



BARGE "E2MS 100"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 166'-00"

May 15, 2015

PRECISION MEASUREMENT
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 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 100"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01"

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	1.04	0	225.63	0	481.11	0	733.20	0	989.70	0	1,245.30	0	1,500.89	0	1,757.43	0	2,013.97	0	2,270.51
1/4	1.94	1/4	230.98	1/4	486.32	1/4	738.54	1/4	995.05	1/4	1,250.64	1/4	1,506.23	1/4	1,762.77	1/4	2,019.31	1/4	2,275.85
1/2	2.83	1/2	236.32	1/2	491.53	1/2	743.89	1/2	1,000.39	1/2	1,255.98	1/2	1,511.58	1/2	1,768.12	1/2	2,024.66	1/2	2,281.20
3/4	3.72	3/4	241.67	3/4	496.73	3/4	749.23	3/4	1,005.73	3/4	1,261.33	3/4	1,516.92	3/4	1,773.46	3/4	2,030.00	3/4	2,286.54
1	4.62	1	247.02	1	501.94	1	754.58	1	1,011.08	1	1,266.67	1	1,522.26	1	1,778.81	1	2,035.35	1	2,291.89
1/4	7.30	1/4	252.36	1/4	507.14	1/4	759.92	1/4	1,016.42	1/4	1,272.01	1/4	1,527.61	1/4	1,784.15	1/4	2,040.69	1/4	2,297.23
1/2	9.97	1/2	257.71	1/2	512.35	1/2	765.26	1/2	1,021.77	1/2	1,277.35	1/2	1,532.95	1/2	1,789.49	1/2	2,046.03	1/2	2,302.58
3/4	12.65	3/4	263.05	3/4	517.55	3/4	770.61	3/4	1,027.11	3/4	1,282.70	3/4	1,538.30	3/4	1,794.84	3/4	2,051.38	3/4	2,307.92
2	15.33	2	268.40	2	522.76	2	775.95	2	1,032.45	2	1,288.04	2	1,543.64	2	1,800.18	2	2,056.72	2	2,313.26
1/4	19.79	1/4	273.75	1/4	527.97	1/4	781.30	1/4	1,037.80	1/4	1,293.36	1/4	1,548.99	1/4	1,805.53	1/4	2,062.07	1/4	2,318.61
1/2	24.26	1/2	279.09	1/2	533.17	1/2	786.64	1/2	1,043.14	1/2	1,298.68	1/2	1,554.33	1/2	1,810.87	1/2	2,067.41	1/2	2,323.95
3/4	28.72	3/4	284.44	3/4	538.38	3/4	791.98	3/4	1,048.49	3/4	1,304.00	3/4	1,559.68	3/4	1,816.22	3/4	2,072.76	3/4	2,329.30
3	33.18	3	289.78	3	543.58	3	797.33	3	1,053.83	3	1,309.32	3	1,565.02	3	1,821.56	3	2,078.10	3	2,334.64
1/4	38.47	1/4	295.13	1/4	548.79	1/4	802.67	1/4	1,059.17	1/4	1,314.64	1/4	1,570.37	1/4	1,826.91	1/4	2,083.45	1/4	2,339.99
1/2	43.76	1/2	300.47	1/2	553.99	1/2	808.01	1/2	1,064.52	1/2	1,319.97	1/2	1,575.71	1/2	1,832.25	1/2	2,088.79	1/2	2,345.33
3/4	49.05	3/4	305.82	3/4	559.20	3/4	813.36	3/4	1,069.86	3/4	1,325.29	3/4	1,581.05	3/4	1,837.60	3/4	2,094.14	3/4	2,350.68
4	54.34	4	311.17	4	564.41	4	818.70	4	1,075.20	4	1,330.61	4	1,586.40	4	1,842.94	4	2,099.48	4	2,356.02
1/4	59.67	1/4	316.51	1/4	569.61	1/4	824.05	1/4	1,080.52	1/4	1,335.93	1/4	1,591.74	1/4	1,848.28	1/4	2,104.83	1/4	2,361.37
1/2	65.00	1/2	321.86	1/2	574.82	1/2	829.39	1/2	1,085.84	1/2	1,341.25	1/2	1,597.09	1/2	1,853.63	1/2	2,110.17	1/2	2,366.71
3/4	70.33	3/4	327.20	3/4	580.02	3/4	834.73	3/4	1,091.15	3/4	1,346.57	3/4	1,602.43	3/4	1,858.97	3/4	2,115.51	3/4	2,372.06
5	75.66	5	332.55	5	585.23	5	840.08	5	1,096.47	5	1,351.89	5	1,607.78	5	1,864.32	5	2,120.86	5	2,377.40
1/4	81.01	1/4	337.90	1/4	590.43	1/4	845.42	1/4	1,101.78	1/4	1,357.21	1/4	1,613.12	1/4	1,869.66	1/4	2,126.20	1/4	2,382.74
1/2	86.36	1/2	343.24	1/2	595.64	1/2	850.76	1/2	1,107.10	1/2	1,362.53	1/2	1,618.47	1/2	1,875.01	1/2	2,131.55	1/2	2,388.09
3/4	91.71	3/4	348.59	3/4	600.84	3/4	856.11	3/4	1,112.41	3/4	1,367.86	3/4	1,623.81	3/4	1,880.35	3/4	2,136.89	3/4	2,393.43
6	97.05	6	353.93	6	606.05	6	861.45	6	1,117.73	6	1,373.18	6	1,629.16	6	1,885.70	6	2,142.24	6	2,398.78
1/4	102.41	1/4	359.28	1/4	611.26	1/4	866.80	1/4	1,123.04	1/4	1,378.50	1/4	1,634.50	1/4	1,891.04	1/4	2,147.58	1/4	2,404.12
1/2	107.77	1/2	364.63	1/2	616.46	1/2	872.14	1/2	1,128.36	1/2	1,383.82	1/2	1,639.85	1/2	1,896.39	1/2	2,152.93	1/2	2,409.47
3/4	113.12	3/4	369.97	3/4	621.67	3/4	877.48	3/4	1,133.67	3/4	1,389.14	3/4	1,645.19	3/4	1,901.73	3/4	2,158.27	3/4	2,414.81
7	118.48	7	375.32	7	626.88	7	882.83	7	1,138.99	7	1,394.46	7	1,650.53	7	1,907.08	7	2,163.62	7	2,420.16
1/4	123.84	1/4	380.66	1/4	632.08	1/4	888.17	1/4	1,144.31	1/4	1,399.78	1/4	1,655.88	1/4	1,912.42	1/4	2,168.96	1/4	2,425.50
1/2	129.20	1/2	386.01	1/2	637.29	1/2	893.51	1/2	1,149.62	1/2	1,405.10	1/2	1,661.22	1/2	1,917.76	1/2	2,174.31	1/2	2,430.85
3/4	134.55	3/4	391.36	3/4	642.49	3/4	898.86	3/4	1,154.94	3/4	1,410.43	3/4	1,666.57	3/4	1,923.11	3/4	2,179.65	3/4	2,436.19
8	139.91	8	396.70	8	647.70	8	904.20	8	1,160.25	8	1,415.75	8	1,671.91	8	1,928.45	8	2,184.99	8	2,441.54
1/4	145.27	1/4	402.05	1/4	653.04	1/4	909.55	1/4	1,165.57	1/4	1,421.07	1/4	1,677.26	1/4	1,933.80	1/4	2,190.34	1/4	2,446.88
1/2	150.63	1/2	407.39	1/2	658.39	1/2	914.89	1/2	1,170.88	1/2	1,426.39	1/2	1,682.60	1/2	1,939.14	1/2	2,195.68	1/2	2,452.22
3/4	155.98	3/4	412.74	3/4	663.73	3/4	920.23	3/4	1,176.20	3/4	1,431.71	3/4	1,687.95	3/4	1,944.49	3/4	2,201.03	3/4	2,457.57
9	161.34	9	418.08	9	669.08	9	925.58	9	1,181.51	9	1,437.03	9	1,693.29	9	1,949.83	9	2,206.37	9	2,462.91
1/4	166.70	1/4	423.43	1/4	674.42	1/4	930.92	1/4	1,186.83	1/4	1,442.35	1/4	1,698.64	1/4	1,955.18	1/4	2,211.72	1/4	2,468.26
1/2	172.06	1/2	428.78	1/2	679.76	1/2	936.27	1/2	1,192.15	1/2	1,447.67	1/2	1,703.98	1/2	1,960.52	1/2	2,217.06	1/2	2,473.60
3/4	177.41	3/4	434.12	3/4	685.11	3/4	941.61	3/4	1,197.46	3/4	1,453.00	3/4	1,709.33	3/4	1,965.87	3/4	2,222.41	3/4	2,478.95
10	182.77	10	439.47	10	690.45	10	946.95	10	1,202.78	10	1,458.32	10	1,714.67	10	1,971.21	10	2,227.75	10	2,484.29
1/4	188.13	1/4	444.67	1/4	695.79	1/4	952.30	1/4	1,208.09	1/4	1,463.64	1/4	1,720.01	1/4	1,976.56	1/4	2,233.10	1/4	2,489.64
1/2	193.49	1/2	449.88	1/2	701.14	1/2	957.64	1/2	1,213.41	1/2	1,468.96	1/2	1,725.36	1/2	1,981.90	1/2	2,238.44	1/2	2,494.98
3/4	198.84	3/4	455.09	3/4	706.48	3/4	962.98	3/4	1,218.72	3/4	1,474.28	3/4	1,730.70	3/4	1,987.24	3/4	2,243.79	3/4	2,500.33
11	204.20	11	460.29	11	711.83	11	968.33	11	1,224.04	11	1,479.60	11	1,736.05	11	1,992.59	11	2,249.13	11	2,505.67
1/4	209.56	1/4	465.50	1/4	717.17	1/4	973.67	1/4	1,229.35	1/4	1,484.92	1/4	1,741.39	1/4	1,997.93	1/4	2,254.47	1/4	2,511.02
1/2	214.92	1/2	470.70	1/2	722.51	1/2	979.02	1/2	1,234.67	1/2	1,490.24	1/2	1,746.74	1/2	2,003.28	1/2	2,259.82	1/2	2,516.36
3/4	220.27	3/4	475.91	3/4	727.86	3/4	984.36	3/4	1,239.98	3/4	1,495.56	3/4	1,752.08	3/4	2,008.62	3/4	2,265.16	3/4	2,521.70

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 ON CENTERLINE AND 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "E2MS 100"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01"

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	2,527.05	0	2,756.40	0	2,980.24	0	3,204.09	0	3,403.81	0		0		0		0		0	
1/4	2,532.39	1/4	2,761.06	1/4	2,984.91	1/4	3,208.75	1/4	3,404.48	1/4		1/4		1/4		1/4		1/4	
1/2	2,537.74	1/2	2,765.73	1/2	2,989.57	1/2	3,213.41	1/2	3,405.15	1/2		1/2		1/2		1/2		1/2	
3/4	2,543.08	3/4	2,770.39	3/4	2,994.23	3/4	3,218.08	3/4	3,405.82	3/4		3/4		3/4		3/4		3/4	
1	2,548.43	1	2,775.05	1	2,998.90	1	3,222.74	1	3,406.49	1		1		1		1		1	
1/4	2,553.79	1/4	2,779.72	1/4	3,003.56	1/4	3,227.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,559.15	1/2	2,784.38	1/2	3,008.22	1/2	3,232.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,564.50	3/4	2,789.04	3/4	3,012.89	3/4	3,236.73	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,569.86	2	2,793.71	2	3,017.55	2	3,241.39	2		2		2		2		2		2	
1/4	2,574.53	1/4	2,798.37	1/4	3,022.21	1/4	3,246.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,579.19	1/2	2,803.03	1/2	3,026.88	1/2	3,250.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,583.85	3/4	2,807.70	3/4	3,031.54	3/4	3,255.38	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,588.52	3	2,812.36	3	3,036.20	3	3,260.05	3		3		3		3		3		3	
1/4	2,593.18	1/4	2,817.02	1/4	3,040.87	1/4	3,264.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,597.84	1/2	2,821.69	1/2	3,045.53	1/2	3,269.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,602.51	3/4	2,826.35	3/4	3,050.19	3/4	3,274.04	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,607.17	4	2,831.01	4	3,054.86	4	3,278.70	4		4		4		4		4		4	
1/4	2,611.83	1/4	2,835.68	1/4	3,059.52	1/4	3,283.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,616.50	1/2	2,840.34	1/2	3,064.18	1/2	3,288.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,621.16	3/4	2,845.00	3/4	3,068.85	3/4	3,292.69	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,625.82	5	2,849.67	5	3,073.51	5	3,297.35	5		5		5		5		5		5	
1/4	2,630.49	1/4	2,854.33	1/4	3,078.17	1/4	3,302.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,635.15	1/2	2,858.99	1/2	3,082.84	1/2	3,306.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,639.82	3/4	2,863.66	3/4	3,087.50	3/4	3,311.34	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,644.48	6	2,868.32	6	3,092.16	6	3,316.01	6		6		6		6		6		6	
1/4	2,649.14	1/4	2,872.99	1/4	3,096.83	1/4	3,320.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,653.81	1/2	2,877.65	1/2	3,101.49	1/2	3,325.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,658.47	3/4	2,882.31	3/4	3,106.16	3/4	3,330.00	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,663.13	7	2,886.98	7	3,110.82	7	3,334.66	7		7		7		7		7		7	
1/4	2,667.80	1/4	2,891.64	1/4	3,115.48	1/4	3,339.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,672.46	1/2	2,896.30	1/2	3,120.15	1/2	3,343.99	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,677.12	3/4	2,900.97	3/4	3,124.81	3/4	3,348.65	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,681.79	8	2,905.63	8	3,129.47	8	3,353.32	8		8		8		8		8		8	
1/4	2,686.45	1/4	2,910.29	1/4	3,134.14	1/4	3,357.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,691.11	1/2	2,914.96	1/2	3,138.80	1/2	3,362.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,695.78	3/4	2,919.62	3/4	3,143.46	3/4	3,367.31	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,700.44	9	2,924.28	9	3,148.13	9	3,371.97	9		9		9		9		9		9	
1/4	2,705.10	1/4	2,928.95	1/4	3,152.79	1/4	3,375.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,709.77	1/2	2,933.61	1/2	3,157.45	1/2	3,379.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,714.43	3/4	2,938.27	3/4	3,162.12	3/4	3,383.95	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,719.09	10	2,942.94	10	3,166.78	10	3,387.94	10		10		10		10		10		10	
1/4	2,723.76	1/4	2,947.60	1/4	3,171.44	1/4	3,390.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,728.42	1/2	2,952.26	1/2	3,176.11	1/2	3,393.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,733.08	3/4	2,956.93	3/4	3,180.77	3/4	3,395.90	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,737.75	11	2,961.59	11	3,185.43	11	3,398.55	11		11		11		11		11		11	
1/4	2,742.41	1/4	2,966.25	1/4	3,190.10	1/4	3,399.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,747.07	1/2	2,970.92	1/2	3,194.76	1/2	3,401.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,751.74	3/4	2,975.58	3/4	3,199.42	3/4	3,402.50	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 SW
CALCULATED: 05/15/2015 CL
PRINTED: 05/19/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "E2MS 100"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 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	2,831.04	0	3,118.43	0	3,405.82	0	3,693.21	0	3,953.70	0		0		0		0		0	
1/4	2,837.02	1/4	3,124.42	1/4	3,411.81	1/4	3,699.20	1/4	3,954.45	1/4		1/4		1/4		1/4		1/4	
1/2	2,843.01	1/2	3,130.40	1/2	3,417.79	1/2	3,705.18	1/2	3,955.20	1/2		1/2		1/2		1/2		1/2	
3/4	2,849.00	3/4	3,136.39	3/4	3,423.78	3/4	3,711.17	3/4	3,955.94	3/4		3/4		3/4		3/4		3/4	
1	2,854.99	1	3,142.38	1	3,429.77	1	3,717.16	1	3,956.69	1		1		1		1		1	
1/4	2,860.97	1/4	3,148.36	1/4	3,435.75	1/4	3,723.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,866.96	1/2	3,154.35	1/2	3,441.74	1/2	3,729.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,872.95	3/4	3,160.34	3/4	3,447.73	3/4	3,735.12	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,878.94	2	3,166.33	2	3,453.72	2	3,741.11	2		2		2		2		2		2	
1/4	2,884.92	1/4	3,172.31	1/4	3,459.70	1/4	3,747.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,890.91	1/2	3,178.30	1/2	3,465.69	1/2	3,753.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,896.90	3/4	3,184.29	3/4	3,471.68	3/4	3,759.07	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,902.89	3	3,190.28	3	3,477.67	3	3,765.06	3		3		3		3		3		3	
1/4	2,908.87	1/4	3,196.26	1/4	3,483.65	1/4	3,771.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,914.86	1/2	3,202.25	1/2	3,489.64	1/2	3,777.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,920.85	3/4	3,208.24	3/4	3,495.63	3/4	3,783.02	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,926.83	4	3,214.22	4	3,501.62	4	3,789.01	4		4		4		4		4		4	
1/4	2,932.82	1/4	3,220.21	1/4	3,507.60	1/4	3,794.99	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,938.81	1/2	3,226.20	1/2	3,513.59	1/2	3,800.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,944.80	3/4	3,232.19	3/4	3,519.58	3/4	3,806.97	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,950.78	5	3,238.17	5	3,525.56	5	3,812.95	5		5		5		5		5		5	
1/4	2,956.77	1/4	3,244.16	1/4	3,531.55	1/4	3,818.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,962.76	1/2	3,250.15	1/2	3,537.54	1/2	3,824.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,968.75	3/4	3,256.14	3/4	3,543.53	3/4	3,830.92	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,974.73	6	3,262.12	6	3,549.51	6	3,836.90	6		6		6		6		6		6	
1/4	2,980.72	1/4	3,268.11	1/4	3,555.50	1/4	3,842.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,986.71	1/2	3,274.10	1/2	3,561.49	1/2	3,848.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,992.69	3/4	3,280.09	3/4	3,567.48	3/4	3,854.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,998.68	7	3,286.07	7	3,573.46	7	3,860.85	7		7		7		7		7		7	
1/4	3,004.67	1/4	3,292.06	1/4	3,579.45	1/4	3,866.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,010.66	1/2	3,298.05	1/2	3,585.44	1/2	3,872.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,016.64	3/4	3,304.03	3/4	3,591.42	3/4	3,878.82	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,022.63	8	3,310.02	8	3,597.41	8	3,884.80	8		8		8		8		8		8	
1/4	3,028.62	1/4	3,316.01	1/4	3,603.40	1/4	3,890.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,034.61	1/2	3,322.00	1/2	3,609.39	1/2	3,896.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,040.59	3/4	3,327.98	3/4	3,615.37	3/4	3,902.76	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,046.58	9	3,333.97	9	3,621.36	9	3,908.75	9		9		9		9		9		9	
1/4	3,052.57	1/4	3,339.96	1/4	3,627.35	1/4	3,914.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,058.56	1/2	3,345.95	1/2	3,633.34	1/2	3,919.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,064.54	3/4	3,351.93	3/4	3,639.32	3/4	3,924.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,070.53	10	3,357.92	10	3,645.31	10	3,929.76	10		10		10		10		10		10	
1/4	3,076.52	1/4	3,363.91	1/4	3,651.30	1/4	3,933.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,082.50	1/2	3,369.89	1/2	3,657.29	1/2	3,937.24	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,088.49	3/4	3,375.88	3/4	3,663.27	3/4	3,940.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,094.48	11	3,381.87	11	3,669.26	11	3,944.73	11		11		11		11		11		11	
1/4	3,100.47	1/4	3,387.86	1/4	3,675.25	1/4	3,946.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,106.45	1/2	3,393.84	1/2	3,681.23	1/2	3,949.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,112.44	3/4	3,399.83	3/4	3,687.22	3/4	3,951.46	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "E2MS 100"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,505.16	0	2,758.84	0	3,012.51	0	3,266.19	0	3,496.03	0		0		0		0		0	
1/4	2,510.45	1/4	2,764.12	1/4	3,017.80	1/4	3,271.47	1/4	3,496.69	1/4		1/4		1/4		1/4		1/4	
1/2	2,515.73	1/2	2,769.41	1/2	3,023.08	1/2	3,276.76	1/2	3,497.35	1/2		1/2		1/2		1/2		1/2	
3/4	2,521.02	3/4	2,774.69	3/4	3,028.37	3/4	3,282.04	3/4	3,498.01	3/4		3/4		3/4		3/4		3/4	
1	2,526.30	1	2,779.98	1	3,033.65	1	3,287.33	1	3,498.67	1		1		1		1		1	
1/4	2,531.59	1/4	2,785.26	1/4	3,038.94	1/4	3,292.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,536.87	1/2	2,790.55	1/2	3,044.22	1/2	3,297.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,542.16	3/4	2,795.83	3/4	3,049.51	3/4	3,303.18	3/4		3/4		3/4		3/4		3/4		3/4	
2	2,547.44	2	2,801.12	2	3,054.79	2	3,308.47	2		2		2		2		2		2	
1/4	2,552.72	1/4	2,806.40	1/4	3,060.08	1/4	3,313.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,558.01	1/2	2,811.68	1/2	3,065.36	1/2	3,319.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,563.29	3/4	2,816.97	3/4	3,070.65	3/4	3,324.32	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,568.58	3	2,822.25	3	3,075.93	3	3,329.61	3		3		3		3		3		3	
1/4	2,573.86	1/4	2,827.54	1/4	3,081.21	1/4	3,334.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,579.15	1/2	2,832.82	1/2	3,086.50	1/2	3,340.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,584.43	3/4	2,838.11	3/4	3,091.78	3/4	3,345.46	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,589.72	4	2,843.39	4	3,097.07	4	3,350.74	4		4		4		4		4		4	
1/4	2,595.00	1/4	2,848.68	1/4	3,102.35	1/4	3,356.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,600.29	1/2	2,853.96	1/2	3,107.64	1/2	3,361.31	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,605.57	3/4	2,859.25	3/4	3,112.92	3/4	3,366.60	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,610.86	5	2,864.53	5	3,118.21	5	3,371.88	5		5		5		5		5		5	
1/4	2,616.14	1/4	2,869.82	1/4	3,123.49	1/4	3,377.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,621.43	1/2	2,875.10	1/2	3,128.78	1/2	3,382.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,626.71	3/4	2,880.39	3/4	3,134.06	3/4	3,387.74	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,632.00	6	2,885.67	6	3,139.35	6	3,393.02	6		6		6		6		6		6	
1/4	2,637.28	1/4	2,890.96	1/4	3,144.63	1/4	3,398.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,642.57	1/2	2,896.24	1/2	3,149.92	1/2	3,403.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,647.85	3/4	2,901.53	3/4	3,155.20	3/4	3,408.88	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,653.14	7	2,906.81	7	3,160.49	7	3,414.16	7		7		7		7		7		7	
1/4	2,658.42	1/4	2,912.10	1/4	3,165.77	1/4	3,419.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,663.71	1/2	2,917.38	1/2	3,171.06	1/2	3,424.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,668.99	3/4	2,922.67	3/4	3,176.34	3/4	3,430.02	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,674.28	8	2,927.95	8	3,181.63	8	3,435.30	8		8		8		8		8		8	
1/4	2,679.56	1/4	2,933.24	1/4	3,186.91	1/4	3,440.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,684.85	1/2	2,938.52	1/2	3,192.20	1/2	3,445.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,690.13	3/4	2,943.81	3/4	3,197.48	3/4	3,451.16	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,695.42	9	2,949.09	9	3,202.77	9	3,456.44	9		9		9		9		9		9	
1/4	2,700.70	1/4	2,954.38	1/4	3,208.05	1/4	3,461.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,705.99	1/2	2,959.66	1/2	3,213.34	1/2	3,465.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,711.27	3/4	2,964.95	3/4	3,218.62	3/4	3,470.29	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,716.56	10	2,970.23	10	3,223.91	10	3,474.90	10		10		10		10		10		10	
1/4	2,721.84	1/4	2,975.52	1/4	3,229.19	1/4	3,478.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,727.13	1/2	2,980.80	1/2	3,234.48	1/2	3,481.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,732.41	3/4	2,986.09	3/4	3,239.76	3/4	3,484.81	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,737.70	11	2,991.37	11	3,245.05	11	3,488.11	11		11		11		11		11		11	
1/4	2,742.98	1/4	2,996.66	1/4	3,250.33	1/4	3,490.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,748.27	1/2	3,001.94	1/2	3,255.62	1/2	3,492.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,753.55	3/4	3,007.23	3/4	3,260.90	3/4	3,494.05	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "E2MS 100"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 166'-00"

May 15, 2015

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

<http://www.pmacorp.net>



BARGE "E2MS 100"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-1"

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	3,406.49	0	3,222.74	0	2,998.90	0	2,775.06	0	2,548.43	0	2,291.89	0	2,035.35	0	1,778.81	0	1,522.27
1/4	1/4	3,405.82	1/4	3,218.08	1/4	2,994.24	1/4	2,770.40	1/4	2,543.09	1/4	2,286.55	1/4	2,030.01	1/4	1,773.47	1/4	1,516.92	
1/2	1/2	3,405.15	1/2	3,213.42	1/2	2,989.57	1/2	2,765.73	1/2	2,537.74	1/2	2,281.20	1/2	2,024.66	1/2	1,768.12	1/2	1,511.58	
3/4	3/4	3,404.48	3/4	3,208.75	3/4	2,984.91	3/4	2,761.07	3/4	2,532.40	3/4	2,275.86	3/4	2,019.32	3/4	1,762.78	3/4	1,506.24	
1		1	3,403.81	1	3,204.09	1	2,980.25	1	2,756.40	1	2,527.05	1	2,270.51	1	2,013.97	1	1,757.43	1	1,500.89
1/4	1/4	3,402.50	1/4	3,199.43	1/4	2,975.58	1/4	2,751.74	1/4	2,521.71	1/4	2,265.17	1/4	2,008.63	1/4	1,752.09	1/4	1,495.57	
1/2	1/2	3,401.19	1/2	3,194.76	1/2	2,970.92	1/2	2,747.08	1/2	2,516.36	1/2	2,259.82	1/2	2,003.28	1/2	1,746.74	1/2	1,490.25	
3/4	3/4	3,399.87	3/4	3,190.10	3/4	2,966.26	3/4	2,742.41	3/4	2,511.02	3/4	2,254.48	3/4	1,997.94	3/4	1,741.40	3/4	1,484.93	
2		2	3,398.56	2	3,185.44	2	2,961.59	2	2,737.75	2	2,505.68	2	2,249.13	2	1,992.59	2	1,736.05	2	1,479.61
1/4	1/4	3,395.90	1/4	3,180.77	1/4	2,956.93	1/4	2,733.09	1/4	2,500.33	1/4	2,243.79	1/4	1,987.25	1/4	1,730.71	1/4	1,474.28	
1/2	1/2	3,393.25	1/2	3,176.11	1/2	2,952.27	1/2	2,728.42	1/2	2,494.99	1/2	2,238.45	1/2	1,981.90	1/2	1,725.36	1/2	1,468.96	
3/4	3/4	3,390.60	3/4	3,171.45	3/4	2,947.60	3/4	2,723.76	3/4	2,489.64	3/4	2,233.10	3/4	1,976.56	3/4	1,720.02	3/4	1,463.64	
3		3	3,387.94	3	3,166.78	3	2,942.94	3	2,719.10	3	2,484.30	3	2,227.76	3	1,971.22	3	1,714.67	3	1,458.32
1/4	1/4	3,383.95	1/4	3,162.12	1/4	2,938.28	1/4	2,714.43	1/4	2,478.95	1/4	2,222.41	1/4	1,965.87	1/4	1,709.33	1/4	1,453.00	
1/2	1/2	3,379.96	1/2	3,157.46	1/2	2,933.61	1/2	2,709.77	1/2	2,473.61	1/2	2,217.07	1/2	1,960.53	1/2	1,703.99	1/2	1,447.68	
3/4	3/4	3,375.97	3/4	3,152.79	3/4	2,928.95	3/4	2,705.11	3/4	2,468.26	3/4	2,211.72	3/4	1,955.18	3/4	1,698.64	3/4	1,442.36	
4		4	3,371.97	4	3,148.13	4	2,924.29	4	2,700.44	4	2,462.92	4	2,206.38	4	1,949.84	4	1,693.30	4	1,437.04
1/4	1/4	3,367.31	1/4	3,143.47	1/4	2,919.62	1/4	2,695.78	1/4	2,457.57	1/4	2,201.03	1/4	1,944.49	1/4	1,687.95	1/4	1,431.71	
1/2	1/2	3,362.65	1/2	3,138.80	1/2	2,914.96	1/2	2,691.12	1/2	2,452.23	1/2	2,195.69	1/2	1,939.15	1/2	1,682.61	1/2	1,426.39	
3/4	3/4	3,357.98	3/4	3,134.14	3/4	2,910.30	3/4	2,686.45	3/4	2,446.88	3/4	2,190.34	3/4	1,933.80	3/4	1,677.26	3/4	1,421.07	
5		5	3,353.32	5	3,129.48	5	2,905.63	5	2,681.79	5	2,441.54	5	2,185.00	5	1,928.46	5	1,671.92	5	1,415.75
1/4	1/4	3,348.66	1/4	3,124.81	1/4	2,900.97	1/4	2,677.13	1/4	2,436.20	1/4	2,179.65	1/4	1,923.11	1/4	1,666.57	1/4	1,410.43	
1/2	1/2	3,343.99	1/2	3,120.15	1/2	2,896.31	1/2	2,672.46	1/2	2,430.85	1/2	2,174.31	1/2	1,917.77	1/2	1,661.23	1/2	1,405.11	
3/4	3/4	3,339.33	3/4	3,115.49	3/4	2,891.64	3/4	2,667.80	3/4	2,425.51	3/4	2,168.97	3/4	1,912.42	3/4	1,655.88	3/4	1,399.79	
6		6	3,334.67	6	3,110.82	6	2,886.98	6	2,663.14	6	2,420.16	6	2,163.62	6	1,907.08	6	1,650.54	6	1,394.47
1/4	1/4	3,330.00	1/4	3,106.16	1/4	2,882.32	1/4	2,658.47	1/4	2,414.82	1/4	2,158.28	1/4	1,901.74	1/4	1,645.19	1/4	1,389.15	
1/2	1/2	3,325.34	1/2	3,101.50	1/2	2,877.65	1/2	2,653.81	1/2	2,409.47	1/2	2,152.93	1/2	1,896.39	1/2	1,639.85	1/2	1,383.82	
3/4	3/4	3,320.68	3/4	3,096.83	3/4	2,872.99	3/4	2,649.15	3/4	2,404.13	3/4	2,147.59	3/4	1,891.05	3/4	1,634.51	3/4	1,378.50	
7		7	3,316.01	7	3,092.17	7	2,868.33	7	2,644.48	7	2,398.78	7	2,142.24	7	1,885.70	7	1,629.16	7	1,373.18
1/4	1/4	3,311.35	1/4	3,087.51	1/4	2,863.66	1/4	2,639.82	1/4	2,393.44	1/4	2,136.90	1/4	1,880.36	1/4	1,623.82	1/4	1,367.86	
1/2	1/2	3,306.69	1/2	3,082.84	1/2	2,859.00	1/2	2,635.16	1/2	2,388.09	1/2	2,131.55	1/2	1,875.01	1/2	1,618.47	1/2	1,362.54	
3/4	3/4	3,302.02	3/4	3,078.18	3/4	2,854.34	3/4	2,630.49	3/4	2,382.75	3/4	2,126.21	3/4	1,869.67	3/4	1,613.13	3/4	1,357.22	
8		8	3,297.36	8	3,073.52	8	2,849.67	8	2,625.83	8	2,377.40	8	2,120.86	8	1,864.32	8	1,607.78	8	1,351.90
1/4	1/4	3,292.70	1/4	3,068.85	1/4	2,845.01	1/4	2,621.17	1/4	2,372.06	1/4	2,115.52	1/4	1,858.98	1/4	1,602.44	1/4	1,346.58	
1/2	1/2	3,288.03	1/2	3,064.19	1/2	2,840.35	1/2	2,616.50	1/2	2,366.72	1/2	2,110.17	1/2	1,853.63	1/2	1,597.09	1/2	1,341.25	
3/4	3/4	3,283.37	3/4	3,059.53	3/4	2,835.68	3/4	2,611.84	3/4	2,361.37	3/4	2,104.83	3/4	1,848.29	3/4	1,591.75	3/4	1,335.93	
9		9	3,278.71	9	3,054.86	9	2,831.02	9	2,607.18	9	2,356.03	9	2,099.49	9	1,842.94	9	1,586.40	9	1,330.61
1/4	1/4	3,274.04	1/4	3,050.20	1/4	2,826.36	1/4	2,602.51	1/4	2,350.68	1/4	2,094.14	1/4	1,837.60	1/4	1,581.06	1/4	1,325.29	
1/2	1/2	3,269.38	1/2	3,045.54	1/2	2,821.69	1/2	2,597.85	1/2	2,345.34	1/2	2,088.80	1/2	1,832.26	1/2	1,575.71	1/2	1,319.97	
3/4	3/4	3,264.72	3/4	3,040.87	3/4	2,817.03	3/4	2,593.19	3/4	2,339.99	3/4	2,083.45	3/4	1,826.91	3/4	1,570.37	3/4	1,314.65	
10		10	3,260.05	10	3,036.21	10	2,812.37	10	2,588.52	10	2,334.65	10	2,078.11	10	1,821.57	10	1,565.03	10	1,309.33
1/4	1/4	3,255.39	1/4	3,031.55	1/4	2,807.70	1/4	2,583.86	1/4	2,329.30	1/4	2,072.76	1/4	1,816.22	1/4	1,559.68	1/4	1,304.01	
1/2	1/2	3,250.73	1/2	3,026.88	1/2	2,803.04	1/2	2,579.20	1/2	2,323.96	1/2	2,067.42	1/2	1,810.88	1/2	1,554.34	1/2	1,298.68	
3/4	3/4	3,246.06	3/4	3,022.22	3/4	2,798.38	3/4	2,574.53	3/4	2,318.61	3/4	2,062.07	3/4	1,805.53	3/4	1,548.99	3/4	1,293.36	
11		11	3,241.40	11	3,017.56	11	2,793.71	11	2,569.87	11	2,313.27	11	2,056.73	11	1,800.19	11	1,543.65	11	1,288.04
1/4	1/4	3,236.74	1/4	3,012.89	1/4	2,789.05	1/4	2,564.51	1/4	2,307.93	1/4	2,051.38	1/4	1,794.84	1/4	1,538.30	1/4	1,282.70	
1/2	1/2	3,232.07	1/2	3,008.23	1/2	2,784.39	1/2	2,559.15	1/2	2,302.58	1/2	2,046.04	1/2	1,789.50	1/2	1,532.96	1/2	1,277.36	
3/4	3/4	3,227.41	3/4	3,003.57	3/4	2,779.72	3/4	2,553.79	3/4	2,297.24	3/4	2,040.70	3/4	1,784.15	3/4	1,527.61	3/4	1,272.02	

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 ON CENTERLINE AND 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "E2MS 100"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-1"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,266.67	0	1,011.08	0	754.58	0	501.94	0	247.02	0	4.62	0		0		0		0	
1/4	1,261.33	1/4	1,005.74	1/4	749.24	1/4	496.74	1/4	241.67	1/4	3.73	1/4		1/4		1/4		1/4	
1/2	1,255.99	1/2	1,000.40	1/2	743.89	1/2	491.53	1/2	236.33	1/2	2.83	1/2		1/2		1/2		1/2	
3/4	1,250.65	3/4	995.05	3/4	738.55	3/4	486.32	3/4	230.98	3/4	1.94	3/4		3/4		3/4		3/4	
1	1,245.30	1	989.71	1	733.21	1	481.12	1	225.64	1	1.04	1		1		1		1	
1/4	1,239.99	1/4	984.36	1/4	727.86	1/4	475.91	1/4	220.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,234.67	1/2	979.02	1/2	722.52	1/2	470.71	1/2	214.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,229.36	3/4	973.68	3/4	717.17	3/4	465.50	3/4	209.56	3/4		3/4		3/4		3/4		3/4	
2	1,224.04	2	968.33	2	711.83	2	460.30	2	204.21	2		2		2		2		2	
1/4	1,218.73	1/4	962.99	1/4	706.49	1/4	455.09	1/4	198.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,213.41	1/2	957.65	1/2	701.14	1/2	449.88	1/2	193.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,208.10	3/4	952.30	3/4	695.80	3/4	444.68	3/4	188.13	3/4		3/4		3/4		3/4		3/4	
3	1,202.78	3	946.96	3	690.46	3	439.47	3	182.78	3		3		3		3		3	
1/4	1,197.47	1/4	941.61	1/4	685.11	1/4	434.13	1/4	177.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,192.15	1/2	936.27	1/2	679.77	1/2	428.78	1/2	172.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,186.83	3/4	930.93	3/4	674.42	3/4	423.44	3/4	166.70	3/4		3/4		3/4		3/4		3/4	
4	1,181.52	4	925.58	4	669.08	4	418.09	4	161.35	4		4		4		4		4	
1/4	1,176.20	1/4	920.24	1/4	663.74	1/4	412.74	1/4	155.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,170.89	1/2	914.89	1/2	658.39	1/2	407.40	1/2	150.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,165.57	3/4	909.55	3/4	653.05	3/4	402.05	3/4	145.27	3/4		3/4		3/4		3/4		3/4	
5	1,160.26	5	904.21	5	647.70	5	396.71	5	139.92	5		5		5		5		5	
1/4	1,154.94	1/4	898.86	1/4	642.50	1/4	391.36	1/4	134.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,149.63	1/2	893.52	1/2	637.29	1/2	386.01	1/2	129.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,144.31	3/4	888.18	3/4	632.09	3/4	380.67	3/4	123.84	3/4		3/4		3/4		3/4		3/4	
6	1,138.99	6	882.83	6	626.88	6	375.32	6	118.48	6		6		6		6		6	
1/4	1,133.68	1/4	877.49	1/4	621.67	1/4	369.98	1/4	113.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,128.36	1/2	872.14	1/2	616.47	1/2	364.63	1/2	107.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,123.05	3/4	866.80	3/4	611.26	3/4	359.28	3/4	102.42	3/4		3/4		3/4		3/4		3/4	
7	1,117.73	7	861.46	7	606.06	7	353.94	7	97.06	7		7		7		7		7	
1/4	1,112.42	1/4	856.11	1/4	600.85	1/4	348.59	1/4	91.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,107.10	1/2	850.77	1/2	595.64	1/2	343.25	1/2	86.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,101.79	3/4	845.43	3/4	590.44	3/4	337.90	3/4	81.01	3/4		3/4		3/4		3/4		3/4	
8	1,096.47	8	840.08	8	585.23	8	332.55	8	75.67	8		8		8		8		8	
1/4	1,091.16	1/4	834.74	1/4	580.03	1/4	327.21	1/4	70.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,085.84	1/2	829.39	1/2	574.82	1/2	321.86	1/2	65.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,080.52	3/4	824.05	3/4	569.62	3/4	316.52	3/4	59.68	3/4		3/4		3/4		3/4		3/4	
9	1,075.21	9	818.71	9	564.41	9	311.17	9	54.35	9		9		9		9		9	
1/4	1,069.87	1/4	813.36	1/4	559.20	1/4	305.83	1/4	49.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,064.52	1/2	808.02	1/2	554.00	1/2	300.48	1/2	43.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,059.18	3/4	802.68	3/4	548.79	3/4	295.13	3/4	38.48	3/4		3/4		3/4		3/4		3/4	
10	1,053.83	10	797.33	10	543.59	10	289.79	10	33.18	10		10		10		10		10	
1/4	1,048.49	1/4	791.99	1/4	538.38	1/4	284.44	1/4	28.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,043.15	1/2	786.64	1/2	533.18	1/2	279.10	1/2	24.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,037.80	3/4	781.30	3/4	527.97	3/4	273.75	3/4	19.80	3/4		3/4		3/4		3/4		3/4	
11	1,032.46	11	775.96	11	522.76	11	268.40	11	15.34	11		11		11		11		11	
1/4	1,027.11	1/4	770.61	1/4	517.56	1/4	263.06	1/4	12.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,021.77	1/2	765.27	1/2	512.35	1/2	257.71	1/2	9.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,016.43	3/4	759.92	3/4	507.15	3/4	252.37	3/4	7.30	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 SW
CALCULATED: 05/15/2015 CL
PRINTED: 05/19/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "E2MS 100"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 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	3,955.20	0	3,705.18	0	3,417.79	0	3,130.40	0	2,843.01	0	2,555.62	0	2,268.23	0	1,980.84	0	1,693.45
1/4		1/4	3,954.45	1/4	3,699.19	1/4	3,411.80	1/4	3,124.41	1/4	2,837.02	1/4	2,549.63	1/4	2,262.24	1/4	1,974.85	1/4	1,687.46
1/2		1/2	3,953.70	1/2	3,693.21	1/2	3,405.82	1/2	3,118.43	1/2	2,831.04	1/2	2,543.65	1/2	2,256.26	1/2	1,968.87	1/2	1,681.47
3/4		3/4	3,951.46	3/4	3,687.22	3/4	3,399.83	3/4	3,112.44	3/4	2,825.05	3/4	2,537.66	3/4	2,250.27	3/4	1,962.88	3/4	1,675.49
1		1	3,949.21	1	3,681.23	1	3,393.84	1	3,106.45	1	2,819.06	1	2,531.67	1	2,244.28	1	1,956.89	1	1,669.50
1/4		1/4	3,946.97	1/4	3,675.25	1/4	3,387.86	1/4	3,100.46	1/4	2,813.07	1/4	2,525.68	1/4	2,238.29	1/4	1,950.90	1/4	1,663.51
1/2		1/2	3,944.72	1/2	3,669.26	1/2	3,381.87	1/2	3,094.48	1/2	2,807.09	1/2	2,519.70	1/2	2,232.31	1/2	1,944.92	1/2	1,657.53
3/4		3/4	3,940.98	3/4	3,663.27	3/4	3,375.88	3/4	3,088.49	3/4	2,801.10	3/4	2,513.71	3/4	2,226.32	3/4	1,938.93	3/4	1,651.54
2		2	3,937.24	2	3,657.28	2	3,369.89	2	3,082.50	2	2,795.11	2	2,507.72	2	2,220.33	2	1,932.94	2	1,645.55
1/4		1/4	3,933.50	1/4	3,651.30	1/4	3,363.91	1/4	3,076.52	1/4	2,789.13	1/4	2,501.73	1/4	2,214.34	1/4	1,926.95	1/4	1,639.56
1/2		1/2	3,929.76	1/2	3,645.31	1/2	3,357.92	1/2	3,070.53	1/2	2,783.14	1/2	2,495.75	1/2	2,208.36	1/2	1,920.97	1/2	1,633.58
3/4		3/4	3,924.51	3/4	3,639.32	3/4	3,351.93	3/4	3,064.54	3/4	2,777.15	3/4	2,489.76	3/4	2,202.37	3/4	1,914.98	3/4	1,627.59
3		3	3,919.25	3	3,633.33	3	3,345.94	3	3,058.55	3	2,771.16	3	2,483.77	3	2,196.38	3	1,908.99	3	1,621.60
1/4		1/4	3,914.00	1/4	3,627.35	1/4	3,339.96	1/4	3,052.57	1/4	2,765.18	1/4	2,477.79	1/4	2,190.40	1/4	1,903.00	1/4	1,615.61
1/2		1/2	3,908.75	1/2	3,621.36	1/2	3,333.97	1/2	3,046.58	1/2	2,759.19	1/2	2,471.80	1/2	2,184.41	1/2	1,897.02	1/2	1,609.63
3/4		3/4	3,902.76	3/4	3,615.37	3/4	3,327.98	3/4	3,040.59	3/4	2,753.20	3/4	2,465.81	3/4	2,178.42	3/4	1,891.03	3/4	1,603.64
4		4	3,896.78	4	3,609.39	4	3,322.00	4	3,034.60	4	2,747.21	4	2,459.82	4	2,172.43	4	1,885.04	4	1,597.65
1/4		1/4	3,890.79	1/4	3,603.40	1/4	3,316.01	1/4	3,028.62	1/4	2,741.23	1/4	2,453.84	1/4	2,166.45	1/4	1,879.06	1/4	1,591.67
1/2		1/2	3,884.80	1/2	3,597.41	1/2	3,310.02	1/2	3,022.63	1/2	2,735.24	1/2	2,447.85	1/2	2,160.46	1/2	1,873.07	1/2	1,585.68
3/4		3/4	3,878.81	3/4	3,591.42	3/4	3,304.03	3/4	3,016.64	3/4	2,729.25	3/4	2,441.86	3/4	2,154.47	3/4	1,867.08	3/4	1,579.69
5		5	3,872.83	5	3,585.44	5	3,298.05	5	3,010.66	5	2,723.27	5	2,435.87	5	2,148.48	5	1,861.09	5	1,573.70
1/4		1/4	3,866.84	1/4	3,579.45	1/4	3,292.06	1/4	3,004.67	1/4	2,717.28	1/4	2,429.89	1/4	2,142.50	1/4	1,855.11	1/4	1,567.72
1/2		1/2	3,860.85	1/2	3,573.46	1/2	3,286.07	1/2	2,998.68	1/2	2,711.29	1/2	2,423.90	1/2	2,136.51	1/2	1,849.12	1/2	1,561.73
3/4		3/4	3,854.86	3/4	3,567.47	3/4	3,280.08	3/4	2,992.69	3/4	2,705.30	3/4	2,417.91	3/4	2,130.52	3/4	1,843.13	3/4	1,555.74
6		6	3,848.88	6	3,561.49	6	3,274.10	6	2,986.71	6	2,699.32	6	2,411.93	6	2,124.54	6	1,837.14	6	1,549.75
1/4		1/4	3,842.89	1/4	3,555.50	1/4	3,268.11	1/4	2,980.72	1/4	2,693.33	1/4	2,405.94	1/4	2,118.55	1/4	1,831.16	1/4	1,543.77
1/2		1/2	3,836.90	1/2	3,549.51	1/2	3,262.12	1/2	2,974.73	1/2	2,687.34	1/2	2,399.95	1/2	2,112.56	1/2	1,825.17	1/2	1,537.78
3/4		3/4	3,830.92	3/4	3,543.53	3/4	3,256.13	3/4	2,968.74	3/4	2,681.35	3/4	2,393.96	3/4	2,106.57	3/4	1,819.18	3/4	1,531.79
7		7	3,824.93	7	3,537.54	7	3,250.15	7	2,962.76	7	2,675.37	7	2,387.98	7	2,100.59	7	1,813.20	7	1,525.81
1/4		1/4	3,818.94	1/4	3,531.55	1/4	3,244.16	1/4	2,956.77	1/4	2,669.38	1/4	2,381.99	1/4	2,094.60	1/4	1,807.21	1/4	1,519.82
1/2		1/2	3,812.95	1/2	3,525.56	1/2	3,238.17	1/2	2,950.78	1/2	2,663.39	1/2	2,376.00	1/2	2,088.61	1/2	1,801.22	1/2	1,513.83
3/4		3/4	3,806.97	3/4	3,519.58	3/4	3,232.19	3/4	2,944.80	3/4	2,657.40	3/4	2,370.01	3/4	2,082.62	3/4	1,795.23	3/4	1,507.84
8		8	3,800.98	8	3,513.59	8	3,226.20	8	2,938.81	8	2,651.42	8	2,364.03	8	2,076.64	8	1,789.25	8	1,501.86
1/4		1/4	3,794.99	1/4	3,507.60	1/4	3,220.21	1/4	2,932.82	1/4	2,645.43	1/4	2,358.04	1/4	2,070.65	1/4	1,783.26	1/4	1,495.87
1/2		1/2	3,789.00	1/2	3,501.61	1/2	3,214.22	1/2	2,926.83	1/2	2,639.44	1/2	2,352.05	1/2	2,064.66	1/2	1,777.27	1/2	1,489.88
3/4		3/4	3,783.02	3/4	3,495.63	3/4	3,208.24	3/4	2,920.85	3/4	2,633.46	3/4	2,346.07	3/4	2,058.67	3/4	1,771.28	3/4	1,483.89
9		9	3,777.03	9	3,489.64	9	3,202.25	9	2,914.86	9	2,627.47	9	2,340.08	9	2,052.69	9	1,765.30	9	1,477.91
1/4		1/4	3,771.04	1/4	3,483.65	1/4	3,196.26	1/4	2,908.87	1/4	2,621.48	1/4	2,334.09	1/4	2,046.70	1/4	1,759.31	1/4	1,471.92
1/2		1/2	3,765.06	1/2	3,477.66	1/2	3,190.27	1/2	2,902.88	1/2	2,615.49	1/2	2,328.10	1/2	2,040.71	1/2	1,753.32	1/2	1,465.93
3/4		3/4	3,759.07	3/4	3,471.68	3/4	3,184.29	3/4	2,896.90	3/4	2,609.51	3/4	2,322.12	3/4	2,034.73	3/4	1,747.34	3/4	1,459.94
10		10	3,753.08	10	3,465.69	10	3,178.30	10	2,890.91	10	2,603.52	10	2,316.13	10	2,028.74	10	1,741.35	10	1,453.96
1/4		1/4	3,747.09	1/4	3,459.70	1/4	3,172.31	1/4	2,884.92	1/4	2,597.53	1/4	2,310.14	1/4	2,022.75	1/4	1,735.36	1/4	1,447.97
1/2		1/2	3,741.11	1/2	3,453.72	1/2	3,166.33	1/2	2,878.93	1/2	2,591.54	1/2	2,304.15	1/2	2,016.76	1/2	1,729.37	1/2	1,441.98
3/4		3/4	3,735.12	3/4	3,447.73	3/4	3,160.34	3/4	2,872.95	3/4	2,585.56	3/4	2,298.17	3/4	2,010.78	3/4	1,723.39	3/4	1,436.00
11		11	3,729.13	11	3,441.74	11	3,154.35	11	2,866.96	11	2,579.57	11	2,292.18	11	2,004.79	11	1,717.40	11	1,430.01
1/4		1/4	3,723.14	1/4	3,435.75	1/4	3,148.36	1/4	2,860.97	1/4	2,573.58	1/4	2,286.19	1/4	1,998.80	1/4	1,711.41	1/4	1,424.02
1/2		1/2	3,956.69	1/2	3,717.16	1/2	3,429.77	1/2	3,142.38	1/2	2,854.99	1/2	2,567.60	1/2	2,280.20	1/2	1,992.81	1/2	1,705.42
3/4		3/4	3,955.94	3/4	3,711.17	3/4	3,423.78	3/4	3,136.39	3/4	2,849.00	3/4	2,561.61	3/4	2,274.22	3/4	1,986.83	3/4	1,700.00

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 ON CENTERLINE AND 28'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 100"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 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	1,406.06	0	1,118.67	0	831.28	0	549.42	0	263.92	0	3.04	0		0		0		0	
1/4	1,400.07	1/4	1,112.68	1/4	825.29	1/4	543.62	1/4	257.93	1/4	2.04	1/4		1/4		1/4		1/4	
1/2	1,394.08	1/2	1,106.69	1/2	819.30	1/2	537.82	1/2	251.95	1/2	1.04	1/2		1/2		1/2		1/2	
3/4	1,388.10	3/4	1,100.71	3/4	813.32	3/4	532.02	3/4	245.97	3/4		3/4		3/4		3/4		3/4	
1	1,382.11	1	1,094.72	1	807.33	1	526.22	1	239.98	1		1		1		1		1	
1/4	1,376.12	1/4	1,088.73	1/4	801.34	1/4	520.42	1/4	234.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,370.14	1/2	1,082.74	1/2	795.35	1/2	514.61	1/2	228.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,364.15	3/4	1,076.76	3/4	789.37	3/4	508.81	3/4	222.03	3/4		3/4		3/4		3/4		3/4	
2	1,358.16	2	1,070.77	2	783.38	2	503.01	2	216.05	2		2		2		2		2	
1/4	1,352.17	1/4	1,064.78	1/4	777.39	1/4	497.21	1/4	210.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,346.19	1/2	1,058.80	1/2	771.41	1/2	491.41	1/2	204.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,340.20	3/4	1,052.81	3/4	765.42	3/4	485.43	3/4	198.09	3/4		3/4		3/4		3/4		3/4	
3	1,334.21	3	1,046.82	3	759.43	3	479.44	3	192.11	3		3		3		3		3	
1/4	1,328.22	1/4	1,040.83	1/4	753.44	1/4	473.45	1/4	186.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,322.24	1/2	1,034.85	1/2	747.46	1/2	467.47	1/2	180.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,316.25	3/4	1,028.86	3/4	741.47	3/4	461.48	3/4	174.16	3/4		3/4		3/4		3/4		3/4	
4	1,310.26	4	1,022.87	4	735.48	4	455.49	4	168.17	4		4		4		4		4	
1/4	1,304.27	1/4	1,016.88	1/4	729.49	1/4	449.50	1/4	162.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,298.29	1/2	1,010.90	1/2	723.51	1/2	443.52	1/2	156.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,292.30	3/4	1,004.91	3/4	717.52	3/4	437.53	3/4	150.22	3/4		3/4		3/4		3/4		3/4	
5	1,286.31	5	998.92	5	711.53	5	431.54	5	144.24	5		5		5		5		5	
1/4	1,280.33	1/4	992.94	1/4	706.07	1/4	425.55	1/4	138.25	1/4		1/4		1/4		1/4		1/4	
1/2	1,274.34	1/2	986.95	1/2	700.26	1/2	419.57	1/2	132.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,268.35	3/4	980.96	3/4	694.45	3/4	413.58	3/4	126.29	3/4		3/4		3/4		3/4		3/4	
6	1,262.36	6	974.97	6	688.64	6	407.59	6	120.30	6		6		6		6		6	
1/4	1,256.38	1/4	968.99	1/4	682.83	1/4	401.61	1/4	114.32	1/4		1/4		1/4		1/4		1/4	
1/2	1,250.39	1/2	963.00	1/2	677.02	1/2	395.62	1/2	108.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,244.40	3/4	957.01	3/4	671.22	3/4	389.63	3/4	102.36	3/4		3/4		3/4		3/4		3/4	
7	1,238.41	7	951.02	7	665.42	7	383.64	7	96.38	7		7		7		7		7	
1/4	1,232.43	1/4	945.04	1/4	659.62	1/4	377.66	1/4	90.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,226.44	1/2	939.05	1/2	653.82	1/2	371.67	1/2	84.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,220.45	3/4	933.06	3/4	648.02	3/4	365.68	3/4	78.47	3/4		3/4		3/4		3/4		3/4	
8	1,214.47	8	927.08	8	642.22	8	359.70	8	72.52	8		8		8		8		8	
1/4	1,208.48	1/4	921.09	1/4	636.42	1/4	353.71	1/4	66.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,202.49	1/2	915.10	1/2	630.62	1/2	347.72	1/2	60.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,196.50	3/4	909.11	3/4	624.82	3/4	341.73	3/4	54.69	3/4		3/4		3/4		3/4		3/4	
9	1,190.52	9	903.13	9	619.02	9	335.75	9	48.78	9		9		9		9		9	
1/4	1,184.53	1/4	897.14	1/4	613.22	1/4	329.76	1/4	42.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,178.54	1/2	891.15	1/2	607.42	1/2	323.77	1/2	36.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,172.55	3/4	885.16	3/4	601.62	3/4	317.79	3/4	31.97	3/4		3/4		3/4		3/4		3/4	
10	1,166.57	10	879.18	10	595.82	10	311.80	10	26.98	10		10		10		10		10	
1/4	1,160.58	1/4	873.19	1/4	590.02	1/4	305.81	1/4	22.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,154.59	1/2	867.20	1/2	584.22	1/2	299.82	1/2	17.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,148.61	3/4	861.21	3/4	578.42	3/4	293.84	3/4	14.02	3/4		3/4		3/4		3/4		3/4	
11	1,142.62	11	855.23	11	572.62	11	287.86	11	11.02	11		11		11		11		11	
1/4	1,136.63	1/4	849.24	1/4	566.82	1/4	281.87	1/4	8.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,130.64	1/2	843.25	1/2	561.02	1/2	275.89	1/2	5.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,124.66	3/4	837.27	3/4	555.22	3/4	269.90	3/4	4.04	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 SW
CALCULATED: 05/15/2015 CL
PRINTED: 05/19/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

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



BARGE "E2MS 100"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	3,498.01	0	3,282.04	0	3,028.36	0	2,774.69	0	2,521.01	0	2,267.34	0	2,013.66	0	1,759.99	0	1,506.31
1/4		1/4	3,497.35	1/4	3,276.75	1/4	3,023.08	1/4	2,769.40	1/4	2,515.73	1/4	2,262.05	1/4	2,008.38	1/4	1,754.70	1/4	1,501.03
1/2		1/2	3,496.69	1/2	3,271.47	1/2	3,017.79	1/2	2,764.12	1/2	2,510.44	1/2	2,256.77	1/2	2,003.09	1/2	1,749.42	1/2	1,495.74
3/4		3/4	3,496.03	3/4	3,266.18	3/4	3,012.51	3/4	2,758.83	3/4	2,505.16	3/4	2,251.48	3/4	1,997.81	3/4	1,744.13	3/4	1,490.46
1		1	3,494.05	1	3,260.90	1	3,007.22	1	2,753.55	1	2,499.87	1	2,246.20	1	1,992.52	1	1,738.85	1	1,485.17
1/4		1/4	3,492.07	1/4	3,255.61	1/4	3,001.94	1/4	2,748.26	1/4	2,494.59	1/4	2,240.91	1/4	1,987.24	1/4	1,733.56	1/4	1,479.89
1/2		1/2	3,490.09	1/2	3,250.33	1/2	2,996.65	1/2	2,742.98	1/2	2,489.30	1/2	2,235.63	1/2	1,981.95	1/2	1,728.28	1/2	1,474.60
3/4		3/4	3,488.11	3/4	3,245.04	3/4	2,991.37	3/4	2,737.69	3/4	2,484.02	3/4	2,230.34	3/4	1,976.67	3/4	1,722.99	3/4	1,469.32
2		2	3,484.81	2	3,239.76	2	2,986.08	2	2,732.41	2	2,478.73	2	2,225.06	2	1,971.38	2	1,717.71	2	1,464.03
1/4		1/4	3,481.50	1/4	3,234.47	1/4	2,980.80	1/4	2,727.12	1/4	2,473.45	1/4	2,219.77	1/4	1,966.10	1/4	1,712.42	1/4	1,458.75
1/2		1/2	3,478.20	1/2	3,229.19	1/2	2,975.51	1/2	2,721.84	1/2	2,468.16	1/2	2,214.49	1/2	1,960.81	1/2	1,707.14	1/2	1,453.46
3/4		3/4	3,474.90	3/4	3,223.90	3/4	2,970.23	3/4	2,716.55	3/4	2,462.88	3/4	2,209.20	3/4	1,955.53	3/4	1,701.85	3/4	1,448.18
3		3	3,470.28	3	3,218.62	3	2,964.94	3	2,711.27	3	2,457.59	3	2,203.92	3	1,950.24	3	1,696.57	3	1,442.89
1/4		1/4	3,465.67	1/4	3,213.33	1/4	2,959.66	1/4	2,705.98	1/4	2,452.31	1/4	2,198.63	1/4	1,944.96	1/4	1,691.28	1/4	1,437.61
1/2		1/2	3,461.05	1/2	3,208.05	1/2	2,954.37	1/2	2,700.70	1/2	2,447.02	1/2	2,193.35	1/2	1,939.67	1/2	1,686.00	1/2	1,432.32
3/4		3/4	3,456.44	3/4	3,202.77	3/4	2,949.09	3/4	2,695.41	3/4	2,441.74	3/4	2,188.06	3/4	1,934.39	3/4	1,680.71	3/4	1,427.04
4		4	3,451.16	4	3,197.48	4	2,943.81	4	2,690.13	4	2,436.45	4	2,182.78	4	1,929.10	4	1,675.43	4	1,421.75
1/4		1/4	3,445.87	1/4	3,192.20	1/4	2,938.52	1/4	2,684.84	1/4	2,431.17	1/4	2,177.49	1/4	1,923.82	1/4	1,670.14	1/4	1,416.47
1/2		1/2	3,440.59	1/2	3,186.91	1/2	2,933.24	1/2	2,679.56	1/2	2,425.88	1/2	2,172.21	1/2	1,918.53	1/2	1,664.86	1/2	1,411.18
3/4		3/4	3,435.30	3/4	3,181.63	3/4	2,927.95	3/4	2,674.28	3/4	2,420.60	3/4	2,166.92	3/4	1,913.25	3/4	1,659.57	3/4	1,405.90
5		5	3,430.02	5	3,176.34	5	2,922.67	5	2,668.99	5	2,415.32	5	2,161.64	5	1,907.96	5	1,654.29	5	1,400.61
1/4		1/4	3,424.73	1/4	3,171.06	1/4	2,917.38	1/4	2,663.71	1/4	2,410.03	1/4	2,156.35	1/4	1,902.68	1/4	1,649.00	1/4	1,395.33
1/2		1/2	3,419.45	1/2	3,165.77	1/2	2,912.10	1/2	2,658.42	1/2	2,404.75	1/2	2,151.07	1/2	1,897.39	1/2	1,643.72	1/2	1,390.04
3/4		3/4	3,414.16	3/4	3,160.49	3/4	2,906.81	3/4	2,653.14	3/4	2,399.46	3/4	2,145.79	3/4	1,892.11	3/4	1,638.43	3/4	1,384.76
6		6	3,408.88	6	3,155.20	6	2,901.53	6	2,647.85	6	2,394.18	6	2,140.50	6	1,886.83	6	1,633.15	6	1,379.47
1/4		1/4	3,403.59	1/4	3,149.92	1/4	2,896.24	1/4	2,642.57	1/4	2,388.89	1/4	2,135.22	1/4	1,881.54	1/4	1,627.86	1/4	1,374.19
1/2		1/2	3,398.31	1/2	3,144.63	1/2	2,890.96	1/2	2,637.28	1/2	2,383.61	1/2	2,129.93	1/2	1,876.26	1/2	1,622.58	1/2	1,368.90
3/4		3/4	3,393.02	3/4	3,139.35	3/4	2,885.67	3/4	2,632.00	3/4	2,378.32	3/4	2,124.65	3/4	1,870.97	3/4	1,617.30	3/4	1,363.62
7		7	3,387.74	7	3,134.06	7	2,880.39	7	2,626.71	7	2,373.04	7	2,119.36	7	1,865.69	7	1,612.01	7	1,358.34
1/4		1/4	3,382.45	1/4	3,128.78	1/4	2,875.10	1/4	2,621.43	1/4	2,367.75	1/4	2,114.08	1/4	1,860.40	1/4	1,606.73	1/4	1,353.05
1/2		1/2	3,377.17	1/2	3,123.49	1/2	2,869.82	1/2	2,616.14	1/2	2,362.47	1/2	2,108.79	1/2	1,855.12	1/2	1,601.44	1/2	1,347.77
3/4		3/4	3,371.88	3/4	3,118.21	3/4	2,864.53	3/4	2,610.86	3/4	2,357.18	3/4	2,103.51	3/4	1,849.83	3/4	1,596.16	3/4	1,342.48
8		8	3,366.60	8	3,112.92	8	2,859.25	8	2,605.57	8	2,351.90	8	2,098.22	8	1,844.55	8	1,590.87	8	1,337.20
1/4		1/4	3,361.31	1/4	3,107.64	1/4	2,853.96	1/4	2,600.29	1/4	2,346.61	1/4	2,092.94	1/4	1,839.26	1/4	1,585.59	1/4	1,331.91
1/2		1/2	3,356.03	1/2	3,102.35	1/2	2,848.68	1/2	2,595.00	1/2	2,341.33	1/2	2,087.65	1/2	1,833.98	1/2	1,580.30	1/2	1,326.63
3/4		3/4	3,350.74	3/4	3,097.07	3/4	2,843.39	3/4	2,589.72	3/4	2,336.04	3/4	2,082.37	3/4	1,828.69	3/4	1,575.02	3/4	1,321.34
9		9	3,345.46	9	3,091.78	9	2,838.11	9	2,584.43	9	2,330.76	9	2,077.08	9	1,823.41	9	1,569.73	9	1,316.06
1/4		1/4	3,340.17	1/4	3,086.50	1/4	2,832.82	1/4	2,579.15	1/4	2,325.47	1/4	2,071.80	1/4	1,818.12	1/4	1,564.45	1/4	1,310.77
1/2		1/2	3,334.89	1/2	3,081.21	1/2	2,827.54	1/2	2,573.86	1/2	2,320.19	1/2	2,066.51	1/2	1,812.84	1/2	1,559.16	1/2	1,305.49
3/4		3/4	3,329.60	3/4	3,075.93	3/4	2,822.25	3/4	2,568.58	3/4	2,314.90	3/4	2,061.23	3/4	1,807.55	3/4	1,553.88	3/4	1,300.20
10		10	3,324.32	10	3,070.64	10	2,816.97	10	2,563.29	10	2,309.62	10	2,055.94	10	1,802.27	10	1,548.59	10	1,294.92
1/4		1/4	3,319.03	1/4	3,065.36	1/4	2,811.68	1/4	2,558.01	1/4	2,304.33	1/4	2,050.66	1/4	1,796.98	1/4	1,543.31	1/4	1,289.63
1/2		1/2	3,313.75	1/2	3,060.07	1/2	2,806.40	1/2	2,552.72	1/2	2,299.05	1/2	2,045.37	1/2	1,791.70	1/2	1,538.02	1/2	1,284.35
3/4		3/4	3,308.46	3/4	3,054.79	3/4	2,801.11	3/4	2,547.44	3/4	2,293.76	3/4	2,040.09	3/4	1,786.41	3/4	1,532.74	3/4	1,279.06
11		11	3,303.18	11	3,049.50	11	2,795.83	11	2,542.15	11	2,288.48	11	2,034.80	11	1,781.13	11	1,527.45	11	1,273.78
1/4		1/4	3,297.89	1/4	3,044.22	1/4	2,790.54	1/4	2,536.87	1/4	2,283.19	1/4	2,029.52	1/4	1,775.84	1/4	1,522.17	1/4	1,268.49
1/2		1/2	3,292.61	1/2	3,038.93	1/2	2,785.26	1/2	2,531.58	1/2	2,277.91	1/2	2,024.23	1/2	1,770.56	1/2	1,516.88	1/2	1,263.21
3/4		3/4	3,287.32	3/4	3,033.65	3/4	2,779.97	3/4	2,526.30	3/4	2,272.62	3/4	2,018.95	3/4	1,765.27	3/4	1,511.60	3/4	1,257.92

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 ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "E2MS 100"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-0 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,252.64	0	998.96	0	745.29	0	491.88	0	238.35	0	3.68	0		0		0		0	
1/4	1,247.35	1/4	993.68	1/4	740.00	1/4	486.61	1/4	233.06	1/4	2.80	1/4		1/4		1/4		1/4	
1/2	1,242.07	1/2	988.39	1/2	734.72	1/2	481.33	1/2	227.78	1/2	1.92	1/2		1/2		1/2		1/2	
3/4	1,236.78	3/4	983.11	3/4	729.43	3/4	476.06	3/4	222.50	3/4	1.04	3/4		3/4		3/4		3/4	
1	1,231.50	1	977.82	1	724.15	1	470.78	1	217.22	1		1		1		1		1	
1/4	1,226.21	1/4	972.54	1/4	718.86	1/4	465.51	1/4	211.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,220.93	1/2	967.25	1/2	713.58	1/2	460.23	1/2	206.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,215.64	3/4	961.97	3/4	708.29	3/4	454.96	3/4	201.37	3/4		3/4		3/4		3/4		3/4	
2	1,210.36	2	956.68	2	703.01	2	449.68	2	196.09	2		2		2		2		2	
1/4	1,205.07	1/4	951.40	1/4	697.72	1/4	444.41	1/4	190.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,199.79	1/2	946.11	1/2	692.44	1/2	439.13	1/2	185.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,194.50	3/4	940.83	3/4	687.15	3/4	433.86	3/4	180.25	3/4		3/4		3/4		3/4		3/4	
3	1,189.22	3	935.54	3	681.87	3	428.57	3	174.97	3		3		3		3		3	
1/4	1,183.93	1/4	930.26	1/4	676.58	1/4	423.29	1/4	169.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,178.65	1/2	924.97	1/2	671.30	1/2	418.00	1/2	164.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,173.36	3/4	919.69	3/4	666.01	3/4	412.72	3/4	159.12	3/4		3/4		3/4		3/4		3/4	
4	1,168.08	4	914.40	4	660.73	4	407.44	4	153.84	4		4		4		4		4	
1/4	1,162.79	1/4	909.12	1/4	655.44	1/4	402.15	1/4	148.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,157.51	1/2	903.83	1/2	650.16	1/2	396.87	1/2	143.28	1/2		1/2		1/2		1/2		1/2	
3/4	1,152.22	3/4	898.55	3/4	644.87	3/4	391.58	3/4	137.99	3/4		3/4		3/4		3/4		3/4	
5	1,146.94	5	893.26	5	639.60	5	386.30	5	132.71	5		5		5		5		5	
1/4	1,141.65	1/4	887.98	1/4	634.32	1/4	381.01	1/4	127.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,136.37	1/2	882.69	1/2	629.04	1/2	375.73	1/2	122.15	1/2		1/2		1/2		1/2		1/2	
3/4	1,131.08	3/4	877.41	3/4	623.76	3/4	370.44	3/4	116.87	3/4		3/4		3/4		3/4		3/4	
6	1,125.80	6	872.12	6	618.49	6	365.16	6	111.59	6		6		6		6		6	
1/4	1,120.51	1/4	866.84	1/4	613.21	1/4	359.88	1/4	106.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,115.23	1/2	861.55	1/2	607.93	1/2	354.59	1/2	101.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,109.94	3/4	856.27	3/4	602.65	3/4	349.31	3/4	95.74	3/4		3/4		3/4		3/4		3/4	
7	1,104.66	7	850.98	7	597.38	7	344.02	7	90.47	7		7		7		7		7	
1/4	1,099.37	1/4	845.70	1/4	592.10	1/4	338.74	1/4	85.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,094.09	1/2	840.41	1/2	586.83	1/2	333.45	1/2	79.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,088.81	3/4	835.13	3/4	581.55	3/4	328.17	3/4	74.64	3/4		3/4		3/4		3/4		3/4	
8	1,083.52	8	829.85	8	576.28	8	322.88	8	69.39	8		8		8		8		8	
1/4	1,078.24	1/4	824.56	1/4	571.00	1/4	317.60	1/4	64.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,072.95	1/2	819.28	1/2	565.73	1/2	312.31	1/2	58.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,067.67	3/4	813.99	3/4	560.45	3/4	307.03	3/4	53.61	3/4		3/4		3/4		3/4		3/4	
9	1,062.38	9	808.71	9	555.18	9	301.75	9	48.40	9		9		9		9		9	
1/4	1,057.10	1/4	803.42	1/4	549.90	1/4	296.46	1/4	43.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,051.81	1/2	798.14	1/2	544.63	1/2	291.18	1/2	37.96	1/2		1/2		1/2		1/2		1/2	
3/4	1,046.53	3/4	792.85	3/4	539.35	3/4	285.89	3/4	32.74	3/4		3/4		3/4		3/4		3/4	
10	1,041.24	10	787.57	10	534.08	10	280.61	10	28.34	10		10		10		10		10	
1/4	1,035.96	1/4	782.28	1/4	528.80	1/4	275.32	1/4	23.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,030.67	1/2	777.00	1/2	523.53	1/2	270.04	1/2	19.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,025.39	3/4	771.71	3/4	518.26	3/4	264.75	3/4	15.14	3/4		3/4		3/4		3/4		3/4	
11	1,020.10	11	766.43	11	512.98	11	259.47	11	12.49	11		11		11		11		11	
1/4	1,014.82	1/4	761.14	1/4	507.71	1/4	254.19	1/4	9.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,009.53	1/2	755.86	1/2	502.43	1/2	248.91	1/2	7.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,004.25	3/4	750.57	3/4	497.16	3/4	243.63	3/4	4.56	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/15/2015 SW
CALCULATED: 05/15/2015 CL
PRINTED: 05/19/2015 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT
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