1/2	2,927.86	1/2	2,568.46	1/2	2,208.97
3/4		3/4	5,075.78	3/4	4,715.39	3/4	4,357.04	3/4	3,998.48	3/4	3,639.11	3/4	3,279.74	3/4	2,920.37	3/4	2,560.97	3/4	2,201.48
8	8	8	8	8	5,069.33	8	4,715.39	8	4,357.04	8	3,998.48	8	3,639.11	8	2,920.37	8	2,560.97	8	2,201.48
1/4		1/4	5,062.87	1/4	4,707.92	1/4	4,349.58	1/4	3,991.00	1/4	3,631.62	1/4	3,272.25	1/4	2,912.88	1/4	2,553.48	1/4	2,194.00
1/2		1/2	5,056.41	1/2	4,700.45	1/2	4,342.11	1/2	3,983.51	1/2	3,624.14	1/2	3,264.77	1/2	2,905.40	1/2	2,545.99	1/2	2,186.51
3/4		3/4	5,049.09	3/4	4,692.99	3/4	4,334.64	3/4	3,976.02	3/4	3,616.65	3/4	3,257.28	3/4	2,897.91	3/4	2,538.50	3/4	2,179.02
9	9	9	9	9	5,041.76	9	4,685.52	9	4,327.18	9	3,968.54	9	3,609.16	9	2,890.42	9	2,531.01	9	2,171.53
1/4		1/4	5,034.44	1/4	4,678.06	1/4	4,319.71	1/4	3,961.05	1/4	3,601.68	1/4	3,242.31	1/4	2,882.93	1/4	2,523.52	1/4	2,164.04
1/2		1/2	5,027.12	1/2	4,670.59	1/2	4,312.25	1/2	3,953.56	1/2	3,594.19	1/2	3,234.82	1/2	2,875.45	1/2	2,516.03	1/2	2,156.55
3/4		3/4	5,019.74	3/4	4,663.13	3/4	4,304.78	3/4	3,946.07	3/4	3,586.70	3/4	3,227.33	3/4	2,867.96	3/4	2,508.54	3/4	2,149.06
10	10	10	10	10	5,012.36	10	4,655.66	10	4,297.32	10	3,938.59	10	3,579.22	10	2,860.47	10	2,501.05	10	2,141.57
1/4		1/4	5,004.98	1/4	4,648.20	1/4	4,289.85	1/4	3,931.10	1/4	3,571.73	1/4	3,212.36	1/4	2,852.99	1/4	2,493.56	1/4	2,134.08
1/2		1/2	4,997.60	1/2	4,640.73	1/2	4,282.39	1/2	3,923.61	1/2	3,564.24	1/2	3,204.87	1/2	2,845.50	1/2	2,486.07	1/2	2,126.59
3/4		3/4	4,990.21	3/4	4,633.26	3/4	4,274.92	3/4	3,916.13	3/4	3,556.76	3/4	3,197.38	3/4	2,838.01	3/4	2,478.58	3/4	2,119.10
11	11	11	11	11	4,982.82	11	4,625.80	11	4,267.46	11	3,908.64	11	3,549.27	11	2,830.53	11	2,471.10	11	2,111.61
1/4		1/4	4,975.43	1/4	4,618.33	1/4	4,259.99	1/4	3,901.15	1/4	3,541.78	1/4	3,182.41	1/4	2,823.04	1/4	2,463.61	1/4	2,104.12
1/2		1/2	4,968.04	1/2	4,610.87	1/2	4,252.52	1/2	3,893.67	1/2	3,534.30	1/2	3,174.92	1/2	2,815.55	1/2	2,456.12	1/2	2,096.64
3/4		3/4	4,960.64	3/4	4,603.40	3/4	4,245.06	3/4	3,886.18	3/4	3,526.81	3/4	3,167.44	3/4	2,808.07	3/4	2,448.63	3/4	2,089.15
12	12	12	12	12	4,953.25	12	4,595.94	12	4,237.59	12	3,878.69	12	3,519.32	12	3,159.95	12	2,800.58	12	2,081.66

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	2,074.17	0	1,714.69	0	1,355.20	0	995.98	0	636.75	0	277.27	0		0		0		0	
1/4	2,066.68	1/4	1,707.20	1/4	1,347.72	1/4	988.51	1/4	629.26	1/4	269.78	1/4		1/4		1/4		1/4	
1/2	2,059.19	1/2	1,699.71	1/2	1,340.23	1/2	981.03	1/2	621.77	1/2	262.29	1/2		1/2		1/2		1/2	
3/4	2,051.70	3/4	1,692.22	3/4	1,332.74	3/4	973.56	3/4	614.28	3/4	254.80	3/4		3/4		3/4		3/4	
1	2,044.21	1	1,684.73	1	1,325.25	1	966.08	1	606.79	1	247.31	1		1		1		1	
1/4	2,036.72	1/4	1,677.24	1/4	1,317.76	1/4	958.61	1/4	599.30	1/4	239.82	1/4		1/4		1/4		1/4	
1/2	2,029.23	1/2	1,669.75	1/2	1,310.27	1/2	951.14	1/2	591.81	1/2	232.33	1/2		1/2		1/2		1/2	
3/4	2,021.74	3/4	1,662.26	3/4	1,302.78	3/4	943.66	3/4	584.32	3/4	224.84	3/4		3/4		3/4		3/4	
2	2,014.25	2	1,654.77	2	1,295.29	2	936.19	2	576.83	2	217.35	2		2		2		2	
1/4	2,006.77	1/4	1,647.28	1/4	1,287.80	1/4	928.71	1/4	569.34	1/4	209.86	1/4		1/4		1/4		1/4	
1/2	1,999.28	1/2	1,639.79	1/2	1,280.31	1/2	921.24	1/2	561.86	1/2	202.37	1/2		1/2		1/2		1/2	
3/4	1,991.79	3/4	1,632.31	3/4	1,272.82	3/4	913.76	3/4	554.37	3/4	194.88	3/4		3/4		3/4		3/4	
3	1,984.30	3	1,624.82	3	1,265.33	3	906.29	3	546.88	3	187.40	3		3		3		3	
1/4	1,976.81	1/4	1,617.33	1/4	1,257.85	1/4	898.81	1/4	539.39	1/4	179.91	1/4		1/4		1/4		1/4	
1/2	1,969.32	1/2	1,609.84	1/2	1,250.36	1/2	891.34	1/2	531.90	1/2	172.42	1/2		1/2		1/2		1/2	
3/4	1,961.83	3/4	1,602.35	3/4	1,242.87	3/4	883.86	3/4	524.41	3/4	164.93	3/4		3/4		3/4		3/4	
4	1,954.34	4	1,594.86	4	1,235.38	4	876.39	4	516.92	4	157.44	4		4		4		4	
1/4	1,946.85	1/4	1,587.37	1/4	1,227.89	1/4	868.91	1/4	509.43	1/4	149.95	1/4		1/4		1/4		1/4	
1/2	1,939.36	1/2	1,579.88	1/2	1,220.40	1/2	861.42	1/2	501.94	1/2	142.46	1/2		1/2		1/2		1/2	
3/4	1,931.87	3/4	1,572.39	3/4	1,212.91	3/4	853.93	3/4	494.45	3/4	134.97	3/4		3/4		3/4		3/4	
5	1,924.38	5	1,564.90	5	1,205.42	5	846.44	5	486.96	5	127.49	5		5		5		5	
1/4	1,916.89	1/4	1,557.41	1/4	1,197.93	1/4	838.96	1/4	479.47	1/4	120.00	1/4		1/4		1/4		1/4	
1/2	1,909.41	1/2	1,549.92	1/2	1,190.44	1/2	831.47	1/2	471.98	1/2	112.52	1/2		1/2		1/2		1/2	
3/4	1,901.92	3/4	1,542.43	3/4	1,182.95	3/4	823.98	3/4	464.50	3/4	105.04	3/4		3/4		3/4		3/4	
6	1,894.43	6	1,534.95	6	1,175.46	6	816.49	6	457.01	6	97.56	6		6		6		6	
1/4	1,886.94	1/4	1,527.46	1/4	1,167.97	1/4	809.00	1/4	449.52	1/4	90.08	1/4		1/4		1/4		1/4	
1/2	1,879.45	1/2	1,519.97	1/2	1,160.49	1/2	801.51	1/2	442.03	1/2	82.63	1/2		1/2		1/2		1/2	
3/4	1,871.96	3/4	1,512.48	3/4	1,153.01	3/4	794.02	3/4	434.54	3/4	75.18	3/4		3/4		3/4		3/4	
7	1,864.47	7	1,504.99	7	1,145.52	7	786.53	7	427.05	7	67.73	7		7		7		7	
1/4	1,856.98	1/4	1,497.50	1/4	1,138.04	1/4	779.04	1/4	419.56	1/4	60.27	1/4		1/4		1/4		1/4	
1/2	1,849.49	1/2	1,490.01	1/2	1,130.56	1/2	771.55	1/2	412.07	1/2	53.72	1/2		1/2		1/2		1/2	
3/4	1,842.00	3/4	1,482.52	3/4	1,123.07	3/4	764.06	3/4	404.58	3/4	47.17	3/4		3/4		3/4		3/4	
8	1,834.51	8	1,475.03	8	1,115.59	8	756.57	8	397.09	8	40.62	8		8		8		8	
1/4	1,827.02	1/4	1,467.54	1/4	1,108.11	1/4	749.09	1/4	389.60	1/4	34.07	1/4		1/4		1/4		1/4	
1/2	1,819.54	1/2	1,460.05	1/2	1,100.63	1/2	741.60	1/2	382.11	1/2	29.39	1/2		1/2		1/2		1/2	
3/4	1,812.05	3/4	1,452.56	3/4	1,093.16	3/4	734.11	3/4	374.63	3/4	24.70	3/4		3/4		3/4		3/4	
9	1,804.56	9	1,445.08	9	1,085.68	9	726.62	9	367.14	9	20.02	9		9		9		9	
1/4	1,797.07	1/4	1,437.59	1/4	1,078.21	1/4	719.13	1/4	359.65	1/4	15.34	1/4		1/4		1/4		1/4	
1/2	1,789.58	1/2	1,430.10	1/2	1,070.73	1/2	711.64	1/2	352.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,782.09	3/4	1,422.61	3/4	1,063.26	3/4	704.15	3/4	344.67	3/4		3/4		3/4		3/4		3/4	
10	1,774.60	10	1,415.12	10	1,055.78	10	696.66	10	337.18	10		10		10		10		10	
1/4	1,767.11	1/4	1,407.63	1/4	1,048.31	1/4	689.17	1/4	329.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,759.62	1/2	1,400.14	1/2	1,040.83	1/2	681.68	1/2	322.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,752.13	3/4	1,392.65	3/4	1,033.36	3/4	674.19	3/4	314.71	3/4		3/4		3/4		3/4		3/4	
11	1,744.64	11	1,385.16	11	1,025.88	11	666.70	11	307.22	11		11		11		11		11	
1/4	1,737.15	1/4	1,377.67	1/4	1,018.41	1/4	659.21	1/4	299.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,729.66	1/2	1,370.18	1/2	1,010.93	1/2	651.73	1/2	292.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,722.18	3/4	1,362.69	3/4	1,003.46	3/4	644.24	3/4	284.75	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	0	0	0	0	4,357.96	0	4,139.77	0	3,920.96	0	3,701.82	0	3,470.81	0	3,121.92	0	2,765.66	0	2,409.34		
1/4	1/4	1/4	1/4	1/4	4,353.44	1/4	4,135.21	1/4	3,916.40	1/4	3,697.25	1/4	3,464.62	1/4	3,114.50	1/4	2,758.23	1/4	2,401.90		
1/2	1/2	1/2	1/2	1/2	4,348.93	1/2	4,130.66	1/2	3,911.84	1/2	3,692.67	1/2	3,458.42	1/2	3,107.08	1/2	2,750.81	1/2	2,394.47		
3/4	3/4	3/4	3/4	3/4	4,344.42	3/4	4,126.10	3/4	3,907.28	3/4	3,688.10	3/4	3,451.74	3/4	3,099.66	3/4	2,743.39	3/4	2,387.04		
1	1	1	1	1	4,339.90	1	4,121.54	1	3,902.73	1	3,683.53	1	3,445.07	1	3,092.23	1	2,735.97	1	2,379.61		
1/4	1/4	1/4	1/4	1/4	4,335.39	1/4	4,116.98	1/4	3,898.17	1/4	3,678.96	1/4	3,438.39	1/4	3,084.81	1/4	2,728.55	1/4	2,372.17		
1/2	1/2	1/2	1/2	1/2	4,330.88	1/2	4,112.42	1/2	3,893.61	1/2	3,674.39	1/2	3,431.72	1/2	3,077.39	1/2	2,721.12	1/2	2,364.74		
3/4	3/4	3/4	3/4	3/4	4,326.36	3/4	4,107.86	3/4	3,889.05	3/4	3,669.82	3/4	3,424.56	3/4	3,069.97	3/4	2,713.70	3/4	2,357.31		
2	2	2	2	2	4,321.85	2	4,103.30	2	3,884.49	2	3,665.25	2	3,417.41	2	3,062.55	2	2,706.28	2	2,349.88		
1/4	1/4	1/4	1/4	1/4	4,317.33	1/4	4,098.75	1/4	3,879.93	1/4	3,660.68	1/4	3,410.26	1/4	3,055.12	1/4	2,698.86	1/4	2,342.44		
1/2	1/2	1/2	1/2	1/2	4,312.82	1/2	4,094.19	1/2	3,875.37	1/2	3,656.10	1/2	3,403.10	1/2	3,047.70	1/2	2,691.44	1/2	2,335.01		
3/4	3/4	3/4	3/4	3/4	4,308.31	3/4	4,089.63	3/4	3,870.82	3/4	3,651.53	3/4	3,395.72	3/4	3,040.28	3/4	2,684.01	3/4	2,327.58		
3	3	3	3	3	4,303.79	3	4,085.07	3	3,866.26	3	3,646.96	3	3,388.34	3	3,032.86	3	2,676.59	3	2,320.15		
1/4	1/4	1/4	1/4	1/4	4,299.28	1/4	4,080.51	1/4	3,861.70	1/4	3,642.39	1/4	3,380.96	1/4	3,025.43	1/4	2,669.17	1/4	2,312.71		
1/2	1/2	1/2	1/2	1/2	4,294.77	1/2	4,075.95	1/2	3,857.14	1/2	3,637.82	1/2	3,373.58	1/2	3,018.01	1/2	2,661.75	1/2	2,305.28		
3/4	3/4	3/4	3/4	3/4	4,290.21	3/4	4,071.39	3/4	3,852.58	3/4	3,633.25	3/4	3,366.19	3/4	3,010.59	3/4	2,654.32	3/4	2,297.85		
4	4	4	4	4	4,285.65	4	4,066.84	4	3,848.02	4	3,628.68	4	3,358.80	4	3,003.17	4	2,646.90	4	2,290.42		
1/4	1/4	1/4	1/4	1/4	4,281.09	1/4	4,062.28	1/4	3,843.46	1/4	3,624.11	1/4	3,351.41	1/4	2,995.75	1/4	2,639.48	1/4	2,282.98		
1/2	1/2	1/2	1/2	1/2	4,276.53	1/2	4,057.72	1/2	3,838.91	1/2	3,619.53	1/2	3,344.02	1/2	2,988.32	1/2	2,632.06	1/2	2,275.55		
3/4	3/4	3/4	3/4	3/4	4,271.97	3/4	4,053.16	3/4	3,834.35	3/4	3,614.96	3/4	3,336.63	3/4	2,980.90	3/4	2,624.63	3/4	2,268.13		
5	5	5	5	5	4,267.41	5	4,048.60	5	3,829.79	5	3,610.39	5	3,329.23	5	2,973.48	5	2,617.21	5	2,260.70		
1/4	1/4	1/4	1/4	1/4	4,262.86	1/4	4,044.04	1/4	3,825.23	1/4	3,605.82	1/4	3,321.84	1/4	2,966.06	1/4	2,609.79	1/4	2,253.27		
1/2	1/2	1/2	1/2	1/2	4,258.30	1/2	4,039.48	1/2	3,820.67	1/2	3,601.25	1/2	3,314.45	1/2	2,958.63	1/2	2,602.36	1/2	2,245.84		
3/4	3/4	3/4	3/4	3/4	4,253.74	3/4	4,034.93	3/4	3,816.10	3/4	3,596.68	3/4	3,307.05	3/4	2,951.21	3/4	2,594.94	3/4	2,238.42		
6	6	6	6	6	4,249.18	6	4,030.37	6	3,811.53	6	3,592.11	6	3,299.66	6	2,943.79	6	2,587.52	6	2,230.99		
1/4	1/4	1/4	1/4	1/4	4,244.62	1/4	4,025.81	1/4	3,806.96	1/4	3,587.53	1/4	3,292.27	1/4	2,936.37	1/4	2,580.09	1/4	2,223.56		
1/2	1/2	1/2	1/2	1/2	4,449.45	1/2	4,240.06	1/2	4,021.25	1/2	3,802.39	1/2	3,582.96	1/2	3,284.87	1/2	2,928.95	1/2	2,572.67	1/2	2,216.14
3/4	3/4	3/4	3/4	3/4	4,446.27	3/4	4,235.50	3/4	4,016.69	3/4	3,797.81	3/4	3,578.39	3/4	3,277.48	3/4	2,921.52	3/4	2,565.25	3/4	2,208.71
7	7	7	7	7	4,443.09	7	4,230.95	7	4,012.13	7	3,793.24	7	3,573.82	7	3,270.08	7	2,914.10	7	2,557.82	7	2,201.28
1/4	1/4	1/4	1/4	1/4	4,439.91	1/4	4,226.39	1/4	4,007.57	1/4	3,788.67	1/4	3,569.25	1/4	3,262.69	1/4	2,906.68	1/4	2,550.40	1/4	2,193.86
1/2	1/2	1/2	1/2	1/2	4,436.73	1/2	4,221.83	1/2	4,003.02	1/2	3,784.10	1/2	3,564.68	1/2	3,255.30	1/2	2,899.26	1/2	2,542.98	1/2	2,186.43
3/4	3/4	3/4	3/4	3/4	4,432.79	3/4	4,217.27	3/4	3,998.46	3/4	3,779.53	3/4	3,560.11	3/4	3,247.90	3/4	2,891.83	3/4	2,535.55	3/4	2,179.00
8	8	8	8	8	4,428.84	8	4,212.71	8	3,993.90	8	3,774.96	8	3,555.54	8	3,240.51	8	2,884.41	8	2,528.13	8	2,171.58
1/4	1/4	1/4	1/4	1/4	4,424.90	1/4	4,208.15	1/4	3,989.34	1/4	3,770.39	1/4	3,550.96	1/4	3,233.11	1/4	2,876.99	1/4	2,520.71	1/4	2,164.15
1/2	1/2	1/2	1/2	1/2	4,420.96	1/2	4,203.59	1/2	3,984.78	1/2	3,765.82	1/2	3,546.39	1/2	3,225.72	1/2	2,869.57	1/2	2,513.28	1/2	2,156.72
3/4	3/4	3/4	3/4	3/4	4,416.49	3/4	4,199.03	3/4	3,980.22	3/4	3,761.24	3/4	3,541.58	3/4	3,218.33	3/4	2,862.15	3/4	2,505.86	3/4	2,149.29
9	9	9	9	9	4,412.01	9	4,194.48	9	3,975.66	9	3,756.67	9	3,536.77	9	3,210.93	9	2,854.72	9	2,498.44	9	2,141.87
1/4	1/4	1/4	1/4	1/4	4,407.54	1/4	4,189.92	1/4	3,971.10	1/4	3,752.10	1/4	3,531.96	1/4	3,203.54	1/4	2,847.30	1/4	2,491.01	1/4	2,134.44
1/2	1/2	1/2	1/2	1/2	4,403.07	1/2	4,185.36	1/2	3,966.55	1/2	3,747.53	1/2	3,527.15	1/2	3,196.14	1/2	2,839.88	1/2	2,483.59	1/2	2,127.01
3/4	3/4	3/4	3/4	3/4	4,398.57	3/4	4,180.80	3/4	3,961.99	3/4	3,742.96	3/4	3,521.90	3/4	3,188.72	3/4	2,832.46	3/4	2,476.17	3/4	2,119.59
10	10	10	10	10	4,394.06	10	4,176.24	10	3,957.43	10	3,738.39	10	3,516.64	10	3,181.30	10	2,825.03	10	2,468.74	10	2,112.16
1/4	1/4	1/4	1/4	1/4	4,389.55	1/4	4,171.68	1/4	3,952.87	1/4	3,733.82	1/4	3,511.39	1/4	3,173.88	1/4	2,817.61	1/4	2,461.32	1/4	2,104.73
1/2	1/2	1/2	1/2	1/2	4,385.05	1/2	4,167.12	1/2	3,948.31	1/2	3,729.25	1/2	3,506.14	1/2	3,166.46	1/2	2,810.19	1/2	2,453.90	1/2	2,097.31
3/4	3/4	3/4	3/4	3/4	4,380.53	3/4	4,162.57	3/4	3,943.75	3/4	3,724.67	3/4	3,500.41	3/4	3,159.03	3/4	2,802.77	3/4	2,446.47	3/4	2,089.90
11	11	11	11	11	4,376.02	11	4,158.01	11	3,939.19	11	3,720.10	11	3,494.68	11	3,151.61	11	2,795.35	11	2,439.05	11	2,082.49
1/4	1/4	1/4	1/4	1/4	4,371.50	1/4	4,153.45	1/4	3,934.64	1/4	3,715.53	1/4	3,488.94	1/4	3,144.19	1/4	2,787.92	1/4	2,431.63	1/4	2,075.09
1/2	1/2	1/2	1/2	1/2	4,366.99	1/2	4,148.89	1/2	3,930.08	1/2	3,710.96	1/2	3,483.21	1/2	3,136.77	1/2	2,780.50	1/2	2,424.20	1/2	2,067.68
3/4	3/4	3/4	3/4	3/4	4,362.47	3/4	4,144.33	3/4	3,925.52	3/4	3,706.39	3/4	3,477.01	3/4	3,129.34	3/4	2,773.08	3/4	2,416.77	3/4	2,060.27

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "E2MS 309"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-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	2,052.87	0	1,696.91	0	1,340.26	0	990.28	0	640.07	0	283.15	0		0		0		0	
1/4	2,045.46	1/4	1,689.48	1/4	1,332.83	1/4	983.14	1/4	632.63	1/4	275.70	1/4		1/4		1/4		1/4	
1/2	2,038.05	1/2	1,682.05	1/2	1,325.40	1/2	976.00	1/2	625.20	1/2	268.26	1/2		1/2		1/2		1/2	
3/4	2,030.64	3/4	1,674.62	3/4	1,317.97	3/4	968.86	3/4	617.76	3/4	260.81	3/4		3/4		3/4		3/4	
1	2,023.22	1	1,667.19	1	1,310.54	1	961.72	1	610.33	1	253.36	1		1		1		1	
1/4	2,015.81	1/4	1,659.76	1/4	1,303.11	1/4	954.58	1/4	602.89	1/4	245.91	1/4		1/4		1/4		1/4	
1/2	2,008.40	1/2	1,652.33	1/2	1,295.68	1/2	947.44	1/2	595.45	1/2	238.47	1/2		1/2		1/2		1/2	
3/4	2,000.98	3/4	1,644.90	3/4	1,288.25	3/4	940.30	3/4	588.02	3/4	231.02	3/4		3/4		3/4		3/4	
2	1,993.57	2	1,637.47	2	1,280.82	2	933.17	2	580.58	2	223.57	2		2		2		2	
1/4	1,986.15	1/4	1,630.04	1/4	1,273.39	1/4	926.03	1/4	573.15	1/4	216.13	1/4		1/4		1/4		1/4	
1/2	1,978.74	1/2	1,622.61	1/2	1,265.96	1/2	918.89	1/2	565.71	1/2	208.68	1/2		1/2		1/2		1/2	
3/4	1,971.33	3/4	1,615.18	3/4	1,258.53	3/4	911.75	3/4	558.28	3/4	201.23	3/4		3/4		3/4		3/4	
3	1,963.91	3	1,607.75	3	1,251.10	3	904.61	3	550.84	3	193.79	3		3		3		3	
1/4	1,956.50	1/4	1,600.32	1/4	1,243.67	1/4	897.47	1/4	543.41	1/4	186.34	1/4		1/4		1/4		1/4	
1/2	1,949.08	1/2	1,592.89	1/2	1,236.24	1/2	890.33	1/2	535.97	1/2	178.89	1/2		1/2		1/2		1/2	
3/4	1,941.67	3/4	1,585.46	3/4	1,228.80	3/4	883.19	3/4	528.54	3/4	171.45	3/4		3/4		3/4		3/4	
4	1,934.26	4	1,578.03	4	1,221.37	4	876.05	4	521.10	4	164.00	4		4		4		4	
1/4	1,926.84	1/4	1,570.60	1/4	1,213.94	1/4	868.91	1/4	513.67	1/4	156.55	1/4		1/4		1/4		1/4	
1/2	1,919.43	1/2	1,563.17	1/2	1,206.51	1/2	861.78	1/2	506.23	1/2	149.10	1/2		1/2		1/2		1/2	
3/4	1,912.02	3/4	1,555.74	3/4	1,199.08	3/4	854.61	3/4	498.80	3/4	141.66	3/4		3/4		3/4		3/4	
5	1,904.60	5	1,548.31	5	1,191.65	5	847.45	5	491.36	5	134.21	5		5		5		5	
1/4	1,897.19	1/4	1,540.88	1/4	1,184.22	1/4	840.29	1/4	483.93	1/4	126.77	1/4		1/4		1/4		1/4	
1/2	1,889.77	1/2	1,533.45	1/2	1,176.79	1/2	833.13	1/2	476.49	1/2	119.32	1/2		1/2		1/2		1/2	
3/4	1,882.36	3/4	1,526.02	3/4	1,169.37	3/4	825.76	3/4	469.05	3/4	111.89	3/4		3/4		3/4		3/4	
6	1,874.95	6	1,518.59	6	1,162.35	6	818.39	6	461.62	6	104.45	6		6		6		6	
1/4	1,867.53	1/4	1,511.16	1/4	1,155.12	1/4	811.01	1/4	454.18	1/4	97.01	1/4		1/4		1/4		1/4	
1/2	1,860.12	1/2	1,503.73	1/2	1,147.90	1/2	803.64	1/2	446.75	1/2	89.58	1/2		1/2		1/2		1/2	
3/4	1,852.70	3/4	1,496.30	3/4	1,140.69	3/4	796.21	3/4	439.31	3/4	82.17	3/4		3/4		3/4		3/4	
7	1,845.29	7	1,488.87	7	1,133.48	7	788.77	7	431.88	7	74.76	7		7		7		7	
1/4	1,837.88	1/4	1,481.44	1/4	1,126.27	1/4	781.34	1/4	424.44	1/4	67.34	1/4		1/4		1/4		1/4	
1/2	1,830.46	1/2	1,474.00	1/2	1,119.06	1/2	773.90	1/2	417.01	1/2	59.93	1/2		1/2		1/2		1/2	
3/4	1,823.05	3/4	1,466.57	3/4	1,111.85	3/4	766.47	3/4	409.57	3/4	53.42	3/4		3/4		3/4		3/4	
8	1,815.63	8	1,459.14	8	1,104.64	8	759.03	8	402.14	8	46.90	8		8		8		8	
1/4	1,808.22	1/4	1,451.71	1/4	1,097.43	1/4	751.60	1/4	394.70	1/4	40.39	1/4		1/4		1/4		1/4	
1/2	1,800.81	1/2	1,444.28	1/2	1,090.22	1/2	744.16	1/2	387.27	1/2	33.88	1/2		1/2		1/2		1/2	
3/4	1,793.39	3/4	1,436.85	3/4	1,083.08	3/4	736.73	3/4	379.83	3/4	29.22	3/4		3/4		3/4		3/4	
9	1,785.98	9	1,429.42	9	1,075.95	9	729.29	9	372.40	9	24.57	9		9		9		9	
1/4	1,778.57	1/4	1,421.99	1/4	1,068.81	1/4	721.85	1/4	364.96	1/4	19.91	1/4		1/4		1/4		1/4	
1/2	1,771.15	1/2	1,414.56	1/2	1,061.67	1/2	714.42	1/2	357.53	1/2	15.26	1/2		1/2		1/2		1/2	
3/4	1,763.74	3/4	1,407.13	3/4	1,054.53	3/4	706.98	3/4	350.09	3/4		3/4		3/4		3/4		3/4	
10	1,756.32	10	1,399.70	10	1,047.39	10	699.55	10	342.65	10		10		10		10		10	
1/4	1,748.91	1/4	1,392.27	1/4	1,040.25	1/4	692.11	1/4	335.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,741.50	1/2	1,384.84	1/2	1,033.11	1/2	684.68	1/2	327.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,734.07	3/4	1,377.41	3/4	1,025.97	3/4	677.24	3/4	320.35	3/4		3/4		3/4		3/4		3/4	
11	1,726.63	11	1,369.98	11	1,018.83	11	669.81	11	312.91	11		11		11		11		11	
1/4	1,719.20	1/4	1,362.55	1/4	1,011.69	1/4	662.37	1/4	305.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,711.77	1/2	1,355.12	1/2	1,004.56	1/2	654.94	1/2	298.04	1/2		1/2		1/2		1/2		1/2	
3/4	1,704.34	3/4	1,347.69	3/4	997.42	3/4	647.50	3/4	290.60	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "E2MS 309"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	4,384.76	0	4,165.95	0	3,946.55	0	3,726.80	0	3,493.53	0	3,141.83	0	2,783.96	0	2,426.04		
1/4	1/4	1/4	1/4	1/4	4,380.23	1/4	4,161.38	1/4	3,941.97	1/4	3,722.22	1/4	3,487.30	1/4	3,134.37	1/4	2,776.51	1/4	2,418.58		
1/2	1/2	1/2	1/2	1/2	4,375.71	1/2	4,156.81	1/2	3,937.40	1/2	3,717.64	1/2	3,480.59	1/2	3,126.92	1/2	2,769.05	1/2	2,411.11		
3/4	3/4	3/4	3/4	3/4	4,371.18	3/4	4,152.24	3/4	3,932.83	3/4	3,713.05	3/4	3,473.89	3/4	3,119.46	3/4	2,761.60	3/4	2,403.65		
1	1	1	1	1	4,366.66	1	4,147.66	1	3,928.26	1	3,708.47	1	3,467.18	1	3,112.01	1	2,754.14	1	2,396.18		
1/4	1/4	1/4	1/4	1/4	4,362.13	1/4	4,143.09	1/4	3,923.69	1/4	3,703.89	1/4	3,460.47	1/4	3,104.55	1/4	2,746.69	1/4	2,388.71		
1/2	1/2	1/2	1/2	1/2	4,357.61	1/2	4,138.52	1/2	3,919.12	1/2	3,699.30	1/2	3,453.29	1/2	3,097.09	1/2	2,739.23	1/2	2,381.25		
3/4	3/4	3/4	3/4	3/4	4,353.08	3/4	4,133.95	3/4	3,914.55	3/4	3,694.72	3/4	3,446.10	3/4	3,089.64	3/4	2,731.77	3/4	2,373.78		
2	2	2	2	2	4,348.56	2	4,129.38	2	3,909.98	2	3,690.14	2	3,438.91	2	3,082.18	2	2,724.32	2	2,366.32		
1/4	1/4	1/4	1/4	1/4	4,344.03	1/4	4,124.81	1/4	3,905.41	1/4	3,685.55	1/4	3,431.73	1/4	3,074.73	1/4	2,716.86	1/4	2,358.85		
1/2	1/2	1/2	1/2	1/2	4,339.51	1/2	4,120.24	1/2	3,900.84	1/2	3,680.97	1/2	3,424.31	1/2	3,067.27	1/2	2,709.41	1/2	2,351.38		
3/4	3/4	3/4	3/4	3/4	4,334.98	3/4	4,115.67	3/4	3,896.27	3/4	3,676.39	3/4	3,416.90	3/4	3,059.82	3/4	2,701.95	3/4	2,343.92		
3	3	3	3	3	4,330.45	3	4,111.10	3	3,891.69	3	3,671.80	3	3,409.49	3	3,052.36	3	2,694.50	3	2,336.45		
1/4	1/4	1/4	1/4	1/4	4,325.93	1/4	4,106.53	1/4	3,887.12	1/4	3,667.22	1/4	3,402.07	1/4	3,044.91	1/4	2,687.04	1/4	2,328.99		
1/2	1/2	1/2	1/2	1/2	4,321.36	1/2	4,101.96	1/2	3,882.55	1/2	3,662.64	1/2	3,394.65	1/2	3,037.45	1/2	2,679.59	1/2	2,321.52		
3/4	3/4	3/4	3/4	3/4	4,316.79	3/4	4,097.38	3/4	3,877.98	3/4	3,658.05	3/4	3,387.23	3/4	3,029.99	3/4	2,672.13	3/4	2,314.05		
4	4	4	4	4	4,312.22	4	4,092.81	4	3,873.41	4	3,653.47	4	3,379.80	4	3,022.54	4	2,664.68	4	2,306.59		
1/4	1/4	1/4	1/4	1/4	4,307.65	1/4	4,088.24	1/4	3,868.84	1/4	3,648.89	1/4	3,372.38	1/4	3,015.08	1/4	2,657.22	1/4	2,299.12		
1/2	1/2	1/2	1/2	1/2	4,303.08	1/2	4,083.67	1/2	3,864.27	1/2	3,644.30	1/2	3,364.95	1/2	3,007.63	1/2	2,649.76	1/2	2,291.66		
3/4	3/4	3/4	3/4	3/4	4,298.50	3/4	4,079.10	3/4	3,859.70	3/4	3,639.72	3/4	3,357.53	3/4	3,000.17	3/4	2,642.31	3/4	2,284.19		
5	5	5	5	5	4,293.93	5	4,074.53	5	3,855.13	5	3,635.14	5	3,350.10	5	2,992.72	5	2,634.85	5	2,276.72		
1/4	1/4	1/4	1/4	1/4	4,289.36	1/4	4,069.96	1/4	3,850.56	1/4	3,630.55	1/4	3,342.67	1/4	2,985.26	1/4	2,627.39	1/4	2,269.26		
1/2	1/2	1/2	1/2	1/2	4,284.79	1/2	4,065.39	1/2	3,845.97	1/2	3,625.97	1/2	3,335.25	1/2	2,977.81	1/2	2,619.94	1/2	2,261.79		
3/4	3/4	3/4	3/4	3/4	4,280.22	3/4	4,060.82	3/4	3,841.39	3/4	3,621.39	3/4	3,327.82	3/4	2,970.35	3/4	2,612.48	3/4	2,254.33		
6	6	6	6	6	4,275.65	6	4,056.25	6	3,836.81	6	3,616.80	6	3,320.39	6	2,962.90	6	2,605.02	6	2,246.86		
1/4	1/4	1/4	1/4	1/4	4,481.02	1/4	4,271.08	1/4	4,051.68	1/4	3,832.22	1/4	3,612.22	1/4	3,312.96	1/4	2,955.44	1/4	2,597.57	1/4	2,239.40
1/2	1/2	1/2	1/2	1/2	4,477.83	1/2	4,266.51	1/2	4,047.10	1/2	3,827.64	1/2	3,607.64	1/2	3,305.54	1/2	2,947.98	1/2	2,590.11	1/2	2,231.93
3/4	3/4	3/4	3/4	3/4	4,474.64	3/4	4,261.94	3/4	4,042.53	3/4	3,823.06	3/4	3,603.05	3/4	3,298.11	3/4	2,940.53	3/4	2,582.66	3/4	2,224.46
7	7	7	7	7	4,471.45	7	4,257.37	7	4,037.96	7	3,818.47	7	3,598.47	7	3,290.68	7	2,933.07	7	2,575.20	7	2,217.00
1/4	1/4	1/4	1/4	1/4	4,468.26	1/4	4,252.80	1/4	4,033.39	1/4	3,813.89	1/4	3,593.89	1/4	3,283.26	1/4	2,925.62	1/4	2,567.74	1/4	2,209.53
1/2	1/2	1/2	1/2	1/2	4,464.30	1/2	4,248.22	1/2	4,028.82	1/2	3,809.31	1/2	3,589.30	1/2	3,275.83	1/2	2,918.16	1/2	2,560.29	1/2	2,202.07
3/4	3/4	3/4	3/4	3/4	4,460.35	3/4	4,243.65	3/4	4,024.25	3/4	3,804.72	3/4	3,584.72	3/4	3,268.40	3/4	2,910.71	3/4	2,552.83	3/4	2,194.60
8	8	8	8	8	4,456.40	8	4,239.08	8	4,019.68	8	3,800.14	8	3,580.14	8	3,260.97	8	2,903.25	8	2,545.37	8	2,187.13
1/4	1/4	1/4	1/4	1/4	4,452.44	1/4	4,234.51	1/4	4,015.11	1/4	3,795.56	1/4	3,575.55	1/4	3,253.55	1/4	2,895.80	1/4	2,537.92	1/4	2,179.67
1/2	1/2	1/2	1/2	1/2	4,447.96	1/2	4,229.94	1/2	4,010.54	1/2	3,790.97	1/2	3,570.73	1/2	3,246.12	1/2	2,888.34	1/2	2,530.46	1/2	2,172.20
3/4	3/4	3/4	3/4	3/4	4,443.48	3/4	4,225.37	3/4	4,005.97	3/4	3,786.39	3/4	3,565.90	3/4	3,238.69	3/4	2,880.88	3/4	2,523.00	3/4	2,164.74
9	9	9	9	9	4,438.99	9	4,220.80	9	4,001.40	9	3,781.81	9	3,561.08	9	3,231.26	9	2,873.43	9	2,515.55	9	2,157.27
1/4	1/4	1/4	1/4	1/4	4,434.51	1/4	4,216.23	1/4	3,996.82	1/4	3,777.22	1/4	3,556.26	1/4	3,223.84	1/4	2,865.97	1/4	2,508.09	1/4	2,149.80
1/2	1/2	1/2	1/2	1/2	4,429.99	1/2	4,211.66	1/2	3,992.25	1/2	3,772.64	1/2	3,550.99	1/2	3,216.38	1/2	2,858.52	1/2	2,500.64	1/2	2,142.34
3/4	3/4	3/4	3/4	3/4	4,425.47	3/4	4,207.09	3/4	3,987.68	3/4	3,768.05	3/4	3,545.72	3/4	3,208.93	3/4	2,851.06	3/4	2,493.18	3/4	2,134.87
10	10	10	10	10	4,420.96	10	4,202.52	10	3,983.11	10	3,763.47	10	3,540.46	10	3,201.47	10	2,843.61	10	2,485.72	10	2,127.41
1/4	1/4	1/4	1/4	1/4	4,416.44	1/4	4,197.94	1/4	3,978.54	1/4	3,758.89	1/4	3,535.19	1/4	3,194.02	1/4	2,836.15	1/4	2,478.27	1/4	2,119.94
1/2	1/2	1/2	1/2	1/2	4,411.91	1/2	4,193.37	1/2	3,973.97	1/2	3,754.30	1/2	3,529.45	1/2	3,186.56	1/2	2,828.70	1/2	2,470.81	1/2	2,112.48
3/4	3/4	3/4	3/4	3/4	4,407.39	3/4	4,188.80	3/4	3,969.40	3/4	3,749.72	3/4	3,523.70	3/4	3,179.10	3/4	2,821.24	3/4	2,463.35	3/4	2,105.01
11	11	11	11	11	4,402.86	11	4,184.23	11	3,964.83	11	3,745.14	11	3,517.95	11	3,171.65	11	2,813.79	11	2,455.90	11	2,097.54
1/4	1/4	1/4	1/4	1/4	4,398.34	1/4	4,179.66	1/4	3,960.26	1/4	3,740.55	1/4	3,512.21	1/4	3,164.19	1/4	2,806.33	1/4	2,448.44	1/4	2,090.08
1/2	1/2	1/2	1/2	1/2	4,393.81	1/2	4,175.09	1/2	3,955.69	1/2	3,735.97	1/2	3,505.98	1/2	3,156.74	1/2	2,798.87	1/2	2,440.97	1/2	2,082.61
3/4	3/4	3/4	3/4	3/4	4,389.28	3/4	4,170.52	3/4	3,951.12	3/4	3,731.39	3/4	3,499.75	3/4	3,149.28	3/4	2,791.42	3/4	2,433.51	3/4	2,075.15

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 TO TOP LIP OF 2" HERMETIC VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "E2MS 309"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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	2,067.68	0	1,709.32	0	1,350.95	0	992.86	0	634.75	0	276.40	0		0		0		0	
1/4	2,060.21	1/4	1,701.85	1/4	1,343.49	1/4	985.40	1/4	627.28	1/4	268.93	1/4		1/4		1/4		1/4	
1/2	2,052.75	1/2	1,694.38	1/2	1,336.02	1/2	977.95	1/2	619.82	1/2	261.46	1/2		1/2		1/2		1/2	
3/4	2,045.28	3/4	1,686.92	3/4	1,328.56	3/4	970.50	3/4	612.35	3/4	254.00	3/4		3/4		3/4		3/4	
1	2,037.82	1	1,679.45	1	1,321.09	1	963.05	1	604.89	1	246.53	1		1		1		1	
1/4	2,030.35	1/4	1,671.99	1/4	1,313.62	1/4	955.60	1/4	597.42	1/4	239.07	1/4		1/4		1/4		1/4	
1/2	2,022.88	1/2	1,664.52	1/2	1,306.16	1/2	948.15	1/2	589.96	1/2	231.60	1/2		1/2		1/2		1/2	
3/4	2,015.42	3/4	1,657.06	3/4	1,298.69	3/4	940.70	3/4	582.49	3/4	224.14	3/4		3/4		3/4		3/4	
2	2,007.95	2	1,649.59	2	1,291.23	2	933.25	2	575.02	2	216.67	2		2		2		2	
1/4	2,000.49	1/4	1,642.12	1/4	1,283.76	1/4	925.80	1/4	567.56	1/4	209.20	1/4		1/4		1/4		1/4	
1/2	1,993.02	1/2	1,634.66	1/2	1,276.29	1/2	918.34	1/2	560.09	1/2	201.74	1/2		1/2		1/2		1/2	
3/4	1,985.55	3/4	1,627.19	3/4	1,268.83	3/4	910.89	3/4	552.63	3/4	194.27	3/4		3/4		3/4		3/4	
3	1,978.09	3	1,619.73	3	1,261.36	3	903.44	3	545.16	3	186.81	3		3		3		3	
1/4	1,970.62	1/4	1,612.26	1/4	1,253.90	1/4	895.99	1/4	537.70	1/4	179.34	1/4		1/4		1/4		1/4	
1/2	1,963.16	1/2	1,604.79	1/2	1,246.43	1/2	888.54	1/2	530.23	1/2	171.88	1/2		1/2		1/2		1/2	
3/4	1,955.69	3/4	1,597.33	3/4	1,238.96	3/4	881.09	3/4	522.76	3/4	164.41	3/4		3/4		3/4		3/4	
4	1,948.23	4	1,589.86	4	1,231.50	4	873.64	4	515.30	4	156.95	4		4		4		4	
1/4	1,940.76	1/4	1,582.40	1/4	1,224.03	1/4	866.19	1/4	507.83	1/4	149.48	1/4		1/4		1/4		1/4	
1/2	1,933.29	1/2	1,574.93	1/2	1,216.57	1/2	858.72	1/2	500.37	1/2	142.02	1/2		1/2		1/2		1/2	
3/4	1,925.83	3/4	1,567.46	3/4	1,209.10	3/4	851.26	3/4	492.90	3/4	134.55	3/4		3/4		3/4		3/4	
5	1,918.36	5	1,560.00	5	1,201.64	5	843.79	5	485.44	5	127.09	5		5		5		5	
1/4	1,910.90	1/4	1,552.53	1/4	1,194.17	1/4	836.32	1/4	477.97	1/4	119.62	1/4		1/4		1/4		1/4	
1/2	1,903.43	1/2	1,545.07	1/2	1,186.70	1/2	828.86	1/2	470.50	1/2	112.17	1/2		1/2		1/2		1/2	
3/4	1,895.96	3/4	1,537.60	3/4	1,179.24	3/4	821.39	3/4	463.04	3/4	104.71	3/4		3/4		3/4		3/4	
6	1,888.50	6	1,530.13	6	1,171.77	6	813.93	6	455.57	6	97.26	6		6		6		6	
1/4	1,881.03	1/4	1,522.67	1/4	1,164.31	1/4	806.46	1/4	448.11	1/4	89.80	1/4		1/4		1/4		1/4	
1/2	1,873.57	1/2	1,515.20	1/2	1,156.85	1/2	799.00	1/2	440.64	1/2	82.37	1/2		1/2		1/2		1/2	
3/4	1,866.10	3/4	1,507.74	3/4	1,149.38	3/4	791.53	3/4	433.18	3/4	74.94	3/4		3/4		3/4		3/4	
7	1,858.63	7	1,500.27	7	1,141.92	7	784.06	7	425.71	7	67.51	7		7		7		7	
1/4	1,851.17	1/4	1,492.81	1/4	1,134.46	1/4	776.60	1/4	418.24	1/4	60.08	1/4		1/4		1/4		1/4	
1/2	1,843.70	1/2	1,485.34	1/2	1,127.00	1/2	769.13	1/2	410.78	1/2	53.55	1/2		1/2		1/2		1/2	
3/4	1,836.24	3/4	1,477.87	3/4	1,119.54	3/4	761.67	3/4	403.31	3/4	47.02	3/4		3/4		3/4		3/4	
8	1,828.77	8	1,470.41	8	1,112.08	8	754.20	8	395.85	8	40.49	8		8		8		8	
1/4	1,821.30	1/4	1,462.94	1/4	1,104.62	1/4	746.74	1/4	388.38	1/4	33.96	1/4		1/4		1/4		1/4	
1/2	1,813.84	1/2	1,455.48	1/2	1,097.17	1/2	739.27	1/2	380.92	1/2	29.29	1/2		1/2		1/2		1/2	
3/4	1,806.37	3/4	1,448.01	3/4	1,089.72	3/4	731.80	3/4	373.45	3/4	24.63	3/4		3/4		3/4		3/4	
9	1,798.91	9	1,440.54	9	1,082.27	9	724.34	9	365.98	9	19.96	9		9		9		9	
1/4	1,791.44	1/4	1,433.08	1/4	1,074.82	1/4	716.87	1/4	358.52	1/4	15.30	1/4		1/4		1/4		1/4	
1/2	1,783.98	1/2	1,425.61	1/2	1,067.37	1/2	709.41	1/2	351.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,776.51	3/4	1,418.15	3/4	1,059.92	3/4	701.94	3/4	343.59	3/4		3/4		3/4		3/4		3/4	
10	1,769.04	10	1,410.68	10	1,052.46	10	694.48	10	336.12	10		10		10		10		10	
1/4	1,761.58	1/4	1,403.21	1/4	1,045.01	1/4	687.01	1/4	328.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,754.11	1/2	1,395.75	1/2	1,037.56	1/2	679.54	1/2	321.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,746.65	3/4	1,388.28	3/4	1,030.11	3/4	672.08	3/4	313.72	3/4		3/4		3/4		3/4		3/4	
11	1,739.18	11	1,380.82	11	1,022.66	11	664.61	11	306.26	11		11		11		11		11	
1/4	1,731.71	1/4	1,373.35	1/4	1,015.21	1/4	657.15	1/4	298.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,724.25	1/2	1,365.89	1/2	1,007.76	1/2	649.68	1/2	291.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,716.78	3/4	1,358.42	3/4	1,000.31	3/4	642.22	3/4	283.86	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2017 CL  
CALCULATED: 10/18/2017 CL  
PRINTED: 10/18/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2017

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



# BARGE "E2MS 309"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 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	0	0	100	0	257	0	412	0		0		0		0		0		0	
1/4	1	1/4	103	1/4	260	1/4	415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	106	1/2	263	1/2	417	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	109	3/4	267	3/4	420	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	112	1	270	1	423	1		1		1		1		1		1	
1/4	4	1/4	115	1/4	273	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	277	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	280	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	284	2	434	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	287	1/4	437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	290	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	294	3/4	442	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	137	3	297	3	445	3		3		3		3		3		3	
1/4	15	1/4	140	1/4	300	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	304	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	307	3/4	452	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	150	4	311	4	455	4		4		4		4		4		4	
1/4	22	1/4	153	1/4	314	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	156	1/2	317	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	320	3/4	462	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	324	5	465	5		5		5		5		5		5	
1/4	31	1/4	166	1/4	327	1/4	467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	169	1/2	330	1/2	469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	334	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	337	6	474	6		6		6		6		6		6	
1/4	39	1/4	179	1/4	340	1/4	476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	343	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	347	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	189	7	350	7	482	7		7		7		7		7		7	
1/4	49	1/4	192	1/4	353	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	356	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	199	3/4	360	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	202	8	363	8	489	8		8		8		8		8		8	
1/4	59	1/4	206	1/4	366	1/4	491	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	209	1/2	369	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	372	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	216	9	375	9	496	9		9		9		9		9		9	
1/4	69	1/4	219	1/4	379	1/4	497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	382	1/2	499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	226	3/4	385	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	229	10	388	10	502	10		10		10		10		10		10	
1/4	80	1/4	233	1/4	391	1/4	502	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	236	1/2	394	1/2	502	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	397	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	243	11	400	11	502	11		11		11		11		11		11	
1/4	92	1/4	246	1/4	403	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	250	1/2	406	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	253	3/4	409	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE

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PRECISION MEASUREMENT  
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# BARGE "E2MS 309"

## SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-08 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	0	0	433	0	1,021	0	1,641	0	2,206	0		0		0		0		0	
1/4	5	1/4	444	1/4	1,034	1/4	1,653	1/4	2,216	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	11	1/2	456	1/2	1,047	1/2	1,666	1/2	2,227	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	16	3/4	467	3/4	1,060	3/4	1,678	3/4	2,237	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	21	1	479	1	1,073	1	1,691	1	2,247	1		1	1	1	1	1	1	1	1
1/4	28	1/4	490	1/4	1,086	1/4	1,703	1/4	2,257	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	35	1/2	502	1/2	1,099	1/2	1,716	1/2	2,267	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41	3/4	513	3/4	1,111	3/4	1,729	3/4	2,277	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	48	2	525	2	1,124	2	1,741	2	2,287	2		2	2	2	2	2	2	2	2
1/4	56	1/4	537	1/4	1,137	1/4	1,753	1/4	2,297	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63	1/2	549	1/2	1,150	1/2	1,766	1/2	2,306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71	3/4	560	3/4	1,163	3/4	1,778	3/4	2,316	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	78	3	572	3	1,176	3	1,791	3	2,326	3		3	3	3	3	3	3	3	3
1/4	86	1/4	584	1/4	1,189	1/4	1,803	1/4	2,335	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	95	1/2	596	1/2	1,202	1/2	1,815	1/2	2,344	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	103	3/4	608	3/4	1,215	3/4	1,827	3/4	2,353	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	111	4	620	4	1,228	4	1,840	4	2,362	4		4	4	4	4	4	4	4	4
1/4	120	1/4	632	1/4	1,241	1/4	1,852	1/4	2,371	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	128	1/2	644	1/2	1,254	1/2	1,864	1/2	2,380	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	137	3/4	656	3/4	1,267	3/4	1,876	3/4	2,389	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	146	5	669	5	1,280	5	1,888	5	2,397	5		5	5	5	5	5	5	5	5
1/4	155	1/4	681	1/4	1,293	1/4	1,900	1/4	2,406	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	164	1/2	693	1/2	1,306	1/2	1,912	1/2	2,414	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	173	3/4	705	3/4	1,319	3/4	1,924	3/4	2,422	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	183	6	718	6	1,332	6	1,936	6	2,430	6		6	6	6	6	6	6	6	6
1/4	192	1/4	730	1/4	1,345	1/4	1,948	1/4	2,438	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	202	1/2	742	1/2	1,358	1/2	1,960	1/2	2,445	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	211	3/4	755	3/4	1,371	3/4	1,971	3/4	2,453	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	221	7	767	7	1,384	7	1,983	7	2,460	7		7	7	7	7	7	7	7	7
1/4	231	1/4	780	1/4	1,397	1/4	1,995	1/4	2,467	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	792	1/2	1,410	1/2	2,006	1/2	2,473	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	251	3/4	805	3/4	1,423	3/4	2,018	3/4	2,480	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	261	8	817	8	1,436	8	2,030	8	2,487	8		8	8	8	8	8	8	8	8
1/4	271	1/4	830	1/4	1,449	1/4	2,041	1/4	2,492	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	282	1/2	843	1/2	1,461	1/2	2,052	1/2	2,498	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	292	3/4	855	3/4	1,474	3/4	2,064	3/4	2,503	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	302	9	868	9	1,487	9	2,075	9	2,508	9		9	9	9	9	9	9	9	9
1/4	313	1/4	880	1/4	1,500	1/4	2,086	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	324	1/2	893	1/2	1,513	1/2	2,098	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	334	3/4	906	3/4	1,526	3/4	2,109	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	345	10	919	10	1,539	10	2,120	10		10		10	10	10	10	10	10	10	10
1/4	356	1/4	931	1/4	1,551	1/4	2,131	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	367	1/2	944	1/2	1,564	1/2	2,142	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	378	3/4	957	3/4	1,577	3/4	2,153	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	388	11	970	11	1,590	11	2,163	11		11		11	11	11	11	11	11	11	11
1/4	400	1/4	983	1/4	1,602	1/4	2,174	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	411	1/2	995	1/2	1,615	1/2	2,185	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	422	3/4	1,008	3/4	1,628	3/4	2,195	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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