



BARGE "HSM 713"

ULLAGE TRIM TABLE

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

(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 PORT IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 240'-09"

March 19, 2019

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

<http://www.pmacorp.net>



BARGE "HSM 713"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-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	3,672.64	0	3,311.48	0	2,949.68	0	2,587.25	0	2,224.82	0	1,862.38	0	1,500.69	0	1,138.40	0	779.04
1/4	1/4	3,665.14	1/4	3,303.95	1/4	2,942.13	1/4	2,579.70	1/4	2,217.27	1/4	1,854.83	1/4	1,493.14	1/4	1,130.89	1/4	771.63	
1/2	1/2	3,657.64	1/2	3,296.41	1/2	2,934.58	1/2	2,572.15	1/2	2,209.72	1/2	1,847.28	1/2	1,485.59	1/2	1,123.37	1/2	764.22	
3/4	3/4	3,650.14	3/4	3,288.88	3/4	2,927.03	3/4	2,564.60	3/4	2,202.17	3/4	1,839.73	3/4	1,478.03	3/4	1,115.87	3/4	756.82	
1	1	3,642.64	1	3,281.34	1	2,919.48	1	2,557.05	1	2,194.61	1	1,832.18	1	1,470.48	1	1,108.37	1	749.41	
1/4	1/4	3,635.15	1/4	3,273.81	1/4	2,911.93	1/4	2,549.50	1/4	2,187.06	1/4	1,824.63	1/4	1,462.93	1/4	1,100.86	1/4	742.01	
1/2	1/2	3,627.65	1/2	3,266.27	1/2	2,904.38	1/2	2,541.95	1/2	2,179.51	1/2	1,817.08	1/2	1,455.38	1/2	1,093.36	1/2	734.60	
3/4	3/4	3,620.15	3/4	3,258.74	3/4	2,896.83	3/4	2,534.40	3/4	2,171.96	3/4	1,809.53	3/4	1,447.83	3/4	1,085.86	3/4	727.24	
2	2	3,612.65	2	3,251.20	2	2,889.28	2	2,526.85	2	2,164.41	2	1,801.98	2	1,440.28	2	1,078.36	2	719.89	
1/4	1/4	3,605.16	1/4	3,243.67	1/4	2,881.73	1/4	2,519.29	1/4	2,156.86	1/4	1,794.43	1/4	1,432.73	1/4	1,070.86	1/4	712.53	
1/2	1/2	3,597.66	1/2	3,236.13	1/2	2,874.18	1/2	2,511.74	1/2	2,149.31	1/2	1,786.88	1/2	1,425.17	1/2	1,063.37	1/2	705.17	
3/4	3/4	3,590.16	3/4	3,228.59	3/4	2,866.63	3/4	2,504.19	3/4	2,141.76	3/4	1,779.33	3/4	1,417.62	3/4	1,055.87	3/4	697.87	
3	3	3,582.66	3	3,221.06	3	2,859.08	3	2,496.64	3	2,134.21	3	1,771.78	3	1,410.07	3	1,048.38	3	690.57	
1/4	1/4	3,575.17	1/4	3,213.52	1/4	2,851.53	1/4	2,489.09	1/4	2,126.66	1/4	1,764.22	1/4	1,402.52	1/4	1,040.88	1/4	683.26	
1/2	1/2	3,567.67	1/2	3,205.99	1/2	2,843.97	1/2	2,481.54	1/2	2,119.11	1/2	1,756.67	1/2	1,394.97	1/2	1,033.39	1/2	675.96	
3/4	3/4	3,560.14	3/4	3,198.45	3/4	2,836.42	3/4	2,473.99	3/4	2,111.56	3/4	1,749.15	3/4	1,387.42	3/4	1,025.90	3/4	668.71	
4	4	3,552.61	4	3,190.92	4	2,828.87	4	2,466.44	4	2,104.01	4	1,741.63	4	1,379.87	4	1,018.40	4	661.47	
1/4	1/4	3,545.08	1/4	3,183.38	1/4	2,821.32	1/4	2,458.89	1/4	2,096.46	1/4	1,734.10	1/4	1,372.31	1/4	1,010.91	1/4	654.22	
1/2	1/2	3,537.55	1/2	3,175.85	1/2	2,813.77	1/2	2,451.34	1/2	2,088.90	1/2	1,726.58	1/2	1,364.76	1/2	1,003.42	1/2	646.97	
3/4	3/4	3,530.01	3/4	3,168.31	3/4	2,806.22	3/4	2,443.79	3/4	2,081.35	3/4	1,719.06	3/4	1,357.21	3/4	995.93	3/4	639.78	
5	5	3,522.48	5	3,160.77	5	2,798.67	5	2,436.24	5	2,073.80	5	1,711.54	5	1,349.66	5	988.44	5	632.59	
1/4	1/4	3,514.94	1/4	3,153.24	1/4	2,791.12	1/4	2,428.69	1/4	2,066.25	1/4	1,704.02	1/4	1,342.11	1/4	980.95	1/4	625.40	
1/2	1/2	3,507.41	1/2	3,145.70	1/2	2,783.57	1/2	2,421.14	1/2	2,058.70	1/2	1,696.50	1/2	1,334.56	1/2	973.46	1/2	618.20	
3/4	3/4	3,499.87	3/4	3,138.17	3/4	2,776.02	3/4	2,413.59	3/4	2,051.15	3/4	1,688.98	3/4	1,327.01	3/4	965.97	3/4	611.07	
6	3,819.72	6	3,492.34	6	3,130.63	6	2,768.47	6	2,406.03	6	2,043.60	6	1,681.46	6	1,319.45	6	958.48	6	603.94
1/4	3,815.72	1/4	3,484.80	1/4	3,123.10	1/4	2,760.92	1/4	2,398.48	1/4	2,036.05	1/4	1,673.94	1/4	1,311.90	1/4	950.99	1/4	596.80
1/2	3,811.71	1/2	3,477.27	1/2	3,115.56	1/2	2,753.37	1/2	2,390.93	1/2	2,028.50	1/2	1,666.42	1/2	1,304.35	1/2	943.50	1/2	589.67
3/4	3,806.95	3/4	3,469.73	3/4	3,108.03	3/4	2,745.82	3/4	2,383.38	3/4	2,020.95	3/4	1,658.90	3/4	1,296.80	3/4	936.01	3/4	582.73
7	3,802.19	7	3,462.19	7	3,100.49	7	2,738.27	7	2,375.83	7	2,013.40	7	1,651.39	7	1,289.25	7	928.52	7	575.79
1/4	3,797.43	1/4	3,454.66	1/4	3,092.96	1/4	2,730.71	1/4	2,368.28	1/4	2,005.85	1/4	1,643.87	1/4	1,281.70	1/4	921.03	1/4	568.85
1/2	3,792.67	1/2	3,447.12	1/2	3,085.42	1/2	2,723.16	1/2	2,360.73	1/2	1,998.30	1/2	1,636.35	1/2	1,274.15	1/2	913.54	1/2	561.91
3/4	3,787.16	3/4	3,439.59	3/4	3,077.88	3/4	2,715.61	3/4	2,353.18	3/4	1,990.75	3/4	1,628.83	3/4	1,266.60	3/4	906.05	3/4	555.19
8	3,781.64	8	3,432.05	8	3,070.35	8	2,708.06	8	2,345.63	8	1,983.20	8	1,621.31	8	1,259.04	8	898.56	8	548.46
1/4	3,776.13	1/4	3,424.52	1/4	3,062.81	1/4	2,700.51	1/4	2,338.08	1/4	1,975.64	1/4	1,613.79	1/4	1,251.49	1/4	891.08	1/4	541.73
1/2	3,770.61	1/2	3,416.98	1/2	3,055.28	1/2	2,692.96	1/2	2,330.53	1/2	1,968.09	1/2	1,606.27	1/2	1,243.94	1/2	883.59	1/2	535.01
3/4	3,764.34	3/4	3,409.45	3/4	3,047.74	3/4	2,685.41	3/4	2,322.98	3/4	1,960.54	3/4	1,598.75	3/4	1,236.39	3/4	876.10	3/4	528.36
9	3,758.07	9	3,401.91	9	3,040.21	9	2,677.86	9	2,315.43	9	1,952.99	9	1,591.23	9	1,228.84	9	868.61	9	521.70
1/4	3,751.80	1/4	3,394.38	1/4	3,032.67	1/4	2,670.31	1/4	2,307.88	1/4	1,945.44	1/4	1,583.71	1/4	1,221.29	1/4	861.12	1/4	515.05
1/2	3,745.53	1/2	3,386.84	1/2	3,025.14	1/2	2,662.76	1/2	2,300.32	1/2	1,937.89	1/2	1,576.19	1/2	1,213.74	1/2	853.63	1/2	508.40
3/4	3,738.51	3/4	3,379.30	3/4	3,017.60	3/4	2,655.21	3/4	2,292.77	3/4	1,930.34	3/4	1,568.64	3/4	1,206.18	3/4	846.14	3/4	501.80
10	3,731.48	10	3,371.77	10	3,010.06	10	2,647.66	10	2,285.22	10	1,922.79	10	1,561.09	10	1,198.63	10	838.66	10	495.21
1/4	3,724.46	1/4	3,364.23	1/4	3,002.53	1/4	2,640.11	1/4	2,277.67	1/4	1,915.24	1/4	1,553.55	1/4	1,191.08	1/4	831.17	1/4	488.61
1/2	3,717.43	1/2	3,356.70	1/2	2,994.99	1/2	2,632.56	1/2	2,270.12	1/2	1,907.69	1/2	1,546.00	1/2	1,183.53	1/2	823.68	1/2	482.01
3/4	3,709.98	3/4	3,349.16	3/4	2,987.44	3/4	2,625.00	3/4	2,262.57	3/4	1,900.14	3/4	1,538.45	3/4	1,176.01	3/4	816.22	3/4	475.47
11	3,702.53	11	3,341.63	11	2,979.89	11	2,617.45	11	2,255.02	11	1,892.59	11	1,530.89	11	1,168.49	11	808.77	11	468.93
1/4	3,695.08	1/4	3,334.09	1/4	2,972.34	1/4	2,609.90	1/4	2,247.47	1/4	1,885.04	1/4	1,523.34	1/4	1,160.96	1/4	801.31	1/4	462.39
1/2	3,687.63	1/2	3,326.56	1/2	2,964.79	1/2	2,602.35	1/2	2,239.92	1/2	1,877.49	1/2	1,515.79	1/2	1,153.44	1/2	793.85	1/2	455.85
3/4	3,680.13	3/4	3,319.02	3/4	2,957.24	3/4	2,594.80	3/4	2,232.37	3/4	1,869.93	3/4	1,508.24	3/4	1,145.92	3/4	786.44	3/4	449.36

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 UNDERSIDE OF DECK AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH
 GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HSM 713"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	442.87	0	133.74	0		0		0		0		0		0		0		0	
1/4	436.39	1/4	127.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	429.90	1/2	121.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	423.33	3/4	115.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	416.76	1	109.58	1		1		1		1		1		1		1		1	
1/4	410.19	1/4	103.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	403.62	1/2	97.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	396.94	3/4	91.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	390.27	2	86.23	2		2		2		2		2		2		2		2	
1/4	383.59	1/4	80.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	376.92	1/2	74.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	370.28	3/4	69.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	363.64	3	63.23	3		3		3		3		3		3		3		3	
1/4	357.00	1/4	57.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	350.36	1/2	51.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	343.78	3/4	46.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	337.19	4	41.56	4		4		4		4		4		4		4		4	
1/4	330.61	1/4	36.49	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	324.03	1/2	31.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	317.50	3/4	27.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	310.97	5	24.50	5		5		5		5		5		5		5		5	
1/4	304.44	1/4	21.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	297.91	1/2	17.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	284.97	6		6		6		6		6		6		6		6		6	
1/4	278.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	272.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	265.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	259.20	7		7		7		7		7		7		7		7		7	
1/4	252.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	246.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	240.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	233.67	8		8		8		8		8		8		8		8		8	
1/4	227.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	220.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	214.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	208.35	9		9		9		9		9		9		9		9		9	
1/4	202.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	195.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	189.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	183.26	10		10		10		10		10		10		10		10		10	
1/4	177.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	170.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	158.39	11		11		11		11		11		11		11		11		11	
1/4	152.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	146.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139.87	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019

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



BARGE "HSM 713"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-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	3,674.50	0	3,313.35	0	2,951.57	0	2,589.13	0	2,226.69	0	1,864.25	0	1,502.56	0	1,140.09	0	779.12
1/4	1/4	3,667.01	1/4	3,305.82	1/4	2,944.02	1/4	2,581.58	1/4	2,219.14	1/4	1,856.70	1/4	1,495.01	1/4	1,132.54	1/4	771.68	
1/2	1/2	3,659.51	1/2	3,298.28	1/2	2,936.47	1/2	2,574.03	1/2	2,211.59	1/2	1,849.15	1/2	1,487.45	1/2	1,124.99	1/2	764.24	
3/4	3/4	3,652.01	3/4	3,290.75	3/4	2,928.92	3/4	2,566.48	3/4	2,204.04	3/4	1,841.60	3/4	1,479.90	3/4	1,117.45	3/4	756.83	
1	1	3,644.51	1	3,283.21	1	2,921.37	1	2,558.93	1	2,196.49	1	1,834.05	1	1,472.35	1	1,109.92	1	749.42	
1/4	1/4	3,637.02	1/4	3,275.68	1/4	2,913.81	1/4	2,551.38	1/4	2,188.94	1/4	1,826.50	1/4	1,464.80	1/4	1,102.38	1/4	742.01	
1/2	1/2	3,629.52	1/2	3,268.14	1/2	2,906.26	1/2	2,543.83	1/2	2,181.39	1/2	1,818.95	1/2	1,457.25	1/2	1,094.85	1/2	734.60	
3/4	3/4	3,622.02	3/4	3,260.60	3/4	2,898.71	3/4	2,536.27	3/4	2,173.84	3/4	1,811.40	3/4	1,449.70	3/4	1,087.31	3/4	727.24	
2	2	3,614.52	2	3,253.07	2	2,891.16	2	2,528.72	2	2,166.29	2	1,803.85	2	1,442.15	2	1,079.78	2	719.89	
1/4	1/4	3,607.02	1/4	3,245.53	1/4	2,883.61	1/4	2,521.17	1/4	2,158.73	1/4	1,796.30	1/4	1,434.59	1/4	1,072.25	1/4	712.53	
1/2	1/2	3,599.53	1/2	3,238.00	1/2	2,876.06	1/2	2,513.62	1/2	2,151.18	1/2	1,788.75	1/2	1,427.04	1/2	1,064.72	1/2	705.17	
3/4	3/4	3,592.03	3/4	3,230.46	3/4	2,868.51	3/4	2,506.07	3/4	2,143.63	3/4	1,781.19	3/4	1,419.49	3/4	1,057.19	3/4	697.87	
3	3	3,584.53	3	3,222.93	3	2,860.96	3	2,498.52	3	2,136.08	3	1,773.64	3	1,411.94	3	1,049.66	3	690.57	
1/4	1/4	3,577.03	1/4	3,215.39	1/4	2,853.41	1/4	2,490.97	1/4	2,128.53	1/4	1,766.09	1/4	1,404.39	1/4	1,042.14	1/4	683.26	
1/2	1/2	3,569.54	1/2	3,207.86	1/2	2,845.86	1/2	2,483.42	1/2	2,120.98	1/2	1,758.54	1/2	1,396.84	1/2	1,034.61	1/2	675.96	
3/4	3/4	3,562.01	3/4	3,200.32	3/4	2,838.31	3/4	2,475.87	3/4	2,113.43	3/4	1,751.02	3/4	1,389.29	3/4	1,027.08	3/4	668.71	
4	4	3,554.48	4	3,192.79	4	2,830.76	4	2,468.32	4	2,105.88	4	1,743.50	4	1,381.73	4	1,019.55	4	661.47	
1/4	1/4	3,546.95	1/4	3,185.25	1/4	2,823.21	1/4	2,460.77	1/4	2,098.33	1/4	1,735.97	1/4	1,374.18	1/4	1,012.03	1/4	654.22	
1/2	1/2	3,539.42	1/2	3,177.71	1/2	2,815.65	1/2	2,453.22	1/2	2,090.78	1/2	1,728.45	1/2	1,366.63	1/2	1,004.50	1/2	646.97	
3/4	3/4	3,531.88	3/4	3,170.18	3/4	2,808.10	3/4	2,445.67	3/4	2,083.23	3/4	1,720.93	3/4	1,359.08	3/4	996.98	3/4	639.78	
5	5	3,524.35	5	3,162.64	5	2,800.55	5	2,438.11	5	2,075.68	5	1,713.41	5	1,351.53	5	989.46	5	632.59	
1/4	1/4	3,516.81	1/4	3,155.11	1/4	2,793.00	1/4	2,430.56	1/4	2,068.13	1/4	1,705.89	1/4	1,343.98	1/4	981.93	1/4	625.40	
1/2	1/2	3,509.28	1/2	3,147.57	1/2	2,785.45	1/2	2,423.01	1/2	2,060.57	1/2	1,698.37	1/2	1,336.43	1/2	974.41	1/2	618.20	
3/4	3/4	3,501.74	3/4	3,140.04	3/4	2,777.90	3/4	2,415.46	3/4	2,053.02	3/4	1,690.85	3/4	1,328.87	3/4	966.89	3/4	611.07	
6	3,821.59	6	3,494.21	6	3,132.50	6	2,770.35	6	2,407.91	6	2,045.47	6	1,683.33	6	1,321.32	6	959.36	6	603.94
1/4	3,817.59	1/4	3,486.67	1/4	3,124.97	1/4	2,762.80	1/4	2,400.36	1/4	2,037.92	1/4	1,675.81	1/4	1,313.77	1/4	951.84	1/4	596.80
1/2	3,813.58	1/2	3,479.13	1/2	3,117.43	1/2	2,755.25	1/2	2,392.81	1/2	2,030.37	1/2	1,668.29	1/2	1,306.22	1/2	944.32	1/2	589.67
3/4	3,808.82	3/4	3,471.60	3/4	3,109.89	3/4	2,747.70	3/4	2,385.26	3/4	2,022.82	3/4	1,660.77	3/4	1,298.67	3/4	936.80	3/4	582.73
7	3,804.06	7	3,464.06	7	3,102.36	7	2,740.15	7	2,377.71	7	2,015.27	7	1,653.25	7	1,291.12	7	929.27	7	575.79
1/4	3,799.30	1/4	3,456.53	1/4	3,094.82	1/4	2,732.60	1/4	2,370.16	1/4	2,007.72	1/4	1,645.73	1/4	1,283.57	1/4	921.75	1/4	568.85
1/2	3,794.54	1/2	3,448.99	1/2	3,087.29	1/2	2,725.04	1/2	2,362.61	1/2	2,000.17	1/2	1,638.21	1/2	1,276.01	1/2	914.23	1/2	561.91
3/4	3,789.03	3/4	3,441.46	3/4	3,079.75	3/4	2,717.49	3/4	2,355.06	3/4	1,992.62	3/4	1,630.69	3/4	1,268.46	3/4	906.71	3/4	555.19
8	3,783.51	8	3,433.92	8	3,072.22	8	2,709.94	8	2,347.50	8	1,985.07	8	1,623.18	8	1,260.91	8	899.18	8	548.46
1/4	3,778.00	1/4	3,426.39	1/4	3,064.68	1/4	2,702.39	1/4	2,339.95	1/4	1,977.52	1/4	1,615.66	1/4	1,253.36	1/4	891.66	1/4	541.73
1/2	3,772.48	1/2	3,418.85	1/2	3,057.15	1/2	2,694.84	1/2	2,332.40	1/2	1,969.96	1/2	1,608.14	1/2	1,245.81	1/2	884.14	1/2	535.01
3/4	3,766.21	3/4	3,411.31	3/4	3,049.61	3/4	2,687.29	3/4	2,324.85	3/4	1,962.41	3/4	1,600.62	3/4	1,238.26	3/4	876.61	3/4	528.36
9	3,759.94	9	3,403.78	9	3,042.08	9	2,679.74	9	2,317.30	9	1,954.86	9	1,593.10	9	1,230.71	9	869.09	9	521.70
1/4	3,753.67	1/4	3,396.24	1/4	3,034.54	1/4	2,672.19	1/4	2,309.75	1/4	1,947.31	1/4	1,585.58	1/4	1,223.16	1/4	861.57	1/4	515.05
1/2	3,747.40	1/2	3,388.71	1/2	3,027.00	1/2	2,664.64	1/2	2,302.20	1/2	1,939.76	1/2	1,578.06	1/2	1,215.60	1/2	854.05	1/2	508.40
3/4	3,740.37	3/4	3,381.17	3/4	3,019.47	3/4	2,657.09	3/4	2,294.65	3/4	1,932.21	3/4	1,570.51	3/4	1,208.05	3/4	846.53	3/4	501.80
10	3,733.35	10	3,373.64	10	3,011.93	10	2,649.54	10	2,287.10	10	1,924.66	10	1,562.96	10	1,200.50	10	839.01	10	495.21
1/4	3,726.33	1/4	3,366.10	1/4	3,004.40	1/4	2,641.99	1/4	2,279.55	1/4	1,917.11	1/4	1,555.41	1/4	1,192.95	1/4	831.49	1/4	488.61
1/2	3,719.30	1/2	3,358.57	1/2	2,996.86	1/2	2,634.44	1/2	2,272.00	1/2	1,909.56	1/2	1,547.87	1/2	1,185.40	1/2	823.97	1/2	482.01
3/4	3,711.85	3/4	3,351.03	3/4	2,989.31	3/4	2,626.88	3/4	2,264.45	3/4	1,902.01	3/4	1,540.31	3/4	1,177.85	3/4	816.47	3/4	475.47
11	3,704.40	11	3,343.50	11	2,981.77	11	2,619.33	11	2,256.90	11	1,894.46	11	1,532.76	11	1,170.30	11	808.98	11	468.93
1/4	3,696.95	1/4	3,335.96	1/4	2,974.22	1/4	2,611.78	1/4	2,249.34	1/4	1,886.91	1/4	1,525.21	1/4	1,162.74	1/4	801.49	1/4	462.39
1/2	3,689.50	1/2	3,328.42	1/2	2,966.67	1/2	2,604.23	1/2	2,241.79	1/2	1,879.36	1/2	1,517.66	1/2	1,155.19	1/2	794.00	1/2	455.85
3/4	3,682.00	3/4	3,320.89	3/4	2,959.12	3/4	2,596.68	3/4	2,234.24	3/4	1,871.80	3/4	1,510.11	3/4	1,147.64	3/4	786.56	3/4	449.36

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 UNDERSIDE OF DECK AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH
 GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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BARGE "HSM 713"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	442.87	0	133.74	0		0		0		0		0		0		0		0	
1/4	436.39	1/4	127.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	429.90	1/2	121.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	423.33	3/4	115.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	416.76	1	109.58	1		1		1		1		1		1		1		1	
1/4	410.19	1/4	103.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	403.62	1/2	97.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	396.94	3/4	91.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	390.27	2	86.23	2		2		2		2		2		2		2		2	
1/4	383.59	1/4	80.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	376.92	1/2	74.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	370.28	3/4	69.00	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	363.64	3	63.23	3		3		3		3		3		3		3		3	
1/4	357.00	1/4	57.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	350.36	1/2	51.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	343.78	3/4	46.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	337.19	4	41.56	4		4		4		4		4		4		4		4	
1/4	330.61	1/4	36.49	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	324.03	1/2	31.42	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	317.50	3/4	27.96	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	310.97	5	24.50	5		5		5		5		5		5		5		5	
1/4	304.44	1/4	21.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	297.91	1/2	17.58	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	284.97	6		6		6		6		6		6		6		6		6	
1/4	278.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	272.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	265.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	259.20	7		7		7		7		7		7		7		7		7	
1/4	252.79	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	246.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	240.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	233.67	8		8		8		8		8		8		8		8		8	
1/4	227.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	220.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	214.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	208.35	9		9		9		9		9		9		9		9		9	
1/4	202.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	195.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	189.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	183.26	10		10		10		10		10		10		10		10		10	
1/4	177.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	170.77	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164.58	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	158.39	11		11		11		11		11		11		11		11		11	
1/4	152.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	146.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139.87	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

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CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019



BARGE "HSM 713"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	3,729.51	0	3,371.90	0	3,013.62	0	2,654.69	0	2,295.76	0	1,936.83	0	1,581.89	0	1,224.43	0	882.64
1/4		1/4	3,722.08	1/4	3,364.44	1/4	3,006.14	1/4	2,647.21	1/4	2,288.28	1/4	1,929.36	1/4	1,574.41	1/4	1,217.28	1/4	875.52
1/2		1/2	3,714.66	1/2	3,356.97	1/2	2,998.67	1/2	2,639.74	1/2	2,280.81	1/2	1,921.88	1/2	1,566.94	1/2	1,210.14	1/2	868.41
3/4		3/4	3,707.23	3/4	3,349.51	3/4	2,991.19	3/4	2,632.26	3/4	2,273.33	3/4	1,914.40	3/4	1,559.46	3/4	1,202.99	3/4	861.29
1		1	3,699.81	1	3,342.05	1	2,983.71	1	2,624.78	1	2,265.85	1	1,906.92	1	1,551.98	1	1,195.86	1	853.86
1/4		1/4	3,692.38	1/4	3,334.59	1/4	2,976.23	1/4	2,617.30	1/4	2,258.37	1/4	1,899.44	1/4	1,544.50	1/4	1,188.73	1/4	846.43
1/2		1/2	3,684.96	1/2	3,327.12	1/2	2,968.76	1/2	2,609.83	1/2	2,250.90	1/2	1,891.97	1/2	1,537.02	1/2	1,181.61	1/2	838.99
3/4		3/4	3,677.53	3/4	3,319.66	3/4	2,961.28	3/4	2,602.35	3/4	2,243.42	3/4	1,884.49	3/4	1,529.54	3/4	1,174.48	3/4	831.56
2		2	3,670.11	2	3,312.20	2	2,953.80	2	2,594.87	2	2,235.94	2	1,877.01	2	1,522.06	2	1,167.35	2	824.08
1/4		1/4	3,662.68	1/4	3,304.74	1/4	2,946.32	1/4	2,587.39	1/4	2,228.46	1/4	1,869.53	1/4	1,514.59	1/4	1,160.22	1/4	816.60
1/2		1/2	3,655.26	1/2	3,297.27	1/2	2,938.84	1/2	2,579.92	1/2	2,220.99	1/2	1,862.06	1/2	1,507.11	1/2	1,153.10	1/2	809.13
3/4		3/4	3,647.84	3/4	3,289.81	3/4	2,931.37	3/4	2,572.44	3/4	2,213.51	3/4	1,854.58	3/4	1,499.63	3/4	1,145.97	3/4	801.65
3		3	3,640.41	3	3,282.35	3	2,923.89	3	2,564.96	3	2,206.03	3	1,847.10	3	1,492.15	3	1,138.85	3	794.17
1/4		1/4	3,632.99	1/4	3,274.89	1/4	2,916.41	1/4	2,557.48	1/4	2,198.55	1/4	1,839.62	1/4	1,484.67	1/4	1,131.73	1/4	786.69
1/2		1/2	3,625.56	1/2	3,267.42	1/2	2,908.93	1/2	2,550.00	1/2	2,191.07	1/2	1,832.15	1/2	1,477.19	1/2	1,124.61	1/2	779.21
3/4		3/4	3,618.14	3/4	3,259.96	3/4	2,901.46	3/4	2,542.53	3/4	2,183.60	3/4	1,824.67	3/4	1,469.71	3/4	1,117.49	3/4	771.73
4		4	3,610.68	4	3,252.50	4	2,893.98	4	2,535.05	4	2,176.12	4	1,817.34	4	1,462.24	4	1,110.37	4	764.26
1/4		1/4	3,603.22	1/4	3,245.04	1/4	2,886.50	1/4	2,527.57	1/4	2,168.64	1/4	1,810.00	1/4	1,454.76	1/4	1,103.25	1/4	756.78
1/2		1/2	3,595.76	1/2	3,237.57	1/2	2,879.02	1/2	2,520.09	1/2	2,161.16	1/2	1,802.67	1/2	1,447.28	1/2	1,096.13	1/2	749.30
3/4		3/4	3,588.31	3/4	3,230.11	3/4	2,871.55	3/4	2,512.62	3/4	2,153.69	3/4	1,795.34	3/4	1,439.80	3/4	1,089.01	3/4	741.82
5		5	3,580.84	5	3,222.65	5	2,864.07	5	2,505.14	5	2,146.21	5	1,788.03	5	1,432.32	5	1,081.89	5	734.34
1/4		1/4	3,573.38	1/4	3,215.19	1/4	2,856.59	1/4	2,497.66	1/4	2,138.73	1/4	1,780.72	1/4	1,424.84	1/4	1,074.78	1/4	726.87
1/2		1/2	3,565.92	1/2	3,207.72	1/2	2,849.11	1/2	2,490.18	1/2	2,131.25	1/2	1,773.41	1/2	1,417.37	1/2	1,067.66	1/2	719.39
3/4		3/4	3,558.46	3/4	3,200.26	3/4	2,841.63	3/4	2,482.70	3/4	2,123.78	3/4	1,766.09	3/4	1,409.89	3/4	1,060.54	3/4	711.91
6		6	3,551.00	6	3,192.80	6	2,834.16	6	2,475.23	6	2,116.30	6	1,758.78	6	1,402.41	6	1,053.43	6	704.43
1/4	3,867.74	1/4	3,543.53	1/4	3,185.34	1/4	2,826.68	1/4	2,467.75	1/4	2,108.82	1/4	1,751.47	1/4	1,394.93	1/4	1,046.31	1/4	696.96
1/2	3,863.78	1/2	3,536.07	1/2	3,177.88	1/2	2,819.20	1/2	2,460.27	1/2	2,101.34	1/2	1,744.16	1/2	1,387.45	1/2	1,039.19	1/2	689.48
3/4	3,859.81	3/4	3,528.61	3/4	3,170.41	3/4	2,811.72	3/4	2,452.79	3/4	2,093.86	3/4	1,736.85	3/4	1,379.97	3/4	1,032.08	3/4	682.01
7	3,855.10	7	3,521.15	7	3,162.95	7	2,804.25	7	2,445.32	7	2,086.39	7	1,729.54	7	1,372.49	7	1,024.96	7	674.67
1/4	3,850.39	1/4	3,513.68	1/4	3,155.49	1/4	2,796.77	1/4	2,437.84	1/4	2,078.91	1/4	1,722.23	1/4	1,365.02	1/4	1,017.85	1/4	667.34
1/2	3,845.67	1/2	3,506.22	1/2	3,148.03	1/2	2,789.29	1/2	2,430.36	1/2	2,071.43	1/2	1,714.91	1/2	1,357.54	1/2	1,010.73	1/2	660.00
3/4	3,840.96	3/4	3,498.76	3/4	3,140.56	3/4	2,781.81	3/4	2,422.88	3/4	2,063.95	3/4	1,707.60	3/4	1,350.06	3/4	1,003.61	3/4	652.67
8	3,835.50	8	3,491.30	8	3,133.10	8	2,774.34	8	2,415.41	8	2,056.48	8	1,700.29	8	1,342.58	8	996.50	8	645.49
1/4	3,830.04	1/4	3,483.83	1/4	3,125.64	1/4	2,766.86	1/4	2,407.93	1/4	2,049.00	1/4	1,692.98	1/4	1,335.10	1/4	989.38	1/4	638.31
1/2	3,824.57	1/2	3,476.37	1/2	3,118.18	1/2	2,759.38	1/2	2,400.45	1/2	2,041.52	1/2	1,685.67	1/2	1,327.62	1/2	982.27	1/2	631.13
3/4	3,819.11	3/4	3,468.91	3/4	3,110.71	3/4	2,751.90	3/4	2,392.97	3/4	2,034.04	3/4	1,678.36	3/4	1,320.14	3/4	975.15	3/4	623.96
9	3,812.90	9	3,461.45	9	3,103.25	9	2,744.42	9	2,385.49	9	2,026.57	9	1,671.05	9	1,312.67	9	968.03	9	616.80
1/4	3,806.69	1/4	3,453.98	1/4	3,095.79	1/4	2,736.95	1/4	2,378.02	1/4	2,019.09	1/4	1,663.74	1/4	1,305.19	1/4	960.92	1/4	609.64
1/2	3,800.49	1/2	3,446.52	1/2	3,088.33	1/2	2,729.47	1/2	2,370.54	1/2	2,011.61	1/2	1,656.42	1/2	1,297.71	1/2	953.80	1/2	602.48
3/4	3,794.28	3/4	3,439.06	3/4	3,080.86	3/4	2,721.99	3/4	2,363.06	3/4	2,004.13	3/4	1,649.11	3/4	1,290.23	3/4	946.68	3/4	595.32
10	3,787.32	10	3,431.60	10	3,073.40	10	2,714.51	10	2,355.58	10	1,996.65	10	1,641.66	10	1,282.75	10	939.57	10	588.16
1/4	3,780.36	1/4	3,424.13	1/4	3,065.94	1/4	2,707.04	1/4	2,348.11	1/4	1,989.18	1/4	1,634.20	1/4	1,275.27	1/4	932.45	1/4	581.01
1/2	3,773.40	1/2	3,416.67	1/2	3,058.48	1/2	2,699.56	1/2	2,340.63	1/2	1,981.70	1/2	1,626.74	1/2	1,267.80	1/2	925.34	1/2	573.85
3/4	3,766.44	3/4	3,409.21	3/4	3,051.01	3/4	2,692.08	3/4	2,333.15	3/4	1,974.22	3/4	1,619.28	3/4	1,260.32	3/4	918.22	3/4	566.69
11	3,759.06	11	3,401.75	11	3,043.54	11	2,684.60	11	2,325.67	11	1,966.74	11	1,611.81	11	1,253.13	11	911.10	11	559.53
1/4	3,751.69	1/4	3,394.28	1/4	3,036.06	1/4	2,677.13	1/4	2,318.20	1/4	1,959.27	1/4	1,604.33	1/4	1,245.94	1/4	903.99	1/4	552.37
1/2	3,744.31	1/2	3,386.82	1/2	3,028.58	1/2	2,669.65	1/2	2,310.72	1/2	1,951.79	1/2	1,596.85	1/2	1,238.76	1/2	896.87	1/2	545.21
3/4	3,736.93	3/4	3,379.36	3/4	3,021.10	3/4	2,662.17	3/4	2,303.24	3/4	1,944.31	3/4	1,589.37	3/4	1,231.57	3/4	889.76	3/4	538.05

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 UNDERSIDE OF DECK AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH
 GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "HSM 713"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	530.90	0	173.86	0		0		0		0		0		0		0		0	
1/4	523.74	1/4	166.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	516.58	1/2	158.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	509.42	3/4	151.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	502.12	1	144.11	1		1		1		1		1		1		1		1	
1/4	494.82	1/4	136.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.53	1/2	129.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	480.23	3/4	122.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	472.77	2	114.92	2		2		2		2		2		2		2		2	
1/4	465.31	1/4	107.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	457.85	1/2	100.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	450.39	3/4	93.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	442.92	3	86.13	3		3		3		3		3		3		3		3	
1/4	435.44	1/4	78.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	427.96	1/2	71.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	420.48	3/4	64.32	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	413.00	4	57.68	4		4		4		4		4		4		4		4	
1/4	405.53	1/4	51.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	398.05	1/2	44.41	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	390.57	3/4	37.78	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	383.09	5	32.87	5		5		5		5		5		5		5		5	
1/4	375.61	1/4	27.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368.14	1/2	23.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	360.66	3/4	18.15	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	353.18	6	=====	6		6		6		6		6		6		6		6	
1/4	345.71	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	338.23	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	330.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	323.28	7		7		7		7		7		7		7		7		7	
1/4	315.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	308.34	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	300.87	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	293.40	8		8		8		8		8		8		8		8		8	
1/4	285.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	278.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	270.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	263.51	9		9		9		9		9		9		9		9		9	
1/4	256.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	248.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	241.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	233.63	10		10		10		10		10		10		10		10		10	
1/4	226.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	218.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	211.21	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	203.74	11		11		11		11		11		11		11		11		11	
1/4	196.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	188.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	181.33	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019

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



BARGE "HSM 713"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	3,748.18	0	3,390.57	0	3,032.30	0	2,673.37	0	2,314.44	0	1,955.51	0	1,600.56	0	1,241.60	0	883.81
1/4	1/4	3,740.76	1/4	3,383.11	1/4	3,024.82	1/4	2,665.89	1/4	2,306.96	1/4	1,948.03	1/4	1,593.08	1/4	1,234.12	1/4	876.36	
1/2	1/2	3,733.33	1/2	3,375.65	1/2	3,017.34	1/2	2,658.41	1/2	2,299.48	1/2	1,940.55	1/2	1,585.61	1/2	1,226.64	1/2	868.91	
3/4	3/4	3,725.91	3/4	3,368.19	3/4	3,009.86	3/4	2,650.93	3/4	2,292.00	3/4	1,933.07	3/4	1,578.13	3/4	1,219.16	3/4	861.46	
1	1	3,718.48	1	3,360.72	1	3,002.39	1	2,643.46	1	2,284.53	1	1,925.60	1	1,570.65	1	1,211.70	1	853.98	
1/4	1/4	3,711.06	1/4	3,353.26	1/4	2,994.91	1/4	2,635.98	1/4	2,277.05	1/4	1,918.12	1/4	1,563.17	1/4	1,204.24	1/4	846.51	
1/2	1/2	3,703.63	1/2	3,345.80	1/2	2,987.43	1/2	2,628.50	1/2	2,269.57	1/2	1,910.64	1/2	1,555.69	1/2	1,196.78	1/2	839.03	
3/4	3/4	3,696.21	3/4	3,338.34	3/4	2,979.95	3/4	2,621.02	3/4	2,262.09	3/4	1,903.16	3/4	1,548.21	3/4	1,189.32	3/4	831.56	
2	2	3,688.78	2	3,330.87	2	2,972.48	2	2,613.55	2	2,254.62	2	1,895.69	2	1,540.74	2	1,181.86	2	824.08	
1/4	1/4	3,681.36	1/4	3,323.41	1/4	2,965.00	1/4	2,606.07	1/4	2,247.14	1/4	1,888.21	1/4	1,533.26	1/4	1,174.40	1/4	816.60	
1/2	1/2	3,673.93	1/2	3,315.95	1/2	2,957.52	1/2	2,598.59	1/2	2,239.66	1/2	1,880.73	1/2	1,525.78	1/2	1,166.94	1/2	809.13	
3/4	3/4	3,666.51	3/4	3,308.49	3/4	2,950.04	3/4	2,591.11	3/4	2,232.18	3/4	1,873.25	3/4	1,518.30	3/4	1,159.48	3/4	801.65	
3	3	3,659.09	3	3,301.02	3	2,942.56	3	2,583.63	3	2,224.71	3	1,865.78	3	1,510.82	3	1,152.02	3	794.17	
1/4	1/4	3,651.66	1/4	3,293.56	1/4	2,935.09	1/4	2,576.16	1/4	2,217.23	1/4	1,858.30	1/4	1,503.34	1/4	1,144.57	1/4	786.69	
1/2	1/2	3,644.24	1/2	3,286.10	1/2	2,927.61	1/2	2,568.68	1/2	2,209.75	1/2	1,850.82	1/2	1,495.87	1/2	1,137.12	1/2	779.21	
3/4	3/4	3,636.81	3/4	3,278.64	3/4	2,920.13	3/4	2,561.20	3/4	2,202.27	3/4	1,843.34	3/4	1,488.39	3/4	1,129.66	3/4	771.73	
4	4	3,629.35	4	3,271.17	4	2,912.65	4	2,553.72	4	2,194.79	4	1,836.01	4	1,480.91	4	1,122.21	4	764.26	
1/4	1/4	3,621.90	1/4	3,263.71	1/4	2,905.18	1/4	2,546.25	1/4	2,187.32	1/4	1,828.68	1/4	1,473.43	1/4	1,114.76	1/4	756.78	
1/2	1/2	3,614.44	1/2	3,256.25	1/2	2,897.70	1/2	2,538.77	1/2	2,179.84	1/2	1,821.35	1/2	1,465.95	1/2	1,107.30	1/2	749.30	
3/4	3/4	3,606.98	3/4	3,248.79	3/4	2,890.22	3/4	2,531.29	3/4	2,172.36	3/4	1,814.01	3/4	1,458.47	3/4	1,099.85	3/4	741.82	
5	5	3,599.52	5	3,241.32	5	2,882.74	5	2,523.81	5	2,164.88	5	1,806.70	5	1,450.99	5	1,092.40	5	734.34	
1/4	1/4	3,592.06	1/4	3,233.86	1/4	2,875.27	1/4	2,516.34	1/4	2,157.41	1/4	1,799.39	1/4	1,443.52	1/4	1,084.95	1/4	726.87	
1/2	1/2	3,584.60	1/2	3,226.40	1/2	2,867.79	1/2	2,508.86	1/2	2,149.93	1/2	1,792.08	1/2	1,436.04	1/2	1,077.50	1/2	719.39	
3/4	3/4	3,577.13	3/4	3,218.94	3/4	2,860.31	3/4	2,501.38	3/4	2,142.45	3/4	1,784.77	3/4	1,428.56	3/4	1,070.05	3/4	711.91	
6	6	3,569.67	6	3,211.48	6	2,852.83	6	2,493.90	6	2,134.97	6	1,777.46	6	1,421.08	6	1,062.60	6	704.43	
1/4	3,886.42	1/4	3,562.21	1/4	3,204.01	1/4	2,845.35	1/4	2,486.42	1/4	2,127.50	1/4	1,770.15	1/4	1,413.60	1/4	1,055.15	1/4	696.96
1/2	3,882.45	1/2	3,554.75	1/2	3,196.55	1/2	2,837.88	1/2	2,478.95	1/2	2,120.02	1/2	1,762.83	1/2	1,406.12	1/2	1,047.70	1/2	689.48
3/4	3,878.49	3/4	3,547.28	3/4	3,189.09	3/4	2,830.40	3/4	2,471.47	3/4	2,112.54	3/4	1,755.52	3/4	1,398.65	3/4	1,040.25	3/4	682.01
7	3,873.77	7	3,539.82	7	3,181.63	7	2,822.92	7	2,463.99	7	2,105.06	7	1,748.21	7	1,391.17	7	1,032.80	7	674.67
1/4	3,869.06	1/4	3,532.36	1/4	3,174.16	1/4	2,815.44	1/4	2,456.51	1/4	2,097.58	1/4	1,740.90	1/4	1,383.69	1/4	1,025.35	1/4	667.34
1/2	3,864.35	1/2	3,524.90	1/2	3,166.70	1/2	2,807.97	1/2	2,449.04	1/2	2,090.11	1/2	1,733.59	1/2	1,376.21	1/2	1,017.90	1/2	660.00
3/4	3,859.63	3/4	3,517.43	3/4	3,159.24	3/4	2,800.49	3/4	2,441.56	3/4	2,082.63	3/4	1,726.28	3/4	1,368.73	3/4	1,010.45	3/4	652.67
8	3,854.17	8	3,509.97	8	3,151.78	8	2,793.01	8	2,434.08	8	2,075.15	8	1,718.97	8	1,361.25	8	1,003.00	8	645.49
1/4	3,848.71	1/4	3,502.51	1/4	3,144.31	1/4	2,785.53	1/4	2,426.60	1/4	2,067.67	1/4	1,711.66	1/4	1,353.78	1/4	995.55	1/4	638.31
1/2	3,843.25	1/2	3,495.05	1/2	3,136.85	1/2	2,778.06	1/2	2,419.13	1/2	2,060.20	1/2	1,704.34	1/2	1,346.30	1/2	988.10	1/2	631.13
3/4	3,837.79	3/4	3,487.58	3/4	3,129.39	3/4	2,770.58	3/4	2,411.65	3/4	2,052.72	3/4	1,697.03	3/4	1,338.82	3/4	980.65	3/4	623.96
9	3,831.58	9	3,480.12	9	3,121.93	9	2,763.10	9	2,404.17	9	2,045.24	9	1,689.72	9	1,331.34	9	973.20	9	616.80
1/4	3,825.37	1/4	3,472.66	1/4	3,114.46	1/4	2,755.62	1/4	2,396.69	1/4	2,037.76	1/4	1,682.41	1/4	1,323.86	1/4	965.75	1/4	609.64
1/2	3,819.16	1/2	3,465.20	1/2	3,107.00	1/2	2,748.14	1/2	2,389.21	1/2	2,030.29	1/2	1,675.10	1/2	1,316.38	1/2	958.30	1/2	602.48
3/4	3,812.95	3/4	3,457.73	3/4	3,099.54	3/4	2,740.67	3/4	2,381.74	3/4	2,022.81	3/4	1,667.79	3/4	1,308.91	3/4	950.85	3/4	595.32
10	3,805.99	10	3,450.27	10	3,092.08	10	2,733.19	10	2,374.26	10	2,015.33	10	1,660.33	10	1,301.43	10	943.40	10	588.16
1/4	3,799.03	1/4	3,442.81	1/4	3,084.61	1/4	2,725.71	1/4	2,366.78	1/4	2,007.85	1/4	1,652.87	1/4	1,293.95	1/4	935.95	1/4	581.01
1/2	3,792.08	1/2	3,435.35	1/2	3,077.15	1/2	2,718.23	1/2	2,359.30	1/2	2,000.37	1/2	1,645.41	1/2	1,286.47	1/2	928.50	1/2	573.85
3/4	3,785.12	3/4	3,427.88	3/4	3,069.69	3/4	2,710.76	3/4	2,351.83	3/4	1,992.90	3/4	1,637.95	3/4	1,278.99	3/4	921.05	3/4	566.69
11	3,777.74	11	3,420.42	11	3,062.21	11	2,703.28	11	2,344.35	11	1,985.42	11	1,630.48	11	1,271.51	11	913.60	11	559.53
1/4	3,770.36	1/4	3,412.96	1/4	3,054.73	1/4	2,695.80	1/4	2,336.87	1/4	1,977.94	1/4	1,623.00	1/4	1,264.03	1/4	906.16	1/4	552.37
1/2	3,762.98	1/2	3,405.50	1/2	3,047.25	1/2	2,688.32	1/2	2,329.39	1/2	1,970.46	1/2	1,615.52	1/2	1,256.56	1/2	898.71	1/2	545.21
3/4	3,755.61	3/4	3,398.04	3/4	3,039.77	3/4	2,680.84	3/4	2,321.92	3/4	1,962.99	3/4	1,608.04	3/4	1,249.08	3/4	891.26	3/4	538.05

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 UNDERSIDE OF DECK AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH
 GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 44'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "HSM 713"

**2 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	530.90	0	173.86	0		0		0		0		0		0		0		0	
1/4	523.74	1/4	166.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	516.58	1/2	158.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	509.42	3/4	151.44	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	502.12	1	144.11	1		1		1		1		1		1		1		1	
1/4	494.82	1/4	136.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.53	1/2	129.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	480.23	3/4	122.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	472.77	2	114.92	2		2		2		2		2		2		2		2	
1/4	465.31	1/4	107.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	457.85	1/2	100.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	450.39	3/4	93.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	442.92	3	86.13	3		3		3		3		3		3		3		3	
1/4	435.44	1/4	78.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	427.96	1/2	71.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	420.48	3/4	64.32	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	413.00	4	57.68	4		4		4		4		4		4		4		4	
1/4	405.53	1/4	51.05	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	398.05	1/2	44.41	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	390.57	3/4	37.78	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	383.09	5	32.87	5		5		5		5		5		5		5		5	
1/4	375.61	1/4	27.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368.14	1/2	23.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	360.66	3/4	18.15	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	353.18	6	=====	6		6		6		6		6		6		6		6	
1/4	345.71	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	338.23	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	330.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	323.28	7		7		7		7		7		7		7		7		7	
1/4	315.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	308.34	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	300.87	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	293.40	8		8		8		8		8		8		8		8		8	
1/4	285.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	278.45	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	270.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	263.51	9		9		9		9		9		9		9		9		9	
1/4	256.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	248.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	241.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	233.63	10		10		10		10		10		10		10		10		10	
1/4	226.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	218.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	211.21	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	203.74	11		11		11		11		11		11		11		11		11	
1/4	196.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	188.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	181.33	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019

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



BARGE "HSM 713"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	3,706.82	0	3,351.32	0	2,995.16	0	2,638.34	0	2,281.51	0	1,924.87	0	1,572.04	0	1,217.06	0	878.29
1/4		1/4	3,699.44	1/4	3,343.90	1/4	2,987.73	1/4	2,630.90	1/4	2,274.08	1/4	1,917.45	1/4	1,564.61	1/4	1,209.98	1/4	871.24
1/2		1/2	3,692.06	1/2	3,336.48	1/2	2,980.30	1/2	2,623.47	1/2	2,266.64	1/2	1,910.02	1/2	1,557.18	1/2	1,202.90	1/2	864.19
3/4		3/4	3,684.68	3/4	3,329.07	3/4	2,972.86	3/4	2,616.04	3/4	2,259.21	3/4	1,902.59	3/4	1,549.76	3/4	1,195.82	3/4	857.13
1		1	3,677.30	1	3,321.65	1	2,965.43	1	2,608.60	1	2,251.77	1	1,895.17	1	1,542.33	1	1,188.75	1	849.74
1/4		1/4	3,669.92	1/4	3,314.23	1/4	2,957.99	1/4	2,601.17	1/4	2,244.34	1/4	1,887.74	1/4	1,534.90	1/4	1,181.69	1/4	842.35
1/2		1/2	3,662.54	1/2	3,306.81	1/2	2,950.56	1/2	2,593.73	1/2	2,236.91	1/2	1,880.32	1/2	1,527.47	1/2	1,174.62	1/2	834.96
3/4		3/4	3,655.16	3/4	3,299.39	3/4	2,943.13	3/4	2,586.30	3/4	2,229.47	3/4	1,872.89	3/4	1,520.05	3/4	1,167.56	3/4	827.57
2		2	3,647.78	2	3,291.97	2	2,935.69	2	2,578.87	2	2,222.04	2	1,865.46	2	1,512.62	2	1,160.49	2	820.14
1/4		1/4	3,640.40	1/4	3,284.55	1/4	2,928.26	1/4	2,571.43	1/4	2,214.60	1/4	1,858.04	1/4	1,505.19	1/4	1,153.43	1/4	812.70
1/2		1/2	3,633.02	1/2	3,277.14	1/2	2,920.83	1/2	2,564.00	1/2	2,207.17	1/2	1,850.61	1/2	1,497.76	1/2	1,146.37	1/2	805.26
3/4		3/4	3,625.64	3/4	3,269.72	3/4	2,913.39	3/4	2,556.56	3/4	2,199.74	3/4	1,843.19	3/4	1,490.33	3/4	1,139.30	3/4	797.82
3		3	3,618.26	3	3,262.30	3	2,905.96	3	2,549.13	3	2,192.30	3	1,835.76	3	1,482.91	3	1,132.24	3	790.39
1/4		1/4	3,610.87	1/4	3,254.88	1/4	2,898.52	1/4	2,541.70	1/4	2,184.87	1/4	1,828.33	1/4	1,475.48	1/4	1,125.19	1/4	782.95
1/2		1/2	3,603.49	1/2	3,247.46	1/2	2,891.09	1/2	2,534.26	1/2	2,177.44	1/2	1,820.91	1/2	1,468.05	1/2	1,118.13	1/2	775.51
3/4		3/4	3,596.11	3/4	3,240.04	3/4	2,883.66	3/4	2,526.83	3/4	2,170.00	3/4	1,813.48	3/4	1,460.62	3/4	1,111.07	3/4	768.07
4		4	3,588.70	4	3,232.62	4	2,876.22	4	2,519.39	4	2,162.57	4	1,806.19	4	1,453.20	4	1,104.01	4	760.64
1/4		1/4	3,581.29	1/4	3,225.21	1/4	2,868.79	1/4	2,511.96	1/4	2,155.13	1/4	1,798.89	1/4	1,445.77	1/4	1,096.96	1/4	753.20
1/2		1/2	3,573.87	1/2	3,217.79	1/2	2,861.35	1/2	2,504.53	1/2	2,147.70	1/2	1,791.60	1/2	1,438.34	1/2	1,089.90	1/2	745.76
3/4		3/4	3,566.46	3/4	3,210.37	3/4	2,853.92	3/4	2,497.09	3/4	2,140.27	3/4	1,784.30	3/4	1,430.91	3/4	1,082.84	3/4	738.32
5		5	3,559.04	5	3,202.95	5	2,846.49	5	2,489.66	5	2,132.83	5	1,777.03	5	1,423.49	5	1,075.79	5	730.89
1/4		1/4	3,551.62	1/4	3,195.53	1/4	2,839.05	1/4	2,482.23	1/4	2,125.40	1/4	1,769.76	1/4	1,416.06	1/4	1,068.73	1/4	723.45
1/2		1/2	3,544.20	1/2	3,188.11	1/2	2,831.62	1/2	2,474.79	1/2	2,117.96	1/2	1,762.48	1/2	1,408.63	1/2	1,061.68	1/2	716.01
3/4		3/4	3,536.78	3/4	3,180.70	3/4	2,824.18	3/4	2,467.36	3/4	2,110.53	3/4	1,755.21	3/4	1,401.20	3/4	1,054.63	3/4	708.57
6		6	3,529.37	6	3,173.28	6	2,816.75	6	2,459.92	6	2,103.10	6	1,747.93	6	1,393.77	6	1,047.57	6	701.14
1/4	3,844.24	1/4	3,521.95	1/4	3,165.86	1/4	2,809.32	1/4	2,452.49	1/4	2,095.68	1/4	1,740.66	1/4	1,386.35	1/4	1,040.52	1/4	693.71
1/2	3,840.30	1/2	3,514.53	1/2	3,158.44	1/2	2,801.88	1/2	2,445.06	1/2	2,088.25	1/2	1,733.38	1/2	1,378.92	1/2	1,033.47	1/2	686.28
3/4	3,836.35	3/4	3,507.11	3/4	3,151.02	3/4	2,794.45	3/4	2,437.62	3/4	2,080.82	3/4	1,726.11	3/4	1,371.49	3/4	1,026.41	3/4	678.85
7	3,831.66	7	3,499.69	7	3,143.60	7	2,787.02	7	2,430.19	7	2,073.39	7	1,718.83	7	1,364.06	7	1,019.36	7	671.55
1/4	3,826.97	1/4	3,492.27	1/4	3,136.18	1/4	2,779.58	1/4	2,422.75	1/4	2,065.97	1/4	1,711.56	1/4	1,356.64	1/4	1,012.31	1/4	664.26
1/2	3,822.28	1/2	3,484.85	1/2	3,128.77	1/2	2,772.15	1/2	2,415.32	1/2	2,058.54	1/2	1,704.28	1/2	1,349.21	1/2	1,005.25	1/2	656.97
3/4	3,817.58	3/4	3,477.44	3/4	3,121.35	3/4	2,764.71	3/4	2,407.89	3/4	2,051.12	3/4	1,697.01	3/4	1,341.78	3/4	998.20	3/4	649.68
8	3,812.16	8	3,470.02	8	3,113.93	8	2,757.28	8	2,400.45	8	2,043.69	8	1,689.73	8	1,334.35	8	991.15	8	642.55
1/4	3,806.73	1/4	3,462.60	1/4	3,106.51	1/4	2,749.85	1/4	2,393.02	1/4	2,036.26	1/4	1,682.46	1/4	1,326.93	1/4	984.09	1/4	635.41
1/2	3,801.30	1/2	3,455.18	1/2	3,099.09	1/2	2,742.41	1/2	2,385.58	1/2	2,028.84	1/2	1,675.19	1/2	1,319.50	1/2	977.04	1/2	628.28
3/4	3,795.88	3/4	3,447.76	3/4	3,091.67	3/4	2,734.98	3/4	2,378.15	3/4	2,021.41	3/4	1,667.91	3/4	1,312.07	3/4	969.99	3/4	621.14
9	3,789.71	9	3,440.34	9	3,084.25	9	2,727.54	9	2,370.72	9	2,013.99	9	1,660.64	9	1,304.64	9	962.93	9	614.03
1/4	3,783.54	1/4	3,432.92	1/4	3,076.84	1/4	2,720.11	1/4	2,363.28	1/4	2,006.56	1/4	1,653.36	1/4	1,297.21	1/4	955.88	1/4	606.91
1/2	3,777.37	1/2	3,425.51	1/2	3,069.42	1/2	2,712.68	1/2	2,355.85	1/2	1,999.13	1/2	1,646.09	1/2	1,289.79	1/2	948.83	1/2	599.80
3/4	3,771.20	3/4	3,418.09	3/4	3,062.00	3/4	2,705.24	3/4	2,348.42	3/4	1,991.71	3/4	1,638.81	3/4	1,282.36	3/4	941.77	3/4	592.68
10	3,764.28	10	3,410.67	10	3,054.58	10	2,697.81	10	2,340.98	10	1,984.28	10	1,631.40	10	1,274.93	10	934.72	10	585.57
1/4	3,757.37	1/4	3,403.25	1/4	3,047.16	1/4	2,690.37	1/4	2,333.55	1/4	1,976.86	1/4	1,624.00	1/4	1,267.50	1/4	927.67	1/4	578.45
1/2	3,750.46	1/2	3,395.83	1/2	3,039.74	1/2	2,682.94	1/2	2,326.11	1/2	1,969.43	1/2	1,616.59	1/2	1,260.08	1/2	920.61	1/2	571.34
3/4	3,743.54	3/4	3,388.41	3/4	3,032.33	3/4	2,675.51	3/4	2,318.68	3/4	1,962.00	3/4	1,609.18	3/4	1,252.65	3/4	913.56	3/4	564.22
11	3,736.21	11	3,380.99	11	3,024.89	11	2,668.07	11	2,311.25	11	1,954.58	11	1,601.75	11	1,245.52	11	906.51	11	557.11
1/4	3,728.87	1/4	3,373.58	1/4	3,017.46	1/4	2,660.64	1/4	2,303.81	1/4	1,947.15	1/4	1,594.32	1/4	1,238.40	1/4	899.45	1/4	549.99
1/2	3,721.54	1/2	3,366.16	1/2	3,010.03	1/2	2,653.20	1/2	2,296.38	1/2	1,939.72	1/2	1,586.89	1/2	1,231.27	1/2	892.40	1/2	542.88
3/4	3,714.20	3/4	3,358.74	3/4	3,002.60	3/4	2,645.77	3/4	2,288.94	3/4	1,932.30	3/4	1,579.47	3/4	1,224.15	3/4	885.35	3/4	535.76

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 UNDERSIDE OF DECK AT GAUGE POINT.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH

GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 713"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	528.64	0	173.18	0		0		0		0		0		0		0		0	
1/4	521.53	1/4	165.73	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	514.41	1/2	158.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	507.29	3/4	150.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	500.03	1	143.54	1		1		1		1		1		1		1		1	
1/4	492.78	1/4	136.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	485.52	1/2	128.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	478.26	3/4	121.62	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	470.84	2	114.47	2		2		2		2		2		2		2		2	
1/4	463.43	1/4	107.33	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	456.01	1/2	100.18	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	448.59	3/4	93.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	441.15	3	85.79	3		3		3		3		3		3		3		3	
1/4	433.72	1/4	78.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	426.28	1/2	71.31	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	418.84	3/4	64.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	411.39	4	57.46	4		4		4		4		4		4		4		4	
1/4	403.94	1/4	50.85	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	396.50	1/2	44.24	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.05	3/4	37.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	381.60	5	32.75	5		5		5		5		5		5		5		5	
1/4	374.15	1/4	27.86	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	366.70	1/2	22.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	359.25	3/4	18.08	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	351.81	6	=====	6		6		6		6		6		6		6		6	
1/4	344.36	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	336.91	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	329.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	322.03	7		7		7		7		7		7		7		7		7	
1/4	314.58	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	307.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	299.70	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	292.25	8		8		8		8		8		8		8		8		8	
1/4	284.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	277.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	269.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	262.48	9		9		9		9		9		9		9		9		9	
1/4	255.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	247.60	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	240.16	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	232.72	10		10		10		10		10		10		10		10		10	
1/4	225.27	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	217.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	210.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	202.95	11		11		11		11		11		11		11		11		11	
1/4	195.50	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	188.06	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	180.62	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019

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



BARGE "HSM 713"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-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	3,725.13	0	3,368.96	0	3,012.16	0	2,654.70	0	2,297.25	0	1,940.39	0	1,586.88	0	1,229.30	0	872.93
1/4	1/4	3,717.74	1/4	3,361.53	1/4	3,004.71	1/4	2,647.25	1/4	2,289.80	1/4	1,932.95	1/4	1,579.43	1/4	1,221.85	1/4	865.51	
1/2	1/2	3,710.34	1/2	3,354.10	1/2	2,997.26	1/2	2,639.81	1/2	2,282.35	1/2	1,925.50	1/2	1,571.98	1/2	1,214.40	1/2	858.09	
3/4	3/4	3,702.95	3/4	3,346.66	3/4	2,989.82	3/4	2,632.36	3/4	2,274.90	3/4	1,918.05	3/4	1,564.53	3/4	1,206.97	3/4	850.64	
1	1	3,695.55	1	3,339.23	1	2,982.37	1	2,624.91	1	2,267.46	1	1,910.60	1	1,557.08	1	1,199.54	1	843.19	
1/4	1/4	3,688.16	1/4	3,331.80	1/4	2,974.92	1/4	2,617.47	1/4	2,260.01	1/4	1,903.15	1/4	1,549.63	1/4	1,192.10	1/4	835.75	
1/2	1/2	3,680.77	1/2	3,324.37	1/2	2,967.48	1/2	2,610.02	1/2	2,252.56	1/2	1,895.71	1/2	1,542.18	1/2	1,184.67	1/2	828.30	
3/4	3/4	3,673.37	3/4	3,316.94	3/4	2,960.03	3/4	2,602.57	3/4	2,245.12	3/4	1,888.26	3/4	1,534.73	3/4	1,177.24	3/4	820.85	
2	2	3,665.98	2	3,309.51	2	2,952.58	2	2,595.13	2	2,237.67	2	1,880.81	2	1,527.28	2	1,169.81	2	813.40	
1/4	1/4	3,658.59	1/4	3,302.07	1/4	2,945.13	1/4	2,587.68	1/4	2,230.22	1/4	1,873.36	1/4	1,519.83	1/4	1,162.38	1/4	805.96	
1/2	1/2	3,651.19	1/2	3,294.64	1/2	2,937.69	1/2	2,580.23	1/2	2,222.78	1/2	1,865.91	1/2	1,512.38	1/2	1,154.95	1/2	798.51	
3/4	3/4	3,643.80	3/4	3,287.21	3/4	2,930.24	3/4	2,572.78	3/4	2,215.33	3/4	1,858.47	3/4	1,504.93	3/4	1,147.52	3/4	791.06	
3	3	3,636.40	3	3,279.78	3	2,922.79	3	2,565.34	3	2,207.88	3	1,851.02	3	1,497.48	3	1,140.10	3	783.61	
1/4	1/4	3,629.01	1/4	3,272.35	1/4	2,915.35	1/4	2,557.89	1/4	2,200.43	1/4	1,843.57	1/4	1,490.03	1/4	1,132.67	1/4	776.16	
1/2	1/2	3,621.62	1/2	3,264.92	1/2	2,907.90	1/2	2,550.44	1/2	2,192.99	1/2	1,836.12	1/2	1,482.58	1/2	1,125.25	1/2	768.71	
3/4	3/4	3,614.19	3/4	3,257.48	3/4	2,900.45	3/4	2,543.00	3/4	2,185.56	3/4	1,828.82	3/4	1,475.13	3/4	1,117.82	3/4	761.26	
4	4	3,606.76	4	3,250.05	4	2,893.01	4	2,535.55	4	2,178.14	4	1,821.52	4	1,467.69	4	1,110.40	4	753.81	
1/4	1/4	3,599.33	1/4	3,242.62	1/4	2,885.56	1/4	2,528.10	1/4	2,170.71	1/4	1,814.22	1/4	1,460.24	1/4	1,102.97	1/4	746.36	
1/2	1/2	3,591.91	1/2	3,235.19	1/2	2,878.11	1/2	2,520.66	1/2	2,163.29	1/2	1,806.91	1/2	1,452.79	1/2	1,095.55	1/2	738.91	
3/4	3/4	3,584.48	3/4	3,227.76	3/4	2,870.66	3/4	2,513.21	3/4	2,155.87	3/4	1,799.63	3/4	1,445.34	3/4	1,088.13	3/4	731.46	
5	5	3,577.04	5	3,220.33	5	2,863.22	5	2,505.76	5	2,148.45	5	1,792.35	5	1,437.89	5	1,080.71	5	724.02	
1/4	1/4	3,569.61	1/4	3,212.90	1/4	2,855.77	1/4	2,498.31	1/4	2,141.02	1/4	1,785.07	1/4	1,430.44	1/4	1,073.29	1/4	716.57	
1/2	1/2	3,562.18	1/2	3,205.46	1/2	2,848.32	1/2	2,490.87	1/2	2,133.60	1/2	1,777.79	1/2	1,422.99	1/2	1,065.87	1/2	709.12	
3/4	3/4	3,554.75	3/4	3,198.03	3/4	2,840.88	3/4	2,483.42	3/4	2,126.18	3/4	1,770.51	3/4	1,415.54	3/4	1,058.45	3/4	701.67	
6	3,870.18	6	3,547.32	6	3,190.60	6	2,833.43	6	2,475.97	6	2,118.76	6	1,763.22	6	1,408.09	6	1,051.02	6	694.22
1/4	3,866.23	1/4	3,539.89	1/4	3,183.17	1/4	2,825.98	1/4	2,468.53	1/4	2,111.34	1/4	1,755.94	1/4	1,400.64	1/4	1,043.60	1/4	686.78
1/2	3,862.28	1/2	3,532.45	1/2	3,175.74	1/2	2,818.54	1/2	2,461.08	1/2	2,103.92	1/2	1,748.66	1/2	1,393.19	1/2	1,036.18	1/2	679.33
3/4	3,857.59	3/4	3,525.02	3/4	3,168.31	3/4	2,811.09	3/4	2,453.63	3/4	2,096.50	3/4	1,741.38	3/4	1,385.74	3/4	1,028.76	3/4	672.03
7	3,852.90	7	3,517.59	7	3,160.87	7	2,803.64	7	2,446.19	7	2,089.07	7	1,734.10	7	1,378.29	7	1,021.34	7	664.72
1/4	3,848.20	1/4	3,510.16	1/4	3,153.44	1/4	2,796.19	1/4	2,438.74	1/4	2,081.65	1/4	1,726.82	1/4	1,370.84	1/4	1,013.92	1/4	657.41
1/2	3,843.51	1/2	3,502.73	1/2	3,146.01	1/2	2,788.75	1/2	2,431.29	1/2	2,074.23	1/2	1,719.54	1/2	1,363.39	1/2	1,006.50	1/2	650.11
3/4	3,838.07	3/4	3,495.30	3/4	3,138.58	3/4	2,781.30	3/4	2,423.84	3/4	2,066.81	3/4	1,712.26	3/4	1,355.94	3/4	999.08	3/4	642.96
8	3,832.63	8	3,487.86	8	3,131.15	8	2,773.85	8	2,416.40	8	2,059.39	8	1,704.97	8	1,348.49	8	991.66	8	635.81
1/4	3,827.19	1/4	3,480.43	1/4	3,123.72	1/4	2,766.41	1/4	2,408.95	1/4	2,051.97	1/4	1,697.69	1/4	1,341.04	1/4	984.24	1/4	628.66
1/2	3,821.75	1/2	3,473.00	1/2	3,116.28	1/2	2,758.96	1/2	2,401.50	1/2	2,044.54	1/2	1,690.41	1/2	1,333.59	1/2	976.82	1/2	621.51
3/4	3,815.57	3/4	3,465.57	3/4	3,108.85	3/4	2,751.51	3/4	2,394.06	3/4	2,037.12	3/4	1,683.13	3/4	1,326.14	3/4	969.40	3/4	614.38
9	3,809.38	9	3,458.14	9	3,101.42	9	2,744.07	9	2,386.61	9	2,029.70	9	1,675.85	9	1,318.70	9	961.98	9	607.25
1/4	3,803.20	1/4	3,450.71	1/4	3,093.99	1/4	2,736.62	1/4	2,379.16	1/4	2,022.28	1/4	1,668.57	1/4	1,311.25	1/4	954.56	1/4	600.12
1/2	3,797.02	1/2	3,443.27	1/2	3,086.56	1/2	2,729.17	1/2	2,371.72	1/2	2,014.86	1/2	1,661.29	1/2	1,303.80	1/2	947.13	1/2	592.99
3/4	3,790.09	3/4	3,435.84	3/4	3,079.13	3/4	2,721.72	3/4	2,364.27	3/4	2,007.41	3/4	1,653.86	3/4	1,296.35	3/4	939.71	3/4	585.86
10	3,783.16	10	3,428.41	10	3,071.69	10	2,714.28	10	2,356.82	10	1,999.97	10	1,646.43	10	1,288.90	10	932.29	10	578.73
1/4	3,776.23	1/4	3,420.98	1/4	3,064.26	1/4	2,706.83	1/4	2,349.37	1/4	1,992.52	1/4	1,639.00	1/4	1,281.45	1/4	924.87	1/4	571.60
1/2	3,769.31	1/2	3,413.55	1/2	3,056.83	1/2	2,699.38	1/2	2,341.93	1/2	1,985.08	1/2	1,631.57	1/2	1,274.00	1/2	917.45	1/2	564.47
3/4	3,761.96	3/4	3,406.12	3/4	3,049.39	3/4	2,691.94	3/4	2,334.48	3/4	1,977.63	3/4	1,624.12	3/4	1,266.55	3/4	910.03	3/4	557.34
11	3,754.61	11	3,398.69	11	3,041.94	11	2,684.49	11	2,327.03	11	1,970.18	11	1,616.68	11	1,259.10	11	902.61	11	550.22
1/4	3,747.26	1/4	3,391.25	1/4	3,034.50	1/4	2,677.04	1/4	2,319.59	1/4	1,962.74	1/4	1,609.23	1/4	1,251.65	1/4	895.19	1/4	543.09
1/2	3,739.92	1/2	3,383.82	1/2	3,027.05	1/2	2,669.60	1/2	2,312.14	1/2	1,955.29	1/2	1,601.78	1/2	1,244.20	1/2	887.77	1/2	535.96
3/4	3,732.52	3/4	3,376.39	3/4	3,019.60	3/4	2,662.15	3/4	2,304.69	3/4	1,947.84	3/4	1,594.33	3/4	1,236.75	3/4	880.35	3/4	528.83

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 UNDERSIDE OF DECK AT GAUGE POINT.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH 8" ULLAGE HATCH
 GAUGE POINT: (8" ULLAGE HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 713"

3 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-05 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	521.70	0	165.73	0		0		0		0		0		0		0		0	
1/4	514.57	1/4	158.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	507.44	1/2	150.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	500.17	3/4	143.54	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	492.90	1	136.23	1		1		1		1		1		1		1		1	
1/4	485.63	1/4	128.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	478.36	1/2	121.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	470.93	3/4	114.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	463.50	2	107.33	2		2		2		2		2		2		2		2	
1/4	456.07	1/4	100.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	448.64	1/2	93.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	441.19	3/4	85.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	433.74	3	78.55	3		3		3		3		3		3		3		3	
1/4	426.30	1/4	71.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	418.85	1/2	64.07	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	411.40	3/4	57.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	403.95	4	50.85	4		4		4		4		4		4		4		4	
1/4	396.50	1/4	44.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	389.05	1/2	37.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	381.60	3/4	32.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	374.15	5	27.86	5		5		5		5		5		5		5		5	
1/4	366.70	1/4	22.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	359.25	1/2	18.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	351.81	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	344.36	6		6		6		6		6		6		6		6		6	
1/4	336.91	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	329.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	322.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	314.58	7		7		7		7		7		7		7		7		7	
1/4	307.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	299.70	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	292.25	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	284.81	8		8		8		8		8		8		8		8		8	
1/4	277.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	269.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	262.48	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	255.04	9		9		9		9		9		9		9		9		9	
1/4	247.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	240.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	232.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	225.27	10		10		10		10		10		10		10		10		10	
1/4	217.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	210.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	202.95	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	195.50	11		11		11		11		11		11		11		11		11	
1/4	188.06	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	180.62	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	173.18	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: 03/18/2019 CL
CALCULATED: 03/19/2019 CL
PRINTED: 03/19/2019 CL

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CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2019