



# BARGE "MM 322"

## INNAGE 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	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 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	- 00-3/8	00-3/8	- 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	- 00-3/8	00-3/8
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	- 00-3/8	00-3/8
4 PORT	- 01-1/4	01-1/4	- 02-1/2	02-1/2	- 03-7/8	03-7/8	- 05-1/8	05-1/8	- 06-3/8	06-3/8	- 07-5/8	07-5/8
4 STBD	- 01-1/4	01-1/4	- 02-1/2	02-1/2	- 03-7/8	03-7/8	- 05-1/8	05-1/8	- 06-3/8	06-3/8	- 07-5/8	07-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

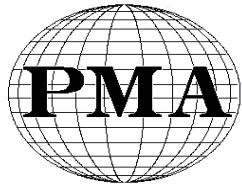
LENGTH BETWEEN DRAFT MARKS: 236'-09"

March 27, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 322"

## INNAGE 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	- 01-1/8	01-1/8	- 02-1/8	02-1/8	- 03-1/4	03-1/4	- 04-3/8	04-3/8	- 05-3/8	05-3/8	- 06-1/2	06-1/2
4 STBD	- 01-1/8	01-1/8	- 02-1/8	02-1/8	- 03-1/4	03-1/4	- 04-3/8	04-3/8	- 05-3/8	05-3/8	- 06-1/2	06-1/2

(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 4 PORT IS 02-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-02 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

March 27, 2020

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

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 Pearland, Texas 77588

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# BARGE "MM 322"

# 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	13.92	0	196.99	0	434.81	0	680.42	0	926.75	0	1,172.39	0	1,419.91	0	1,667.43	0	1,914.95	0	2,162.47
1/4	16.05	1/4	201.46	1/4	439.96	1/4	685.52	1/4	931.80	1/4	1,177.54	1/4	1,425.07	1/4	1,672.59	1/4	1,920.11	1/4	2,167.63
1/2	18.17	1/2	205.92	1/2	445.12	1/2	690.63	1/2	936.85	1/2	1,182.70	1/2	1,430.22	1/2	1,677.74	1/2	1,925.26	1/2	2,172.79
3/4	20.29	3/4	210.39	3/4	450.28	3/4	695.73	3/4	941.90	3/4	1,187.86	3/4	1,435.38	3/4	1,682.90	3/4	1,930.42	3/4	2,177.94
1	22.42	1	214.86	1	455.44	1	700.84	1	946.96	1	1,193.01	1	1,440.54	1	1,688.06	1	1,935.58	1	2,183.10
1/4	25.59	1/4	219.42	1/4	460.59	1/4	705.95	1/4	952.01	1/4	1,198.17	1/4	1,445.69	1/4	1,693.21	1/4	1,940.74	1/4	2,188.26
1/2	28.75	1/2	223.97	1/2	465.75	1/2	711.06	1/2	957.06	1/2	1,203.33	1/2	1,450.85	1/2	1,698.37	1/2	1,945.89	1/2	2,193.41
3/4	31.92	3/4	228.53	3/4	470.91	3/4	716.18	3/4	962.11	3/4	1,208.48	3/4	1,456.01	3/4	1,703.53	3/4	1,951.05	3/4	2,198.57
2	35.08	2	233.08	2	476.07	2	721.29	2	967.16	2	1,213.64	2	1,461.16	2	1,708.68	2	1,956.21	2	2,203.73
1/4	38.66	1/4	237.73	1/4	481.22	1/4	726.41	1/4	972.22	1/4	1,218.80	1/4	1,466.32	1/4	1,713.84	1/4	1,961.36	1/4	2,208.88
1/2	42.23	1/2	242.37	1/2	486.38	1/2	731.53	1/2	977.27	1/2	1,223.95	1/2	1,471.48	1/2	1,719.00	1/2	1,966.52	1/2	2,214.04
3/4	45.80	3/4	247.01	3/4	491.54	3/4	736.66	3/4	982.32	3/4	1,229.11	3/4	1,476.63	3/4	1,724.15	3/4	1,971.68	3/4	2,219.20
3	49.37	3	251.66	3	496.70	3	741.78	3	987.37	3	1,234.27	3	1,481.79	3	1,729.31	3	1,976.83	3	2,224.35
1/4	53.04	1/4	256.47	1/4	501.82	1/4	746.92	1/4	992.42	1/4	1,239.42	1/4	1,486.95	1/4	1,734.47	1/4	1,981.99	1/4	2,229.51
1/2	56.72	1/2	261.28	1/2	506.95	1/2	752.06	1/2	997.48	1/2	1,244.58	1/2	1,492.10	1/2	1,739.62	1/2	1,987.15	1/2	2,234.67
3/4	60.39	3/4	266.09	3/4	512.08	3/4	757.20	3/4	1,002.53	3/4	1,249.74	3/4	1,497.26	3/4	1,744.78	3/4	1,992.30	3/4	2,239.82
4	64.06	4	270.91	4	517.21	4	762.33	4	1,007.58	4	1,254.89	4	1,502.42	4	1,749.94	4	1,997.46	4	2,244.98
1/4	67.83	1/4	275.89	1/4	522.31	1/4	767.49	1/4	1,012.69	1/4	1,260.05	1/4	1,507.57	1/4	1,755.09	1/4	2,002.62	1/4	2,250.14
1/2	71.59	1/2	280.87	1/2	527.41	1/2	772.65	1/2	1,017.79	1/2	1,265.21	1/2	1,512.73	1/2	1,760.25	1/2	2,007.77	1/2	2,255.29
3/4	75.35	3/4	285.85	3/4	532.51	3/4	777.81	3/4	1,022.89	3/4	1,270.36	3/4	1,517.89	3/4	1,765.41	3/4	2,012.93	3/4	2,260.45
5	79.12	5	290.83	5	537.61	5	782.97	5	1,028.00	5	1,275.52	5	1,523.04	5	1,770.56	5	2,018.09	5	2,265.61
1/4	83.05	1/4	295.90	1/4	542.71	1/4	788.12	1/4	1,033.16	1/4	1,280.68	1/4	1,528.20	1/4	1,775.72	1/4	2,023.24	1/4	2,270.76
1/2	86.98	1/2	300.97	1/2	547.81	1/2	793.28	1/2	1,038.31	1/2	1,285.83	1/2	1,533.36	1/2	1,780.88	1/2	2,028.40	1/2	2,275.92
3/4	90.92	3/4	306.04	3/4	552.91	3/4	798.44	3/4	1,043.47	3/4	1,290.99	3/4	1,538.51	3/4	1,786.03	3/4	2,033.56	3/4	2,281.08
6	94.85	6	311.11	6	558.01	6	803.60	6	1,048.63	6	1,296.15	6	1,543.67	6	1,791.19	6	2,038.71	6	2,286.23
1/4	98.96	1/4	316.25	1/4	563.11	1/4	808.75	1/4	1,053.78	1/4	1,301.30	1/4	1,548.83	1/4	1,796.35	1/4	2,043.87	1/4	2,291.39
1/2	103.06	1/2	321.38	1/2	568.21	1/2	813.91	1/2	1,058.94	1/2	1,306.46	1/2	1,553.98	1/2	1,801.50	1/2	2,049.03	1/2	2,296.55
3/4	107.16	3/4	326.52	3/4	573.31	3/4	819.07	3/4	1,064.10	3/4	1,311.62	3/4	1,559.14	3/4	1,806.66	3/4	2,054.18	3/4	2,301.70
7	111.27	7	331.66	7	578.41	7	824.23	7	1,069.25	7	1,316.77	7	1,564.30	7	1,811.82	7	2,059.34	7	2,306.86
1/4	115.46	1/4	336.81	1/4	583.51	1/4	829.38	1/4	1,074.41	1/4	1,321.93	1/4	1,569.45	1/4	1,816.97	1/4	2,064.50	1/4	2,312.02
1/2	119.65	1/2	341.97	1/2	588.61	1/2	834.54	1/2	1,079.57	1/2	1,327.09	1/2	1,574.61	1/2	1,822.13	1/2	2,069.65	1/2	2,317.17
3/4	123.84	3/4	347.13	3/4	593.71	3/4	839.70	3/4	1,084.72	3/4	1,332.24	3/4	1,579.77	3/4	1,827.29	3/4	2,074.81	3/4	2,322.33
8	128.04	8	352.29	8	598.81	8	844.86	8	1,089.88	8	1,337.40	8	1,584.92	8	1,832.44	8	2,079.97	8	2,327.49
1/4	132.32	1/4	357.44	1/4	603.91	1/4	850.02	1/4	1,095.04	1/4	1,342.56	1/4	1,590.08	1/4	1,837.60	1/4	2,085.12	1/4	2,332.64
1/2	136.60	1/2	362.60	1/2	609.01	1/2	855.17	1/2	1,100.19	1/2	1,347.71	1/2	1,595.24	1/2	1,842.76	1/2	2,090.28	1/2	2,337.80
3/4	140.87	3/4	367.76	3/4	614.11	3/4	860.33	3/4	1,105.35	3/4	1,352.87	3/4	1,600.39	3/4	1,847.91	3/4	2,095.44	3/4	2,342.96
9	145.15	9	372.92	9	619.21	9	865.49	9	1,110.51	9	1,358.03	9	1,605.55	9	1,853.07	9	2,100.59	9	2,348.11
1/4	149.44	1/4	378.07	1/4	624.31	1/4	870.65	1/4	1,115.66	1/4	1,363.18	1/4	1,610.71	1/4	1,858.23	1/4	2,105.75	1/4	2,353.27
1/2	153.73	1/2	383.23	1/2	629.41	1/2	875.80	1/2	1,120.82	1/2	1,368.34	1/2	1,615.86	1/2	1,863.38	1/2	2,110.91	1/2	2,358.43
3/4	158.01	3/4	388.39	3/4	634.51	3/4	880.96	3/4	1,125.98	3/4	1,373.50	3/4	1,621.02	3/4	1,868.54	3/4	2,116.06	3/4	2,363.58
10	162.30	10	393.55	10	639.61	10	886.12	10	1,131.13	10	1,378.65	10	1,626.18	10	1,873.70	10	2,121.22	10	2,368.74
1/4	166.59	1/4	398.70	1/4	644.71	1/4	891.22	1/4	1,136.29	1/4	1,383.81	1/4	1,631.33	1/4	1,878.85	1/4	2,126.38	1/4	2,373.90
1/2	170.88	1/2	403.86	1/2	649.81	1/2	896.33	1/2	1,141.45	1/2	1,388.97	1/2	1,636.49	1/2	1,884.01	1/2	2,131.53	1/2	2,379.05
3/4	175.17	3/4	409.02	3/4	654.91	3/4	901.43	3/4	1,146.60	3/4	1,394.12	3/4	1,641.65	3/4	1,889.17	3/4	2,136.69	3/4	2,384.21
11	179.47	11	414.18	11	660.01	11	906.54	11	1,151.76	11	1,399.28	11	1,646.80	11	1,894.32	11	2,141.85	11	2,389.37
1/4	183.85	1/4	419.33	1/4	665.11	1/4	911.59	1/4	1,156.92	1/4	1,404.44	1/4	1,651.96	1/4	1,899.48	1/4	2,147.00	1/4	2,394.52
1/2	188.23	1/2	424.49	1/2	670.21	1/2	916.64	1/2	1,162.07	1/2	1,409.59	1/2	1,657.12	1/2	1,904.64	1/2	2,152.16	1/2	2,399.68
3/4	192.61	3/4	429.65	3/4	675.31	3/4	921.70	3/4	1,167.23	3/4	1,414.75	3/4	1,662.27	3/4	1,909.79	3/4	2,157.32	3/4	2,404.84

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 INNAGE 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  
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# BARGE "MM 322"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,409.99	0	2,657.50	0	2,904.15	0	3,150.80	0	3,396.25	0		0		0		0		0	
1/4	2,415.15	1/4	2,662.64	1/4	2,909.29	1/4	3,155.94	1/4	3,401.11	1/4		1/4		1/4		1/4		1/4	
1/2	2,420.31	1/2	2,667.78	1/2	2,914.43	1/2	3,161.07	1/2	3,405.97	1/2		1/2		1/2		1/2		1/2	
3/4	2,425.46	3/4	2,672.92	3/4	2,919.57	3/4	3,166.21	3/4	3,410.83	3/4		3/4		3/4		3/4		3/4	
1	2,430.62	1	2,678.06	1	2,924.70	1	3,171.35	1	3,415.69	1		1		1		1		1	
1/4	2,435.78	1/4	2,683.19	1/4	2,929.84	1/4	3,176.49	1/4	3,419.92	1/4		1/4		1/4		1/4		1/4	
1/2	2,440.93	1/2	2,688.33	1/2	2,934.98	1/2	3,181.63	1/2	3,424.14	1/2		1/2		1/2		1/2		1/2	
3/4	2,446.09	3/4	2,693.47	3/4	2,940.12	3/4	3,186.77	3/4	3,428.37	3/4		3/4		3/4		3/4		3/4	
2	2,451.25	2	2,698.61	2	2,945.26	2	3,191.91	2	3,432.60	2		2		2		2		2	
1/4	2,456.41	1/4	2,703.75	1/4	2,950.40	1/4	3,197.04	1/4	3,435.97	1/4		1/4		1/4		1/4		1/4	
1/2	2,461.56	1/2	2,708.89	1/2	2,955.53	1/2	3,202.18	1/2	3,439.33	1/2		1/2		1/2		1/2		1/2	
3/4	2,466.72	3/4	2,714.03	3/4	2,960.67	3/4	3,207.32	3/4	3,442.70	3/4		3/4		3/4		3/4		3/4	
3	2,471.88	3	2,719.16	3	2,965.81	3	3,212.46	3	3,446.07	3		3		3		3		3	
1/4	2,477.03	1/4	2,724.30	1/4	2,970.95	1/4	3,217.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,482.19	1/2	2,729.44	1/2	2,976.09	1/2	3,222.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,487.35	3/4	2,734.58	3/4	2,981.23	3/4	3,227.88	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,492.50	4	2,739.72	4	2,986.37	4	3,233.01	4		4		4		4		4		4	
1/4	2,497.66	1/4	2,744.86	1/4	2,991.50	1/4	3,238.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,502.82	1/2	2,749.99	1/2	2,996.64	1/2	3,243.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,507.97	3/4	2,755.13	3/4	3,001.78	3/4	3,248.43	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,513.13	5	2,760.27	5	3,006.92	5	3,253.57	5		5		5		5		5		5	
1/4	2,518.29	1/4	2,765.41	1/4	3,012.06	1/4	3,258.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,523.44	1/2	2,770.55	1/2	3,017.20	1/2	3,263.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,528.60	3/4	2,775.69	3/4	3,022.34	3/4	3,268.98	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,533.76	6	2,780.83	6	3,027.47	6	3,274.12	6		6		6		6		6		6	
1/4	2,538.91	1/4	2,785.96	1/4	3,032.61	1/4	3,279.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,544.07	1/2	2,791.10	1/2	3,037.75	1/2	3,284.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,549.23	3/4	2,796.24	3/4	3,042.89	3/4	3,289.47	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,554.38	7	2,801.38	7	3,048.03	7	3,294.58	7		7		7		7		7		7	
1/4	2,559.54	1/4	2,806.52	1/4	3,053.17	1/4	3,299.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,564.70	1/2	2,811.66	1/2	3,058.30	1/2	3,304.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,569.85	3/4	2,816.80	3/4	3,063.44	3/4	3,309.84	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,575.01	8	2,821.93	8	3,068.58	8	3,314.93	8		8		8		8		8		8	
1/4	2,580.17	1/4	2,827.07	1/4	3,073.72	1/4	3,320.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,585.32	1/2	2,832.21	1/2	3,078.86	1/2	3,325.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,590.48	3/4	2,837.35	3/4	3,084.00	3/4	3,330.19	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,595.64	9	2,842.49	9	3,089.14	9	3,335.28	9		9		9		9		9		9	
1/4	2,600.79	1/4	2,847.63	1/4	3,094.27	1/4	3,340.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,605.95	1/2	2,852.76	1/2	3,099.41	1/2	3,345.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,611.11	3/4	2,857.90	3/4	3,104.55	3/4	3,350.54	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,616.26	10	2,863.04	10	3,109.69	10	3,355.63	10		10		10		10		10		10	
1/4	2,621.42	1/4	2,868.18	1/4	3,114.83	1/4	3,360.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,626.58	1/2	2,873.32	1/2	3,119.97	1/2	3,365.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,631.73	3/4	2,878.46	3/4	3,125.11	3/4	3,370.88	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,636.89	11	2,883.60	11	3,130.24	11	3,375.96	11		11		11		11		11		11	
1/4	2,642.04	1/4	2,888.73	1/4	3,135.38	1/4	3,381.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,647.20	1/2	2,893.87	1/2	3,140.52	1/2	3,386.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,652.35	3/4	2,899.01	3/4	3,145.66	3/4	3,391.18	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "MM 322"

## 1 STBD INNAGE 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	13.92	0	197.02	0	434.65	0	681.29	0	927.91	0	1,173.34	0	1,420.65	0	1,667.95	0	1,915.26	0	2,162.56
1/4	16.05	1/4	201.48	1/4	439.81	1/4	686.43	1/4	932.96	1/4	1,178.49	1/4	1,425.80	1/4	1,673.11	1/4	1,920.41	1/4	2,167.72
1/2	18.17	1/2	205.95	1/2	444.96	1/2	691.56	1/2	938.01	1/2	1,183.65	1/2	1,430.95	1/2	1,678.26	1/2	1,925.56	1/2	2,172.87
3/4	20.30	3/4	210.41	3/4	450.11	3/4	696.70	3/4	943.06	3/4	1,188.80	3/4	1,436.10	3/4	1,683.41	3/4	1,930.72	3/4	2,178.02
1	22.43	1	214.88	1	455.27	1	701.84	1	948.10	1	1,193.95	1	1,441.26	1	1,688.56	1	1,935.87	1	2,183.17
1/4	25.60	1/4	219.43	1/4	460.42	1/4	706.98	1/4	953.15	1/4	1,199.10	1/4	1,446.41	1/4	1,693.71	1/4	1,941.02	1/4	2,188.33
1/2	28.77	1/2	223.99	1/2	465.57	1/2	712.13	1/2	958.20	1/2	1,204.26	1/2	1,451.56	1/2	1,698.87	1/2	1,946.17	1/2	2,193.48
3/4	31.94	3/4	228.54	3/4	470.72	3/4	717.27	3/4	963.25	3/4	1,209.41	3/4	1,456.71	3/4	1,704.02	3/4	1,951.32	3/4	2,198.63
2	35.11	2	233.10	2	475.88	2	722.42	2	968.30	2	1,214.56	2	1,461.87	2	1,709.17	2	1,956.48	2	2,203.78
1/4	38.68	1/4	237.74	1/4	481.03	1/4	727.57	1/4	973.34	1/4	1,219.71	1/4	1,467.02	1/4	1,714.32	1/4	1,961.63	1/4	2,208.93
1/2	42.26	1/2	242.38	1/2	486.18	1/2	732.72	1/2	978.39	1/2	1,224.86	1/2	1,472.17	1/2	1,719.48	1/2	1,966.78	1/2	2,214.09
3/4	45.83	3/4	247.02	3/4	491.34	3/4	737.88	3/4	983.44	3/4	1,230.02	3/4	1,477.32	3/4	1,724.63	3/4	1,971.93	3/4	2,219.24
3	49.41	3	251.66	3	496.49	3	743.03	3	988.49	3	1,235.17	3	1,482.47	3	1,729.78	3	1,977.09	3	2,224.39
1/4	53.08	1/4	256.47	1/4	501.63	1/4	748.18	1/4	993.54	1/4	1,240.32	1/4	1,487.63	1/4	1,734.93	1/4	1,982.24	1/4	2,229.54
1/2	56.75	1/2	261.28	1/2	506.77	1/2	753.34	1/2	998.58	1/2	1,245.47	1/2	1,492.78	1/2	1,740.08	1/2	1,987.39	1/2	2,234.70
3/4	60.43	3/4	266.09	3/4	511.92	3/4	758.49	3/4	1,003.63	3/4	1,250.62	3/4	1,497.93	3/4	1,745.24	3/4	1,992.54	3/4	2,239.85
4	64.10	4	270.90	4	517.06	4	763.64	4	1,008.68	4	1,255.78	4	1,503.08	4	1,750.39	4	1,997.69	4	2,245.00
1/4	67.87	1/4	275.88	1/4	522.19	1/4	768.80	1/4	1,013.78	1/4	1,260.93	1/4	1,508.23	1/4	1,755.54	1/4	2,002.85	1/4	2,250.15
1/2	71.63	1/2	280.85	1/2	527.32	1/2	773.95	1/2	1,018.88	1/2	1,266.08	1/2	1,513.39	1/2	1,760.69	1/2	2,008.00	1/2	2,255.30
3/4	75.40	3/4	285.83	3/4	532.45	3/4	779.10	3/4	1,023.98	3/4	1,271.23	3/4	1,518.54	3/4	1,765.84	3/4	2,013.15	3/4	2,260.46
5	79.16	5	290.81	5	537.59	5	784.26	5	1,029.08	5	1,276.39	5	1,523.69	5	1,771.00	5	2,018.30	5	2,265.61
1/4	83.09	1/4	295.88	1/4	542.72	1/4	789.41	1/4	1,034.23	1/4	1,281.54	1/4	1,528.84	1/4	1,776.15	1/4	2,023.45	1/4	2,270.76
1/2	87.03	1/2	300.94	1/2	547.85	1/2	794.56	1/2	1,039.38	1/2	1,286.69	1/2	1,534.00	1/2	1,781.30	1/2	2,028.61	1/2	2,275.91
3/4	90.96	3/4	306.01	3/4	552.98	3/4	799.72	3/4	1,044.54	3/4	1,291.84	3/4	1,539.15	3/4	1,786.45	3/4	2,033.76	3/4	2,281.06
6	94.90	6	311.07	6	558.11	6	804.87	6	1,049.69	6	1,296.99	6	1,544.30	6	1,791.61	6	2,038.91	6	2,286.22
1/4	99.00	1/4	316.20	1/4	563.25	1/4	810.02	1/4	1,054.84	1/4	1,302.15	1/4	1,549.45	1/4	1,796.76	1/4	2,044.06	1/4	2,291.37
1/2	103.11	1/2	321.33	1/2	568.38	1/2	815.18	1/2	1,059.99	1/2	1,307.30	1/2	1,554.60	1/2	1,801.91	1/2	2,049.22	1/2	2,296.52
3/4	107.21	3/4	326.47	3/4	573.51	3/4	820.33	3/4	1,065.15	3/4	1,312.45	3/4	1,559.76	3/4	1,807.06	3/4	2,054.37	3/4	2,301.67
7	111.31	7	331.60	7	578.64	7	825.48	7	1,070.30	7	1,317.60	7	1,564.91	7	1,812.21	7	2,059.52	7	2,306.83
1/4	115.51	1/4	336.75	1/4	583.77	1/4	830.64	1/4	1,075.45	1/4	1,322.76	1/4	1,570.06	1/4	1,817.37	1/4	2,064.67	1/4	2,311.98
1/2	119.70	1/2	341.90	1/2	588.90	1/2	835.79	1/2	1,080.60	1/2	1,327.91	1/2	1,575.21	1/2	1,822.52	1/2	2,069.82	1/2	2,317.13
3/4	123.89	3/4	347.06	3/4	594.04	3/4	840.94	3/4	1,085.75	3/4	1,333.06	3/4	1,580.37	3/4	1,827.67	3/4	2,074.98	3/4	2,322.28
8	128.08	8	352.21	8	599.17	8	846.09	8	1,090.91	8	1,338.21	8	1,585.52	8	1,832.82	8	2,080.13	8	2,327.43
1/4	132.36	1/4	357.36	1/4	604.30	1/4	851.25	1/4	1,096.06	1/4	1,343.36	1/4	1,590.67	1/4	1,837.98	1/4	2,085.28	1/4	2,332.59
1/2	136.64	1/2	362.51	1/2	609.43	1/2	856.40	1/2	1,101.21	1/2	1,348.52	1/2	1,595.82	1/2	1,843.13	1/2	2,090.43	1/2	2,337.74
3/4	140.92	3/4	367.67	3/4	614.56	3/4	861.55	3/4	1,106.36	3/4	1,353.67	3/4	1,600.97	3/4	1,848.28	3/4	2,095.59	3/4	2,342.89
9	145.19	9	372.82	9	619.70	9	866.71	9	1,111.52	9	1,358.82	9	1,606.13	9	1,853.43	9	2,100.74	9	2,348.04
1/4	149.48	1/4	377.97	1/4	624.83	1/4	871.86	1/4	1,116.67	1/4	1,363.97	1/4	1,611.28	1/4	1,858.58	1/4	2,105.89	1/4	2,353.20
1/2	153.76	1/2	383.13	1/2	629.96	1/2	877.01	1/2	1,121.82	1/2	1,369.13	1/2	1,616.43	1/2	1,863.74	1/2	2,111.04	1/2	2,358.35
3/4	158.05	3/4	388.28	3/4	635.09	3/4	882.17	3/4	1,126.97	3/4	1,374.28	3/4	1,621.58	3/4	1,868.89	3/4	2,116.19	3/4	2,363.50
10	162.33	10	393.43	10	640.22	10	887.32	10	1,132.12	10	1,379.43	10	1,626.74	10	1,874.04	10	2,121.35	10	2,368.65
1/4	166.63	1/4	398.58	1/4	645.35	1/4	892.42	1/4	1,137.28	1/4	1,384.58	1/4	1,631.89	1/4	1,879.19	1/4	2,126.50	1/4	2,373.80
1/2	170.92	1/2	403.74	1/2	650.49	1/2	897.52	1/2	1,142.43	1/2	1,389.73	1/2	1,637.04	1/2	1,884.35	1/2	2,131.65	1/2	2,378.96
3/4	175.21	3/4	408.89	3/4	655.62	3/4	902.62	3/4	1,147.58	3/4	1,394.89	3/4	1,642.19	3/4	1,889.50	3/4	2,136.80	3/4	2,384.11
11	179.50	11	414.04	11	660.75	11	907.72	11	1,152.73	11	1,400.04	11	1,647.34	11	1,894.65	11	2,141.96	11	2,389.26
1/4	183.88	1/4	419.20	1/4	665.88	1/4	912.77	1/4	1,157.89	1/4	1,405.19	1/4	1,652.50	1/4	1,899.80	1/4	2,147.11	1/4	2,394.41
1/2	188.26	1/2	424.35	1/2	671.02	1/2	917.82	1/2	1,163.04	1/2	1,410.34	1/2	1,657.65	1/2	1,904.95	1/2	2,152.26	1/2	2,399.57
3/4	192.64	3/4	429.50	3/4	676.15	3/4	922.86	3/4	1,168.19	3/4	1,415.50	3/4	1,662.80	3/4	1,910.11	3/4	2,157.41	3/4	2,404.72

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 INNAGE 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 322"

**1 STBD  
INNAGE 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	2,409.87	0	2,657.14	0	2,903.57	0	3,150.00	0	3,395.24	0		0		0		0		0	
1/4	2,415.02	1/4	2,662.27	1/4	2,908.70	1/4	3,155.14	1/4	3,400.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,420.17	1/2	2,667.41	1/2	2,913.84	1/2	3,160.27	1/2	3,404.95	1/2		1/2		1/2		1/2		1/2	
3/4	2,425.33	3/4	2,672.54	3/4	2,918.97	3/4	3,165.40	3/4	3,409.81	3/4		3/4		3/4		3/4		3/4	
1	2,430.48	1	2,677.67	1	2,924.11	1	3,170.54	1	3,414.67	1		1		1		1		1	
1/4	2,435.63	1/4	2,682.81	1/4	2,929.24	1/4	3,175.67	1/4	3,418.89	1/4		1/4		1/4		1/4		1/4	
1/2	2,440.78	1/2	2,687.94	1/2	2,934.37	1/2	3,180.81	1/2	3,423.11	1/2		1/2		1/2		1/2		1/2	
3/4	2,445.94	3/4	2,693.08	3/4	2,939.51	3/4	3,185.94	3/4	3,427.34	3/4		3/4		3/4		3/4		3/4	
2	2,451.09	2	2,698.21	2	2,944.64	2	3,191.07	2	3,431.56	2		2		2		2		2	
1/4	2,456.24	1/4	2,703.34	1/4	2,949.78	1/4	3,196.21	1/4	3,434.93	1/4		1/4		1/4		1/4		1/4	
1/2	2,461.39	1/2	2,708.48	1/2	2,954.91	1/2	3,201.34	1/2	3,438.29	1/2		1/2		1/2		1/2		1/2	
3/4	2,466.54	3/4	2,713.61	3/4	2,960.04	3/4	3,206.48	3/4	3,441.66	3/4		3/4		3/4		3/4		3/4	
3	2,471.70	3	2,718.75	3	2,965.18	3	3,211.61	3	3,445.02	3		3		3		3		3	
1/4	2,476.85	1/4	2,723.88	1/4	2,970.31	1/4	3,216.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,482.00	1/2	2,729.01	1/2	2,975.45	1/2	3,221.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,487.15	3/4	2,734.15	3/4	2,980.58	3/4	3,227.01	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,492.31	4	2,739.28	4	2,985.71	4	3,232.15	4		4		4		4		4		4	
1/4	2,497.46	1/4	2,744.42	1/4	2,990.85	1/4	3,237.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,502.61	1/2	2,749.55	1/2	2,995.98	1/2	3,242.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,507.76	3/4	2,754.68	3/4	3,001.12	3/4	3,247.55	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,512.91	5	2,759.82	5	3,006.25	5	3,252.68	5		5		5		5		5		5	
1/4	2,518.07	1/4	2,764.95	1/4	3,011.38	1/4	3,257.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,523.22	1/2	2,770.09	1/2	3,016.52	1/2	3,262.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,528.37	3/4	2,775.22	3/4	3,021.65	3/4	3,268.08	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,533.52	6	2,780.35	6	3,026.79	6	3,273.22	6		6		6		6		6		6	
1/4	2,538.67	1/4	2,785.49	1/4	3,031.92	1/4	3,278.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,543.83	1/2	2,790.62	1/2	3,037.05	1/2	3,283.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,548.98	3/4	2,795.76	3/4	3,042.19	3/4	3,288.55	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,554.13	7	2,800.89	7	3,047.32	7	3,293.66	7		7		7		7		7		7	
1/4	2,559.28	1/4	2,806.02	1/4	3,052.46	1/4	3,298.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,564.44	1/2	2,811.16	1/2	3,057.59	1/2	3,303.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,569.59	3/4	2,816.29	3/4	3,062.72	3/4	3,308.91	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,574.74	8	2,821.43	8	3,067.86	8	3,313.99	8		8		8		8		8		8	
1/4	2,579.89	1/4	2,826.56	1/4	3,072.99	1/4	3,319.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,585.04	1/2	2,831.69	1/2	3,078.13	1/2	3,324.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,590.20	3/4	2,836.83	3/4	3,083.26	3/4	3,329.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,595.35	9	2,841.96	9	3,088.39	9	3,334.33	9		9		9		9		9		9	
1/4	2,600.50	1/4	2,847.10	1/4	3,093.53	1/4	3,339.41	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,605.65	1/2	2,852.23	1/2	3,098.66	1/2	3,344.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,610.81	3/4	2,857.36	3/4	3,103.80	3/4	3,349.57	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,615.96	10	2,862.50	10	3,108.93	10	3,354.66	10		10		10		10		10		10	
1/4	2,621.11	1/4	2,867.63	1/4	3,114.06	1/4	3,359.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,626.26	1/2	2,872.77	1/2	3,119.20	1/2	3,364.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,631.41	3/4	2,877.90	3/4	3,124.33	3/4	3,369.89	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,636.57	11	2,883.03	11	3,129.47	11	3,374.97	11		11		11		11		11		11	
1/4	2,641.71	1/4	2,888.17	1/4	3,134.60	1/4	3,380.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,646.85	1/2	2,893.30	1/2	3,139.73	1/2	3,385.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,652.00	3/4	2,898.44	3/4	3,144.87	3/4	3,390.17	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "MM 322"

# 2 PORT INNAGE 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	20.90	0	310.28	0	611.34	0	905.01	0	1,204.02	0	1,505.27	0	1,809.08	0	2,112.89	0	2,416.70	0	2,720.51
1/4	25.45	1/4	316.41	1/4	617.67	1/4	911.05	1/4	1,210.21	1/4	1,511.60	1/4	1,815.41	1/4	2,119.22	1/4	2,423.03	1/4	2,726.84
1/2	30.00	1/2	322.54	1/2	624.00	1/2	917.09	1/2	1,216.39	1/2	1,517.93	1/2	1,821.74	1/2	2,125.55	1/2	2,429.36	1/2	2,733.17
3/4	34.55	3/4	328.67	3/4	630.33	3/4	923.12	3/4	1,222.58	3/4	1,524.26	3/4	1,828.07	3/4	2,131.88	3/4	2,435.69	3/4	2,739.50
1	39.09	1	334.80	1	636.66	1	929.16	1	1,228.77	1	1,530.59	1	1,834.40	1	2,138.21	1	2,442.02	1	2,745.83
1/4	44.81	1/4	340.93	1/4	642.99	1/4	935.20	1/4	1,234.95	1/4	1,536.92	1/4	1,840.73	1/4	2,144.54	1/4	2,448.35	1/4	2,752.16
1/2	50.53	1/2	347.06	1/2	649.32	1/2	941.25	1/2	1,241.14	1/2	1,543.25	1/2	1,847.06	1/2	2,150.87	1/2	2,454.68	1/2	2,758.49
3/4	56.25	3/4	353.19	3/4	655.65	3/4	947.29	3/4	1,247.33	3/4	1,549.58	3/4	1,853.39	3/4	2,157.20	3/4	2,461.01	3/4	2,764.82
2	61.97	2	359.33	2	661.98	2	953.34	2	1,253.52	2	1,555.90	2	1,859.72	2	2,163.53	2	2,467.34	2	2,771.15
1/4	68.08	1/4	365.46	1/4	668.31	1/4	959.39	1/4	1,259.70	1/4	1,562.23	1/4	1,866.05	1/4	2,169.86	1/4	2,473.67	1/4	2,777.48
1/2	74.19	1/2	371.59	1/2	674.64	1/2	965.44	1/2	1,265.89	1/2	1,568.56	1/2	1,872.37	1/2	2,176.19	1/2	2,480.00	1/2	2,783.81
3/4	80.30	3/4	377.72	3/4	680.97	3/4	971.49	3/4	1,272.08	3/4	1,574.89	3/4	1,878.70	3/4	2,182.52	3/4	2,486.33	3/4	2,790.14
3	86.41	3	383.85	3	687.30	3	977.54	3	1,278.26	3	1,581.22	3	1,885.03	3	2,188.84	3	2,492.66	3	2,796.47
1/4	92.53	1/4	390.08	1/4	693.48	1/4	983.73	1/4	1,284.45	1/4	1,587.55	1/4	1,891.36	1/4	2,195.17	1/4	2,498.99	1/4	2,802.80
1/2	98.66	1/2	396.31	1/2	699.66	1/2	989.93	1/2	1,290.64	1/2	1,593.88	1/2	1,897.69	1/2	2,201.50	1/2	2,505.31	1/2	2,809.13
3/4	104.78	3/4	402.54	3/4	705.84	3/4	996.12	3/4	1,296.83	3/4	1,600.21	3/4	1,904.02	3/4	2,207.83	3/4	2,511.64	3/4	2,815.46
4	110.91	4	408.77	4	712.02	4	1,002.31	4	1,303.01	4	1,606.54	4	1,910.35	4	2,214.16	4	2,517.97	4	2,821.78
1/4	117.04	1/4	415.10	1/4	718.05	1/4	1,008.64	1/4	1,309.27	1/4	1,612.87	1/4	1,916.68	1/4	2,220.49	1/4	2,524.30	1/4	2,828.11
1/2	123.16	1/2	421.43	1/2	724.08	1/2	1,014.97	1/2	1,315.53	1/2	1,619.20	1/2	1,923.01	1/2	2,226.82	1/2	2,530.63	1/2	2,834.44
3/4	129.29	3/4	427.76	3/4	730.11	3/4	1,021.30	3/4	1,321.79	3/4	1,625.53	3/4	1,929.34	3/4	2,233.15	3/4	2,536.96	3/4	2,840.77
5	135.42	5	434.09	5	736.14	5	1,027.63	5	1,328.05	5	1,631.86	5	1,935.67	5	2,239.48	5	2,543.29	5	2,847.10
1/4	141.65	1/4	440.42	1/4	742.17	1/4	1,033.96	1/4	1,334.38	1/4	1,638.19	1/4	1,942.00	1/4	2,245.81	1/4	2,549.62	1/4	2,853.43
1/2	147.88	1/2	446.75	1/2	748.20	1/2	1,040.29	1/2	1,340.71	1/2	1,644.52	1/2	1,948.33	1/2	2,252.14	1/2	2,555.95	1/2	2,859.76
3/4	154.11	3/4	453.08	3/4	754.23	3/4	1,046.62	3/4	1,347.03	3/4	1,650.85	3/4	1,954.66	3/4	2,258.47	3/4	2,562.28	3/4	2,866.09
6	160.34	6	459.41	6	760.26	6	1,052.95	6	1,353.36	6	1,657.18	6	1,960.99	6	2,264.80	6	2,568.61	6	2,872.42
1/4	166.67	1/4	465.74	1/4	766.30	1/4	1,059.28	1/4	1,359.69	1/4	1,663.50	1/4	1,967.32	1/4	2,271.13	1/4	2,574.94	1/4	2,878.75
1/2	173.00	1/2	472.07	1/2	772.33	1/2	1,065.61	1/2	1,366.02	1/2	1,669.83	1/2	1,973.65	1/2	2,277.46	1/2	2,581.27	1/2	2,885.08
3/4	179.33	3/4	478.40	3/4	778.36	3/4	1,071.94	3/4	1,372.35	3/4	1,676.16	3/4	1,979.97	3/4	2,283.79	3/4	2,587.60	3/4	2,891.41
7	185.66	7	484.73	7	784.39	7	1,078.27	7	1,378.68	7	1,682.49	7	1,986.30	7	2,290.12	7	2,593.93	7	2,897.74
1/4	191.99	1/4	491.06	1/4	790.42	1/4	1,084.60	1/4	1,385.01	1/4	1,688.82	1/4	1,992.63	1/4	2,296.44	1/4	2,600.26	1/4	2,904.07
1/2	198.32	1/2	497.39	1/2	796.45	1/2	1,090.93	1/2	1,391.34	1/2	1,695.15	1/2	1,998.96	1/2	2,302.77	1/2	2,606.59	1/2	2,910.40
3/4	204.65	3/4	503.72	3/4	802.48	3/4	1,097.26	3/4	1,397.67	3/4	1,701.48	3/4	2,005.29	3/4	2,309.10	3/4	2,612.91	3/4	2,916.73
8	210.98	8	510.05	8	808.51	8	1,103.59	8	1,404.00	8	1,707.81	8	2,011.62	8	2,315.43	8	2,619.24	8	2,923.06
1/4	217.31	1/4	516.38	1/4	814.54	1/4	1,109.92	1/4	1,410.33	1/4	1,714.14	1/4	2,017.95	1/4	2,321.76	1/4	2,625.57	1/4	2,929.38
1/2	223.64	1/2	522.71	1/2	820.57	1/2	1,116.25	1/2	1,416.66	1/2	1,720.47	1/2	2,024.28	1/2	2,328.09	1/2	2,631.90	1/2	2,935.71
3/4	229.97	3/4	529.04	3/4	826.60	3/4	1,122.58	3/4	1,422.99	3/4	1,726.80	3/4	2,030.61	3/4	2,334.42	3/4	2,638.23	3/4	2,942.04
9	236.30	9	535.37	9	832.63	9	1,128.91	9	1,429.32	9	1,733.13	9	2,036.94	9	2,340.75	9	2,644.56	9	2,948.37
1/4	242.53	1/4	541.70	1/4	838.66	1/4	1,135.24	1/4	1,435.65	1/4	1,739.46	1/4	2,043.27	1/4	2,347.08	1/4	2,650.89	1/4	2,954.70
1/2	248.76	1/2	548.03	1/2	844.70	1/2	1,141.57	1/2	1,441.98	1/2	1,745.79	1/2	2,049.60	1/2	2,353.41	1/2	2,657.22	1/2	2,961.03
3/4	255.00	3/4	554.36	3/4	850.73	3/4	1,147.90	3/4	1,448.31	3/4	1,752.12	3/4	2,055.93	3/4	2,359.74	3/4	2,663.55	3/4	2,967.36
10	261.23	10	560.69	10	856.76	10	1,154.24	10	1,454.63	10	1,758.45	10	2,062.26	10	2,366.07	10	2,669.88	10	2,973.69
1/4	267.36	1/4	567.02	1/4	862.79	1/4	1,160.49	1/4	1,460.96	1/4	1,764.78	1/4	2,068.59	1/4	2,372.40	1/4	2,676.21	1/4	2,980.02
1/2	273.49	1/2	573.35	1/2	868.82	1/2	1,166.75	1/2	1,467.29	1/2	1,771.10	1/2	2,074.92	1/2	2,378.73	1/2	2,682.54	1/2	2,986.35
3/4	279.62	3/4	579.68	3/4	874.85	3/4	1,173.01	3/4	1,473.62	3/4	1,777.43	3/4	2,081.25	3/4	2,385.06	3/4	2,688.87	3/4	2,992.68
11	285.75	11	586.01	11	880.88	11	1,179.27	11	1,479.95	11	1,783.76	11	2,087.57	11	2,391.39	11	2,695.20	11	2,999.01
1/4	291.88	1/4	592.34	1/4	886.91	1/4	1,185.46	1/4	1,486.28	1/4	1,790.09	1/4	2,093.90	1/4	2,397.72	1/4	2,701.53	1/4	3,005.34
1/2	298.01	1/2	598.68	1/2	892.95	1/2	1,191.65	1/2	1,492.61	1/2	1,796.42	1/2	2,100.23	1/2	2,404.04	1/2	2,707.86	1/2	3,011.67
3/4	304.14	3/4	605.01	3/4	898.98	3/4	1,197.83	3/4	1,498.94	3/4	1,802.75	3/4	2,106.56	3/4	2,410.37	3/4	2,714.19	3/4	3,018.00

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 INNAGE 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 322"

## 2 PORT INNAGE 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	3,024.33	0	3,328.10	0	3,631.05	0	3,934.00	0	4,235.46	0		0		0		0		0	
1/4	3,030.66	1/4	3,334.41	1/4	3,637.36	1/4	3,940.31	1/4	4,241.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,036.98	1/2	3,340.72	1/2	3,643.67	1/2	3,946.62	1/2	4,247.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,043.31	3/4	3,347.04	3/4	3,649.98	3/4	3,952.93	3/4	4,253.36	3/4		3/4		3/4		3/4		3/4	
1	3,049.64	1	3,353.35	1	3,656.29	1	3,959.24	1	4,259.33	1		1		1		1		1	
1/4	3,055.97	1/4	3,359.66	1/4	3,662.61	1/4	3,965.55	1/4	4,264.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,062.30	1/2	3,365.97	1/2	3,668.92	1/2	3,971.86	1/2	4,269.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,068.63	3/4	3,372.28	3/4	3,675.23	3/4	3,978.18	3/4	4,274.91	3/4		3/4		3/4		3/4		3/4	
2	3,074.96	2	3,378.59	2	3,681.54	2	3,984.49	2	4,280.11	2		2		2		2		2	
1/4	3,081.29	1/4	3,384.90	1/4	3,687.85	1/4	3,990.80	1/4	4,284.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,087.62	1/2	3,391.22	1/2	3,694.16	1/2	3,997.11	1/2	4,288.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,093.95	3/4	3,397.53	3/4	3,700.47	3/4	4,003.42	3/4	4,292.52	3/4		3/4		3/4		3/4		3/4	
3	3,100.28	3	3,403.84	3	3,706.79	3	4,009.73	3	4,296.66	3		3		3		3		3	
1/4	3,106.61	1/4	3,410.15	1/4	3,713.10	1/4	4,016.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,112.94	1/2	3,416.46	1/2	3,719.41	1/2	4,022.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,119.27	3/4	3,422.77	3/4	3,725.72	3/4	4,028.67	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,125.60	4	3,429.08	4	3,732.03	4	4,034.98	4		4		4		4		4		4	
1/4	3,131.93	1/4	3,435.40	1/4	3,738.34	1/4	4,041.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,138.25	1/2	3,441.71	1/2	3,744.65	1/2	4,047.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,144.58	3/4	3,448.02	3/4	3,750.97	3/4	4,053.91	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,150.91	5	3,454.33	5	3,757.28	5	4,060.22	5		5		5		5		5		5	
1/4	3,157.24	1/4	3,460.64	1/4	3,763.59	1/4	4,066.54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,163.57	1/2	3,466.95	1/2	3,769.90	1/2	4,072.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,169.90	3/4	3,473.26	3/4	3,776.21	3/4	4,079.16	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,176.23	6	3,479.58	6	3,782.52	6	4,085.47	6		6		6		6		6		6	
1/4	3,182.56	1/4	3,485.89	1/4	3,788.83	1/4	4,091.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,188.89	1/2	3,492.20	1/2	3,795.15	1/2	4,098.03	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,195.22	3/4	3,498.51	3/4	3,801.46	3/4	4,104.30	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,201.55	7	3,504.82	7	3,807.77	7	4,110.58	7		7		7		7		7		7	
1/4	3,207.88	1/4	3,511.13	1/4	3,814.08	1/4	4,116.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,214.21	1/2	3,517.44	1/2	3,820.39	1/2	4,123.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,220.54	3/4	3,523.76	3/4	3,826.70	3/4	4,129.33	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,226.87	8	3,530.07	8	3,833.01	8	4,135.58	8		8		8		8		8		8	
1/4	3,233.20	1/4	3,536.38	1/4	3,839.33	1/4	4,141.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,239.53	1/2	3,542.69	1/2	3,845.64	1/2	4,148.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,245.85	3/4	3,549.00	3/4	3,851.95	3/4	4,154.33	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,252.18	9	3,555.31	9	3,858.26	9	4,160.57	9		9		9		9		9		9	
1/4	3,258.51	1/4	3,561.62	1/4	3,864.57	1/4	4,166.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,264.84	1/2	3,567.93	1/2	3,870.88	1/2	4,173.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,271.17	3/4	3,574.25	3/4	3,877.19	3/4	4,179.32	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,277.50	10	3,580.56	10	3,883.50	10	4,185.56	10		10		10		10		10		10	
1/4	3,283.83	1/4	3,586.87	1/4	3,889.82	1/4	4,191.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,290.16	1/2	3,593.18	1/2	3,896.13	1/2	4,198.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,296.49	3/4	3,599.49	3/4	3,902.44	3/4	4,204.29	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,302.82	11	3,605.80	11	3,908.75	11	4,210.54	11		11		11		11		11		11	
1/4	3,309.14	1/4	3,612.11	1/4	3,915.06	1/4	4,216.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,315.46	1/2	3,618.43	1/2	3,921.37	1/2	4,223.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,321.78	3/4	3,624.74	3/4	3,927.68	3/4	4,229.23	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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





# BARGE "MM 322"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01 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	20.88	0	309.88	0	610.58	0	913.36	0	1,215.89	0	1,516.77	0	1,820.22	0	2,123.67	0	2,427.11	0	2,730.56
1/4	25.42	1/4	316.01	1/4	616.90	1/4	919.66	1/4	1,222.07	1/4	1,523.09	1/4	1,826.54	1/4	2,129.99	1/4	2,433.43	1/4	2,736.88
1/2	29.96	1/2	322.13	1/2	623.22	1/2	925.97	1/2	1,228.25	1/2	1,529.42	1/2	1,832.86	1/2	2,136.31	1/2	2,439.76	1/2	2,743.20
3/4	34.50	3/4	328.25	3/4	629.55	3/4	932.28	3/4	1,234.43	3/4	1,535.74	3/4	1,839.18	3/4	2,142.63	3/4	2,446.08	3/4	2,749.52
1	39.05	1	334.38	1	635.87	1	938.58	1	1,240.61	1	1,542.06	1	1,845.51	1	2,148.95	1	2,452.40	1	2,755.85
1/4	44.76	1/4	340.50	1/4	642.19	1/4	944.90	1/4	1,246.79	1/4	1,548.38	1/4	1,851.83	1/4	2,155.27	1/4	2,458.72	1/4	2,762.17
1/2	50.47	1/2	346.62	1/2	648.51	1/2	951.21	1/2	1,252.97	1/2	1,554.70	1/2	1,858.15	1/2	2,161.60	1/2	2,465.04	1/2	2,768.49
3/4	56.18	3/4	352.75	3/4	654.84	3/4	957.53	3/4	1,259.15	3/4	1,561.03	3/4	1,864.47	3/4	2,167.92	3/4	2,471.36	3/4	2,774.81
2	61.89	2	358.87	2	661.16	2	963.84	2	1,265.33	2	1,567.35	2	1,870.79	2	2,174.24	2	2,477.69	2	2,781.13
1/4	67.99	1/4	364.99	1/4	667.48	1/4	970.16	1/4	1,271.51	1/4	1,573.67	1/4	1,877.12	1/4	2,180.56	1/4	2,484.01	1/4	2,787.45
1/2	74.09	1/2	371.12	1/2	673.80	1/2	976.49	1/2	1,277.68	1/2	1,579.99	1/2	1,883.44	1/2	2,186.88	1/2	2,490.33	1/2	2,793.78
3/4	80.20	3/4	377.24	3/4	680.13	3/4	982.81	3/4	1,283.86	3/4	1,586.31	3/4	1,889.76	3/4	2,193.21	3/4	2,496.65	3/4	2,800.10
3	86.30	3	383.36	3	686.45	3	989.13	3	1,290.04	3	1,592.63	3	1,896.08	3	2,199.53	3	2,502.97	3	2,806.42
1/4	92.41	1/4	389.59	1/4	692.76	1/4	995.46	1/4	1,296.22	1/4	1,598.96	1/4	1,902.40	1/4	2,205.85	1/4	2,509.30	1/4	2,812.74
1/2	98.53	1/2	395.81	1/2	699.07	1/2	1,001.78	1/2	1,302.40	1/2	1,605.28	1/2	1,908.72	1/2	2,212.17	1/2	2,515.62	1/2	2,819.06
3/4	104.65	3/4	402.03	3/4	705.38	3/4	1,008.10	3/4	1,308.58	3/4	1,611.60	3/4	1,915.05	3/4	2,218.49	3/4	2,521.94	3/4	2,825.39
4	110.76	4	408.26	4	711.70	4	1,014.42	4	1,314.76	4	1,617.92	4	1,921.37	4	2,224.81	4	2,528.26	4	2,831.71
1/4	116.89	1/4	414.58	1/4	718.00	1/4	1,020.75	1/4	1,321.01	1/4	1,624.24	1/4	1,927.69	1/4	2,231.14	1/4	2,534.58	1/4	2,838.03
1/2	123.01	1/2	420.90	1/2	724.30	1/2	1,027.07	1/2	1,327.26	1/2	1,630.57	1/2	1,934.01	1/2	2,237.46	1/2	2,540.90	1/2	2,844.35
3/4	129.13	3/4	427.22	3/4	730.60	3/4	1,033.39	3/4	1,333.51	3/4	1,636.89	3/4	1,940.33	3/4	2,243.78	3/4	2,547.23	3/4	2,850.67
5	135.25	5	433.55	5	736.90	5	1,039.72	5	1,339.76	5	1,643.21	5	1,946.66	5	2,250.10	5	2,553.55	5	2,856.99
1/4	141.47	1/4	439.87	1/4	743.20	1/4	1,046.04	1/4	1,346.08	1/4	1,649.53	1/4	1,952.98	1/4	2,256.42	1/4	2,559.87	1/4	2,863.32
1/2	147.69	1/2	446.19	1/2	749.50	1/2	1,052.36	1/2	1,352.41	1/2	1,655.85	1/2	1,959.30	1/2	2,262.75	1/2	2,566.19	1/2	2,869.64
3/4	153.92	3/4	452.51	3/4	755.81	3/4	1,058.68	3/4	1,358.73	3/4	1,662.17	3/4	1,965.62	3/4	2,269.07	3/4	2,572.51	3/4	2,875.96
6	160.14	6	458.84	6	762.11	6	1,065.01	6	1,365.05	6	1,668.50	6	1,971.94	6	2,275.39	6	2,578.84	6	2,882.28
1/4	166.46	1/4	465.16	1/4	768.41	1/4	1,071.33	1/4	1,371.37	1/4	1,674.82	1/4	1,978.26	1/4	2,281.71	1/4	2,585.16	1/4	2,888.60
1/2	172.78	1/2	471.48	1/2	774.71	1/2	1,077.65	1/2	1,377.69	1/2	1,681.14	1/2	1,984.59	1/2	2,288.03	1/2	2,591.48	1/2	2,894.93
3/4	179.11	3/4	477.80	3/4	781.01	3/4	1,083.98	3/4	1,384.02	3/4	1,687.46	3/4	1,990.91	3/4	2,294.35	3/4	2,597.80	3/4	2,901.25
7	185.43	7	484.13	7	787.31	7	1,090.30	7	1,390.34	7	1,693.78	7	1,997.23	7	2,300.68	7	2,604.12	7	2,907.57
1/4	191.75	1/4	490.45	1/4	793.61	1/4	1,096.62	1/4	1,396.66	1/4	1,700.11	1/4	2,003.55	1/4	2,307.00	1/4	2,610.44	1/4	2,913.89
1/2	198.07	1/2	496.77	1/2	799.92	1/2	1,102.94	1/2	1,402.98	1/2	1,706.43	1/2	2,009.87	1/2	2,313.32	1/2	2,616.77	1/2	2,920.21
3/4	204.40	3/4	503.09	3/4	806.22	3/4	1,109.27	3/4	1,409.30	3/4	1,712.75	3/4	2,016.20	3/4	2,319.64	3/4	2,623.09	3/4	2,926.53
8	210.72	8	509.42	8	812.52	8	1,115.59	8	1,415.62	8	1,719.07	8	2,022.52	8	2,325.96	8	2,629.41	8	2,932.86
1/4	217.04	1/4	515.74	1/4	818.82	1/4	1,121.91	1/4	1,421.95	1/4	1,725.39	1/4	2,028.84	1/4	2,332.29	1/4	2,635.73	1/4	2,939.18
1/2	223.36	1/2	522.06	1/2	825.12	1/2	1,128.23	1/2	1,428.27	1/2	1,731.71	1/2	2,035.16	1/2	2,338.61	1/2	2,642.05	1/2	2,945.50
3/4	229.69	3/4	528.38	3/4	831.42	3/4	1,134.56	3/4	1,434.59	3/4	1,738.04	3/4	2,041.48	3/4	2,344.93	3/4	2,648.38	3/4	2,951.82
9	236.01	9	534.71	9	837.73	9	1,140.88	9	1,440.91	9	1,744.36	9	2,047.80	9	2,351.25	9	2,654.70	9	2,958.14
1/4	242.23	1/4	541.03	1/4	844.03	1/4	1,147.20	1/4	1,447.23	1/4	1,750.68	1/4	2,054.13	1/4	2,357.57	1/4	2,661.02	1/4	2,964.47
1/2	248.45	1/2	547.35	1/2	850.33	1/2	1,153.53	1/2	1,453.56	1/2	1,757.00	1/2	2,060.45	1/2	2,363.89	1/2	2,667.34	1/2	2,970.79
3/4	254.68	3/4	553.67	3/4	856.63	3/4	1,159.85	3/4	1,459.88	3/4	1,763.32	3/4	2,066.77	3/4	2,370.22	3/4	2,673.66	3/4	2,977.11
10	260.90	10	560.00	10	862.93	10	1,166.17	10	1,466.20	10	1,769.65	10	2,073.09	10	2,376.54	10	2,679.98	10	2,983.43
1/4	267.02	1/4	566.32	1/4	869.23	1/4	1,172.42	1/4	1,472.52	1/4	1,775.97	1/4	2,079.41	1/4	2,382.86	1/4	2,686.31	1/4	2,989.75
1/2	273.15	1/2	572.64	1/2	875.53	1/2	1,178.67	1/2	1,478.84	1/2	1,782.29	1/2	2,085.73	1/2	2,389.18	1/2	2,692.63	1/2	2,996.07
3/4	279.27	3/4	578.97	3/4	881.84	3/4	1,184.92	3/4	1,485.16	3/4	1,788.61	3/4	2,092.06	3/4	2,395.50	3/4	2,698.95	3/4	3,002.40
11	285.39	11	585.29	11	888.14	11	1,191.17	11	1,491.49	11	1,794.93	11	2,098.38	11	2,401.83	11	2,705.27	11	3,008.72
1/4	291.52	1/4	591.61	1/4	894.44	1/4	1,197.35	1/4	1,497.81	1/4	1,801.25	1/4	2,104.70	1/4	2,408.15	1/4	2,711.59	1/4	3,015.04
1/2	297.64	1/2	597.93	1/2	900.75	1/2	1,203.53	1/2	1,504.13	1/2	1,807.58	1/2	2,111.02	1/2	2,414.47	1/2	2,717.92	1/2	3,021.36
3/4	303.76	3/4	604.26	3/4	907.05	3/4	1,209.71	3/4	1,510.45	3/4	1,813.90	3/4	2,117.34	3/4	2,420.79	3/4	2,724.24	3/4	3,027.68

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 INNAGE 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 322"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,034.01	0	3,337.43	0	3,640.01	0	3,942.59	0	4,243.69	0		0		0		0		0	
1/4	3,040.33	1/4	3,343.73	1/4	3,646.31	1/4	3,948.89	1/4	4,249.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,046.65	1/2	3,350.04	1/2	3,652.62	1/2	3,955.19	1/2	4,255.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,052.97	3/4	3,356.34	3/4	3,658.92	3/4	3,961.50	3/4	4,261.58	3/4		3/4		3/4		3/4		3/4	
1	3,059.29	1	3,362.65	1	3,665.22	1	3,967.80	1	4,267.54	1		1		1		1		1	
1/4	3,065.61	1/4	3,368.95	1/4	3,671.53	1/4	3,974.10	1/4	4,272.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,071.94	1/2	3,375.25	1/2	3,677.83	1/2	3,980.41	1/2	4,277.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,078.26	3/4	3,381.56	3/4	3,684.13	3/4	3,986.71	3/4	4,283.10	3/4		3/4		3/4		3/4		3/4	
2	3,084.58	2	3,387.86	2	3,690.44	2	3,993.02	2	4,288.29	2		2		2		2		2	
1/4	3,090.90	1/4	3,394.16	1/4	3,696.74	1/4	3,999.32	1/4	4,292.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,097.22	1/2	3,400.47	1/2	3,703.05	1/2	4,005.62	1/2	4,296.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,103.54	3/4	3,406.77	3/4	3,709.35	3/4	4,011.93	3/4	4,300.69	3/4		3/4		3/4		3/4		3/4	
3	3,109.87	3	3,413.08	3	3,715.65	3	4,018.23	3	4,304.82	3		3		3		3		3	
1/4	3,116.19	1/4	3,419.38	1/4	3,721.96	1/4	4,024.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,122.51	1/2	3,425.68	1/2	3,728.26	1/2	4,030.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,128.83	3/4	3,431.99	3/4	3,734.56	3/4	4,037.14	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,135.15	4	3,438.29	4	3,740.87	4	4,043.45	4		4		4		4		4		4	
1/4	3,141.48	1/4	3,444.59	1/4	3,747.17	1/4	4,049.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,147.80	1/2	3,450.90	1/2	3,753.48	1/2	4,056.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,154.12	3/4	3,457.20	3/4	3,759.78	3/4	4,062.36	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,160.44	5	3,463.51	5	3,766.08	5	4,068.66	5		5		5		5		5		5	
1/4	3,166.76	1/4	3,469.81	1/4	3,772.39	1/4	4,074.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,173.08	1/2	3,476.11	1/2	3,778.69	1/2	4,081.27	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,179.41	3/4	3,482.42	3/4	3,784.99	3/4	4,087.57	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,185.73	6	3,488.72	6	3,791.30	6	4,093.88	6		6		6		6		6		6	
1/4	3,192.05	1/4	3,495.02	1/4	3,797.60	1/4	4,100.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,198.37	1/2	3,501.33	1/2	3,803.90	1/2	4,106.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,204.69	3/4	3,507.63	3/4	3,810.21	3/4	4,112.70	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,211.02	7	3,513.93	7	3,816.51	7	4,118.97	7		7		7		7		7		7	
1/4	3,217.34	1/4	3,520.24	1/4	3,822.82	1/4	4,125.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,223.66	1/2	3,526.54	1/2	3,829.12	1/2	4,131.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,229.98	3/4	3,532.85	3/4	3,835.42	3/4	4,137.69	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,236.30	8	3,539.15	8	3,841.73	8	4,143.94	8		8		8		8		8		8	
1/4	3,242.62	1/4	3,545.45	1/4	3,848.03	1/4	4,150.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,248.95	1/2	3,551.76	1/2	3,854.33	1/2	4,156.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,255.27	3/4	3,558.06	3/4	3,860.64	3/4	4,162.66	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,261.59	9	3,564.36	9	3,866.94	9	4,168.90	9		9		9		9		9		9	
1/4	3,267.91	1/4	3,570.67	1/4	3,873.25	1/4	4,175.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,274.23	1/2	3,576.97	1/2	3,879.55	1/2	4,181.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,280.56	3/4	3,583.28	3/4	3,885.85	3/4	4,187.62	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,286.88	10	3,589.58	10	3,892.16	10	4,193.86	10		10		10		10		10		10	
1/4	3,293.20	1/4	3,595.88	1/4	3,898.46	1/4	4,200.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,299.52	1/2	3,602.19	1/2	3,904.76	1/2	4,206.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,305.84	3/4	3,608.49	3/4	3,911.07	3/4	4,212.57	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,312.16	11	3,614.79	11	3,917.37	11	4,218.81	11		11		11		11		11		11	
1/4	3,318.48	1/4	3,621.10	1/4	3,923.68	1/4	4,225.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,324.80	1/2	3,627.40	1/2	3,929.98	1/2	4,231.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,331.11	3/4	3,633.70	3/4	3,936.28	3/4	4,237.47	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "MM 322"

## 3 PORT INNAGE 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	20.87	0	309.81	0	610.43	0	903.65	0	1,202.21	0	1,503.02	0	1,806.39	0	2,109.76	0	2,413.13	0	2,716.50
1/4	25.41	1/4	315.93	1/4	616.75	1/4	909.68	1/4	1,208.39	1/4	1,509.34	1/4	1,812.71	1/4	2,116.08	1/4	2,419.45	1/4	2,722.82
1/2	29.95	1/2	322.05	1/2	623.07	1/2	915.71	1/2	1,214.57	1/2	1,515.66	1/2	1,819.03	1/2	2,122.40	1/2	2,425.77	1/2	2,729.14
3/4	34.50	3/4	328.17	3/4	629.39	3/4	921.73	3/4	1,220.74	3/4	1,521.98	3/4	1,825.35	3/4	2,128.72	3/4	2,432.09	3/4	2,735.46
1	39.04	1	334.30	1	635.71	1	927.76	1	1,226.92	1	1,528.30	1	1,831.67	1	2,135.04	1	2,438.41	1	2,741.78
1/4	44.75	1/4	340.42	1/4	642.03	1/4	933.79	1/4	1,233.10	1/4	1,534.62	1/4	1,837.99	1/4	2,141.36	1/4	2,444.73	1/4	2,748.10
1/2	50.46	1/2	346.54	1/2	648.35	1/2	939.83	1/2	1,239.28	1/2	1,540.94	1/2	1,844.31	1/2	2,147.68	1/2	2,451.05	1/2	2,754.42
3/4	56.17	3/4	352.66	3/4	654.67	3/4	945.86	3/4	1,245.46	3/4	1,547.26	3/4	1,850.63	3/4	2,154.00	3/4	2,457.37	3/4	2,760.74
2	61.88	2	358.78	2	661.00	2	951.90	2	1,251.63	2	1,553.58	2	1,856.95	2	2,160.32	2	2,463.69	2	2,767.06
1/4	67.98	1/4	364.90	1/4	667.32	1/4	957.94	1/4	1,257.81	1/4	1,559.90	1/4	1,863.27	1/4	2,166.64	1/4	2,470.01	1/4	2,773.38
1/2	74.08	1/2	371.03	1/2	673.64	1/2	963.98	1/2	1,263.99	1/2	1,566.22	1/2	1,869.59	1/2	2,172.96	1/2	2,476.33	1/2	2,779.70
3/4	80.18	3/4	377.15	3/4	679.96	3/4	970.02	3/4	1,270.17	3/4	1,572.54	3/4	1,875.91	3/4	2,179.28	3/4	2,482.65	3/4	2,786.02
3	86.28	3	383.27	3	686.28	3	976.07	3	1,276.34	3	1,578.86	3	1,882.23	3	2,185.60	3	2,488.97	3	2,792.34
1/4	92.39	1/4	389.49	1/4	692.45	1/4	982.25	1/4	1,282.52	1/4	1,585.18	1/4	1,888.55	1/4	2,191.92	1/4	2,495.29	1/4	2,798.66
1/2	98.51	1/2	395.71	1/2	698.62	1/2	988.43	1/2	1,288.70	1/2	1,591.50	1/2	1,894.87	1/2	2,198.24	1/2	2,501.61	1/2	2,804.98
3/4	104.62	3/4	401.93	3/4	704.79	3/4	994.61	3/4	1,294.88	3/4	1,597.82	3/4	1,901.19	3/4	2,204.56	3/4	2,507.93	3/4	2,811.30
4	110.74	4	408.16	4	710.96	4	1,000.79	4	1,301.06	4	1,604.14	4	1,907.51	4	2,210.88	4	2,514.25	4	2,817.62
1/4	116.86	1/4	414.48	1/4	716.98	1/4	1,007.11	1/4	1,307.30	1/4	1,610.46	1/4	1,913.83	1/4	2,217.20	1/4	2,520.57	1/4	2,823.94
1/2	122.98	1/2	420.80	1/2	723.00	1/2	1,013.44	1/2	1,313.55	1/2	1,616.78	1/2	1,920.15	1/2	2,223.52	1/2	2,526.89	1/2	2,830.26
3/4	129.10	3/4	427.12	3/4	729.03	3/4	1,019.76	3/4	1,319.80	3/4	1,623.10	3/4	1,926.47	3/4	2,229.84	3/4	2,533.21	3/4	2,836.58
5	135.22	5	433.44	5	735.05	5	1,026.08	5	1,326.05	5	1,629.42	5	1,932.79	5	2,236.16	5	2,539.53	5	2,842.90
1/4	141.44	1/4	439.76	1/4	741.07	1/4	1,032.40	1/4	1,332.37	1/4	1,635.74	1/4	1,939.11	1/4	2,242.48	1/4	2,545.85	1/4	2,849.22
1/2	147.66	1/2	446.08	1/2	747.09	1/2	1,038.72	1/2	1,338.69	1/2	1,642.06	1/2	1,945.43	1/2	2,248.80	1/2	2,552.17	1/2	2,855.54
3/4	153.88	3/4	452.40	3/4	753.11	3/4	1,045.04	3/4	1,345.01	3/4	1,648.38	3/4	1,951.75	3/4	2,255.12	3/4	2,558.49	3/4	2,861.86
6	160.10	6	458.72	6	759.13	6	1,051.36	6	1,351.33	6	1,654.70	6	1,958.07	6	2,261.44	6	2,564.81	6	2,868.18
1/4	166.42	1/4	465.04	1/4	765.15	1/4	1,057.68	1/4	1,357.65	1/4	1,661.02	1/4	1,964.39	1/4	2,267.76	1/4	2,571.13	1/4	2,874.50
1/2	172.74	1/2	471.37	1/2	771.17	1/2	1,064.01	1/2	1,363.97	1/2	1,667.34	1/2	1,970.71	1/2	2,274.08	1/2	2,577.45	1/2	2,880.82
3/4	179.06	3/4	477.69	3/4	777.20	3/4	1,070.33	3/4	1,370.29	3/4	1,673.66	3/4	1,977.03	3/4	2,280.40	3/4	2,583.77	3/4	2,887.14
7	185.38	7	484.01	7	783.22	7	1,076.65	7	1,376.61	7	1,679.98	7	1,983.35	7	2,286.72	7	2,590.09	7	2,893.46
1/4	191.70	1/4	490.33	1/4	789.24	1/4	1,082.97	1/4	1,382.93	1/4	1,686.30	1/4	1,989.67	1/4	2,293.04	1/4	2,596.41	1/4	2,899.78
1/2	198.02	1/2	496.65	1/2	795.26	1/2	1,089.29	1/2	1,389.25	1/2	1,692.62	1/2	1,995.99	1/2	2,299.36	1/2	2,602.73	1/2	2,906.10
3/4	204.35	3/4	502.97	3/4	801.28	3/4	1,095.61	3/4	1,395.57	3/4	1,698.94	3/4	2,002.31	3/4	2,305.68	3/4	2,609.05	3/4	2,912.42
8	210.67	8	509.29	8	807.30	8	1,101.93	8	1,401.89	8	1,705.26	8	2,008.63	8	2,312.00	8	2,615.37	8	2,918.74
1/4	216.99	1/4	515.61	1/4	813.32	1/4	1,108.25	1/4	1,408.21	1/4	1,711.58	1/4	2,014.95	1/4	2,318.32	1/4	2,621.69	1/4	2,925.06
1/2	223.31	1/2	521.93	1/2	819.34	1/2	1,114.58	1/2	1,414.53	1/2	1,717.90	1/2	2,021.27	1/2	2,324.64	1/2	2,628.01	1/2	2,931.38
3/4	229.63	3/4	528.25	3/4	825.36	3/4	1,120.90	3/4	1,420.85	3/4	1,724.22	3/4	2,027.59	3/4	2,330.96	3/4	2,634.33	3/4	2,937.70
9	235.95	9	534.58	9	831.39	9	1,127.22	9	1,427.17	9	1,730.54	9	2,033.91	9	2,337.28	9	2,640.65	9	2,944.02
1/4	242.17	1/4	540.90	1/4	837.41	1/4	1,133.54	1/4	1,433.50	1/4	1,736.86	1/4	2,040.23	1/4	2,343.60	1/4	2,646.97	1/4	2,950.34
1/2	248.39	1/2	547.22	1/2	843.43	1/2	1,139.86	1/2	1,439.82	1/2	1,743.18	1/2	2,046.55	1/2	2,349.92	1/2	2,653.29	1/2	2,956.66
3/4	254.61	3/4	553.54	3/4	849.45	3/4	1,146.18	3/4	1,446.14	3/4	1,749.51	3/4	2,052.87	3/4	2,356.24	3/4	2,659.61	3/4	2,962.98
10	260.84	10	559.86	10	855.47	10	1,152.50	10	1,452.46	10	1,755.83	10	2,059.19	10	2,362.56	10	2,665.93	10	2,969.30
1/4	266.96	1/4	566.18	1/4	861.49	1/4	1,158.75	1/4	1,458.78	1/4	1,762.15	1/4	2,065.52	1/4	2,368.88	1/4	2,672.25	1/4	2,975.62
1/2	273.08	1/2	572.50	1/2	867.51	1/2	1,165.00	1/2	1,465.10	1/2	1,768.47	1/2	2,071.84	1/2	2,375.20	1/2	2,678.57	1/2	2,981.94
3/4	279.20	3/4	578.82	3/4	873.53	3/4	1,171.25	3/4	1,471.42	3/4	1,774.79	3/4	2,078.16	3/4	2,381.53	3/4	2,684.89	3/4	2,988.26
11	285.32	11	585.14	11	879.56	11	1,177.50	11	1,477.74	11	1,781.11	11	2,084.48	11	2,387.85	11	2,691.21	11	2,994.58
1/4	291.44	1/4	591.46	1/4	885.58	1/4	1,183.68	1/4	1,484.06	1/4	1,787.43	1/4	2,090.80	1/4	2,394.17	1/4	2,697.54	1/4	3,000.90
1/2	297.57	1/2	597.79	1/2	891.60	1/2	1,189.86	1/2	1,490.38	1/2	1,793.75	1/2	2,097.12	1/2	2,400.49	1/2	2,703.86	1/2	3,007.22
3/4	303.69	3/4	604.11	3/4	897.63	3/4	1,196.03	3/4	1,496.70	3/4	1,800.07	3/4	2,103.44	3/4	2,406.81	3/4	2,710.18	3/4	3,013.55

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 INNAGE 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 322"

## 3 PORT INNAGE 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	3,019.87	0	3,323.21	0	3,625.72	0	3,928.22	0	4,229.26	0		0		0		0		0	
1/4	3,026.19	1/4	3,329.52	1/4	3,632.02	1/4	3,934.52	1/4	4,235.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,032.51	1/2	3,335.82	1/2	3,638.32	1/2	3,940.82	1/2	4,241.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,038.83	3/4	3,342.12	3/4	3,644.62	3/4	3,947.12	3/4	4,247.14	3/4		3/4		3/4		3/4		3/4	
1	3,045.15	1	3,348.42	1	3,650.92	1	3,953.42	1	4,253.10	1		1		1		1		1	
1/4	3,051.47	1/4	3,354.72	1/4	3,657.23	1/4	3,959.73	1/4	4,258.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,057.79	1/2	3,361.03	1/2	3,663.53	1/2	3,966.03	1/2	4,263.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,064.11	3/4	3,367.33	3/4	3,669.83	3/4	3,972.33	3/4	4,268.66	3/4		3/4		3/4		3/4		3/4	
2	3,070.43	2	3,373.63	2	3,676.13	2	3,978.63	2	4,273.84	2		2		2		2		2	
1/4	3,076.75	1/4	3,379.93	1/4	3,682.43	1/4	3,984.93	1/4	4,277.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,083.07	1/2	3,386.24	1/2	3,688.74	1/2	3,991.24	1/2	4,282.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,089.39	3/4	3,392.54	3/4	3,695.04	3/4	3,997.54	3/4	4,286.24	3/4		3/4		3/4		3/4		3/4	
3	3,095.71	3	3,398.84	3	3,701.34	3	4,003.84	3	4,290.37	3		3		3		3		3	
1/4	3,102.03	1/4	3,405.14	1/4	3,707.64	1/4	4,010.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,108.35	1/2	3,411.44	1/2	3,713.94	1/2	4,016.45	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,114.67	3/4	3,417.75	3/4	3,720.25	3/4	4,022.75	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,120.99	4	3,424.05	4	3,726.55	4	4,029.05	4		4		4		4		4		4	
1/4	3,127.31	1/4	3,430.35	1/4	3,732.85	1/4	4,035.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,133.63	1/2	3,436.65	1/2	3,739.15	1/2	4,041.65	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,139.95	3/4	3,442.95	3/4	3,745.46	3/4	4,047.96	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,146.27	5	3,449.26	5	3,751.76	5	4,054.26	5		5		5		5		5		5	
1/4	3,152.59	1/4	3,455.56	1/4	3,758.06	1/4	4,060.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,158.91	1/2	3,461.86	1/2	3,764.36	1/2	4,066.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,165.23	3/4	3,468.16	3/4	3,770.66	3/4	4,073.16	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,171.55	6	3,474.46	6	3,776.97	6	4,079.47	6		6		6		6		6		6	
1/4	3,177.87	1/4	3,480.77	1/4	3,783.27	1/4	4,085.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,184.19	1/2	3,487.07	1/2	3,789.57	1/2	4,092.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,190.51	3/4	3,493.37	3/4	3,795.87	3/4	4,098.28	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,196.83	7	3,499.67	7	3,802.17	7	4,104.56	7		7		7		7		7		7	
1/4	3,203.15	1/4	3,505.98	1/4	3,808.48	1/4	4,110.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,209.47	1/2	3,512.28	1/2	3,814.78	1/2	4,117.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,215.79	3/4	3,518.58	3/4	3,821.08	3/4	4,123.28	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,222.11	8	3,524.88	8	3,827.38	8	4,129.52	8		8		8		8		8		8	
1/4	3,228.43	1/4	3,531.18	1/4	3,833.68	1/4	4,135.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,234.75	1/2	3,537.49	1/2	3,839.99	1/2	4,142.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,241.07	3/4	3,543.79	3/4	3,846.29	3/4	4,148.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,247.39	9	3,550.09	9	3,852.59	9	4,154.47	9		9		9		9		9		9	
1/4	3,253.71	1/4	3,556.39	1/4	3,858.89	1/4	4,160.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,260.03	1/2	3,562.69	1/2	3,865.20	1/2	4,166.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,266.35	3/4	3,569.00	3/4	3,871.50	3/4	4,173.20	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,272.67	10	3,575.30	10	3,877.80	10	4,179.44	10		10		10		10		10		10	
1/4	3,278.99	1/4	3,581.60	1/4	3,884.10	1/4	4,185.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,285.31	1/2	3,587.90	1/2	3,890.40	1/2	4,191.91	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,291.63	3/4	3,594.20	3/4	3,896.71	3/4	4,198.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,297.95	11	3,600.51	11	3,903.01	11	4,204.38	11		11		11		11		11		11	
1/4	3,304.27	1/4	3,606.81	1/4	3,909.31	1/4	4,210.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,310.58	1/2	3,613.11	1/2	3,915.61	1/2	4,216.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,316.90	3/4	3,619.41	3/4	3,921.91	3/4	4,223.04	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

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



# BARGE "MM 322"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01 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	20.85	0	309.53	0	609.88	0	912.31	0	1,214.50	0	1,515.04	0	1,818.14	0	2,121.24	0	2,424.34	0	2,727.44
1/4	25.39	1/4	315.65	1/4	616.20	1/4	918.61	1/4	1,220.67	1/4	1,521.36	1/4	1,824.46	1/4	2,127.56	1/4	2,430.66	1/4	2,733.76
1/2	29.93	1/2	321.76	1/2	622.51	1/2	924.91	1/2	1,226.85	1/2	1,527.67	1/2	1,830.77	1/2	2,133.87	1/2	2,436.97	1/2	2,740.07
3/4	34.46	3/4	327.88	3/4	628.83	3/4	931.21	3/4	1,233.02	3/4	1,533.98	3/4	1,837.09	3/4	2,140.19	3/4	2,443.29	3/4	2,746.39
1	39.00	1	334.00	1	635.14	1	937.51	1	1,239.19	1	1,540.30	1	1,843.40	1	2,146.50	1	2,449.60	1	2,752.70
1/4	44.71	1/4	340.11	1/4	641.46	1/4	943.82	1/4	1,245.36	1/4	1,546.61	1/4	1,849.71	1/4	2,152.82	1/4	2,455.92	1/4	2,759.02
1/2	50.41	1/2	346.23	1/2	647.77	1/2	950.13	1/2	1,251.54	1/2	1,552.93	1/2	1,856.03	1/2	2,159.13	1/2	2,462.23	1/2	2,765.33
3/4	56.12	3/4	352.34	3/4	654.09	3/4	956.43	3/4	1,257.71	3/4	1,559.24	3/4	1,862.34	3/4	2,165.44	3/4	2,468.55	3/4	2,771.65
2	61.82	2	358.46	2	660.40	2	962.74	2	1,263.88	2	1,565.56	2	1,868.66	2	2,171.76	2	2,474.86	2	2,777.96
1/4	67.92	1/4	364.58	1/4	666.72	1/4	969.06	1/4	1,270.05	1/4	1,571.87	1/4	1,874.97	1/4	2,178.07	1/4	2,481.17	1/4	2,784.28
1/2	74.01	1/2	370.69	1/2	673.04	1/2	975.37	1/2	1,276.22	1/2	1,578.19	1/2	1,881.29	1/2	2,184.39	1/2	2,487.49	1/2	2,790.59
3/4	80.11	3/4	376.81	3/4	679.35	3/4	981.69	3/4	1,282.40	3/4	1,584.50	3/4	1,887.60	3/4	2,190.70	3/4	2,493.80	3/4	2,796.90
3	86.20	3	382.93	3	685.67	3	988.00	3	1,288.57	3	1,590.82	3	1,893.92	3	2,197.02	3	2,500.12	3	2,803.22
1/4	92.31	1/4	389.14	1/4	691.97	1/4	994.32	1/4	1,294.74	1/4	1,597.13	1/4	1,900.23	1/4	2,203.33	1/4	2,506.43	1/4	2,809.53
1/2	98.42	1/2	395.36	1/2	698.27	1/2	1,000.63	1/2	1,300.91	1/2	1,603.45	1/2	1,906.55	1/2	2,209.65	1/2	2,512.75	1/2	2,815.85
3/4	104.53	3/4	401.57	3/4	704.58	3/4	1,006.95	3/4	1,307.09	3/4	1,609.76	3/4	1,912.86	3/4	2,215.96	3/4	2,519.06	3/4	2,822.16
4	110.64	4	407.79	4	710.88	4	1,013.27	4	1,313.26	4	1,616.07	4	1,919.18	4	2,222.28	4	2,525.38	4	2,828.48
1/4	116.75	1/4	414.10	1/4	717.18	1/4	1,019.58	1/4	1,319.50	1/4	1,622.39	1/4	1,925.49	1/4	2,228.59	1/4	2,531.69	1/4	2,834.79
1/2	122.87	1/2	420.42	1/2	723.47	1/2	1,025.90	1/2	1,325.74	1/2	1,628.70	1/2	1,931.80	1/2	2,234.91	1/2	2,538.01	1/2	2,841.11
3/4	128.98	3/4	426.73	3/4	729.77	3/4	1,032.21	3/4	1,331.99	3/4	1,635.02	3/4	1,938.12	3/4	2,241.22	3/4	2,544.32	3/4	2,847.42
5	135.09	5	433.05	5	736.06	5	1,038.53	5	1,338.23	5	1,641.33	5	1,944.43	5	2,247.53	5	2,550.64	5	2,853.74
1/4	141.31	1/4	439.37	1/4	742.35	1/4	1,044.84	1/4	1,344.55	1/4	1,647.65	1/4	1,950.75	1/4	2,253.85	1/4	2,556.95	1/4	2,860.05
1/2	147.52	1/2	445.68	1/2	748.65	1/2	1,051.16	1/2	1,350.86	1/2	1,653.96	1/2	1,957.06	1/2	2,260.16	1/2	2,563.26	1/2	2,866.37
3/4	153.74	3/4	452.00	3/4	754.94	3/4	1,057.47	3/4	1,357.18	3/4	1,660.28	3/4	1,963.38	3/4	2,266.48	3/4	2,569.58	3/4	2,872.68
6	159.95	6	458.31	6	761.24	6	1,063.79	6	1,363.49	6	1,666.59	6	1,969.69	6	2,272.79	6	2,575.89	6	2,878.99
1/4	166.27	1/4	464.63	1/4	767.53	1/4	1,070.11	1/4	1,369.80	1/4	1,672.91	1/4	1,976.01	1/4	2,279.11	1/4	2,582.21	1/4	2,885.31
1/2	172.59	1/2	470.94	1/2	773.83	1/2	1,076.42	1/2	1,376.12	1/2	1,679.22	1/2	1,982.32	1/2	2,285.42	1/2	2,588.52	1/2	2,891.62
3/4	178.90	3/4	477.26	3/4	780.12	3/4	1,082.74	3/4	1,382.43	3/4	1,685.53	3/4	1,988.64	3/4	2,291.74	3/4	2,594.84	3/4	2,897.94
7	185.22	7	483.57	7	786.41	7	1,089.05	7	1,388.75	7	1,691.85	7	1,994.95	7	2,298.05	7	2,601.15	7	2,904.25
1/4	191.53	1/4	489.89	1/4	792.71	1/4	1,095.37	1/4	1,395.06	1/4	1,698.16	1/4	2,001.26	1/4	2,304.37	1/4	2,607.47	1/4	2,910.57
1/2	197.85	1/2	496.20	1/2	799.00	1/2	1,101.68	1/2	1,401.38	1/2	1,704.48	1/2	2,007.58	1/2	2,310.68	1/2	2,613.78	1/2	2,916.88
3/4	204.16	3/4	502.52	3/4	805.30	3/4	1,108.00	3/4	1,407.69	3/4	1,710.79	3/4	2,013.89	3/4	2,316.99	3/4	2,620.10	3/4	2,923.20
8	210.48	8	508.83	8	811.59	8	1,114.31	8	1,414.01	8	1,717.11	8	2,020.21	8	2,323.31	8	2,626.41	8	2,929.51
1/4	216.79	1/4	515.15	1/4	817.89	1/4	1,120.63	1/4	1,420.32	1/4	1,723.42	1/4	2,026.52	1/4	2,329.62	1/4	2,632.72	1/4	2,935.83
1/2	223.11	1/2	521.47	1/2	824.18	1/2	1,126.95	1/2	1,426.64	1/2	1,729.74	1/2	2,032.84	1/2	2,335.94	1/2	2,639.04	1/2	2,942.14
3/4	229.42	3/4	527.78	3/4	830.47	3/4	1,133.26	3/4	1,432.95	3/4	1,736.05	3/4	2,039.15	3/4	2,342.25	3/4	2,645.35	3/4	2,948.45
9	235.74	9	534.10	9	836.77	9	1,139.58	9	1,439.27	9	1,742.37	9	2,045.47	9	2,348.57	9	2,651.67	9	2,954.77
1/4	241.95	1/4	540.41	1/4	843.06	1/4	1,145.89	1/4	1,445.58	1/4	1,748.68	1/4	2,051.78	1/4	2,354.88	1/4	2,657.98	1/4	2,961.08
1/2	248.17	1/2	546.73	1/2	849.36	1/2	1,152.21	1/2	1,451.89	1/2	1,755.00	1/2	2,058.10	1/2	2,361.20	1/2	2,664.30	1/2	2,967.40
3/4	254.39	3/4	553.04	3/4	855.65	3/4	1,158.52	3/4	1,458.21	3/4	1,761.31	3/4	2,064.41	3/4	2,367.51	3/4	2,670.61	3/4	2,973.71
10	260.60	10	559.36	10	861.95	10	1,164.84	10	1,464.52	10	1,767.62	10	2,070.73	10	2,373.83	10	2,676.93	10	2,980.03
1/4	266.72	1/4	565.67	1/4	868.24	1/4	1,171.08	1/4	1,470.84	1/4	1,773.94	1/4	2,077.04	1/4	2,380.14	1/4	2,683.24	1/4	2,986.34
1/2	272.83	1/2	571.99	1/2	874.53	1/2	1,177.33	1/2	1,477.15	1/2	1,780.25	1/2	2,083.35	1/2	2,386.46	1/2	2,689.56	1/2	2,992.66
3/4	278.95	3/4	578.30	3/4	880.83	3/4	1,183.57	3/4	1,483.47	3/4	1,786.57	3/4	2,089.67	3/4	2,392.77	3/4	2,695.87	3/4	2,998.97
11	285.07	11	584.62	11	887.12	11	1,189.81	11	1,489.78	11	1,792.88	11	2,095.98	11	2,399.08	11	2,702.19	11	3,005.29
1/4	291.18	1/4	590.93	1/4	893.42	1/4	1,195.99	1/4	1,496.10	1/4	1,799.20	1/4	2,102.30	1/4	2,405.40	1/4	2,708.50	1/4	3,011.60
1/2	297.30	1/2	597.25	1/2	899.72	1/2	1,202.16	1/2	1,502.41	1/2	1,805.51	1/2	2,108.61	1/2	2,411.71	1/2	2,714.81	1/2	3,017.92
3/4	303.41	3/4	603.57	3/4	906.01	3/4	1,208.33	3/4	1,508.73	3/4	1,811.83	3/4	2,114.93	3/4	2,418.03	3/4	2,721.13	3/4	3,024.23

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 INNAGE 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 322"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-01 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	3,030.54	0	3,333.62	0	3,635.85	0	3,938.08	0	4,238.85	0		0		0		0		0	
1/4	3,036.86	1/4	3,339.91	1/4	3,642.15	1/4	3,944.38	1/4	4,244.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,043.17	1/2	3,346.21	1/2	3,648.44	1/2	3,950.67	1/2	4,250.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,049.49	3/4	3,352.51	3/4	3,654.74	3/4	3,956.97	3/4	4,256.71	3/4		3/4		3/4		3/4		3/4	
1	3,055.80	1	3,358.80	1	3,661.04	1	3,963.27	1	4,262.67	1		1		1		1		1	
1/4	3,062.12	1/4	3,365.10	1/4	3,667.33	1/4	3,969.56	1/4	4,267.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,068.43	1/2	3,371.40	1/2	3,673.63	1/2	3,975.86	1/2	4,273.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,074.75	3/4	3,377.69	3/4	3,679.92	3/4	3,982.16	3/4	4,278.21	3/4		3/4		3/4		3/4		3/4	
2	3,081.06	2	3,383.99	2	3,686.22	2	3,988.45	2	4,283.39	2		2		2		2		2	
1/4	3,087.38	1/4	3,390.29	1/4	3,692.52	1/4	3,994.75	1/4	4,287.52	1/4		1/4		1/4		1/4		1/4	
1/2	3,093.69	1/2	3,396.58	1/2	3,698.81	1/2	4,001.05	1/2	4,291.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,100.01	3/4	3,402.88	3/4	3,705.11	3/4	4,007.34	3/4	4,295.78	3/4		3/4		3/4		3/4		3/4	
3	3,106.32	3	3,409.18	3	3,711.41	3	4,013.64	3	4,299.90	3		3		3		3		3	
1/4	3,112.63	1/4	3,415.47	1/4	3,717.70	1/4	4,019.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,118.95	1/2	3,421.77	1/2	3,724.00	1/2	4,026.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,125.26	3/4	3,428.06	3/4	3,730.30	3/4	4,032.53	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,131.58	4	3,434.36	4	3,736.59	4	4,038.83	4		4		4		4		4		4	
1/4	3,137.89	1/4	3,440.66	1/4	3,742.89	1/4	4,045.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,144.21	1/2	3,446.95	1/2	3,749.19	1/2	4,051.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,150.52	3/4	3,453.25	3/4	3,755.48	3/4	4,057.71	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,156.84	5	3,459.55	5	3,761.78	5	4,064.01	5		5		5		5		5		5	
1/4	3,163.15	1/4	3,465.84	1/4	3,768.08	1/4	4,070.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,169.47	1/2	3,472.14	1/2	3,774.37	1/2	4,076.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,175.78	3/4	3,478.44	3/4	3,780.67	3/4	4,082.90	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,182.10	6	3,484.73	6	3,786.97	6	4,089.20	6		6		6		6		6		6	
1/4	3,188.41	1/4	3,491.03	1/4	3,793.26	1/4	4,095.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,194.72	1/2	3,497.33	1/2	3,799.56	1/2	4,101.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,201.04	3/4	3,503.62	3/4	3,805.85	3/4	4,108.00	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,207.35	7	3,509.92	7	3,812.15	7	4,114.26	7		7		7		7		7		7	
1/4	3,213.67	1/4	3,516.22	1/4	3,818.45	1/4	4,120.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,219.98	1/2	3,522.51	1/2	3,824.74	1/2	4,126.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,226.30	3/4	3,528.81	3/4	3,831.04	3/4	4,132.97	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,232.61	8	3,535.11	8	3,837.34	8	4,139.20	8		8		8		8		8		8	
1/4	3,238.93	1/4	3,541.40	1/4	3,843.63	1/4	4,145.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,245.24	1/2	3,547.70	1/2	3,849.93	1/2	4,151.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,251.56	3/4	3,553.99	3/4	3,856.23	3/4	4,157.90	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,257.87	9	3,560.29	9	3,862.52	9	4,164.14	9		9		9		9		9		9	
1/4	3,264.18	1/4	3,566.59	1/4	3,868.82	1/4	4,170.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,270.50	1/2	3,572.88	1/2	3,875.12	1/2	4,176.60	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,276.81	3/4	3,579.18	3/4	3,881.41	3/4	4,182.84	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,283.13	10	3,585.48	10	3,887.71	10	4,189.07	10		10		10		10		10		10	
1/4	3,289.44	1/4	3,591.77	1/4	3,894.01	1/4	4,195.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,295.76	1/2	3,598.07	1/2	3,900.30	1/2	4,201.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,302.07	3/4	3,604.37	3/4	3,906.60	3/4	4,207.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,308.39	11	3,610.66	11	3,912.90	11	4,213.99	11		11		11		11		11		11	
1/4	3,314.69	1/4	3,616.96	1/4	3,919.19	1/4	4,220.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,321.00	1/2	3,623.26	1/2	3,925.49	1/2	4,226.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,327.31	3/4	3,629.55	3/4	3,931.78	3/4	4,232.63	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/26/2020 CL  
CALCULATED: 03/27/2020 CL  
PRINTED: 03/27/2020 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "MM 322"

## 4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-10 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	4.73	0	165.33	0	381.22	0	593.99	0	808.74	0	1,023.59	0	1,241.69	0	1,459.82	0	1,677.64	0	1,895.47
1/4	6.69	1/4	169.74	1/4	385.77	1/4	598.34	1/4	813.18	1/4	1,028.10	1/4	1,246.24	1/4	1,464.36	1/4	1,682.18	1/4	1,900.00
1/2	8.66	1/2	174.16	1/2	390.32	1/2	602.70	1/2	817.62	1/2	1,032.61	1/2	1,250.80	1/2	1,468.90	1/2	1,686.72	1/2	1,904.53
3/4	10.62	3/4	178.57	3/4	394.88	3/4	607.05	3/4	822.06	3/4	1,037.11	3/4	1,255.35	3/4	1,473.43	3/4	1,691.26	3/4	1,909.07
1	12.58	1	182.98	1	399.43	1	611.41	1	826.50	1	1,041.62	1	1,259.90	1	1,477.97	1	1,695.80	1	1,913.60
1/4	14.58	1/4	187.40	1/4	403.98	1/4	615.77	1/4	830.94	1/4	1,046.14	1/4	1,264.45	1/4	1,482.51	1/4	1,700.33	1/4	1,918.11
1/2	16.58	1/2	191.81	1/2	408.53	1/2	620.13	1/2	835.38	1/2	1,050.66	1/2	1,269.01	1/2	1,487.05	1/2	1,704.87	1/2	1,922.62
3/4	18.58	3/4	196.23	3/4	413.08	3/4	624.49	3/4	839.82	3/4	1,055.18	3/4	1,273.56	3/4	1,491.59	3/4	1,709.41	3/4	1,927.13
2	20.58	2	200.64	2	417.63	2	628.85	2	844.26	2	1,059.70	2	1,278.11	2	1,496.12	2	1,713.95	2	1,931.64
1/4	20.86	1/4	205.05	1/4	422.18	1/4	633.21	1/4	848.70	1/4	1,064.24	1/4	1,282.66	1/4	1,500.66	1/4	1,718.49	1/4	1,936.13
1/2	21.14	1/2	209.47	1/2	426.73	1/2	637.58	1/2	853.14	1/2	1,068.79	1/2	1,287.22	1/2	1,505.20	1/2	1,723.02	1/2	1,940.62
3/4	21.41	3/4	213.88	3/4	431.28	3/4	641.94	3/4	857.58	3/4	1,073.33	3/4	1,291.77	3/4	1,509.74	3/4	1,727.56	3/4	1,945.11
3	21.69	3	218.30	3	435.83	3	646.30	3	862.02	3	1,077.88	3	1,296.32	3	1,514.28	3	1,732.10	3	1,949.61
1/4	23.53	1/4	222.71	1/4	440.38	1/4	650.68	1/4	866.46	1/4	1,082.43	1/4	1,300.87	1/4	1,518.81	1/4	1,736.64	1/4	1,954.10
1/2	25.37	1/2	227.12	1/2	444.93	1/2	655.05	1/2	870.90	1/2	1,086.97	1/2	1,305.43	1/2	1,523.35	1/2	1,741.18	1/2	1,958.59
3/4	27.20	3/4	231.54	3/4	449.49	3/4	659.43	3/4	875.34	3/4	1,091.52	3/4	1,309.98	3/4	1,527.89	3/4	1,745.71	3/4	1,963.09
4	29.04	4	235.95	4	454.04	4	663.81	4	879.78	4	1,096.06	4	1,314.53	4	1,532.43	4	1,750.25	4	1,967.58
1/4	32.03	1/4	240.40	1/4	458.54	1/4	668.22	1/4	884.22	1/4	1,100.61	1/4	1,319.08	1/4	1,536.97	1/4	1,754.79	1/4	1,972.07
1/2	35.02	1/2	244.85	1/2	463.04	1/2	672.64	1/2	888.66	1/2	1,105.15	1/2	1,323.63	1/2	1,541.50	1/2	1,759.33	1/2	1,976.56
3/4	38.02	3/4	249.30	3/4	467.54	3/4	677.06	3/4	893.10	3/4	1,109.70	3/4	1,328.18	3/4	1,546.04	3/4	1,763.87	3/4	1,981.06
5	41.01	5	253.75	5	472.05	5	681.48	5	897.54	5	1,114.24	5	1,332.73	5	1,550.58	5	1,768.40	5	1,985.55
1/4	45.00	1/4	258.31	1/4	476.40	1/4	686.03	1/4	902.00	1/4	1,118.79	1/4	1,337.28	1/4	1,555.12	1/4	1,772.94	1/4	1,990.05
1/2	49.00	1/2	262.87	1/2	480.76	1/2	690.58	1/2	906.45	1/2	1,123.34	1/2	1,341.82	1/2	1,559.66	1/2	1,777.48	1/2	1,994.54
3/4	53.00	3/4	267.42	3/4	485.12	3/4	695.13	3/4	910.91	3/4	1,127.88	3/4	1,346.36	3/4	1,564.19	3/4	1,782.02	3/4	1,999.04
6	56.99	6	271.98	6	489.47	6	699.68	6	915.37	6	1,132.43	6	1,350.91	6	1,568.73	6	1,786.56	6	2,003.54
1/4	61.45	1/4	276.54	1/4	493.83	1/4	704.23	1/4	919.88	1/4	1,136.98	1/4	1,355.45	1/4	1,573.27	1/4	1,791.09	1/4	2,008.05
1/2	65.91	1/2	281.10	1/2	498.19	1/2	708.77	1/2	924.39	1/2	1,141.54	1/2	1,359.98	1/2	1,577.81	1/2	1,795.63	1/2	2,012.55
3/4	70.37	3/4	285.65	3/4	502.54	3/4	713.32	3/4	928.90	3/4	1,146.09	3/4	1,364.52	3/4	1,582.35	3/4	1,800.17	3/4	2,017.06
7	74.83	7	290.21	7	506.90	7	717.87	7	933.41	7	1,150.64	7	1,369.06	7	1,586.88	7	1,804.71	7	2,021.57
1/4	79.40	1/4	294.76	1/4	511.25	1/4	722.42	1/4	937.91	1/4	1,155.19	1/4	1,373.60	1/4	1,591.42	1/4	1,809.25	1/4	2,025.89
1/2	83.97	1/2	299.31	1/2	515.61	1/2	726.97	1/2	942.42	1/2	1,159.75	1/2	1,378.14	1/2	1,595.96	1/2	1,813.78	1/2	2,030.21
3/4	88.54	3/4	303.86	3/4	519.96	3/4	731.52	3/4	946.93	3/4	1,164.30	3/4	1,382.67	3/4	1,600.50	3/4	1,818.32	3/4	2,034.53
8	93.10	8	308.41	8	524.32	8	736.07	8	951.44	8	1,168.85	8	1,387.21	8	1,605.04	8	1,822.86	8	2,038.84
1/4	97.67	1/4	312.96	1/4	528.67	1/4	740.61	1/4	955.95	1/4	1,173.40	1/4	1,391.75	1/4	1,609.57	1/4	1,827.40	1/4	2,042.40
1/2	102.23	1/2	317.51	1/2	533.02	1/2	745.16	1/2	960.46	1/2	1,177.96	1/2	1,396.29	1/2	1,614.11	1/2	1,831.94	1/2	2,045.96
3/4	106.80	3/4	322.06	3/4	537.38	3/4	749.71	3/4	964.97	3/4	1,182.51	3/4	1,400.83	3/4	1,618.65	3/4	1,836.47	3/4	2,049.52
9	111.36	9	326.61	9	541.73	9	754.26	9	969.48	9	1,187.06	9	1,405.36	9	1,623.19	9	1,841.01	9	2,053.08
1/4	115.92	1/4	331.16	1/4	546.09	1/4	758.81	1/4	973.99	1/4	1,191.61	1/4	1,409.90	1/4	1,627.73	1/4	1,845.55	1/4	2,055.87
1/2	120.48	1/2	335.72	1/2	550.44	1/2	763.36	1/2	978.50	1/2	1,196.17	1/2	1,414.44	1/2	1,632.26	1/2	1,850.09	1/2	2,058.67
3/4	125.03	3/4	340.27	3/4	554.80	3/4	767.91	3/4	983.01	3/4	1,200.72	3/4	1,418.98	3/4	1,636.80	3/4	1,854.63	3/4	2,061.46
10	129.59	10	344.82	10	559.15	10	772.46	10	987.51	10	1,205.27	10	1,423.52	10	1,641.34	10	1,859.16	10	2,064.26
1/4	134.11	1/4	349.37	1/4	563.51	1/4	777.00	1/4	992.02	1/4	1,209.82	1/4	1,428.05	1/4	1,645.88	1/4	1,863.70	1/4	2,066.29
1/2	138.63	1/2	353.92	1/2	567.86	1/2	781.55	1/2	996.53	1/2	1,214.38	1/2	1,432.59	1/2	1,650.42	1/2	1,868.24	1/2	2,068.32
3/4	143.15	3/4	358.47	3/4	572.21	3/4	786.10	3/4	1,001.04	3/4	1,218.93	3/4	1,437.13	3/4	1,654.95	3/4	1,872.78	3/4	2,070.36
11	147.67	11	363.02	11	576.57	11	790.65	11	1,005.55	11	1,223.48	11	1,441.67	11	1,659.49	11	1,877.32	11	2,072.39
1/4	152.09	1/4	367.57	1/4	580.92	1/4	795.17	1/4	1,010.06	1/4	1,228.03	1/4	1,446.21	1/4	1,664.03	1/4	1,881.85	1/4	2,073.66
1/2	156.50	1/2	372.12	1/2	585.28	1/2	799.69	1/2	1,014.57	1/2	1,232.59	1/2	1,450.74	1/2	1,668.57	1/2	1,886.39	1/2	2,074.93
3/4	160.92	3/4	376.67	3/4	589.63	3/4	804.22	3/4	1,019.08	3/4	1,237.14	3/4	1,455.28	3/4	1,673.11	3/4	1,890.93	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 INNAGE GAUGES  
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 47'-09" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

STRAPPED: 03/26/2020 CL  
 CALCULATED: 03/27/2020 CL  
 PRINTED: 03/27/2020 CL

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

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 03/2020





# BARGE "MM 322"

## 4 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-11 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	4.73	0	165.49	0	380.06	0	596.58	0	813.50	0	1,027.25	0	1,244.05	0	1,460.72	0	1,677.09	0	1,893.45
1/4	6.69	1/4	169.91	1/4	384.58	1/4	601.09	1/4	817.92	1/4	1,031.73	1/4	1,248.57	1/4	1,465.23	1/4	1,681.59	1/4	1,897.95
1/2	8.65	1/2	174.32	1/2	389.10	1/2	605.60	1/2	822.34	1/2	1,036.22	1/2	1,253.10	1/2	1,469.74	1/2	1,686.10	1/2	1,902.45
3/4	10.62	3/4	178.74	3/4	393.62	3/4	610.10	3/4	826.75	3/4	1,040.70	3/4	1,257.62	3/4	1,474.24	3/4	1,690.61	3/4	1,906.96
1	12.58	1	183.15	1	398.14	1	614.61	1	831.17	1	1,045.19	1	1,262.14	1	1,478.75	1	1,695.12	1	1,911.46
1/4	14.58	1/4	187.54	1/4	402.66	1/4	619.12	1/4	835.59	1/4	1,049.68	1/4	1,266.66	1/4	1,483.26	1/4	1,699.62	1/4	1,915.94
1/2	16.58	1/2	191.92	1/2	407.18	1/2	623.62	1/2	840.01	1/2	1,054.18	1/2	1,271.19	1/2	1,487.77	1/2	1,704.13	1/2	1,920.42
3/4	18.58	3/4	196.30	3/4	411.70	3/4	628.13	3/4	844.42	3/4	1,058.67	3/4	1,275.71	3/4	1,492.27	3/4	1,708.64	3/4	1,924.90
2	20.58	2	200.69	2	416.22	2	632.64	2	848.84	2	1,063.17	2	1,280.23	2	1,496.78	2	1,713.15	2	1,929.38
1/4	20.86	1/4	205.07	1/4	420.74	1/4	637.16	1/4	853.26	1/4	1,067.69	1/4	1,284.75	1/4	1,501.29	1/4	1,717.65	1/4	1,933.84
1/2	21.15	1/2	209.46	1/2	425.26	1/2	641.67	1/2	857.67	1/2	1,072.21	1/2	1,289.27	1/2	1,505.80	1/2	1,722.16	1/2	1,938.30
3/4	21.43	3/4	213.84	3/4	429.78	3/4	646.18	3/4	862.09	3/4	1,076.73	3/4	1,293.80	3/4	1,510.30	3/4	1,726.67	3/4	1,942.76
3	21.71	3	218.22	3	434.30	3	650.70	3	866.51	3	1,081.26	3	1,298.32	3	1,514.81	3	1,731.18	3	1,947.23
1/4	23.55	1/4	222.61	1/4	438.82	1/4	655.22	1/4	870.93	1/4	1,085.78	1/4	1,302.84	1/4	1,519.32	1/4	1,735.68	1/4	1,951.69
1/2	25.39	1/2	226.99	1/2	443.34	1/2	659.75	1/2	875.34	1/2	1,090.30	1/2	1,307.36	1/2	1,523.83	1/2	1,740.19	1/2	1,956.15
3/4	27.23	3/4	231.37	3/4	447.86	3/4	664.27	3/4	879.76	3/4	1,094.82	3/4	1,311.88	3/4	1,528.33	3/4	1,744.70	3/4	1,960.61
4	29.07	4	235.76	4	452.38	4	668.80	4	884.18	4	1,099.35	4	1,316.41	4	1,532.84	4	1,749.21	4	1,965.08
1/4	32.07	1/4	240.18	1/4	456.90	1/4	673.32	1/4	888.59	1/4	1,103.87	1/4	1,320.93	1/4	1,537.35	1/4	1,753.71	1/4	1,969.54
1/2	35.06	1/2	244.60	1/2	461.42	1/2	677.85	1/2	893.01	1/2	1,108.39	1/2	1,325.45	1/2	1,541.86	1/2	1,758.22	1/2	1,974.00
3/4	38.05	3/4	249.02	3/4	465.93	3/4	682.38	3/4	897.43	3/4	1,112.91	3/4	1,329.97	3/4	1,546.36	3/4	1,762.73	3/4	1,978.46
5	41.05	5	253.44	5	470.45	5	686.90	5	901.84	5	1,117.43	5	1,334.49	5	1,550.87	5	1,767.24	5	1,982.93
1/4	45.04	1/4	257.96	1/4	474.96	1/4	691.43	1/4	906.28	1/4	1,121.96	1/4	1,339.00	1/4	1,555.38	1/4	1,771.74	1/4	1,987.40
1/2	49.04	1/2	262.49	1/2	479.46	1/2	695.95	1/2	910.71	1/2	1,126.48	1/2	1,343.51	1/2	1,559.89	1/2	1,776.25	1/2	1,991.87
3/4	53.03	3/4	267.02	3/4	483.97	3/4	700.48	3/4	915.15	3/4	1,131.00	3/4	1,348.02	3/4	1,564.40	3/4	1,780.76	3/4	1,996.35
6	57.03	6	271.55	6	488.48	6	705.00	6	919.58	6	1,135.52	6	1,352.54	6	1,568.90	6	1,785.27	6	2,000.82
1/4	61.49	1/4	276.07	1/4	492.98	1/4	709.53	1/4	924.07	1/4	1,140.04	1/4	1,357.05	1/4	1,573.41	1/4	1,789.78	1/4	2,005.33
1/2	65.95	1/2	280.60	1/2	497.49	1/2	714.05	1/2	928.55	1/2	1,144.57	1/2	1,361.55	1/2	1,577.92	1/2	1,794.28	1/2	2,009.84
3/4	70.41	3/4	285.12	3/4	501.99	3/4	718.58	3/4	933.04	3/4	1,149.09	3/4	1,366.06	3/4	1,582.43	3/4	1,798.79	3/4	2,014.34
7	74.87	7	289.65	7	506.50	7	723.10	7	937.53	7	1,153.61	7	1,370.57	7	1,586.93	7	1,803.30	7	2,018.85
1/4	79.43	1/4	294.17	1/4	511.01	1/4	727.63	1/4	942.01	1/4	1,158.13	1/4	1,375.08	1/4	1,591.44	1/4	1,807.81	1/4	2,023.17
1/2	84.00	1/2	298.69	1/2	515.51	1/2	732.15	1/2	946.50	1/2	1,162.65	1/2	1,379.58	1/2	1,595.95	1/2	1,812.31	1/2	2,027.48
3/4	88.57	3/4	303.21	3/4	520.01	3/4	736.68	3/4	950.98	3/4	1,167.18	3/4	1,384.09	3/4	1,600.46	3/4	1,816.82	3/4	2,031.80
8	93.13	8	307.73	8	524.52	8	741.21	8	955.47	8	1,171.70	8	1,388.60	8	1,604.96	8	1,821.33	8	2,036.12
1/4	97.70	1/4	312.25	1/4	529.02	1/4	745.73	1/4	959.96	1/4	1,176.22	1/4	1,393.11	1/4	1,609.47	1/4	1,825.84	1/4	2,039.67
1/2	102.27	1/2	316.77	1/2	533.53	1/2	750.26	1/2	964.44	1/2	1,180.74	1/2	1,397.61	1/2	1,613.98	1/2	1,830.34	1/2	2,043.23
3/4	106.84	3/4	321.29	3/4	538.03	3/4	754.78	3/4	968.93	3/4	1,185.27	3/4	1,402.12	3/4	1,618.49	3/4	1,834.85	3/4	2,046.78
9	111.40	9	325.81	9	542.53	9	759.31	9	973.41	9	1,189.79	9	1,406.63	9	1,622.99	9	1,839.36	9	2,050.34
1/4	115.97	1/4	330.33	1/4	547.04	1/4	763.83	1/4	977.90	1/4	1,194.31	1/4	1,411.14	1/4	1,627.50	1/4	1,843.87	1/4	2,053.14
1/2	120.54	1/2	334.85	1/2	551.54	1/2	768.36	1/2	982.39	1/2	1,198.83	1/2	1,415.64	1/2	1,632.01	1/2	1,848.37	1/2	2,055.93
3/4	125.10	3/4	339.37	3/4	556.05	3/4	772.88	3/4	986.87	3/4	1,203.35	3/4	1,420.15	3/4	1,636.52	3/4	1,852.88	3/4	2,058.72
10	129.67	10	343.89	10	560.55	10	777.41	10	991.36	10	1,207.88	10	1,424.66	10	1,641.02	10	1,857.39	10	2,061.52
1/4	134.20	1/4	348.41	1/4	565.06	1/4	781.93	1/4	995.84	1/4	1,212.40	1/4	1,429.17	1/4	1,645.53	1/4	1,861.90	1/4	2,063.55
1/2	138.73	1/2	352.93	1/2	569.56	1/2	786.46	1/2	1,000.33	1/2	1,216.92	1/2	1,433.67	1/2	1,650.04	1/2	1,866.40	1/2	2,065.59
3/4	143.26	3/4	357.46	3/4	574.06	3/4	790.98	3/4	1,004.82	3/4	1,221.44	3/4	1,438.18	3/4	1,654.55	3/4	1,870.91	3/4	2,067.62
11	147.80	11	361.98	11	578.57	11	795.51	11	1,009.30	11	1,225.96	11	1,442.69	11	1,659.05	11	1,875.42	11	2,069.65
1/4	152.22	1/4	366.50	1/4	583.07	1/4	800.01	1/4	1,013.79	1/4	1,230.49	1/4	1,447.20	1/4	1,663.56	1/4	1,879.93	1/4	2,070.92
1/2	156.65	1/2	371.02	1/2	587.58	1/2	804.51	1/2	1,018.27	1/2	1,235.01	1/2	1,451.71	1/2	1,668.07	1/2	1,884.43	1/2	2,072.19
3/4	161.07	3/4	375.54	3/4	592.08	3/4	809.01	3/4	1,022.76	3/4	1,239.53	3/4	1,456.21	3/4	1,672.58	3/4	1,888.94	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 INNAGE GAUGES  
 GAUGE POINT: (MMC - TOP OF THREADS) LOCATED 05'-00" OFF CENTERLINE AND 47'-09" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 05'-00" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

STRAPPED: 03/26/2020 CL  
 CALCULATED: 03/27/2020 CL  
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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 03/2020

