



# BARGE "MM 320"

## ULLAGE TRIM TABLE MMC

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
4 PORT	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/4	- 03-1/4
4 STBD	00-1/2	- 00-1/2	01-0/8	- 01-0/8	01-5/8	- 01-5/8	02-1/8	- 02-1/8	02-5/8	- 02-5/8	03-1/8	- 03-1/8

(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 4 PORT IS - 01-0/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 0/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

June 24, 2019

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

<http://www.pmacorp.net>



# BARGE "MM 320"

## ULLAGE TRIM TABLE 8" HATCH

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-1/2	- 00-1/2
1 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
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	00-3/8	- 00-3/8
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	00-3/8	- 00-3/8
3 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
3 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
4 PORT	00-1/2	- 00-1/2	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-3/8	- 02-3/8	03-0/8	- 03-0/8	03-1/2	- 03-1/2
4 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-3/8	- 02-3/8	03-0/8	- 03-0/8	03-1/2	- 03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 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: 236'-09"

June 24, 2019

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# BARGE "MM 320"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	3,428.71	0	3,188.45	0	2,942.24	0	2,696.03	0	2,449.13	0	2,202.04	0	1,954.96	0	1,707.87	0	1,460.79
1/4		1/4	3,424.49	1/4	3,183.32	1/4	2,937.11	1/4	2,690.90	1/4	2,443.98	1/4	2,196.89	1/4	1,949.81	1/4	1,702.73	1/4	1,455.64
1/2		1/2	3,420.27	1/2	3,178.19	1/2	2,931.98	1/2	2,685.77	1/2	2,438.83	1/2	2,191.75	1/2	1,944.66	1/2	1,697.58	1/2	1,450.49
3/4		3/4	3,416.05	3/4	3,173.06	3/4	2,926.85	3/4	2,680.64	3/4	2,433.68	3/4	2,186.60	3/4	1,939.51	3/4	1,692.43	3/4	1,445.35
1		1	3,411.83	1	3,167.93	1	2,921.72	1	2,675.51	1	2,428.54	1	2,181.45	1	1,934.37	1	1,687.28	1	1,440.20
1/4		1/4	3,406.98	1/4	3,162.80	1/4	2,916.59	1/4	2,670.38	1/4	2,423.39	1/4	2,176.30	1/4	1,929.22	1/4	1,682.13	1/4	1,435.05
1/2		1/2	3,402.13	1/2	3,157.67	1/2	2,911.46	1/2	2,665.25	1/2	2,418.24	1/2	2,171.16	1/2	1,924.07	1/2	1,676.99	1/2	1,429.90
3/4		3/4	3,397.28	3/4	3,152.55	3/4	2,906.33	3/4	2,660.12	3/4	2,413.09	3/4	2,166.01	3/4	1,918.92	3/4	1,671.84	3/4	1,424.75
2		2	3,392.43	2	3,147.42	2	2,901.20	2	2,654.99	2	2,407.95	2	2,160.86	2	1,913.78	2	1,666.69	2	1,419.61
1/4		1/4	3,387.36	1/4	3,142.29	1/4	2,896.08	1/4	2,649.86	1/4	2,402.80	1/4	2,155.71	1/4	1,908.63	1/4	1,661.54	1/4	1,414.46
1/2		1/2	3,382.30	1/2	3,137.16	1/2	2,890.95	1/2	2,644.72	1/2	2,397.65	1/2	2,150.57	1/2	1,903.48	1/2	1,656.40	1/2	1,409.31
3/4		3/4	3,377.24	3/4	3,132.03	3/4	2,885.82	3/4	2,639.58	3/4	2,392.50	3/4	2,145.42	3/4	1,898.33	3/4	1,651.25	3/4	1,404.16
3		3	3,372.18	3	3,126.90	3	2,880.69	3	2,634.44	3	2,387.36	3	2,140.27	3	1,893.19	3	1,646.10	3	1,399.02
1/4		1/4	3,367.10	1/4	3,121.77	1/4	2,875.56	1/4	2,629.29	1/4	2,382.21	1/4	2,135.12	1/4	1,888.04	1/4	1,640.95	1/4	1,393.87
1/2		1/2	3,362.03	1/2	3,116.64	1/2	2,870.43	1/2	2,624.15	1/2	2,377.06	1/2	2,129.98	1/2	1,882.89	1/2	1,635.81	1/2	1,388.72
3/4		3/4	3,356.95	3/4	3,111.51	3/4	2,865.30	3/4	2,619.00	3/4	2,371.91	3/4	2,124.83	3/4	1,877.74	3/4	1,630.66	3/4	1,383.57
4		4	3,351.88	4	3,106.38	4	2,860.17	4	2,613.85	4	2,366.77	4	2,119.68	4	1,872.60	4	1,625.51	4	1,378.43
1/4		1/4	3,346.80	1/4	3,101.25	1/4	2,855.04	1/4	2,608.70	1/4	2,361.62	1/4	2,114.53	1/4	1,867.45	1/4	1,620.36	1/4	1,373.28
1/2		1/2	3,341.72	1/2	3,096.12	1/2	2,849.91	1/2	2,603.56	1/2	2,356.47	1/2	2,109.39	1/2	1,862.30	1/2	1,615.22	1/2	1,368.13
3/4		3/4	3,336.65	3/4	3,090.99	3/4	2,844.78	3/4	2,598.41	3/4	2,351.32	3/4	2,104.24	3/4	1,857.15	3/4	1,610.07	3/4	1,362.98
5		5	3,331.57	5	3,085.86	5	2,839.65	5	2,593.26	5	2,346.18	5	2,099.09	5	1,852.01	5	1,604.92	5	1,357.84
1/4		1/4	3,326.49	1/4	3,080.73	1/4	2,834.52	1/4	2,588.11	1/4	2,341.03	1/4	2,093.94	1/4	1,846.86	1/4	1,599.77	1/4	1,352.69
1/2		1/2	3,321.41	1/2	3,075.60	1/2	2,829.39	1/2	2,582.96	1/2	2,335.88	1/2	2,088.80	1/2	1,841.71	1/2	1,594.63	1/2	1,347.54
3/4		3/4	3,316.33	3/4	3,070.48	3/4	2,824.26	3/4	2,577.82	3/4	2,330.73	3/4	2,083.65	3/4	1,836.56	3/4	1,589.48	3/4	1,342.39
6		6	3,311.25	6	3,065.35	6	2,819.13	6	2,572.67	6	2,325.58	6	2,078.50	6	1,831.42	6	1,584.33	6	1,337.25
1/4		1/4	3,306.18	1/4	3,060.22	1/4	2,814.01	1/4	2,567.52	1/4	2,320.44	1/4	2,073.35	1/4	1,826.27	1/4	1,579.18	1/4	1,332.10
1/2		1/2	3,301.10	1/2	3,055.09	1/2	2,808.88	1/2	2,562.37	1/2	2,315.29	1/2	2,068.20	1/2	1,821.12	1/2	1,574.04	1/2	1,326.95
3/4		3/4	3,296.02	3/4	3,049.96	3/4	2,803.75	3/4	2,557.23	3/4	2,310.14	3/4	2,063.06	3/4	1,815.97	3/4	1,568.89	3/4	1,321.80
7		7	3,290.94	7	3,044.83	7	2,798.62	7	2,552.08	7	2,304.99	7	2,057.91	7	1,810.82	7	1,563.74	7	1,316.66
1/4		1/4	3,285.84	1/4	3,039.70	1/4	2,793.49	1/4	2,546.93	1/4	2,299.85	1/4	2,052.76	1/4	1,805.68	1/4	1,558.59	1/4	1,311.51
1/2		1/2	3,280.73	1/2	3,034.57	1/2	2,788.36	1/2	2,541.78	1/2	2,294.70	1/2	2,047.61	1/2	1,800.53	1/2	1,553.44	1/2	1,306.36
3/4		3/4	3,275.63	3/4	3,029.44	3/4	2,783.23	3/4	2,536.64	3/4	2,289.55	3/4	2,042.47	3/4	1,795.38	3/4	1,548.30	3/4	1,301.21
8		8	3,270.52	8	3,024.31	8	2,778.10	8	2,531.49	8	2,284.40	8	2,037.32	8	1,790.23	8	1,543.15	8	1,296.06
1/4		1/4	3,265.39	1/4	3,019.18	1/4	2,772.97	1/4	2,526.34	1/4	2,279.26	1/4	2,032.17	1/4	1,785.09	1/4	1,538.00	1/4	1,290.92
1/2		1/2	3,260.26	1/2	3,014.05	1/2	2,767.84	1/2	2,521.19	1/2	2,274.11	1/2	2,027.02	1/2	1,779.94	1/2	1,532.85	1/2	1,285.77
3/4		3/4	3,255.13	3/4	3,008.92	3/4	2,762.71	3/4	2,516.05	3/4	2,268.96	3/4	2,021.88	3/4	1,774.79	3/4	1,527.71	3/4	1,280.62
9		9	3,250.00	9	3,003.79	9	2,757.58	9	2,510.90	9	2,263.81	9	2,016.73	9	1,769.64	9	1,522.56	9	1,275.47
1/4		1/4	3,244.87	1/4	2,998.66	1/4	2,752.45	1/4	2,505.75	1/4	2,258.67	1/4	2,011.58	1/4	1,764.50	1/4	1,517.41	1/4	1,270.33
1/2		1/2	3,239.75	1/2	2,993.53	1/2	2,747.32	1/2	2,500.60	1/2	2,253.52	1/2	2,006.43	1/2	1,759.35	1/2	1,512.26	1/2	1,265.18
3/4		3/4	3,234.62	3/4	2,988.40	3/4	2,742.19	3/4	2,495.46	3/4	2,248.37	3/4	2,001.29	3/4	1,754.20	3/4	1,507.12	3/4	1,260.03
10		10	3,229.49	10	2,983.28	10	2,737.06	10	2,490.31	10	2,243.22	10	1,996.14	10	1,749.05	10	1,501.97	10	1,254.88
1/4		1/4	3,224.36	1/4	2,978.15	1/4	2,731.93	1/4	2,485.16	1/4	2,238.08	1/4	1,990.99	1/4	1,743.91	1/4	1,496.82	1/4	1,249.74
1/2		1/2	3,219.23	1/2	2,973.02	1/2	2,726.81	1/2	2,480.01	1/2	2,232.93	1/2	1,985.84	1/2	1,738.76	1/2	1,491.67	1/2	1,244.59
3/4		3/4	3,214.10	3/4	2,967.89	3/4	2,721.68	3/4	2,474.87	3/4	2,227.78	3/4	1,980.70	3/4	1,733.61	3/4	1,486.53	3/4	1,239.44
11	3,442.16	11	3,208.97	11	2,962.76	11	2,716.55	11	2,469.72	11	2,222.63	11	1,975.55	11	1,728.46	11	1,481.38	11	1,234.29
1/4	3,438.80	1/4	3,203.84	1/4	2,957.63	1/4	2,711.42	1/4	2,464.57	1/4	2,217.49	1/4	1,970.40	1/4	1,723.32	1/4	1,476.23	1/4	1,229.15
1/2	3,435.44	1/2	3,198.71	1/2	2,952.50	1/2	2,706.29	1/2	2,459.42	1/2	2,212.34	1/2	1,965.25	1/2	1,718.17	1/2	1,471.08	1/2	1,224.00
3/4	3,432.07	3/4	3,193.58	3/4	2,947.37	3/4	2,701.16	3/4	2,454.27	3/4	2,207.19	3/4	1,960.11	3/4	1,713.02	3/4	1,465.94	3/4	1,218.85

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "MM 320"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	1,213.70	0	967.66	0	722.23	0	477.44	0	234.89	0	37.24	0		0		0		0	
1/4	1,208.56	1/4	962.62	1/4	717.12	1/4	472.29	1/4	230.34	1/4	34.08	1/4		1/4		1/4		1/4	
1/2	1,203.41	1/2	957.58	1/2	712.02	1/2	467.14	1/2	225.79	1/2	30.92	1/2		1/2		1/2		1/2	
3/4	1,198.26	3/4	952.53	3/4	706.92	3/4	461.99	3/4	221.24	3/4	27.76	3/4		3/4		3/4		3/4	
1	1,193.11	1	947.49	1	701.81	1	456.84	1	216.70	1	24.60	1		1		1		1	
1/4	1,187.97	1/4	942.45	1/4	696.71	1/4	451.70	1/4	212.24	1/4	22.48	1/4		1/4		1/4		1/4	
1/2	1,182.82	1/2	937.40	1/2	691.62	1/2	446.55	1/2	207.78	1/2	20.36	1/2		1/2		1/2		1/2	
3/4	1,177.67	3/4	932.36	3/4	686.52	3/4	441.40	3/4	203.32	3/4	18.24	3/4		3/4		3/4		3/4	
2	1,172.52	2	927.32	2	681.43	2	436.25	2	198.86	2	16.12	2		2		2		2	
1/4	1,167.37	1/4	922.27	1/4	676.33	1/4	431.10	1/4	194.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,162.23	1/2	917.23	1/2	671.24	1/2	425.95	1/2	190.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,157.08	3/4	912.19	3/4	666.14	3/4	420.81	3/4	185.74	3/4		3/4		3/4		3/4		3/4	
3	1,151.93	3	907.15	3	661.05	3	415.66	3	181.37	3		3		3		3		3	
1/4	1,146.78	1/4	902.05	1/4	655.96	1/4	410.51	1/4	177.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,141.64	1/2	896.95	1/2	650.87	1/2	405.36	1/2	172.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,136.49	3/4	891.86	3/4	645.78	3/4	400.21	3/4	168.51	3/4		3/4		3/4		3/4		3/4	
4	1,131.34	4	886.76	4	640.69	4	395.06	4	164.23	4		4		4		4		4	
1/4	1,126.19	1/4	881.62	1/4	635.60	1/4	389.92	1/4	159.95	1/4		1/4		1/4		1/4		1/4	
1/2	1,121.05	1/2	876.47	1/2	630.51	1/2	384.77	1/2	155.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,115.90	3/4	871.32	3/4	625.42	3/4	379.62	3/4	151.39	3/4		3/4		3/4		3/4		3/4	
5	1,110.75	5	866.17	5	620.32	5	374.47	5	147.12	5		5		5		5		5	
1/4	1,105.60	1/4	861.02	1/4	615.23	1/4	369.32	1/4	142.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,100.46	1/2	855.87	1/2	610.14	1/2	364.17	1/2	138.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,095.31	3/4	850.72	3/4	605.05	3/4	359.03	3/4	134.30	3/4		3/4		3/4		3/4		3/4	
6	1,090.16	6	845.58	6	599.96	6	353.88	6	130.03	6		6		6		6		6	
1/4	1,085.01	1/4	840.43	1/4	594.87	1/4	348.73	1/4	125.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,079.87	1/2	835.28	1/2	589.78	1/2	343.58	1/2	121.66	1/2		1/2		1/2		1/2		1/2	
3/4	1,074.72	3/4	830.13	3/4	584.69	3/4	338.43	3/4	117.47	3/4		3/4		3/4		3/4		3/4	
7	1,069.57	7	824.98	7	579.60	7	333.28	7	113.29	7		7		7		7		7	
1/4	1,064.42	1/4	819.83	1/4	574.51	1/4	328.16	1/4	109.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,059.28	1/2	814.68	1/2	569.42	1/2	323.03	1/2	105.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,054.13	3/4	809.54	3/4	564.33	3/4	317.91	3/4	101.00	3/4		3/4		3/4		3/4		3/4	
8	1,048.98	8	804.39	8	559.23	8	312.78	8	96.90	8		8		8		8		8	
1/4	1,043.83	1/4	799.24	1/4	554.14	1/4	307.72	1/4	92.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,038.68	1/2	794.09	1/2	549.05	1/2	302.66	1/2	89.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,033.54	3/4	788.94	3/4	543.96	3/4	297.60	3/4	85.12	3/4		3/4		3/4		3/4		3/4	
9	1,028.39	9	783.79	9	538.87	9	292.54	9	81.19	9		9		9		9		9	
1/4	1,023.29	1/4	778.64	1/4	533.78	1/4	287.56	1/4	77.44	1/4		1/4		1/4		1/4		1/4	
1/2	1,018.20	1/2	773.49	1/2	528.69	1/2	282.59	1/2	73.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,013.10	3/4	768.35	3/4	523.60	3/4	277.62	3/4	69.92	3/4		3/4		3/4		3/4		3/4	
10	1,008.01	10	763.20	10	518.51	10	272.64	10	66.17	10		10		10		10		10	
1/4	1,002.96	1/4	758.07	1/4	513.39	1/4	267.84	1/4	62.50	1/4		1/4		1/4		1/4		1/4	
1/2	997.92	1/2	752.94	1/2	508.27	1/2	263.04	1/2	58.84	1/2		1/2		1/2		1/2		1/2	
3/4	992.88	3/4	747.81	3/4	503.15	3/4	258.23	3/4	55.17	3/4		3/4		3/4		3/4		3/4	
11	987.84	11	742.68	11	498.03	11	253.43	11	51.50	11		11		11		11		11	
1/4	982.79	1/4	737.56	1/4	492.88	1/4	248.79	1/4	47.94	1/4		1/4		1/4		1/4		1/4	
1/2	977.75	1/2	732.45	1/2	487.73	1/2	244.16	1/2	44.37	1/2		1/2		1/2		1/2		1/2	
3/4	972.71	3/4	727.34	3/4	482.59	3/4	239.52	3/4	40.81	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "MM 320"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	3,425.48	0	3,185.43	0	2,939.43	0	2,693.43	0	2,446.75	0	2,199.88	0	1,953.01	0	1,706.15	0	1,459.28
1/4		1/4	3,421.27	1/4	3,180.31	1/4	2,934.31	1/4	2,688.31	1/4	2,441.61	1/4	2,194.74	1/4	1,947.87	1/4	1,701.00	1/4	1,454.13
1/2		1/2	3,417.05	1/2	3,175.18	1/2	2,929.18	1/2	2,683.18	1/2	2,436.47	1/2	2,189.60	1/2	1,942.73	1/2	1,695.86	1/2	1,448.99
3/4		3/4	3,412.83	3/4	3,170.06	3/4	2,924.06	3/4	2,678.06	3/4	2,431.32	3/4	2,184.45	3/4	1,937.58	3/4	1,690.72	3/4	1,443.85
1		1	3,408.62	1	3,164.93	1	2,918.93	1	2,672.93	1	2,426.18	1	2,179.31	1	1,932.44	1	1,685.57	1	1,438.70
1/4		1/4	3,403.77	1/4	3,159.81	1/4	2,913.81	1/4	2,667.81	1/4	2,421.04	1/4	2,174.17	1/4	1,927.30	1/4	1,680.43	1/4	1,433.56
1/2		1/2	3,398.92	1/2	3,154.68	1/2	2,908.68	1/2	2,662.68	1/2	2,415.89	1/2	2,169.02	1/2	1,922.16	1/2	1,675.29	1/2	1,428.42
3/4		3/4	3,394.08	3/4	3,149.56	3/4	2,903.56	3/4	2,657.56	3/4	2,410.75	3/4	2,163.88	3/4	1,917.01	3/4	1,670.14	3/4	1,423.27
2		2	3,389.23	2	3,144.43	2	2,898.43	2	2,652.43	2	2,405.61	2	2,158.74	2	1,911.87	2	1,665.00	2	1,418.13
1/4		1/4	3,384.17	1/4	3,139.31	1/4	2,893.31	1/4	2,647.30	1/4	2,400.46	1/4	2,153.59	1/4	1,906.73	1/4	1,659.86	1/4	1,412.99
1/2		1/2	3,379.11	1/2	3,134.18	1/2	2,888.18	1/2	2,642.17	1/2	2,395.32	1/2	2,148.45	1/2	1,901.58	1/2	1,654.71	1/2	1,407.85
3/4		3/4	3,374.05	3/4	3,129.06	3/4	2,883.06	3/4	2,637.04	3/4	2,390.18	3/4	2,143.31	3/4	1,896.44	3/4	1,649.57	3/4	1,402.70
3		3	3,368.99	3	3,123.93	3	2,877.93	3	2,631.90	3	2,385.03	3	2,138.17	3	1,891.30	3	1,644.43	3	1,397.56
1/4		1/4	3,363.92	1/4	3,118.81	1/4	2,872.81	1/4	2,626.76	1/4	2,379.89	1/4	2,133.02	1/4	1,886.15	1/4	1,639.28	1/4	1,392.42
1/2		1/2	3,358.85	1/2	3,113.68	1/2	2,867.68	1/2	2,621.62	1/2	2,374.75	1/2	2,127.88	1/2	1,881.01	1/2	1,634.14	1/2	1,387.27
3/4		3/4	3,353.78	3/4	3,108.56	3/4	2,862.56	3/4	2,616.47	3/4	2,369.61	3/4	2,122.74	3/4	1,875.87	3/4	1,629.00	3/4	1,382.13
4		4	3,348.71	4	3,103.43	4	2,857.43	4	2,611.33	4	2,364.46	4	2,117.59	4	1,870.72	4	1,623.86	4	1,376.99
1/4		1/4	3,343.64	1/4	3,098.31	1/4	2,852.31	1/4	2,606.19	1/4	2,359.32	1/4	2,112.45	1/4	1,865.58	1/4	1,618.71	1/4	1,371.84
1/2		1/2	3,338.57	1/2	3,093.18	1/2	2,847.18	1/2	2,601.04	1/2	2,354.18	1/2	2,107.31	1/2	1,860.44	1/2	1,613.57	1/2	1,366.70
3/4		3/4	3,333.49	3/4	3,088.06	3/4	2,842.06	3/4	2,595.90	3/4	2,349.03	3/4	2,102.16	3/4	1,855.30	3/4	1,608.43	3/4	1,361.56
5		5	3,328.42	5	3,082.93	5	2,836.93	5	2,590.76	5	2,343.89	5	2,097.02	5	1,850.15	5	1,603.28	5	1,356.41
1/4		1/4	3,323.35	1/4	3,077.81	1/4	2,831.81	1/4	2,585.62	1/4	2,338.75	1/4	2,091.88	1/4	1,845.01	1/4	1,598.14	1/4	1,351.27
1/2		1/2	3,318.27	1/2	3,072.68	1/2	2,826.68	1/2	2,580.47	1/2	2,333.60	1/2	2,086.73	1/2	1,839.87	1/2	1,593.00	1/2	1,346.13
3/4		3/4	3,313.20	3/4	3,067.56	3/4	2,821.56	3/4	2,575.33	3/4	2,328.46	3/4	2,081.59	3/4	1,834.72	3/4	1,587.85	3/4	1,340.99
6		6	3,308.12	6	3,062.43	6	2,816.43	6	2,570.19	6	2,323.32	6	2,076.45	6	1,829.58	6	1,582.71	6	1,335.84
1/4		1/4	3,303.05	1/4	3,057.31	1/4	2,811.31	1/4	2,565.04	1/4	2,318.17	1/4	2,071.31	1/4	1,824.44	1/4	1,577.57	1/4	1,330.70
1/2		1/2	3,297.98	1/2	3,052.18	1/2	2,806.18	1/2	2,559.90	1/2	2,313.03	1/2	2,066.16	1/2	1,819.29	1/2	1,572.42	1/2	1,325.56
3/4		3/4	3,292.90	3/4	3,047.06	3/4	2,801.06	3/4	2,554.76	3/4	2,307.89	3/4	2,061.02	3/4	1,814.15	3/4	1,567.28	3/4	1,320.41
7		7	3,287.83	7	3,041.93	7	2,795.93	7	2,549.61	7	2,302.74	7	2,055.88	7	1,809.01	7	1,562.14	7	1,315.27
1/4		1/4	3,282.73	1/4	3,036.81	1/4	2,790.81	1/4	2,544.47	1/4	2,297.60	1/4	2,050.73	1/4	1,803.86	1/4	1,557.00	1/4	1,310.13
1/2		1/2	3,277.63	1/2	3,031.68	1/2	2,785.68	1/2	2,539.33	1/2	2,292.46	1/2	2,045.59	1/2	1,798.72	1/2	1,551.85	1/2	1,304.98
3/4		3/4	3,272.53	3/4	3,026.56	3/4	2,780.56	3/4	2,534.18	3/4	2,287.32	3/4	2,040.45	3/4	1,793.58	3/4	1,546.71	3/4	1,299.84
8		8	3,267.43	8	3,021.43	8	2,775.43	8	2,529.04	8	2,282.17	8	2,035.30	8	1,788.43	8	1,541.57	8	1,294.70
1/4		1/4	3,262.31	1/4	3,016.31	1/4	2,770.31	1/4	2,523.90	1/4	2,277.03	1/4	2,030.16	1/4	1,783.29	1/4	1,536.42	1/4	1,289.55
1/2		1/2	3,257.18	1/2	3,011.18	1/2	2,765.18	1/2	2,518.76	1/2	2,271.89	1/2	2,025.02	1/2	1,778.15	1/2	1,531.28	1/2	1,284.41
3/4		3/4	3,252.06	3/4	3,006.06	3/4	2,760.06	3/4	2,513.61	3/4	2,266.74	3/4	2,019.87	3/4	1,773.01	3/4	1,526.14	3/4	1,279.27
9		9	3,246.93	9	3,000.93	9	2,754.93	9	2,508.47	9	2,261.60	9	2,014.73	9	1,767.86	9	1,520.99	9	1,274.12
1/4		1/4	3,241.81	1/4	2,995.81	1/4	2,749.81	1/4	2,503.33	1/4	2,256.46	1/4	2,009.59	1/4	1,762.72	1/4	1,515.85	1/4	1,268.98
1/2		1/2	3,236.68	1/2	2,990.68	1/2	2,744.68	1/2	2,498.18	1/2	2,251.31	1/2	2,004.45	1/2	1,757.58	1/2	1,510.71	1/2	1,263.84
3/4		3/4	3,231.56	3/4	2,985.56	3/4	2,739.56	3/4	2,493.04	3/4	2,246.17	3/4	1,999.30	3/4	1,752.43	3/4	1,505.56	3/4	1,258.70
10		10	3,226.43	10	2,980.43	10	2,734.43	10	2,487.90	10	2,241.03	10	1,994.16	10	1,747.29	10	1,500.42	10	1,253.55
1/4		1/4	3,221.31	1/4	2,975.31	1/4	2,729.31	1/4	2,482.75	1/4	2,235.88	1/4	1,989.02	1/4	1,742.15	1/4	1,495.28	1/4	1,248.41
1/2		1/2	3,216.18	1/2	2,970.18	1/2	2,724.18	1/2	2,477.61	1/2	2,230.74	1/2	1,983.87	1/2	1,737.00	1/2	1,490.14	1/2	1,243.27
3/4		3/4	3,211.06	3/4	2,965.06	3/4	2,719.06	3/4	2,472.47	3/4	2,225.60	3/4	1,978.73	3/4	1,731.86	3/4	1,484.99	3/4	1,238.12
11	3,438.92	11	3,205.93	11	2,959.93	11	2,713.93	11	2,467.32	11	2,220.46	11	1,973.59	11	1,726.72	11	1,479.85	11	1,232.98
1/4	3,435.56	1/4	3,200.81	1/4	2,954.81	1/4	2,708.81	1/4	2,462.18	1/4	2,215.31	1/4	1,968.44	1/4	1,721.57	1/4	1,474.71	1/4	1,227.84
1/2	3,432.20	1/2	3,195.68	1/2	2,949.68	1/2	2,703.68	1/2	2,457.04	1/2	2,210.17	1/2	1,963.30	1/2	1,716.43	1/2	1,469.56	1/2	1,222.69
3/4	3,428.84	3/4	3,190.56	3/4	2,944.56	3/4	2,698.56	3/4	2,451.89	3/4	2,205.03	3/4	1,958.16	3/4	1,711.29	3/4	1,464.42	3/4	1,217.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 29'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 320"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	1,212.41	0	966.58	0	721.14	0	475.03	0	232.68	0	35.04	0		0		0		0	
1/4	1,207.26	1/4	961.54	1/4	716.00	1/4	469.89	1/4	228.14	1/4	31.88	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,202.12	1/2	956.50	1/2	710.86	1/2	464.75	1/2	223.59	1/2	28.72	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,196.98	3/4	951.46	3/4	705.73	3/4	459.60	3/4	219.04	3/4	25.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,191.84	1	946.42	1	700.59	1	454.46	1	214.50	1	22.39	1		1		1		1	
1/4	1,186.69	1/4	941.38	1/4	695.46	1/4	449.32	1/4	210.04	1/4	20.27	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,181.55	1/2	936.35	1/2	690.34	1/2	444.17	1/2	205.58	1/2	18.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,176.41	3/4	931.31	3/4	685.21	3/4	439.03	3/4	201.12	3/4	16.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,171.26	2	926.27	2	680.08	2	433.88	2	196.67	2	13.89	2		2		2		2	
1/4	1,166.12	1/4	921.23	1/4	674.95	1/4	428.74	1/4	192.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,160.98	1/2	916.19	1/2	669.83	1/2	423.60	1/2	187.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,155.83	3/4	911.15	3/4	664.70	3/4	418.45	3/4	183.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,150.69	3	906.11	3	659.58	3	413.31	3	179.18	3		3		3		3		3	
1/4	1,145.55	1/4	901.02	1/4	654.45	1/4	408.16	1/4	174.90	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,140.40	1/2	895.93	1/2	649.33	1/2	403.02	1/2	170.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,135.26	3/4	890.84	3/4	644.21	3/4	397.88	3/4	166.33	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,130.12	4	885.74	4	639.09	4	392.73	4	162.05	4		4		4		4		4	
1/4	1,124.97	1/4	880.60	1/4	633.96	1/4	387.59	1/4	157.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,119.83	1/2	875.46	1/2	628.84	1/2	382.45	1/2	153.49	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,114.69	3/4	870.31	3/4	623.72	3/4	377.30	3/4	149.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,109.55	5	865.17	5	618.60	5	372.16	5	144.94	5		5		5		5		5	
1/4	1,104.40	1/4	860.02	1/4	613.47	1/4	367.01	1/4	140.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,099.26	1/2	854.88	1/2	608.35	1/2	361.87	1/2	136.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,094.12	3/4	849.74	3/4	603.23	3/4	356.73	3/4	132.12	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,088.97	6	844.59	6	598.10	6	351.58	6	127.85	6		6		6		6		6	
1/4	1,083.83	1/4	839.45	1/4	592.98	1/4	346.44	1/4	123.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,078.69	1/2	834.30	1/2	587.86	1/2	341.30	1/2	119.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,073.54	3/4	829.16	3/4	582.74	3/4	336.15	3/4	115.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,068.40	7	824.02	7	577.61	7	331.01	7	111.12	7		7		7		7		7	
1/4	1,063.26	1/4	818.87	1/4	572.49	1/4	325.89	1/4	107.02	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,058.11	1/2	813.73	1/2	567.37	1/2	320.76	1/2	102.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,052.97	3/4	808.58	3/4	562.25	3/4	315.64	3/4	98.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,047.83	8	803.44	8	557.12	8	310.52	8	94.73	8		8		8		8		8	
1/4	1,042.69	1/4	798.30	1/4	552.00	1/4	305.46	1/4	90.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,037.54	1/2	793.15	1/2	546.88	1/2	300.41	1/2	86.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,032.40	3/4	788.01	3/4	541.76	3/4	295.35	3/4	82.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,027.26	9	782.86	9	536.63	9	290.29	9	79.02	9		9		9		9		9	
1/4	1,022.17	1/4	777.72	1/4	531.51	1/4	285.32	1/4	75.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,017.07	1/2	772.58	1/2	526.39	1/2	280.36	1/2	71.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,011.98	3/4	767.43	3/4	521.26	3/4	275.39	3/4	67.74	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,006.89	10	762.29	10	516.14	10	270.42	10	63.98	10		10		10		10		10	
1/4	1,001.85	1/4	757.14	1/4	511.01	1/4	265.62	1/4	60.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	996.82	1/2	752.00	1/2	505.88	1/2	260.81	1/2	56.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	991.78	3/4	746.86	3/4	500.74	3/4	256.01	3/4	52.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	986.74	11	741.71	11	495.61	11	251.21	11	49.32	11		11		11		11		11	
1/4	981.70	1/4	736.57	1/4	490.47	1/4	246.58	1/4	45.75	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	976.66	1/2	731.42	1/2	485.32	1/2	241.95	1/2	42.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	971.62	3/4	726.28	3/4	480.18	3/4	237.31	3/4	38.61	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: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "MM 320"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	4,277.20	0	3,986.68	0	3,684.53	0	3,382.37	0	3,079.57	0	2,776.55	0	2,473.53	0	2,170.51	0	1,867.49
1/4		1/4	4,273.08	1/4	3,980.39	1/4	3,678.23	1/4	3,376.08	1/4	3,073.26	1/4	2,770.24	1/4	2,467.22	1/4	2,164.20	1/4	1,861.18
1/2		1/2	4,268.95	1/2	3,974.09	1/2	3,671.94	1/2	3,369.78	1/2	3,066.94	1/2	2,763.92	1/2	2,460.90	1/2	2,157.89	1/2	1,854.87
3/4		3/4	4,263.77	3/4	3,967.80	3/4	3,665.64	3/4	3,363.49	3/4	3,060.63	3/4	2,757.61	3/4	2,454.59	3/4	2,151.57	3/4	1,848.55
1		1	4,258.59	1	3,961.50	1	3,659.35	1	3,357.19	1	3,054.32	1	2,751.30	1	2,448.28	1	2,145.26	1	1,842.24
1/4		1/4	4,253.41	1/4	3,955.21	1/4	3,653.05	1/4	3,350.90	1/4	3,048.00	1/4	2,744.99	1/4	2,441.97	1/4	2,138.95	1/4	1,835.93
1/2		1/2	4,248.23	1/2	3,948.91	1/2	3,646.76	1/2	3,344.60	1/2	3,041.69	1/2	2,738.67	1/2	2,435.65	1/2	2,132.63	1/2	1,829.61
3/4		3/4	4,242.28	3/4	3,942.62	3/4	3,640.46	3/4	3,338.31	3/4	3,035.38	3/4	2,732.36	3/4	2,429.34	3/4	2,126.32	3/4	1,823.30
2		2	4,236.32	2	3,936.33	2	3,634.17	2	3,332.01	2	3,029.07	2	2,726.05	2	2,423.03	2	2,120.01	2	1,816.99
1/4		1/4	4,230.37	1/4	3,930.03	1/4	3,627.87	1/4	3,325.72	1/4	3,022.75	1/4	2,719.73	1/4	2,416.71	1/4	2,113.70	1/4	1,810.68
1/2		1/2	4,224.41	1/2	3,923.74	1/2	3,621.58	1/2	3,319.42	1/2	3,016.44	1/2	2,713.42	1/2	2,410.40	1/2	2,107.38	1/2	1,804.36
3/4		3/4	4,218.20	3/4	3,917.44	3/4	3,615.29	3/4	3,313.12	3/4	3,010.13	3/4	2,707.11	3/4	2,404.09	3/4	2,101.07	3/4	1,798.05
3		3	4,211.99	3	3,911.15	3	3,608.99	3	3,306.82	3	3,003.81	3	2,700.80	3	2,397.78	3	2,094.76	3	1,791.74
1/4		1/4	4,205.77	1/4	3,904.85	1/4	3,602.70	1/4	3,300.51	1/4	2,997.50	1/4	2,694.48	1/4	2,391.46	1/4	2,088.44	1/4	1,785.42
1/2		1/2	4,199.56	1/2	3,898.56	1/2	3,596.40	1/2	3,294.21	1/2	2,991.19	1/2	2,688.17	1/2	2,385.15	1/2	2,082.13	1/2	1,779.11
3/4		3/4	4,193.33	3/4	3,892.26	3/4	3,590.11	3/4	3,287.89	3/4	2,984.88	3/4	2,681.86	3/4	2,378.84	3/4	2,075.82	3/4	1,772.80
4		4	4,187.11	4	3,885.97	4	3,583.81	4	3,281.58	4	2,978.56	4	2,675.54	4	2,372.52	4	2,069.51	4	1,766.49
1/4		1/4	4,180.88	1/4	3,879.67	1/4	3,577.52	1/4	3,275.27	1/4	2,972.25	1/4	2,669.23	1/4	2,366.21	1/4	2,063.19	1/4	1,760.17
1/2		1/2	4,174.65	1/2	3,873.38	1/2	3,571.22	1/2	3,268.96	1/2	2,965.94	1/2	2,662.92	1/2	2,359.90	1/2	2,056.88	1/2	1,753.86
3/4		3/4	4,168.42	3/4	3,867.08	3/4	3,564.93	3/4	3,262.64	3/4	2,959.62	3/4	2,656.60	3/4	2,353.59	3/4	2,050.57	3/4	1,747.55
5		5	4,162.19	5	3,860.79	5	3,558.63	5	3,256.33	5	2,953.31	5	2,650.29	5	2,347.27	5	2,044.25	5	1,741.23
1/4		1/4	4,155.96	1/4	3,854.49	1/4	3,552.34	1/4	3,250.02	1/4	2,947.00	1/4	2,643.98	1/4	2,340.96	1/4	2,037.94	1/4	1,734.92
1/2		1/2	4,149.73	1/2	3,848.20	1/2	3,546.04	1/2	3,243.70	1/2	2,940.69	1/2	2,637.67	1/2	2,334.65	1/2	2,031.63	1/2	1,728.61
3/4		3/4	4,143.49	3/4	3,841.90	3/4	3,539.75	3/4	3,237.39	3/4	2,934.37	3/4	2,631.35	3/4	2,328.33	3/4	2,025.31	3/4	1,722.30
6		6	4,137.26	6	3,835.61	6	3,533.45	6	3,231.08	6	2,928.06	6	2,625.04	6	2,322.02	6	2,019.00	6	1,715.98
1/4		1/4	4,131.03	1/4	3,829.31	1/4	3,527.16	1/4	3,224.77	1/4	2,921.75	1/4	2,618.73	1/4	2,315.71	1/4	2,012.69	1/4	1,709.67
1/2		1/2	4,124.80	1/2	3,823.02	1/2	3,520.86	1/2	3,218.45	1/2	2,915.43	1/2	2,612.41	1/2	2,309.40	1/2	2,006.38	1/2	1,703.36
3/4		3/4	4,118.56	3/4	3,816.72	3/4	3,514.57	3/4	3,212.14	3/4	2,909.12	3/4	2,606.10	3/4	2,303.08	3/4	2,000.06	3/4	1,697.04
7		7	4,112.33	7	3,810.43	7	3,508.27	7	3,205.83	7	2,902.81	7	2,599.79	7	2,296.77	7	1,993.75	7	1,690.73
1/4		1/4	4,106.10	1/4	3,804.13	1/4	3,501.98	1/4	3,199.51	1/4	2,896.49	1/4	2,593.48	1/4	2,290.46	1/4	1,987.44	1/4	1,684.42
1/2		1/2	4,099.87	1/2	3,797.84	1/2	3,495.68	1/2	3,193.20	1/2	2,890.18	1/2	2,587.16	1/2	2,284.14	1/2	1,981.12	1/2	1,678.11
3/4		3/4	4,093.60	3/4	3,791.54	3/4	3,489.39	3/4	3,186.89	3/4	2,883.87	3/4	2,580.85	3/4	2,277.83	3/4	1,974.81	3/4	1,671.79
8		8	4,087.34	8	3,785.25	8	3,483.09	8	3,180.58	8	2,877.56	8	2,574.54	8	2,271.52	8	1,968.50	8	1,665.48
1/4		1/4	4,081.08	1/4	3,778.95	1/4	3,476.80	1/4	3,174.26	1/4	2,871.24	1/4	2,568.22	1/4	2,265.20	1/4	1,962.19	1/4	1,659.17
1/2		1/2	4,074.81	1/2	3,772.66	1/2	3,470.50	1/2	3,167.95	1/2	2,864.93	1/2	2,561.91	1/2	2,258.89	1/2	1,955.87	1/2	1,652.85
3/4		3/4	4,068.52	3/4	3,766.36	3/4	3,464.21	3/4	3,161.64	3/4	2,858.62	3/4	2,555.60	3/4	2,252.58	3/4	1,949.56	3/4	1,646.54
9		9	4,062.22	9	3,760.07	9	3,457.91	9	3,155.32	9	2,852.30	9	2,549.29	9	2,246.27	9	1,943.25	9	1,640.23
1/4		1/4	4,055.93	1/4	3,753.77	1/4	3,451.62	1/4	3,149.01	1/4	2,845.99	1/4	2,542.97	1/4	2,239.95	1/4	1,936.93	1/4	1,633.91
1/2		1/2	4,049.63	1/2	3,747.48	1/2	3,445.32	1/2	3,142.70	1/2	2,839.68	1/2	2,536.66	1/2	2,233.64	1/2	1,930.62	1/2	1,627.60
3/4		3/4	4,043.34	3/4	3,741.18	3/4	3,439.03	3/4	3,136.39	3/4	2,833.37	3/4	2,530.35	3/4	2,227.33	3/4	1,924.31	3/4	1,621.29
10		10	4,037.04	10	3,734.89	10	3,432.73	10	3,130.07	10	2,827.05	10	2,524.03	10	2,221.01	10	1,918.00	10	1,614.98
1/4		1/4	4,030.75	1/4	3,728.59	1/4	3,426.44	1/4	3,123.76	1/4	2,820.74	1/4	2,517.72	1/4	2,214.70	1/4	1,911.68	1/4	1,608.66
1/2		1/2	4,024.45	1/2	3,722.30	1/2	3,420.14	1/2	3,117.45	1/2	2,814.43	1/2	2,511.41	1/2	2,208.39	1/2	1,905.37	1/2	1,602.35
3/4		3/4	4,018.16	3/4	3,716.00	3/4	3,413.85	3/4	3,111.13	3/4	2,808.11	3/4	2,505.10	3/4	2,202.08	3/4	1,899.06	3/4	1,596.04
11		11	4,011.86	11	3,709.71	11	3,407.55	11	3,104.82	11	2,801.80	11	2,498.78	11	2,195.76	11	1,892.74	11	1,589.72
1/4		1/4	4,005.57	1/4	3,703.41	1/4	3,401.26	1/4	3,098.51	1/4	2,795.49	1/4	2,492.47	1/4	2,189.45	1/4	1,886.43	1/4	1,583.41
1/2	4,285.46	1/2	3,999.27	1/2	3,697.12	1/2	3,394.96	1/2	3,092.19	1/2	2,789.18	1/2	2,486.16	1/2	2,183.14	1/2	1,880.12	1/2	1,577.10
3/4	4,281.33	3/4	3,992.98	3/4	3,690.82	3/4	3,388.67	3/4	3,085.88	3/4	2,782.86	3/4	2,479.84	3/4	2,176.82	3/4	1,873.81	3/4	1,570.79

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "MM 320"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,564.47	0	1,262.59	0	962.92	0	672.88	0	370.62	0	73.99	0		0		0		0	
1/4	1,558.16	1/4	1,256.42	1/4	956.88	1/4	666.56	1/4	364.50	1/4	67.90	1/4		1/4		1/4		1/4	
1/2	1,551.85	1/2	1,250.25	1/2	950.85	1/2	660.25	1/2	358.39	1/2	61.81	1/2		1/2		1/2		1/2	
3/4	1,545.53	3/4	1,244.08	3/4	944.82	3/4	653.93	3/4	352.27	3/4	56.10	3/4		3/4		3/4		3/4	
1	1,539.22	1	1,237.90	1	938.79	1	647.62	1	346.16	1	50.40	1		1		1		1	
1/4	1,532.91	1/4	1,231.73	1/4	932.76	1/4	641.31	1/4	340.04	1/4	44.69	1/4		1/4		1/4		1/4	
1/2	1,526.60	1/2	1,225.56	1/2	926.73	1/2	634.99	1/2	333.93	1/2	38.99	1/2		1/2		1/2		1/2	
3/4	1,520.28	3/4	1,219.39	3/4	920.71	3/4	628.68	3/4	327.81	3/4	34.45	3/4		3/4		3/4		3/4	
2	1,513.97	2	1,213.22	2	914.69	2	622.37	2	321.69	2	29.92	2		2		2		2	
1/4	1,507.66	1/4	1,207.05	1/4	908.67	1/4	616.05	1/4	315.58	1/4	25.38	1/4		1/4		1/4		1/4	
1/2	1,501.34	1/2	1,200.88	1/2	902.65	1/2	609.74	1/2	309.46	1/2	20.85	1/2		1/2		1/2		1/2	
3/4	1,495.03	3/4	1,194.71	3/4	896.64	3/4	603.43	3/4	303.35	3/4		3/4		3/4		3/4		3/4	
3	1,488.72	3	1,188.54	3	890.62	3	597.11	3	297.23	3		3		3		3		3	
1/4	1,482.41	1/4	1,182.37	1/4	884.60	1/4	590.80	1/4	291.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,476.09	1/2	1,176.19	1/2	878.58	1/2	584.48	1/2	285.00	1/2		1/2		1/2		1/2		1/2	
3/4	1,469.78	3/4	1,169.95	3/4	872.57	3/4	578.17	3/4	278.89	3/4		3/4		3/4		3/4		3/4	
4	1,463.47	4	1,163.71	4	866.55	4	571.86	4	272.77	4		4		4		4		4	
1/4	1,457.15	1/4	1,157.47	1/4	860.54	1/4	565.54	1/4	266.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,450.84	1/2	1,151.22	1/2	854.52	1/2	559.23	1/2	260.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,444.53	3/4	1,144.91	3/4	848.51	3/4	552.92	3/4	254.33	3/4		3/4		3/4		3/4		3/4	
5	1,438.22	5	1,138.60	5	842.49	5	546.60	5	248.11	5		5		5		5		5	
1/4	1,431.90	1/4	1,132.28	1/4	836.48	1/4	540.29	1/4	241.90	1/4		1/4		1/4		1/4		1/4	
1/2	1,425.59	1/2	1,125.97	1/2	830.46	1/2	533.98	1/2	235.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,419.28	3/4	1,119.66	3/4	824.45	3/4	527.66	3/4	229.37	3/4		3/4		3/4		3/4		3/4	
6	1,412.96	6	1,113.34	6	818.43	6	521.35	6	223.06	6		6		6		6		6	
1/4	1,406.65	1/4	1,107.03	1/4	812.42	1/4	515.04	1/4	216.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,400.34	1/2	1,100.71	1/2	806.40	1/2	508.72	1/2	210.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,394.02	3/4	1,094.40	3/4	800.39	3/4	502.41	3/4	204.12	3/4		3/4		3/4		3/4		3/4	
7	1,387.71	7	1,088.09	7	794.37	7	496.09	7	197.80	7		7		7		7		7	
1/4	1,381.40	1/4	1,081.77	1/4	788.36	1/4	489.78	1/4	191.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,375.09	1/2	1,075.46	1/2	782.34	1/2	483.47	1/2	185.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,368.77	3/4	1,069.15	3/4	776.33	3/4	477.15	3/4	178.86	3/4		3/4		3/4		3/4		3/4	
8	1,362.46	8	1,062.83	8	770.31	8	470.84	8	172.55	8		8		8		8		8	
1/4	1,356.15	1/4	1,056.52	1/4	764.30	1/4	464.53	1/4	166.24	1/4		1/4		1/4		1/4		1/4	
1/2	1,349.83	1/2	1,050.20	1/2	758.28	1/2	458.21	1/2	159.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,343.52	3/4	1,043.89	3/4	752.27	3/4	451.90	3/4	153.71	3/4		3/4		3/4		3/4		3/4	
9	1,337.21	9	1,037.58	9	746.25	9	445.59	9	147.49	9		9		9		9		9	
1/4	1,330.90	1/4	1,031.26	1/4	740.24	1/4	439.27	1/4	141.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,324.58	1/2	1,024.95	1/2	734.22	1/2	432.96	1/2	135.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,318.34	3/4	1,018.63	3/4	728.21	3/4	426.64	3/4	128.95	3/4		3/4		3/4		3/4		3/4	
10	1,312.10	10	1,012.32	10	722.19	10	420.33	10	122.84	10		10		10		10		10	
1/4	1,305.86	1/4	1,006.01	1/4	716.18	1/4	414.02	1/4	116.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,299.61	1/2	999.69	1/2	710.16	1/2	407.70	1/2	110.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,293.44	3/4	993.52	3/4	704.00	3/4	401.49	3/4	104.51	3/4		3/4		3/4		3/4		3/4	
11	1,287.27	11	987.34	11	697.83	11	395.28	11	98.40	11		11		11		11		11	
1/4	1,281.10	1/4	981.17	1/4	691.67	1/4	389.06	1/4	92.29	1/4		1/4		1/4		1/4		1/4	
1/2	1,274.93	1/2	974.99	1/2	685.50	1/2	382.85	1/2	86.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,268.76	3/4	968.96	3/4	679.19	3/4	376.73	3/4	80.09	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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





# BARGE "MM 320"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,282.17	0	3,987.32	0	3,685.17	0	3,383.03	0	3,080.18	0	2,777.17	0	2,474.16	0	2,171.14	0	1,868.13
1/4	1/4	1/4	4,276.99	1/4	3,981.02	1/4	3,678.88	1/4	3,376.73	1/4	3,073.87	1/4	2,770.86	1/4	2,467.84	1/4	2,164.83	1/4	1,861.81
1/2	1/2	1/2	4,271.81	1/2	3,974.73	1/2	3,672.58	1/2	3,370.44	1/2	3,067.56	1/2	2,764.54	1/2	2,461.53	1/2	2,158.52	1/2	1,855.50
3/4	3/4	3/4	4,266.63	3/4	3,968.43	3/4	3,666.29	3/4	3,364.14	3/4	3,061.25	3/4	2,758.23	3/4	2,455.22	3/4	2,152.20	3/4	1,849.19
1	1	1	4,261.45	1	3,962.14	1	3,659.99	1	3,357.85	1	3,054.93	1	2,751.92	1	2,448.90	1	2,145.89	1	1,842.88
1/4	1/4	1/4	4,255.50	1/4	3,955.84	1/4	3,653.70	1/4	3,351.55	1/4	3,048.62	1/4	2,745.61	1/4	2,442.59	1/4	2,139.58	1/4	1,836.56
1/2	1/2	1/2	4,249.55	1/2	3,949.55	1/2	3,647.40	1/2	3,345.26	1/2	3,042.31	1/2	2,739.29	1/2	2,436.28	1/2	2,133.26	1/2	1,830.25
3/4	3/4	3/4	4,243.59	3/4	3,943.25	3/4	3,641.11	3/4	3,338.96	3/4	3,035.99	3/4	2,732.98	3/4	2,429.97	3/4	2,126.95	3/4	1,823.94
2	2	2	4,237.64	2	3,936.96	2	3,634.81	2	3,332.67	2	3,029.68	2	2,726.67	2	2,423.65	2	2,120.64	2	1,817.62
1/4	1/4	1/4	4,231.43	1/4	3,930.66	1/4	3,628.52	1/4	3,326.36	1/4	3,023.37	1/4	2,720.35	1/4	2,417.34	1/4	2,114.33	1/4	1,811.31
1/2	1/2	1/2	4,225.21	1/2	3,924.37	1/2	3,622.22	1/2	3,320.06	1/2	3,017.06	1/2	2,714.04	1/2	2,411.03	1/2	2,108.01	1/2	1,805.00
3/4	3/4	3/4	4,219.00	3/4	3,918.08	3/4	3,615.93	3/4	3,313.75	3/4	3,010.74	3/4	2,707.73	3/4	2,404.71	3/4	2,101.70	3/4	1,798.69
3	3	3	4,212.79	3	3,911.78	3	3,609.64	3	3,307.45	3	3,004.43	3	2,701.42	3	2,398.40	3	2,095.39	3	1,792.37
1/4	1/4	1/4	4,206.56	1/4	3,905.49	1/4	3,603.34	1/4	3,301.13	1/4	2,998.12	1/4	2,695.10	1/4	2,392.09	1/4	2,089.07	1/4	1,786.06
1/2	1/2	1/2	4,200.33	1/2	3,899.19	1/2	3,597.05	1/2	3,294.82	1/2	2,991.81	1/2	2,688.79	1/2	2,385.78	1/2	2,082.76	1/2	1,779.75
3/4	3/4	3/4	4,194.10	3/4	3,892.90	3/4	3,590.75	3/4	3,288.51	3/4	2,985.49	3/4	2,682.48	3/4	2,379.46	3/4	2,076.45	3/4	1,773.43
4	4	4	4,187.88	4	3,886.60	4	3,584.46	4	3,282.19	4	2,979.18	4	2,676.17	4	2,373.15	4	2,070.14	4	1,767.12
1/4	1/4	1/4	4,181.65	1/4	3,880.31	1/4	3,578.16	1/4	3,275.88	1/4	2,972.87	1/4	2,669.85	1/4	2,366.84	1/4	2,063.82	1/4	1,760.81
1/2	1/2	1/2	4,175.41	1/2	3,874.01	1/2	3,571.87	1/2	3,269.57	1/2	2,966.55	1/2	2,663.54	1/2	2,360.53	1/2	2,057.51	1/2	1,754.50
3/4	3/4	3/4	4,169.18	3/4	3,867.72	3/4	3,565.57	3/4	3,263.26	3/4	2,960.24	3/4	2,657.23	3/4	2,354.21	3/4	2,051.20	3/4	1,748.18
5	5	5	4,162.95	5	3,861.42	5	3,559.28	5	3,256.94	5	2,953.93	5	2,650.91	5	2,347.90	5	2,044.89	5	1,741.87
1/4	1/4	1/4	4,156.72	1/4	3,855.13	1/4	3,552.98	1/4	3,250.63	1/4	2,947.62	1/4	2,644.60	1/4	2,341.59	1/4	2,038.57	1/4	1,735.56
1/2	1/2	1/2	4,150.49	1/2	3,848.83	1/2	3,546.69	1/2	3,244.32	1/2	2,941.30	1/2	2,638.29	1/2	2,335.27	1/2	2,032.26	1/2	1,729.25
3/4	3/4	3/4	4,144.25	3/4	3,842.54	3/4	3,540.39	3/4	3,238.00	3/4	2,934.99	3/4	2,631.98	3/4	2,328.96	3/4	2,025.95	3/4	1,722.93
6	6	6	4,138.02	6	3,836.24	6	3,534.10	6	3,231.69	6	2,928.68	6	2,625.66	6	2,322.65	6	2,019.63	6	1,716.62
1/4	1/4	1/4	4,131.79	1/4	3,829.95	1/4	3,527.80	1/4	3,225.38	1/4	2,922.36	1/4	2,619.35	1/4	2,316.34	1/4	2,013.32	1/4	1,710.31
1/2	1/2	1/2	4,125.56	1/2	3,823.66	1/2	3,521.51	1/2	3,219.07	1/2	2,916.05	1/2	2,613.04	1/2	2,310.02	1/2	2,007.01	1/2	1,703.99
3/4	3/4	3/4	4,119.32	3/4	3,817.36	3/4	3,515.21	3/4	3,212.75	3/4	2,909.74	3/4	2,606.72	3/4	2,303.71	3/4	2,000.70	3/4	1,697.68
7	7	7	4,113.09	7	3,811.07	7	3,508.92	7	3,206.44	7	2,903.43	7	2,600.41	7	2,297.40	7	1,994.38	7	1,691.37
1/4	1/4	1/4	4,106.83	1/4	3,804.77	1/4	3,502.63	1/4	3,200.13	1/4	2,897.11	1/4	2,594.10	1/4	2,291.08	1/4	1,988.07	1/4	1,685.06
1/2	1/2	1/2	4,100.56	1/2	3,798.48	1/2	3,496.33	1/2	3,193.81	1/2	2,890.80	1/2	2,587.79	1/2	2,284.77	1/2	1,981.76	1/2	1,678.74
3/4	3/4	3/4	4,094.30	3/4	3,792.18	3/4	3,490.04	3/4	3,187.50	3/4	2,884.49	3/4	2,581.47	3/4	2,278.46	3/4	1,975.44	3/4	1,672.43
8	8	8	4,088.03	8	3,785.89	8	3,483.74	8	3,181.19	8	2,878.17	8	2,575.16	8	2,272.15	8	1,969.13	8	1,666.12
1/4	1/4	1/4	4,081.74	1/4	3,779.59	1/4	3,477.45	1/4	3,174.88	1/4	2,871.86	1/4	2,568.85	1/4	2,265.83	1/4	1,962.82	1/4	1,659.80
1/2	1/2	1/2	4,075.44	1/2	3,773.30	1/2	3,471.15	1/2	3,168.56	1/2	2,865.55	1/2	2,562.53	1/2	2,259.52	1/2	1,956.51	1/2	1,653.49
3/4	3/4	3/4	4,069.15	3/4	3,767.00	3/4	3,464.86	3/4	3,162.25	3/4	2,859.24	3/4	2,556.22	3/4	2,253.21	3/4	1,950.19	3/4	1,647.18
9	9	9	4,062.85	9	3,760.71	9	3,458.56	9	3,155.94	9	2,852.92	9	2,549.91	9	2,246.89	9	1,943.88	9	1,640.87
1/4	1/4	1/4	4,056.56	1/4	3,754.41	1/4	3,452.27	1/4	3,149.63	1/4	2,846.61	1/4	2,543.60	1/4	2,240.58	1/4	1,937.57	1/4	1,634.55
1/2	1/2	1/2	4,050.26	1/2	3,748.12	1/2	3,445.97	1/2	3,143.31	1/2	2,840.30	1/2	2,537.28	1/2	2,234.27	1/2	1,931.25	1/2	1,628.24
3/4	3/4	3/4	4,043.97	3/4	3,741.82	3/4	3,439.68	3/4	3,137.00	3/4	2,833.99	3/4	2,530.97	3/4	2,227.96	3/4	1,924.94	3/4	1,621.93
10	10	10	4,037.67	10	3,735.53	10	3,433.38	10	3,130.69	10	2,827.67	10	2,524.66	10	2,221.64	10	1,918.63	10	1,615.61
1/4	1/4	1/4	4,031.38	1/4	3,729.23	1/4	3,427.09	1/4	3,124.37	1/4	2,821.36	1/4	2,518.35	1/4	2,215.33	1/4	1,912.32	1/4	1,609.30
1/2	1/2	1/2	4,025.09	1/2	3,722.94	1/2	3,420.79	1/2	3,118.06	1/2	2,815.05	1/2	2,512.03	1/2	2,209.02	1/2	1,906.00	1/2	1,602.99
3/4	3/4	3/4	4,018.79	3/4	3,716.65	3/4	3,414.50	3/4	3,111.75	3/4	2,808.73	3/4	2,505.72	3/4	2,202.71	3/4	1,899.69	3/4	1,596.68
11	4,298.68	11	4,012.50	11	3,710.35	11	3,408.20	11	3,105.44	11	2,802.42	11	2,499.41	11	2,196.39	11	1,893.38	11	1,590.36
1/4	4,294.55	1/4	4,006.20	1/4	3,704.06	1/4	3,401.91	1/4	3,099.12	1/4	2,796.11	1/4	2,493.09	1/4	2,190.08	1/4	1,887.07	1/4	1,584.05
1/2	4,290.42	1/2	3,999.91	1/2	3,697.76	1/2	3,395.62	1/2	3,092.81	1/2	2,789.80	1/2	2,486.78	1/2	2,183.77	1/2	1,880.75	1/2	1,577.74
3/4	4,286.30	3/4	3,993.61	3/4	3,691.47	3/4	3,389.32	3/4	3,086.50	3/4	2,783.48	3/4	2,480.47	3/4	2,177.45	3/4	1,874.44	3/4	1,571.43

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "MM 320"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02"

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	1,565.11	0	1,263.52	0	962.47	0	660.22	0	358.36	0	61.80	0		0		0		0	
1/4	1,558.80	1/4	1,257.35	1/4	956.16	1/4	653.90	1/4	352.24	1/4	56.10	1/4		1/4		1/4		1/4	
1/2	1,552.49	1/2	1,251.18	1/2	949.86	1/2	647.59	1/2	346.13	1/2	50.40	1/2		1/2		1/2		1/2	
3/4	1,546.17	3/4	1,245.01	3/4	943.55	3/4	641.28	3/4	340.02	3/4	44.69	3/4		3/4		3/4		3/4	
1	1,539.86	1	1,238.84	1	937.24	1	634.96	1	333.90	1	38.99	1		1		1		1	
1/4	1,533.55	1/4	1,232.67	1/4	930.95	1/4	628.65	1/4	327.79	1/4	34.46	1/4		1/4		1/4		1/4	
1/2	1,527.24	1/2	1,226.50	1/2	924.65	1/2	622.34	1/2	321.67	1/2	29.92	1/2		1/2		1/2		1/2	
3/4	1,520.92	3/4	1,220.33	3/4	918.35	3/4	616.02	3/4	315.56	3/4	25.39	3/4		3/4		3/4		3/4	
2	1,514.61	2	1,214.16	2	912.05	2	609.71	2	309.44	2	20.85	2		2		2		2	
1/4	1,508.30	1/4	1,207.99	1/4	905.76	1/4	603.40	1/4	303.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,501.98	1/2	1,201.82	1/2	899.46	1/2	597.08	1/2	297.21	1/2		1/2		1/2		1/2		1/2	
3/4	1,495.67	3/4	1,195.65	3/4	893.17	3/4	590.77	3/4	291.10	3/4		3/4		3/4		3/4		3/4	
3	1,489.36	3	1,189.48	3	886.87	3	584.45	3	284.99	3		3		3		3		3	
1/4	1,483.05	1/4	1,183.23	1/4	880.58	1/4	578.14	1/4	278.87	1/4		1/4		1/4		1/4		1/4	
1/2	1,476.73	1/2	1,176.99	1/2	874.29	1/2	571.83	1/2	272.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,470.42	3/4	1,170.75	3/4	867.99	3/4	565.51	3/4	266.64	3/4		3/4		3/4		3/4		3/4	
4	1,464.11	4	1,164.51	4	861.70	4	559.20	4	260.53	4		4		4		4		4	
1/4	1,457.79	1/4	1,158.19	1/4	855.41	1/4	552.89	1/4	254.31	1/4		1/4		1/4		1/4		1/4	
1/2	1,451.48	1/2	1,151.88	1/2	849.12	1/2	546.57	1/2	248.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,445.17	3/4	1,145.57	3/4	842.82	3/4	540.26	3/4	241.89	3/4		3/4		3/4		3/4		3/4	
5	1,438.86	5	1,139.25	5	836.53	5	533.95	5	235.67	5		5		5		5		5	
1/4	1,432.54	1/4	1,132.94	1/4	830.24	1/4	527.63	1/4	229.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,426.23	1/2	1,126.63	1/2	823.95	1/2	521.32	1/2	223.05	1/2		1/2		1/2		1/2		1/2	
3/4	1,419.92	3/4	1,120.31	3/4	817.65	3/4	515.00	3/4	216.73	3/4		3/4		3/4		3/4		3/4	
6	1,413.61	6	1,114.00	6	811.36	6	508.69	6	210.42	6		6		6		6		6	
1/4	1,407.29	1/4	1,107.68	1/4	805.07	1/4	502.38	1/4	204.11	1/4		1/4		1/4		1/4		1/4	
1/2	1,400.98	1/2	1,101.37	1/2	798.78	1/2	496.06	1/2	197.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,394.67	3/4	1,095.06	3/4	792.48	3/4	489.75	3/4	191.48	3/4		3/4		3/4		3/4		3/4	
7	1,388.35	7	1,088.74	7	786.19	7	483.44	7	185.16	7		7		7		7		7	
1/4	1,382.04	1/4	1,082.43	1/4	779.90	1/4	477.12	1/4	178.85	1/4		1/4		1/4		1/4		1/4	
1/2	1,375.73	1/2	1,076.12	1/2	773.61	1/2	470.81	1/2	172.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,369.42	3/4	1,069.80	3/4	767.31	3/4	464.50	3/4	166.22	3/4		3/4		3/4		3/4		3/4	
8	1,363.10	8	1,063.49	8	761.02	8	458.18	8	159.91	8		8		8		8		8	
1/4	1,356.79	1/4	1,057.17	1/4	754.73	1/4	451.87	1/4	153.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,350.48	1/2	1,050.86	1/2	748.44	1/2	445.56	1/2	147.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,344.16	3/4	1,044.55	3/4	742.14	3/4	439.24	3/4	141.27	3/4		3/4		3/4		3/4		3/4	
9	1,337.85	9	1,038.23	9	735.85	9	432.93	9	135.06	9		9		9		9		9	
1/4	1,331.61	1/4	1,031.92	1/4	729.56	1/4	426.61	1/4	128.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,325.37	1/2	1,025.60	1/2	723.27	1/2	420.30	1/2	122.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,319.13	3/4	1,019.29	3/4	716.97	3/4	413.99	3/4	116.72	3/4		3/4		3/4		3/4		3/4	
10	1,312.88	10	1,012.98	10	710.68	10	407.67	10	110.61	10		10		10		10		10	
1/4	1,306.71	1/4	1,006.66	1/4	704.38	1/4	401.46	1/4	104.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,300.54	1/2	1,000.35	1/2	698.08	1/2	395.24	1/2	98.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,294.37	3/4	994.04	3/4	691.77	3/4	389.03	3/4	92.28	3/4		3/4		3/4		3/4		3/4	
11	1,288.20	11	987.72	11	685.47	11	382.82	11	86.18	11		11		11		11		11	
1/4	1,282.03	1/4	981.41	1/4	679.16	1/4	376.70	1/4	80.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,275.86	1/2	975.09	1/2	672.84	1/2	370.59	1/2	73.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,269.69	3/4	968.78	3/4	666.53	3/4	364.47	3/4	67.90	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "MM 320"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
0		0	4,283.19	0	3,992.25	0	3,689.67	0	3,387.09	0	3,083.85	0	2,780.40	0	2,476.95	0	2,173.51	0	1,870.06	
1/4	1/4		4,279.06	1/4	3,985.94	1/4	3,683.37	1/4	3,380.79	1/4	3,077.53	1/4	2,774.08	1/4	2,470.63	1/4	2,167.19	1/4	1,863.74	
1/2	1/2		4,274.92	1/2	3,979.64	1/2	3,677.06	1/2	3,374.48	1/2	3,071.20	1/2	2,767.76	1/2	2,466.31	1/2	2,160.86	1/2	1,857.42	
3/4	3/4		4,269.74	3/4	3,973.34	3/4	3,670.76	3/4	3,368.18	3/4	3,064.88	3/4	2,761.44	3/4	2,457.99	3/4	2,154.54	3/4	1,851.10	
1		1	4,264.55	1	3,967.03	1	3,664.45	1	3,361.88	1	3,058.56	1	2,755.11	1	2,451.67	1	2,148.22	1	1,844.77	
1/4	1/4		4,259.36	1/4	3,960.73	1/4	3,658.15	1/4	3,355.57	1/4	3,052.24	1/4	2,748.79	1/4	2,445.34	1/4	2,141.90	1/4	1,838.45	
1/2	1/2		4,254.18	1/2	3,954.42	1/2	3,651.85	1/2	3,349.27	1/2	3,045.92	1/2	2,742.47	1/2	2,439.02	1/2	2,135.58	1/2	1,832.13	
3/4	3/4		4,248.22	3/4	3,948.12	3/4	3,645.54	3/4	3,342.97	3/4	3,039.59	3/4	2,736.15	3/4	2,432.70	3/4	2,129.25	3/4	1,825.81	
2		2	4,242.25	2	3,941.82	2	3,639.24	2	3,336.66	2	3,033.27	2	2,729.83	2	2,426.38	2	2,122.93	2	1,819.49	
1/4	1/4		4,236.29	1/4	3,935.51	1/4	3,632.94	1/4	3,330.36	1/4	3,026.95	1/4	2,723.50	1/4	2,420.06	1/4	2,116.61	1/4	1,813.16	
1/2	1/2		4,230.33	1/2	3,929.21	1/2	3,626.63	1/2	3,324.05	1/2	3,020.63	1/2	2,717.18	1/2	2,413.74	1/2	2,110.29	1/2	1,806.84	
3/4	3/4		4,224.11	3/4	3,922.91	3/4	3,620.33	3/4	3,317.74	3/4	3,014.31	3/4	2,710.86	3/4	2,407.41	3/4	2,103.97	3/4	1,800.52	
3		3	4,217.89	3	3,916.60	3	3,614.03	3	3,311.42	3	3,007.99	3	2,704.54	3	2,401.09	3	2,097.65	3	1,794.20	
1/4	1/4		4,211.66	1/4	3,910.30	1/4	3,607.72	1/4	3,305.10	1/4	3,001.66	1/4	2,698.22	1/4	2,394.77	1/4	2,091.32	1/4	1,787.88	
1/2	1/2		4,205.44	1/2	3,904.00	1/2	3,601.42	1/2	3,298.79	1/2	2,995.34	1/2	2,691.90	1/2	2,388.45	1/2	2,085.00	1/2	1,781.56	
3/4	3/4		4,199.20	3/4	3,897.69	3/4	3,595.11	3/4	3,292.47	3/4	2,989.02	3/4	2,685.57	3/4	2,382.13	3/4	2,078.68	3/4	1,775.23	
4		4	4,192.97	4	3,891.39	4	3,588.81	4	3,286.14	4	2,982.70	4	2,679.25	4	2,375.81	4	2,072.36	4	1,768.91	
1/4	1/4		4,186.73	1/4	3,885.08	1/4	3,582.51	1/4	3,279.82	1/4	2,976.38	1/4	2,672.93	1/4	2,369.48	1/4	2,066.04	1/4	1,762.59	
1/2	1/2		4,180.49	1/2	3,878.78	1/2	3,576.20	1/2	3,273.50	1/2	2,970.05	1/2	2,666.61	1/2	2,363.16	1/2	2,059.72	1/2	1,756.27	
3/4	3/4		4,174.25	3/4	3,872.48	3/4	3,569.90	3/4	3,267.18	3/4	2,963.73	3/4	2,660.29	3/4	2,356.84	3/4	2,053.39	3/4	1,749.95	
5		5	4,168.01	5	3,866.17	5	3,563.60	5	3,260.86	5	2,957.41	5	2,653.96	5	2,350.52	5	2,047.07	5	1,743.63	
1/4	1/4		4,161.77	1/4	3,859.87	1/4	3,557.29	1/4	3,254.54	1/4	2,951.09	1/4	2,647.64	1/4	2,344.20	1/4	2,040.75	1/4	1,737.30	
1/2	1/2		4,155.53	1/2	3,853.57	1/2	3,550.99	1/2	3,248.21	1/2	2,944.77	1/2	2,641.32	1/2	2,337.87	1/2	2,034.43	1/2	1,730.98	
3/4	3/4		4,149.28	3/4	3,847.26	3/4	3,544.68	3/4	3,241.89	3/4	2,938.45	3/4	2,635.00	3/4	2,331.55	3/4	2,028.11	3/4	1,724.66	
6		6	4,143.04	6	3,840.96	6	3,538.38	6	3,235.57	6	2,932.12	6	2,628.68	6	2,325.23	6	2,021.78	6	1,718.34	
1/4	1/4		4,136.80	1/4	3,834.65	1/4	3,532.08	1/4	3,229.25	1/4	2,925.80	1/4	2,622.36	1/4	2,318.91	1/4	2,015.46	1/4	1,712.02	
1/2	1/2		4,130.56	1/2	3,828.35	1/2	3,525.77	1/2	3,222.93	1/2	2,919.48	1/2	2,616.03	1/2	2,312.59	1/2	2,009.14	1/2	1,705.69	
3/4	3/4		4,124.32	3/4	3,822.05	3/4	3,519.47	3/4	3,216.60	3/4	2,913.16	3/4	2,609.71	3/4	2,306.27	3/4	2,002.82	3/4	1,699.37	
7		7	4,118.08	7	3,815.74	7	3,513.17	7	3,210.28	7	2,906.84	7	2,603.39	7	2,299.94	7	1,996.50	7	1,693.05	
1/4	1/4		4,111.84	1/4	3,809.44	1/4	3,506.86	1/4	3,203.96	1/4	2,900.51	1/4	2,597.07	1/4	2,293.62	1/4	1,990.18	1/4	1,686.73	
1/2	1/2		4,105.60	1/2	3,803.14	1/2	3,500.56	1/2	3,197.64	1/2	2,894.19	1/2	2,590.75	1/2	2,287.30	1/2	1,983.85	1/2	1,680.41	
3/4	3/4		4,099.32	3/4	3,796.83	3/4	3,494.25	3/4	3,191.32	3/4	2,887.87	3/4	2,584.42	3/4	2,280.98	3/4	1,977.53	3/4	1,674.09	
8		8	4,093.05	8	3,790.53	8	3,487.95	8	3,185.00	8	2,881.55	8	2,578.10	8	2,274.66	8	1,971.21	8	1,667.76	
1/4	1/4		4,086.77	1/4	3,784.22	1/4	3,481.65	1/4	3,178.67	1/4	2,875.23	1/4	2,571.78	1/4	2,268.33	1/4	1,964.89	1/4	1,661.44	
1/2	1/2		4,080.50	1/2	3,777.92	1/2	3,475.34	1/2	3,172.35	1/2	2,868.91	1/2	2,565.46	1/2	2,262.01	1/2	1,958.57	1/2	1,655.12	
3/4	3/4		4,074.20	3/4	3,771.62	3/4	3,469.04	3/4	3,166.03	3/4	2,862.58	3/4	2,559.14	3/4	2,255.69	3/4	1,952.24	3/4	1,648.80	
9		9	4,067.89	9	3,765.31	9	3,462.74	9	3,159.71	9	2,856.26	9	2,552.82	9	2,249.37	9	1,945.92	9	1,642.48	
1/4	1/4		4,061.59	1/4	3,759.01	1/4	3,456.43	1/4	3,153.39	1/4	2,849.94	1/4	2,546.49	1/4	2,243.05	1/4	1,939.60	1/4	1,636.15	
1/2	1/2		4,055.28	1/2	3,752.71	1/2	3,450.13	1/2	3,147.06	1/2	2,843.62	1/2	2,540.17	1/2	2,236.73	1/2	1,933.28	1/2	1,629.83	
3/4	3/4		4,048.98	3/4	3,746.40	3/4	3,443.83	3/4	3,140.74	3/4	2,837.30	3/4	2,533.85	3/4	2,230.40	3/4	1,926.96	3/4	1,623.51	
10		10	4,042.68	10	3,740.10	10	3,437.52	10	3,134.42	10	2,830.97	10	2,527.53	10	2,224.08	10	1,920.64	10	1,617.19	
1/4	1/4		4,036.37	1/4	3,733.80	1/4	3,431.22	1/4	3,128.10	1/4	2,824.65	1/4	2,521.21	1/4	2,217.76	1/4	1,914.31	1/4	1,610.87	
1/2	1/2		4,030.07	1/2	3,727.49	1/2	3,424.91	1/2	3,121.78	1/2	2,818.33	1/2	2,514.88	1/2	2,211.44	1/2	1,907.99	1/2	1,604.55	
3/4	3/4		4,023.77	3/4	3,721.19	3/4	3,418.61	3/4	3,115.46	3/4	2,812.01	3/4	2,508.56	3/4	2,205.12	3/4	1,901.67	3/4	1,598.22	
11		11	4,017.46	11	3,714.88	11	3,412.31	11	3,109.13	11	2,805.69	11	2,502.24	11	2,198.79	11	1,895.35	11	1,591.90	
1/4	1/4		4,011.16	1/4	3,708.58	1/4	3,406.00	1/4	3,102.81	1/4	2,799.37	1/4	2,495.92	1/4	2,192.47	1/4	1,889.03	1/4	1,585.58	
1/2		4,291.46	1/2	4,004.85	1/2	3,702.28	1/2	3,399.70	1/2	3,096.49	1/2	2,793.04	1/2	2,489.60	1/2	2,186.15	1/2	1,882.70	1/2	1,579.26
3/4		4,287.33	3/4	3,998.55	3/4	3,695.97	3/4	3,393.40	3/4	3,090.17	3/4	2,786.72	3/4	2,483.28	3/4	2,179.83	3/4	1,876.38	3/4	1,572.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 320"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,566.61	0	1,264.31	0	964.22	0	673.81	0	371.12	0	74.09	0		0		0			
1/4	1,560.29	1/4	1,258.13	1/4	958.18	1/4	667.48	1/4	365.00	1/4	67.99	1/4		1/4		1/4		1/4	
1/2	1,553.97	1/2	1,251.95	1/2	952.14	1/2	661.16	1/2	358.87	1/2	61.89	1/2		1/2		1/2		1/2	
3/4	1,547.65	3/4	1,245.77	3/4	946.10	3/4	654.84	3/4	352.75	3/4	56.18	3/4		3/4		3/4		3/4	
1	1,541.33	1	1,239.59	1	940.06	1	648.52	1	346.63	1	50.47	1		1		1		1	
1/4	1,535.01	1/4	1,233.41	1/4	934.03	1/4	642.19	1/4	340.50	1/4	44.76	1/4		1/4		1/4		1/4	
1/2	1,528.68	1/2	1,227.23	1/2	927.99	1/2	635.87	1/2	334.38	1/2	39.05	1/2		1/2		1/2		1/2	
3/4	1,522.36	3/4	1,221.05	3/4	921.96	3/4	629.55	3/4	328.26	3/4	34.50	3/4		3/4		3/4		3/4	
2	1,516.04	2	1,214.87	2	915.94	2	623.23	2	322.13	2	29.96	2		2		2		2	
1/4	1,509.72	1/4	1,208.69	1/4	909.91	1/4	616.90	1/4	316.01	1/4	25.42	1/4		1/4		1/4		1/4	
1/2	1,503.40	1/2	1,202.51	1/2	903.88	1/2	610.58	1/2	309.89	1/2	20.88	1/2		1/2		1/2		1/2	
3/4	1,497.07	3/4	1,196.34	3/4	897.85	3/4	604.26	3/4	303.76	3/4		3/4		3/4		3/4		3/4	
3	1,490.75	3	1,190.16	3	891.83	3	597.94	3	297.64	3		3		3		3		3	
1/4	1,484.43	1/4	1,183.98	1/4	885.80	1/4	591.61	1/4	291.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,478.11	1/2	1,177.80	1/2	879.78	1/2	585.29	1/2	285.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,471.79	3/4	1,171.55	3/4	873.75	3/4	578.97	3/4	279.27	3/4		3/4		3/4		3/4		3/4	
4	1,465.47	4	1,165.30	4	867.73	4	572.65	4	273.15	4		4		4		4		4	
1/4	1,459.14	1/4	1,159.04	1/4	861.71	1/4	566.32	1/4	267.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,452.82	1/2	1,152.79	1/2	855.69	1/2	560.00	1/2	260.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,446.50	3/4	1,146.47	3/4	849.66	3/4	553.68	3/4	254.68	3/4		3/4		3/4		3/4		3/4	
5	1,440.18	5	1,140.15	5	843.64	5	547.36	5	248.46	5		5		5		5		5	
1/4	1,433.86	1/4	1,133.82	1/4	837.62	1/4	541.03	1/4	242.23	1/4		1/4		1/4		1/4		1/4	
1/2	1,427.54	1/2	1,127.50	1/2	831.60	1/2	534.71	1/2	236.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,421.21	3/4	1,121.18	3/4	825.57	3/4	528.39	3/4	229.69	3/4		3/4		3/4		3/4		3/4	
6	1,414.89	6	1,114.86	6	819.55	6	522.06	6	223.36	6		6		6		6		6	
1/4	1,408.57	1/4	1,108.53	1/4	813.53	1/4	515.74	1/4	217.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,402.25	1/2	1,102.21	1/2	807.50	1/2	509.42	1/2	210.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,395.93	3/4	1,095.89	3/4	801.48	3/4	503.10	3/4	204.40	3/4		3/4		3/4		3/4		3/4	
7	1,389.60	7	1,089.57	7	795.46	7	496.77	7	198.07	7		7		7		7		7	
1/4	1,383.28	1/4	1,083.24	1/4	789.44	1/4	490.45	1/4	191.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,376.96	1/2	1,076.92	1/2	783.41	1/2	484.13	1/2	185.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,370.64	3/4	1,070.60	3/4	777.39	3/4	477.81	3/4	179.11	3/4		3/4		3/4		3/4		3/4	
8	1,364.32	8	1,064.27	8	771.37	8	471.48	8	172.78	8		8		8		8		8	
1/4	1,358.00	1/4	1,057.95	1/4	765.35	1/4	465.16	1/4	166.46	1/4		1/4		1/4		1/4		1/4	
1/2	1,351.67	1/2	1,051.63	1/2	759.32	1/2	458.84	1/2	160.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,345.35	3/4	1,045.31	3/4	753.30	3/4	452.52	3/4	153.92	3/4		3/4		3/4		3/4		3/4	
9	1,339.03	9	1,038.98	9	747.28	9	446.19	9	147.69	9		9		9		9		9	
1/4	1,332.71	1/4	1,032.66	1/4	741.25	1/4	439.87	1/4	141.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,326.39	1/2	1,026.34	1/2	735.23	1/2	433.55	1/2	135.25	1/2		1/2		1/2		1/2		1/2	
3/4	1,320.14	3/4	1,020.01	3/4	729.21	3/4	427.23	3/4	129.13	3/4		3/4		3/4		3/4		3/4	
10	1,313.88	10	1,013.69	10	723.19	10	420.90	10	123.01	10		10		10		10		10	
1/4	1,307.63	1/4	1,007.37	1/4	717.16	1/4	414.58	1/4	116.89	1/4		1/4		1/4		1/4		1/4	
1/2	1,301.38	1/2	1,001.05	1/2	711.14	1/2	408.26	1/2	110.77	1/2		1/2		1/2		1/2		1/2	
3/4	1,295.20	3/4	994.86	3/4	704.97	3/4	402.03	3/4	104.65	3/4		3/4		3/4		3/4		3/4	
11	1,289.02	11	988.68	11	698.80	11	395.81	11	98.53	11		11		11		11		11	
1/4	1,282.85	1/4	982.50	1/4	692.62	1/4	389.59	1/4	92.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,276.67	1/2	976.31	1/2	686.45	1/2	383.36	1/2	86.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,270.49	3/4	970.27	3/4	680.13	3/4	377.24	3/4	80.20	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "MM 320"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	4,302.00	0	4,013.14	0	3,710.47	0	3,407.80	0	3,104.48	0	2,800.94	0	2,497.40	0	2,193.87	0	1,890.33
1/4	1/4	4,297.86	1/4	4,006.84	1/4	3,704.17	1/4	3,401.50	1/4	3,098.15	1/4	2,794.62	1/4	2,491.08	1/4	2,187.54	1/4	1,884.00	
1/2	1/2	4,293.73	1/2	4,000.53	1/2	3,697.86	1/2	3,395.19	1/2	3,091.83	1/2	2,788.29	1/2	2,484.76	1/2	2,181.22	1/2	1,877.68	
3/4	3/4	4,289.59	3/4	3,994.22	3/4	3,691.56	3/4	3,388.89	3/4	3,085.51	3/4	2,781.97	3/4	2,478.43	3/4	2,174.89	3/4	1,871.36	
1	1	4,284.40	1	3,987.92	1	3,685.25	1	3,382.58	1	3,079.18	1	2,775.65	1	2,472.11	1	2,168.57	1	1,865.03	
1/4	1/4	4,279.21	1/4	3,981.61	1/4	3,678.94	1/4	3,376.28	1/4	3,072.86	1/4	2,769.32	1/4	2,465.78	1/4	2,162.25	1/4	1,858.71	
1/2	1/2	4,274.03	1/2	3,975.31	1/2	3,672.64	1/2	3,369.97	1/2	3,066.54	1/2	2,763.00	1/2	2,459.46	1/2	2,155.92	1/2	1,852.39	
3/4	3/4	4,268.84	3/4	3,969.00	3/4	3,666.33	3/4	3,363.66	3/4	3,060.21	3/4	2,756.67	3/4	2,453.14	3/4	2,149.60	3/4	1,846.06	
2	2	4,262.87	2	3,962.70	2	3,660.03	2	3,357.36	2	3,053.89	2	2,750.35	2	2,446.81	2	2,143.28	2	1,839.74	
1/4	1/4	4,256.91	1/4	3,956.39	1/4	3,653.72	1/4	3,351.05	1/4	3,047.57	1/4	2,744.03	1/4	2,440.49	1/4	2,136.95	1/4	1,833.41	
1/2	1/2	4,250.95	1/2	3,950.09	1/2	3,647.42	1/2	3,344.75	1/2	3,041.24	1/2	2,737.70	1/2	2,434.17	1/2	2,130.63	1/2	1,827.09	
3/4	3/4	4,244.98	3/4	3,943.78	3/4	3,641.11	3/4	3,338.44	3/4	3,034.92	3/4	2,731.38	3/4	2,427.84	3/4	2,124.30	3/4	1,820.77	
3	3	4,238.76	3	3,937.47	3	3,634.81	3	3,332.12	3	3,028.59	3	2,725.06	3	2,421.52	3	2,117.98	3	1,814.44	
1/4	1/4	4,232.53	1/4	3,931.17	1/4	3,628.50	1/4	3,325.80	1/4	3,022.27	1/4	2,718.73	1/4	2,415.20	1/4	2,111.66	1/4	1,808.12	
1/2	1/2	4,226.31	1/2	3,924.86	1/2	3,622.19	1/2	3,319.48	1/2	3,015.95	1/2	2,712.41	1/2	2,408.87	1/2	2,105.33	1/2	1,801.80	
3/4	3/4	4,220.09	3/4	3,918.56	3/4	3,615.89	3/4	3,313.16	3/4	3,009.62	3/4	2,706.09	3/4	2,402.55	3/4	2,099.01	3/4	1,795.47	
4	4	4,213.85	4	3,912.25	4	3,609.58	4	3,306.84	4	3,003.30	4	2,699.76	4	2,396.22	4	2,092.69	4	1,789.15	
1/4	1/4	4,207.61	1/4	3,905.95	1/4	3,603.28	1/4	3,300.51	1/4	2,996.98	1/4	2,693.44	1/4	2,389.90	1/4	2,086.36	1/4	1,782.83	
1/2	1/2	4,201.37	1/2	3,899.64	1/2	3,596.97	1/2	3,294.19	1/2	2,990.65	1/2	2,687.11	1/2	2,383.58	1/2	2,080.04	1/2	1,776.50	
3/4	3/4	4,195.13	3/4	3,893.34	3/4	3,590.67	3/4	3,287.87	3/4	2,984.33	3/4	2,680.79	3/4	2,377.25	3/4	2,073.72	3/4	1,770.18	
5	5	4,188.89	5	3,887.03	5	3,584.36	5	3,281.54	5	2,978.00	5	2,674.47	5	2,370.93	5	2,067.39	5	1,763.85	
1/4	1/4	4,182.65	1/4	3,880.72	1/4	3,578.06	1/4	3,275.22	1/4	2,971.68	1/4	2,668.14	1/4	2,364.61	1/4	2,061.07	1/4	1,757.53	
1/2	1/2	4,176.41	1/2	3,874.42	1/2	3,571.75	1/2	3,268.89	1/2	2,965.36	1/2	2,661.82	1/2	2,358.28	1/2	2,054.74	1/2	1,751.21	
3/4	3/4	4,170.17	3/4	3,868.11	3/4	3,565.44	3/4	3,262.57	3/4	2,959.03	3/4	2,655.50	3/4	2,351.96	3/4	2,048.42	3/4	1,744.88	
6	6	4,163.92	6	3,861.81	6	3,559.14	6	3,256.25	6	2,952.71	6	2,649.17	6	2,345.63	6	2,042.10	6	1,738.56	
1/4	1/4	4,157.68	1/4	3,855.50	1/4	3,552.83	1/4	3,249.92	1/4	2,946.39	1/4	2,642.85	1/4	2,339.31	1/4	2,035.77	1/4	1,732.24	
1/2	1/2	4,151.44	1/2	3,849.20	1/2	3,546.53	1/2	3,243.60	1/2	2,940.06	1/2	2,636.52	1/2	2,332.99	1/2	2,029.45	1/2	1,725.91	
3/4	3/4	4,145.19	3/4	3,842.89	3/4	3,540.22	3/4	3,237.28	3/4	2,933.74	3/4	2,630.20	3/4	2,326.66	3/4	2,023.13	3/4	1,719.59	
7	7	4,138.95	7	3,836.58	7	3,533.92	7	3,230.95	7	2,927.41	7	2,623.88	7	2,320.34	7	2,016.80	7	1,713.26	
1/4	1/4	4,132.71	1/4	3,830.28	1/4	3,527.61	1/4	3,224.63	1/4	2,921.09	1/4	2,617.55	1/4	2,314.02	1/4	2,010.48	1/4	1,706.94	
1/2	1/2	4,126.46	1/2	3,823.97	1/2	3,521.30	1/2	3,218.30	1/2	2,914.77	1/2	2,611.23	1/2	2,307.69	1/2	2,004.15	1/2	1,700.62	
3/4	3/4	4,120.22	3/4	3,817.67	3/4	3,515.00	3/4	3,211.98	3/4	2,908.44	3/4	2,604.91	3/4	2,301.37	3/4	1,997.83	3/4	1,694.29	
8	8	4,113.94	8	3,811.36	8	3,508.69	8	3,205.66	8	2,902.12	8	2,598.58	8	2,295.04	8	1,991.51	8	1,687.97	
1/4	1/4	4,107.67	1/4	3,805.06	1/4	3,502.39	1/4	3,199.33	1/4	2,895.80	1/4	2,592.26	1/4	2,288.72	1/4	1,985.18	1/4	1,681.65	
1/2	1/2	4,101.39	1/2	3,798.75	1/2	3,496.08	1/2	3,193.01	1/2	2,889.47	1/2	2,585.93	1/2	2,282.40	1/2	1,978.86	1/2	1,675.32	
3/4	3/4	4,095.11	3/4	3,792.45	3/4	3,489.78	3/4	3,186.69	3/4	2,883.15	3/4	2,579.61	3/4	2,276.07	3/4	1,972.54	3/4	1,669.00	
9	9	4,088.81	9	3,786.14	9	3,483.47	9	3,180.36	9	2,876.83	9	2,573.29	9	2,269.75	9	1,966.21	9	1,662.67	
1/4	1/4	4,082.50	1/4	3,779.83	1/4	3,477.17	1/4	3,174.04	1/4	2,870.50	1/4	2,566.96	1/4	2,263.43	1/4	1,959.89	1/4	1,656.35	
1/2	1/2	4,076.20	1/2	3,773.53	1/2	3,470.86	1/2	3,167.72	1/2	2,864.18	1/2	2,560.64	1/2	2,257.10	1/2	1,953.56	1/2	1,650.03	
3/4	3/4	4,069.89	3/4	3,767.22	3/4	3,464.55	3/4	3,161.39	3/4	2,857.85	3/4	2,554.32	3/4	2,250.78	3/4	1,947.24	3/4	1,643.70	
10	10	4,063.59	10	3,760.92	10	3,458.25	10	3,155.07	10	2,851.53	10	2,547.99	10	2,244.46	10	1,940.92	10	1,637.38	
1/4	1/4	4,057.28	1/4	3,754.61	1/4	3,451.94	1/4	3,148.74	1/4	2,845.21	1/4	2,541.67	1/4	2,238.13	1/4	1,934.59	1/4	1,631.06	
1/2	1/2	4,050.98	1/2	3,748.31	1/2	3,445.64	1/2	3,142.42	1/2	2,838.88	1/2	2,535.35	1/2	2,231.81	1/2	1,928.27	1/2	1,624.73	
3/4	3/4	4,044.67	3/4	3,742.00	3/4	3,439.33	3/4	3,136.10	3/4	2,832.56	3/4	2,529.02	3/4	2,225.48	3/4	1,921.95	3/4	1,618.41	
11	11	4,038.36	11	3,735.70	11	3,433.03	11	3,129.77	11	2,826.24	11	2,522.70	11	2,219.16	11	1,915.62	11	1,612.09	
1/4	1/4	4,032.06	1/4	3,729.39	1/4	3,426.72	1/4	3,123.45	1/4	2,819.91	1/4	2,516.37	1/4	2,212.84	1/4	1,909.30	1/4	1,605.76	
1/2	1/2	4,025.75	1/2	3,723.08	1/2	3,420.42	1/2	3,117.13	1/2	2,813.59	1/2	2,510.05	1/2	2,206.51	1/2	1,902.98	1/2	1,599.44	
3/4	3/4	4,019.45	3/4	3,716.78	3/4	3,414.11	3/4	3,110.80	3/4	2,807.26	3/4	2,503.73	3/4	2,200.19	3/4	1,896.65	3/4	1,593.11	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 12'-08" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 12'-08" OFF CENTERLINE AND 34'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "MM 320"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	1,586.79	0	1,284.25	0	983.10	0	680.33	0	377.35	0	80.22	0		0		0		0	
1/4	1,580.47	1/4	1,278.07	1/4	976.78	1/4	674.00	1/4	371.22	1/4	74.11	1/4		1/4		1/4		1/4	
1/2	1,574.14	1/2	1,271.89	1/2	970.46	1/2	667.68	1/2	365.10	1/2	68.01	1/2		1/2		1/2		1/2	
3/4	1,567.82	3/4	1,265.71	3/4	964.13	3/4	661.35	3/4	358.97	3/4	61.91	3/4		3/4		3/4		3/4	
1	1,561.50	1	1,259.52	1	957.81	1	655.03	1	352.85	1	56.19	1		1		1		1	
1/4	1,555.17	1/4	1,253.34	1/4	951.50	1/4	648.71	1/4	346.72	1/4	50.48	1/4		1/4		1/4		1/4	
1/2	1,548.85	1/2	1,247.16	1/2	945.18	1/2	642.38	1/2	340.60	1/2	44.77	1/2		1/2		1/2		1/2	
3/4	1,542.52	3/4	1,240.98	3/4	938.86	3/4	636.06	3/4	334.47	3/4	39.05	3/4		3/4		3/4		3/4	
2	1,536.20	2	1,234.80	2	932.55	2	629.73	2	328.35	2	34.51	2		2		2		2	
1/4	1,529.88	1/4	1,228.62	1/4	926.25	1/4	623.41	1/4	322.22	1/4	29.97	1/4		1/4		1/4		1/4	
1/2	1,523.55	1/2	1,222.44	1/2	919.94	1/2	617.08	1/2	316.10	1/2	25.42	1/2		1/2		1/2		1/2	
3/4	1,517.23	3/4	1,216.26	3/4	913.63	3/4	610.76	3/4	309.97	3/4	20.88	3/4		3/4		3/4		3/4	
3	1,510.91	3	1,210.08	3	907.32	3	604.43	3	303.85	3		3		3		3		3	
1/4	1,504.58	1/4	1,203.90	1/4	901.02	1/4	598.11	1/4	297.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,498.26	1/2	1,197.71	1/2	894.71	1/2	591.79	1/2	291.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,491.93	3/4	1,191.53	3/4	888.40	3/4	585.46	3/4	285.47	3/4		3/4		3/4		3/4		3/4	
4	1,485.61	4	1,185.28	4	882.10	4	579.14	4	279.35	4		4		4		4		4	
1/4	1,479.29	1/4	1,179.03	1/4	875.80	1/4	572.81	1/4	273.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,472.96	1/2	1,172.77	1/2	869.49	1/2	566.49	1/2	267.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,466.64	3/4	1,166.52	3/4	863.19	3/4	560.16	3/4	260.97	3/4		3/4		3/4		3/4		3/4	
5	1,460.32	5	1,160.20	5	856.89	5	553.84	5	254.75	5		5		5		5		5	
1/4	1,453.99	1/4	1,153.87	1/4	850.58	1/4	547.51	1/4	248.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,447.67	1/2	1,147.55	1/2	844.28	1/2	541.19	1/2	242.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,441.35	3/4	1,141.22	3/4	837.98	3/4	534.86	3/4	236.08	3/4		3/4		3/4		3/4		3/4	
6	1,435.02	6	1,134.90	6	831.67	6	528.54	6	229.75	6		6		6		6		6	
1/4	1,428.70	1/4	1,128.57	1/4	825.37	1/4	522.22	1/4	223.43	1/4		1/4		1/4		1/4		1/4	
1/2	1,422.37	1/2	1,122.25	1/2	819.07	1/2	515.89	1/2	217.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,416.05	3/4	1,115.92	3/4	812.76	3/4	509.57	3/4	210.78	3/4		3/4		3/4		3/4		3/4	
7	1,409.73	7	1,109.60	7	806.46	7	503.24	7	204.45	7		7		7		7		7	
1/4	1,403.40	1/4	1,103.27	1/4	800.16	1/4	496.92	1/4	198.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,397.08	1/2	1,096.95	1/2	793.85	1/2	490.59	1/2	191.80	1/2		1/2		1/2		1/2		1/2	
3/4	1,390.76	3/4	1,090.62	3/4	787.55	3/4	484.27	3/4	185.48	3/4		3/4		3/4		3/4		3/4	
8	1,384.43	8	1,084.30	8	781.25	8	477.94	8	179.16	8		8		8		8		8	
1/4	1,378.11	1/4	1,077.98	1/4	774.94	1/4	471.62	1/4	172.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,371.78	1/2	1,071.65	1/2	768.64	1/2	465.30	1/2	166.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,365.46	3/4	1,065.33	3/4	762.33	3/4	458.97	3/4	160.18	3/4		3/4		3/4		3/4		3/4	
9	1,359.14	9	1,059.00	9	756.03	9	452.65	9	153.96	9		9		9		9		9	
1/4	1,352.81	1/4	1,052.68	1/4	749.73	1/4	446.32	1/4	147.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,346.49	1/2	1,046.35	1/2	743.42	1/2	440.00	1/2	141.51	1/2		1/2		1/2		1/2		1/2	
3/4	1,340.17	3/4	1,040.03	3/4	737.12	3/4	433.67	3/4	135.29	3/4		3/4		3/4		3/4		3/4	
10	1,333.91	10	1,033.70	10	730.82	10	427.35	10	129.16	10		10		10		10		10	
1/4	1,327.66	1/4	1,027.38	1/4	724.51	1/4	421.02	1/4	123.04	1/4		1/4		1/4		1/4		1/4	
1/2	1,321.41	1/2	1,021.05	1/2	718.21	1/2	414.70	1/2	116.92	1/2		1/2		1/2		1/2		1/2	
3/4	1,315.15	3/4	1,014.73	3/4	711.91	3/4	408.37	3/4	110.79	3/4		3/4		3/4		3/4		3/4	
11	1,308.97	11	1,008.40	11	705.59	11	402.15	11	104.68	11		11		11		11		11	
1/4	1,302.79	1/4	1,002.08	1/4	699.28	1/4	395.92	1/4	98.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,296.61	1/2	995.75	1/2	692.97	1/2	389.70	1/2	92.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,290.43	3/4	989.43	3/4	686.65	3/4	383.47	3/4	86.32	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 CL  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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





# BARGE "MM 320"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0		0	2,072.42	0	1,880.73	0	1,663.04	0	1,445.34	0	1,227.30	0	1,009.46	0	794.70	0	580.58	0	367.35	0	152.00
1/4		1/4	2,071.15	1/4	1,876.20	1/4	1,658.50	1/4	1,440.81	1/4	1,222.75	1/4	1,004.95	1/4	790.18	1/4	576.22	1/4	362.80	1/4	147.59
1/2		1/2	2,069.12	1/2	1,871.66	1/2	1,653.97	1/2	1,436.27	1/2	1,218.20	1/2	1,000.45	1/2	785.63	1/2	571.87	1/2	358.26	1/2	143.07
3/4		3/4	2,067.09	3/4	1,867.13	3/4	1,649.43	3/4	1,431.74	3/4	1,213.65	3/4	995.94	3/4	781.09	3/4	567.52	3/4	353.71	3/4	138.55
1		1	2,065.06	1	1,862.59	1	1,644.90	1	1,427.20	1	1,209.10	1	991.43	1	776.54	1	563.17	1	349.16	1	134.03
1/4		1/4	2,063.02	1/4	1,858.06	1/4	1,640.36	1/4	1,422.67	1/4	1,204.55	1/4	986.93	1/4	772.00	1/4	558.82	1/4	344.61	1/4	129.51
1/2		1/2	2,060.23	1/2	1,853.52	1/2	1,635.83	1/2	1,418.13	1/2	1,200.00	1/2	982.42	1/2	767.45	1/2	554.47	1/2	340.06	1/2	124.96
3/4		3/4	2,057.44	3/4	1,848.99	3/4	1,631.29	3/4	1,413.60	3/4	1,195.45	3/4	977.91	3/4	762.90	3/4	550.11	3/4	335.52	3/4	120.41
2		2	2,054.64	2	1,844.45	2	1,626.76	2	1,409.06	2	1,190.90	2	973.41	2	758.36	2	545.76	2	330.97	2	115.85
1/4		1/4	2,051.85	1/4	1,839.91	1/4	1,622.22	1/4	1,404.53	1/4	1,186.35	1/4	968.90	1/4	753.81	1/4	541.41	1/4	326.42	1/4	111.30
1/2		1/2	2,048.30	1/2	1,835.38	1/2	1,617.69	1/2	1,399.99	1/2	1,181.80	1/2	964.39	1/2	749.27	1/2	537.06	1/2	321.87	1/2	106.74
3/4		3/4	2,044.74	3/4	1,830.84	3/4	1,613.15	3/4	1,395.46	3/4	1,177.25	3/4	959.89	3/4	744.72	3/4	532.71	3/4	317.32	3/4	102.17
3		3	2,041.18	3	1,826.31	3	1,608.61	3	1,390.92	3	1,172.70	3	955.38	3	740.17	3	528.35	3	312.77	3	97.61
1/4		1/4	2,037.63	1/4	1,821.77	1/4	1,604.08	1/4	1,386.38	1/4	1,168.15	1/4	950.87	1/4	735.63	1/4	524.00	1/4	308.23	1/4	93.05
1/2		1/2	2,033.31	1/2	1,817.24	1/2	1,599.54	1/2	1,381.85	1/2	1,163.61	1/2	946.37	1/2	731.08	1/2	519.65	1/2	303.68	1/2	88.48
3/4		3/4	2,029.00	3/4	1,812.70	3/4	1,595.01	3/4	1,377.31	3/4	1,159.06	3/4	941.86	3/4	726.54	3/4	515.30	3/4	299.13	3/4	83.92
4		4	2,024.68	4	1,808.17	4	1,590.47	4	1,372.78	4	1,154.51	4	937.36	4	721.99	4	510.95	4	294.58	4	79.35
1/4		1/4	2,020.37	1/4	1,803.63	1/4	1,585.94	1/4	1,368.24	1/4	1,149.96	1/4	932.85	1/4	717.44	1/4	506.60	1/4	290.03	1/4	74.79
1/2		1/2	2,015.86	1/2	1,799.10	1/2	1,581.40	1/2	1,363.71	1/2	1,145.41	1/2	928.34	1/2	712.90	1/2	502.24	1/2	285.48	1/2	70.33
3/4		3/4	2,011.35	3/4	1,794.56	3/4	1,576.87	3/4	1,359.17	3/4	1,140.86	3/4	923.84	3/4	708.35	3/4	497.89	3/4	280.93	3/4	65.87
5		5	2,006.85	5	1,790.03	5	1,572.33	5	1,354.64	5	1,136.31	5	919.33	5	703.81	5	493.53	5	276.37	5	61.41
1/4		1/4	2,002.34	1/4	1,785.49	1/4	1,567.80	1/4	1,350.10	1/4	1,131.76	1/4	914.82	1/4	699.26	1/4	489.18	1/4	271.82	1/4	56.96
1/2		1/2	1,997.85	1/2	1,780.96	1/2	1,563.26	1/2	1,345.56	1/2	1,127.21	1/2	910.37	1/2	694.71	1/2	484.83	1/2	267.27	1/2	52.96
3/4		3/4	1,993.35	3/4	1,776.42	3/4	1,558.73	3/4	1,341.02	3/4	1,122.67	3/4	905.91	3/4	690.17	3/4	480.47	3/4	262.71	3/4	48.97
6		6	1,988.86	6	1,771.89	6	1,554.19	6	1,336.48	6	1,118.12	6	901.46	6	685.62	6	476.12	6	258.15	6	44.98
1/4		1/4	1,984.37	1/4	1,767.35	1/4	1,549.66	1/4	1,331.94	1/4	1,113.58	1/4	897.00	1/4	681.08	1/4	471.76	1/4	253.60	1/4	40.98
1/2		1/2	1,979.88	1/2	1,762.81	1/2	1,545.12	1/2	1,327.39	1/2	1,109.04	1/2	892.57	1/2	676.66	1/2	467.27	1/2	249.15	1/2	37.99
3/4		3/4	1,975.39	3/4	1,758.28	3/4	1,540.59	3/4	1,322.84	3/4	1,104.49	3/4	888.13	3/4	672.24	3/4	462.77	3/4	244.71	3/4	35.00
7		7	1,970.90	7	1,753.74	7	1,536.05	7	1,318.30	7	1,099.95	7	883.69	7	667.83	7	458.27	7	240.26	7	32.01
1/4		1/4	1,966.41	1/4	1,749.21	1/4	1,531.51	1/4	1,313.75	1/4	1,095.41	1/4	879.25	1/4	663.41	1/4	453.77	1/4	235.81	1/4	29.02
1/2		1/2	1,961.92	1/2	1,744.67	1/2	1,526.98	1/2	1,309.20	1/2	1,090.87	1/2	874.82	1/2	659.04	1/2	449.22	1/2	231.40	1/2	27.19
3/4		3/4	1,957.43	3/4	1,740.14	3/4	1,522.44	3/4	1,304.65	3/4	1,086.32	3/4	870.38	3/4	654.66	3/4	444.67	3/4	226.99	3/4	25.35
8		8	1,952.94	8	1,735.60	8	1,517.91	8	1,300.10	8	1,081.78	8	865.94	8	650.29	8	440.12	8	222.58	8	23.52
1/4		1/4	1,948.45	1/4	1,731.07	1/4	1,513.37	1/4	1,295.55	1/4	1,077.24	1/4	861.50	1/4	645.92	1/4	435.57	1/4	218.17	1/4	21.68
1/2		1/2	1,943.96	1/2	1,726.53	1/2	1,508.84	1/2	1,291.00	1/2	1,072.69	1/2	857.07	1/2	641.56	1/2	431.03	1/2	213.75	1/2	21.40
3/4		3/4	1,939.47	3/4	1,722.00	3/4	1,504.30	3/4	1,286.45	3/4	1,068.15	3/4	852.63	3/4	637.20	3/4	426.48	3/4	209.34	3/4	21.12
9		9	1,934.98	9	1,717.46	9	1,499.77	9	1,281.90	9	1,063.61	9	848.19	9	632.83	9	421.93	9	204.93	9	20.84
1/4		1/4	1,930.48	1/4	1,712.93	1/4	1,495.23	1/4	1,277.35	1/4	1,059.07	1/4	843.75	1/4	628.47	1/4	417.38	1/4	200.52	1/4	20.56
1/2		1/2	1,925.98	1/2	1,708.39	1/2	1,490.70	1/2	1,272.80	1/2	1,054.55	1/2	839.32	1/2	624.12	1/2	412.83	1/2	196.11	1/2	18.57
3/4		3/4	1,921.47	3/4	1,703.86	3/4	1,486.16	3/4	1,268.25	3/4	1,050.04	3/4	834.88	3/4	619.76	3/4	408.29	3/4	191.70	3/4	16.57
10		10	1,916.96	10	1,699.32	10	1,481.63	10	1,263.70	10	1,045.52	10	830.44	10	615.40	10	403.74	10	187.29	10	14.57
1/4		1/4	1,912.46	1/4	1,694.79	1/4	1,477.09	1/4	1,259.15	1/4	1,041.00	1/4	826.00	1/4	611.04	1/4	399.19	1/4	182.88	1/4	12.58
1/2		1/2	1,907.93	1/2	1,690.25	1/2	1,472.56	1/2	1,254.60	1/2	1,036.50	1/2	821.57	1/2	606.69	1/2	394.64	1/2	178.46	1/2	10.61
3/4		3/4	1,903.40	3/4	1,685.71	3/4	1,468.02	3/4	1,250.05	3/4	1,031.99	3/4	817.13	3/4	602.34	3/4	390.09	3/4	174.05	3/4	8.65
11		11	1,898.87	11	1,681.18	11	1,463.49	11	1,245.50	11	1,027.49	11	812.69	11	597.98	11	385.54	11	169.64	11	6.69
1/4		1/4	1,894.34	1/4	1,676.64	1/4	1,458.95	1/4	1,240.95	1/4	1,022.98	1/4	808.25	1/4	593.63	1/4	381.00	1/4	165.23	1/4	4.73
1/2		1/2	1,889.80	1/2	1,672.11	1/2	1,454.41	1/2	1,236.40	1/2	1,018.47	1/2	803.74	1/2	589.28	1/2	376.45	1/2	160.82	1/2	
3/4		3/4	2,073.70	3/4	1,885.27	3/4	1,667.57	3/4	1,449.88	3/4	1,231.85	3/4	1,013.97	3/4	584.93	3/4	371.90	3/4	156.41	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD.

STRAPPED: 06/24/2019 CL  
 RECALCULATED: 07/02/2019 CL  
 PRINTED: 07/02/2019 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 07/2019

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





# BARGE "MM 320"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.
0		0	2,067.75	0	1,877.05	0	1,661.01	0	1,444.98	0	1,228.60	0	1,012.23	0	798.78	0	582.18	0	365.93	0	151.99
1/4		1/4	2,066.48	1/4	1,872.55	1/4	1,656.51	1/4	1,440.48	1/4	1,224.08	1/4	1,007.75	1/4	794.29	1/4	577.68	1/4	361.42	1/4	147.57
1/2		1/2	2,064.45	1/2	1,868.05	1/2	1,652.01	1/2	1,435.98	1/2	1,219.57	1/2	1,003.28	1/2	789.77	1/2	573.18	1/2	356.91	1/2	143.05
3/4		3/4	2,062.42	3/4	1,863.55	3/4	1,647.51	3/4	1,431.48	3/4	1,215.05	3/4	998.80	3/4	785.25	3/4	568.69	3/4	352.39	3/4	138.52
1		1	2,060.39	1	1,859.04	1	1,643.01	1	1,426.98	1	1,210.54	1	994.32	1	780.73	1	564.19	1	347.88	1	134.00
1/4		1/4	2,058.36	1/4	1,854.54	1/4	1,638.51	1/4	1,422.48	1/4	1,206.02	1/4	989.84	1/4	776.22	1/4	559.69	1/4	343.37	1/4	129.47
1/2		1/2	2,055.57	1/2	1,850.04	1/2	1,634.01	1/2	1,417.98	1/2	1,201.51	1/2	985.36	1/2	771.70	1/2	555.19	1/2	338.85	1/2	124.91
3/4		3/4	2,052.78	3/4	1,845.54	3/4	1,629.51	3/4	1,413.48	3/4	1,196.99	3/4	980.88	3/4	767.18	3/4	550.70	3/4	334.34	3/4	120.35
2		2	2,049.99	2	1,841.04	2	1,625.01	2	1,408.97	2	1,192.48	2	976.40	2	762.66	2	546.20	2	329.83	2	115.79
1/4		1/4	2,047.20	1/4	1,836.54	1/4	1,620.51	1/4	1,404.47	1/4	1,187.96	1/4	971.92	1/4	758.14	1/4	541.70	1/4	325.31	1/4	111.23
1/2		1/2	2,043.65	1/2	1,832.04	1/2	1,616.01	1/2	1,399.97	1/2	1,183.45	1/2	967.44	1/2	753.62	1/2	537.21	1/2	320.80	1/2	106.67
3/4		3/4	2,040.10	3/4	1,827.54	3/4	1,611.51	3/4	1,395.47	3/4	1,178.93	3/4	962.96	3/4	749.11	3/4	532.71	3/4	316.29	3/4	102.11
3		3	2,036.55	3	1,823.04	3	1,607.01	3	1,390.97	3	1,174.42	3	958.48	3	744.59	3	528.21	3	311.77	3	97.55
1/4		1/4	2,033.00	1/4	1,818.54	1/4	1,602.50	1/4	1,386.47	1/4	1,169.90	1/4	954.01	1/4	740.07	1/4	523.71	1/4	307.26	1/4	92.99
1/2		1/2	2,028.69	1/2	1,814.04	1/2	1,598.00	1/2	1,381.97	1/2	1,165.39	1/2	949.53	1/2	735.52	1/2	519.22	1/2	302.75	1/2	88.43
3/4		3/4	2,024.38	3/4	1,809.54	3/4	1,593.50	3/4	1,377.47	3/4	1,160.87	3/4	945.05	3/4	731.03	3/4	514.72	3/4	298.23	3/4	83.87
4		4	2,020.07	4	1,805.04	4	1,589.00	4	1,372.97	4	1,156.36	4	940.57	4	726.51	4	510.22	4	293.72	4	79.31
1/4		1/4	2,015.76	1/4	1,800.54	1/4	1,584.50	1/4	1,368.47	1/4	1,151.84	1/4	936.09	1/4	722.00	1/4	505.72	1/4	289.21	1/4	74.75
1/2		1/2	2,011.26	1/2	1,796.03	1/2	1,580.00	1/2	1,363.97	1/2	1,147.33	1/2	931.61	1/2	717.48	1/2	501.23	1/2	284.69	1/2	70.30
3/4		3/4	2,006.76	3/4	1,791.53	3/4	1,575.50	3/4	1,359.47	3/4	1,142.81	3/4	927.13	3/4	712.96	3/4	496.73	3/4	280.17	3/4	65.85
5		5	2,002.26	5	1,787.03	5	1,571.00	5	1,354.97	5	1,138.30	5	922.65	5	708.44	5	492.23	5	275.65	5	61.40
1/4		1/4	1,997.76	1/4	1,782.53	1/4	1,566.50	1/4	1,350.47	1/4	1,133.78	1/4	918.17	1/4	703.92	1/4	487.73	1/4	271.13	1/4	56.94
1/2		1/2	1,993.29	1/2	1,778.03	1/2	1,562.00	1/2	1,345.96	1/2	1,129.27	1/2	913.74	1/2	699.40	1/2	483.23	1/2	266.61	1/2	52.95
3/4		3/4	1,988.82	3/4	1,773.53	3/4	1,557.50	3/4	1,341.45	3/4	1,124.75	3/4	909.32	3/4	694.88	3/4	478.73	3/4	262.09	3/4	48.96
6		6	1,984.35	6	1,769.03	6	1,553.00	6	1,336.95	6	1,120.24	6	904.89	6	690.37	6	474.23	6	257.57	6	44.97
1/4		1/4	1,979.89	1/4	1,764.53	1/4	1,548.50	1/4	1,332.44	1/4	1,115.72	1/4	900.46	1/4	685.85	1/4	469.73	1/4	253.05	1/4	40.99
1/2		1/2	1,975.43	1/2	1,760.03	1/2	1,544.00	1/2	1,327.93	1/2	1,111.21	1/2	896.05	1/2	681.33	1/2	465.22	1/2	248.63	1/2	38.00
3/4		3/4	1,970.98	3/4	1,755.53	3/4	1,539.49	3/4	1,323.41	3/4	1,106.69	3/4	891.64	3/4	676.81	3/4	460.71	3/4	244.22	3/4	35.01
7		7	1,966.52	7	1,751.03	7	1,534.99	7	1,318.90	7	1,102.17	7	887.23	7	672.29	7	456.20	7	239.81	7	32.02
1/4		1/4	1,962.07	1/4	1,746.53	1/4	1,530.49	1/4	1,314.38	1/4	1,097.66	1/4	882.82	1/4	667.77	1/4	451.69	1/4	235.40	1/4	29.03
1/2		1/2	1,957.61	1/2	1,742.03	1/2	1,525.99	1/2	1,309.87	1/2	1,093.14	1/2	878.41	1/2	663.26	1/2	447.17	1/2	231.02	1/2	27.19
3/4		3/4	1,953.15	3/4	1,737.53	3/4	1,521.49	3/4	1,305.35	3/4	1,088.63	3/4	874.00	3/4	658.74	3/4	442.66	3/4	226.64	3/4	25.36
8		8	1,948.70	8	1,733.03	8	1,516.99	8	1,300.84	8	1,084.11	8	869.59	8	654.22	8	438.15	8	222.27	8	23.52
1/4		1/4	1,944.24	1/4	1,728.52	1/4	1,512.49	1/4	1,296.32	1/4	1,079.60	1/4	865.18	1/4	649.70	1/4	433.63	1/4	217.89	1/4	21.68
1/2		1/2	1,939.79	1/2	1,724.02	1/2	1,507.99	1/2	1,291.81	1/2	1,075.08	1/2	860.77	1/2	645.19	1/2	429.12	1/2	213.51	1/2	21.40
3/4		3/4	1,935.33	3/4	1,719.52	3/4	1,503.49	3/4	1,287.29	3/4	1,070.57	3/4	856.36	3/4	640.69	3/4	424.61	3/4	209.13	3/4	21.11
9		9	1,930.88	9	1,715.02	9	1,498.99	9	1,282.78	9	1,066.05	9	851.95	9	636.18	9	420.09	9	204.76	9	20.83
1/4		1/4	1,926.42	1/4	1,710.52	1/4	1,494.49	1/4	1,278.26	1/4	1,061.54	1/4	847.54	1/4	631.67	1/4	415.58	1/4	200.38	1/4	20.55
1/2		1/2	1,921.95	1/2	1,706.02	1/2	1,489.99	1/2	1,273.75	1/2	1,057.05	1/2	843.13	1/2	627.17	1/2	411.07	1/2	196.00	1/2	18.55
3/4		3/4	1,917.47	3/4	1,701.52	3/4	1,485.49	3/4	1,269.23	3/4	1,052.56	3/4	838.72	3/4	622.67	3/4	406.55	3/4	191.63	3/4	16.55
10		10	1,913.00	10	1,697.02	10	1,480.99	10	1,264.72	10	1,048.08	10	834.31	10	618.17	10	402.04	10	187.25	10	14.56
1/4		1/4	1,908.53	1/4	1,692.52	1/4	1,476.49	1/4	1,260.20	1/4	1,043.59	1/4	829.90	1/4	613.66	1/4	397.53	1/4	182.87	1/4	12.56
1/2		1/2	1,904.03	1/2	1,688.02	1/2	1,471.98	1/2	1,255.69	1/2	1,039.11	1/2	825.49	1/2	609.17	1/2	393.01	1/2	178.46	1/2	10.60
3/4		3/4	1,899.54	3/4	1,683.52	3/4	1,467.48	3/4	1,251.17	3/4	1,034.63	3/4	821.08	3/4	604.67	3/4	388.50	3/4	174.06	3/4	8.64
11		11	1,895.04	11	1,679.02	11	1,462.98	11	1,246.66	11	1,030.15	11	816.67	11	600.17	11	383.99	11	169.65	11	6.68
1/4		1/4	1,890.55	1/4	1,674.52	1/4	1,458.48	1/4	1,242.14	1/4	1,025.67	1/4	812.26	1/4	595.67	1/4	379.47	1/4	165.24	1/4	4.72
1/2		1/2	1,886.05	1/2	1,670.02	1/2	1,453.98	1/2	1,237.63	1/2	1,021.19	1/2	807.77	1/2	591.17	1/2	374.96	1/2	160.82	1/2	
3/4		3/4	2,069.02	3/4	1,881.55	3/4	1,665.51	3/4	1,449.48	3/4	1,233.11	3/4	803.27	3/4	586.68	3/4	370.45	3/4	156.41	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 36'-09" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 38'-00" FORWARD OF AFT BULKHEAD.

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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 07/2019

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