



# BARGE "HBC 311"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 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
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	00-3/8	- 00-3/8
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 PORT	- 00-5/8	00-5/8	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-7/8	02-7/8	- 03-3/8	03-3/8
3 STBD	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-3/4	01-3/4	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 03-3/8	03-3/8

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

August 17, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 311"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	22.98	0	363.00	0	725.91	0	1,088.59	0	1,451.27	0	1,814.19	0	2,177.11	0	2,540.04	0	2,902.86	0	3,265.66
1/4	27.39	1/4	370.56	1/4	733.47	1/4	1,096.13	1/4	1,458.83	1/4	1,821.75	1/4	2,184.67	1/4	2,547.60	1/4	2,910.42	1/4	3,273.21
1/2	31.80	1/2	378.13	1/2	741.03	1/2	1,103.68	1/2	1,466.39	1/2	1,829.31	1/2	2,192.23	1/2	2,555.16	1/2	2,917.98	1/2	3,280.77
3/4	36.21	3/4	385.69	3/4	748.59	3/4	1,111.23	3/4	1,473.95	3/4	1,836.87	3/4	2,199.80	3/4	2,562.72	3/4	2,925.54	3/4	3,288.33
1	40.62	1	393.25	1	756.16	1	1,118.78	1	1,481.51	1	1,844.43	1	2,207.36	1	2,570.28	1	2,933.09	1	3,295.89
1/4	46.29	1/4	400.81	1/4	763.72	1/4	1,126.33	1/4	1,489.07	1/4	1,851.99	1/4	2,214.92	1/4	2,577.84	1/4	2,940.65	1/4	3,303.45
1/2	51.96	1/2	408.37	1/2	771.28	1/2	1,133.88	1/2	1,496.63	1/2	1,859.56	1/2	2,222.48	1/2	2,585.40	1/2	2,948.21	1/2	3,311.00
3/4	57.63	3/4	415.93	3/4	778.84	3/4	1,141.43	3/4	1,504.19	3/4	1,867.12	3/4	2,230.04	3/4	2,592.96	3/4	2,955.77	3/4	3,318.56
2	63.30	2	423.49	2	786.40	2	1,148.98	2	1,511.75	2	1,874.68	2	2,237.60	2	2,600.52	2	2,963.33	2	3,326.12
1/4	70.23	1/4	431.05	1/4	793.96	1/4	1,156.52	1/4	1,519.31	1/4	1,882.24	1/4	2,245.16	1/4	2,608.08	1/4	2,970.89	1/4	3,333.68
1/2	77.15	1/2	438.61	1/2	801.52	1/2	1,164.07	1/2	1,526.88	1/2	1,889.80	1/2	2,252.72	1/2	2,615.65	1/2	2,978.44	1/2	3,341.24
3/4	84.08	3/4	446.17	3/4	809.08	3/4	1,171.62	3/4	1,534.44	3/4	1,897.36	3/4	2,260.28	3/4	2,623.21	3/4	2,986.00	3/4	3,348.80
3	91.01	3	453.73	3	816.64	3	1,179.17	3	1,542.00	3	1,904.92	3	2,267.84	3	2,630.77	3	2,993.56	3	3,356.35
1/4	98.54	1/4	461.29	1/4	824.20	1/4	1,186.72	1/4	1,549.56	1/4	1,912.48	1/4	2,275.40	1/4	2,638.33	1/4	3,001.12	1/4	3,363.91
1/2	106.06	1/2	468.85	1/2	831.76	1/2	1,194.27	1/2	1,557.12	1/2	1,920.04	1/2	2,282.97	1/2	2,645.88	1/2	3,008.68	1/2	3,371.47
3/4	113.59	3/4	476.41	3/4	839.32	3/4	1,201.82	3/4	1,564.68	3/4	1,927.60	3/4	2,290.53	3/4	2,653.44	3/4	3,016.24	3/4	3,379.03
4	121.11	4	483.97	4	846.88	4	1,209.37	4	1,572.24	4	1,935.16	4	2,298.09	4	2,661.00	4	3,023.79	4	3,386.59
1/4	128.66	1/4	491.53	1/4	854.44	1/4	1,216.92	1/4	1,579.80	1/4	1,942.73	1/4	2,305.65	1/4	2,668.56	1/4	3,031.35	1/4	3,394.15
1/2	136.21	1/2	499.09	1/2	862.00	1/2	1,224.46	1/2	1,587.36	1/2	1,950.29	1/2	2,313.21	1/2	2,676.12	1/2	3,038.91	1/2	3,401.70
3/4	143.76	3/4	506.66	3/4	869.56	3/4	1,232.01	3/4	1,594.92	3/4	1,957.85	3/4	2,320.77	3/4	2,683.67	3/4	3,046.47	3/4	3,409.26
5	151.31	5	514.22	5	877.12	5	1,239.56	5	1,602.48	5	1,965.41	5	2,328.33	5	2,691.23	5	3,054.03	5	3,416.82
1/4	158.87	1/4	521.78	1/4	884.69	1/4	1,247.12	1/4	1,610.05	1/4	1,972.97	1/4	2,335.89	1/4	2,698.79	1/4	3,061.58	1/4	3,424.38
1/2	166.43	1/2	529.34	1/2	892.25	1/2	1,254.68	1/2	1,617.61	1/2	1,980.53	1/2	2,343.45	1/2	2,706.35	1/2	3,069.14	1/2	3,431.94
3/4	173.99	3/4	536.90	3/4	899.81	3/4	1,262.24	3/4	1,625.17	3/4	1,988.09	3/4	2,351.01	3/4	2,713.91	3/4	3,076.70	3/4	3,439.49
6	181.55	6	544.46	6	907.37	6	1,269.81	6	1,632.73	6	1,995.65	6	2,358.57	6	2,721.47	6	3,084.26	6	3,447.05
1/4	189.11	1/4	552.02	1/4	914.93	1/4	1,277.37	1/4	1,640.29	1/4	2,003.21	1/4	2,366.14	1/4	2,729.02	1/4	3,091.82	1/4	3,454.61
1/2	196.67	1/2	559.58	1/2	922.49	1/2	1,284.93	1/2	1,647.85	1/2	2,010.77	1/2	2,373.70	1/2	2,736.58	1/2	3,099.38	1/2	3,462.17
3/4	204.23	3/4	567.14	3/4	930.05	3/4	1,292.49	3/4	1,655.41	3/4	2,018.33	3/4	2,381.26	3/4	2,744.14	3/4	3,106.93	3/4	3,469.73
7	211.79	7	574.70	7	937.61	7	1,300.05	7	1,662.97	7	2,025.90	7	2,388.82	7	2,751.70	7	3,114.49	7	3,477.29
1/4	219.35	1/4	582.26	1/4	945.16	1/4	1,307.61	1/4	1,670.53	1/4	2,033.46	1/4	2,396.38	1/4	2,759.26	1/4	3,122.05	1/4	3,484.84
1/2	226.91	1/2	589.82	1/2	952.71	1/2	1,315.17	1/2	1,678.09	1/2	2,041.02	1/2	2,403.94	1/2	2,766.81	1/2	3,129.61	1/2	3,492.40
3/4	234.47	3/4	597.38	3/4	960.26	3/4	1,322.73	3/4	1,685.65	3/4	2,048.58	3/4	2,411.50	3/4	2,774.37	3/4	3,137.17	3/4	3,499.96
8	242.03	8	604.94	8	967.80	8	1,330.29	8	1,693.22	8	2,056.14	8	2,419.06	8	2,781.93	8	3,144.72	8	3,507.52
1/4	249.59	1/4	612.50	1/4	975.35	1/4	1,337.85	1/4	1,700.78	1/4	2,063.70	1/4	2,426.62	1/4	2,789.49	1/4	3,152.28	1/4	3,515.08
1/2	257.16	1/2	620.06	1/2	982.90	1/2	1,345.41	1/2	1,708.34	1/2	2,071.26	1/2	2,434.18	1/2	2,797.05	1/2	3,159.84	1/2	3,522.63
3/4	264.72	3/4	627.62	3/4	990.45	3/4	1,352.97	3/4	1,715.90	3/4	2,078.82	3/4	2,441.74	3/4	2,804.61	3/4	3,167.40	3/4	3,530.19
9	272.28	9	635.19	9	998.00	9	1,360.54	9	1,723.46	9	2,086.38	9	2,449.31	9	2,812.16	9	3,174.96	9	3,537.75
1/4	279.84	1/4	642.75	1/4	1,005.55	1/4	1,368.10	1/4	1,731.02	1/4	2,093.94	1/4	2,456.87	1/4	2,819.72	1/4	3,182.52	1/4	3,545.31
1/2	287.40	1/2	650.31	1/2	1,013.10	1/2	1,375.66	1/2	1,738.58	1/2	2,101.50	1/2	2,464.43	1/2	2,827.28	1/2	3,190.07	1/2	3,552.87
3/4	294.96	3/4	657.87	3/4	1,020.65	3/4	1,383.22	3/4	1,746.14	3/4	2,109.06	3/4	2,471.99	3/4	2,834.84	3/4	3,197.63	3/4	3,560.43
10	302.52	10	665.43	10	1,028.20	10	1,390.78	10	1,753.70	10	2,116.63	10	2,479.55	10	2,842.40	10	3,205.19	10	3,567.98
1/4	310.08	1/4	672.99	1/4	1,035.74	1/4	1,398.34	1/4	1,761.26	1/4	2,124.19	1/4	2,487.11	1/4	2,849.95	1/4	3,212.75	1/4	3,575.54
1/2	317.64	1/2	680.55	1/2	1,043.29	1/2	1,405.90	1/2	1,768.82	1/2	2,131.75	1/2	2,494.67	1/2	2,857.51	1/2	3,220.31	1/2	3,583.10
3/4	325.20	3/4	688.11	3/4	1,050.84	3/4	1,413.46	3/4	1,776.39	3/4	2,139.31	3/4	2,502.23	3/4	2,865.07	3/4	3,227.86	3/4	3,590.66
11	332.76	11	695.67	11	1,058.39	11	1,421.02	11	1,783.95	11	2,146.87	11	2,509.79	11	2,872.63	11	3,235.42	11	3,598.22
1/4	340.32	1/4	703.23	1/4	1,065.94	1/4	1,428.58	1/4	1,791.51	1/4	2,154.43	1/4	2,517.35	1/4	2,880.19	1/4	3,242.98	1/4	3,605.77
1/2	347.88	1/2	710.79	1/2	1,073.49	1/2	1,436.14	1/2	1,799.07	1/2	2,161.99	1/2	2,524.91	1/2	2,887.75	1/2	3,250.54	1/2	3,613.33
3/4	355.44	3/4	718.35	3/4	1,081.04	3/4	1,443.71	3/4	1,806.63	3/4	2,169.55	3/4	2,532.48	3/4	2,895.30	3/4	3,258.10	3/4	3,620.89

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "HBC 311"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,628.45	0	3,991.24	0	4,354.04	0	4,711.99	0	5,051.71	0		0		0		0		0	
1/4	3,636.01	1/4	3,998.80	1/4	4,361.59	1/4	4,719.26	1/4	5,058.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,643.57	1/2	4,006.36	1/2	4,369.15	1/2	4,726.53	1/2	5,065.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,651.12	3/4	4,013.92	3/4	4,376.71	3/4	4,733.81	3/4	5,072.16	3/4		3/4		3/4		3/4		3/4	
1	3,658.68	1	4,021.48	1	4,384.27	1	4,741.08	1	5,078.98	1		1		1		1		1	
1/4	3,666.24	1/4	4,029.03	1/4	4,391.83	1/4	4,748.30	1/4	5,085.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,673.80	1/2	4,036.59	1/2	4,399.39	1/2	4,755.51	1/2	5,092.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.36	3/4	4,044.15	3/4	4,406.94	3/4	4,762.73	3/4	5,099.34	3/4		3/4		3/4		3/4		3/4	
2	3,688.91	2	4,051.71	2	4,414.50	2	4,769.94	2	5,106.13	2		2		2		2		2	
1/4	3,696.47	1/4	4,059.27	1/4	4,422.06	1/4	4,777.13	1/4	5,112.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,704.03	1/2	4,066.82	1/2	4,429.62	1/2	4,784.31	1/2	5,119.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,711.59	3/4	4,074.38	3/4	4,437.18	3/4	4,791.50	3/4	5,126.40	3/4		3/4		3/4		3/4		3/4	
3	3,719.15	3	4,081.94	3	4,444.74	3	4,798.68	3	5,133.15	3		3		3		3		3	
1/4	3,726.71	1/4	4,089.50	1/4	4,452.28	1/4	4,805.84	1/4	5,139.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,734.26	1/2	4,097.06	1/2	4,459.82	1/2	4,812.99	1/2	5,146.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,741.82	3/4	4,104.62	3/4	4,467.36	3/4	4,820.15	3/4	5,153.30	3/4		3/4		3/4		3/4		3/4	
4	3,749.38	4	4,112.17	4	4,474.91	4	4,827.30	4	5,160.02	4		4		4		4		4	
1/4	3,756.94	1/4	4,119.73	1/4	4,482.42	1/4	4,834.43	1/4	5,166.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,764.50	1/2	4,127.29	1/2	4,489.93	1/2	4,841.56	1/2	5,173.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,772.06	3/4	4,134.85	3/4	4,497.45	3/4	4,848.68	3/4	5,180.01	3/4		3/4		3/4		3/4		3/4	
5	3,779.61	5	4,142.41	5	4,504.96	5	4,855.81	5	5,186.67	5		5		5		5		5	
1/4	3,787.17	1/4	4,149.97	1/4	4,512.44	1/4	4,862.90	1/4	5,192.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,794.73	1/2	4,157.52	1/2	4,519.93	1/2	4,870.00	1/2	5,198.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,802.29	3/4	4,165.08	3/4	4,527.41	3/4	4,877.09	3/4	5,204.77	3/4		3/4		3/4		3/4		3/4	
6	3,809.85	6	4,172.64	6	4,534.89	6	4,884.19	6	5,210.81	6		6		6		6		6	
1/4	3,817.40	1/4	4,180.20	1/4	4,542.35	1/4	4,891.25	1/4	5,216.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,824.96	1/2	4,187.76	1/2	4,549.80	1/2	4,898.32	1/2	5,221.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,832.52	3/4	4,195.31	3/4	4,557.25	3/4	4,905.39	3/4	5,227.51	3/4		3/4		3/4		3/4		3/4	
7	3,840.08	7	4,202.87	7	4,564.71	7	4,912.45	7	5,233.08	7		7		7		7		7	
1/4	3,847.64	1/4	4,210.43	1/4	4,572.13	1/4	4,919.49	1/4	5,237.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,855.20	1/2	4,217.99	1/2	4,579.56	1/2	4,926.52	1/2	5,241.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,862.75	3/4	4,225.55	3/4	4,586.98	3/4	4,933.56	3/4	5,246.10	3/4		3/4		3/4		3/4		3/4	
8	3,870.31	8	4,233.11	8	4,594.40	8	4,940.59	8	5,250.43	8		8		8		8		8	
1/4	3,877.87	1/4	4,240.66	1/4	4,601.80	1/4	4,947.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,885.43	1/2	4,248.22	1/2	4,609.19	1/2	4,954.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,892.99	3/4	4,255.78	3/4	4,616.58	3/4	4,961.61	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,900.54	9	4,263.34	9	4,623.98	9	4,968.62	9		9		9		9		9		9	
1/4	3,908.10	1/4	4,270.90	1/4	4,631.34	1/4	4,975.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,915.66	1/2	4,278.45	1/2	4,638.71	1/2	4,982.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,923.22	3/4	4,286.01	3/4	4,646.07	3/4	4,989.55	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,930.78	10	4,293.57	10	4,653.43	10	4,996.53	10		10		10		10		10		10	
1/4	3,938.34	1/4	4,301.13	1/4	4,660.77	1/4	5,003.48	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,945.89	1/2	4,308.69	1/2	4,668.10	1/2	5,010.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,953.45	3/4	4,316.25	3/4	4,675.44	3/4	5,017.38	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,961.01	11	4,323.80	11	4,682.77	11	5,024.33	11		11		11		11		11		11	
1/4	3,968.57	1/4	4,331.36	1/4	4,690.07	1/4	5,031.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,976.13	1/2	4,338.92	1/2	4,697.38	1/2	5,038.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,983.68	3/4	4,346.48	3/4	4,704.68	3/4	5,044.87	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HBC 311"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	22.98	0	362.92	0	725.74	0	1,087.38	0	1,449.02	0	1,811.86	0	2,174.69	0	2,537.53	0	2,900.27	0	3,262.98
1/4	27.38	1/4	370.48	1/4	733.30	1/4	1,094.89	1/4	1,456.58	1/4	1,819.42	1/4	2,182.25	1/4	2,545.09	1/4	2,907.83	1/4	3,270.53
1/2	31.79	1/2	378.04	1/2	740.86	1/2	1,102.39	1/2	1,464.14	1/2	1,826.98	1/2	2,189.81	1/2	2,552.65	1/2	2,915.38	1/2	3,278.09
3/4	36.20	3/4	385.59	3/4	748.42	3/4	1,109.90	3/4	1,471.70	3/4	1,834.53	3/4	2,197.37	3/4	2,560.21	3/4	2,922.94	3/4	3,285.65
1	40.61	1	393.15	1	755.98	1	1,117.41	1	1,479.26	1	1,842.09	1	2,204.93	1	2,567.77	1	2,930.50	1	3,293.20
1/4	46.28	1/4	400.71	1/4	763.53	1/4	1,124.92	1/4	1,486.82	1/4	1,849.65	1/4	2,212.49	1/4	2,575.33	1/4	2,938.05	1/4	3,300.76
1/2	51.95	1/2	408.27	1/2	771.09	1/2	1,132.42	1/2	1,494.38	1/2	1,857.21	1/2	2,220.05	1/2	2,582.89	1/2	2,945.61	1/2	3,308.32
3/4	57.61	3/4	415.83	3/4	778.65	3/4	1,139.93	3/4	1,501.93	3/4	1,864.77	3/4	2,227.61	3/4	2,590.44	3/4	2,953.17	3/4	3,315.87
2	63.28	2	423.39	2	786.21	2	1,147.44	2	1,509.49	2	1,872.33	2	2,235.17	2	2,598.00	2	2,960.72	2	3,323.43
1/4	70.21	1/4	430.95	1/4	793.77	1/4	1,154.94	1/4	1,517.05	1/4	1,879.89	1/4	2,242.73	1/4	2,605.56	1/4	2,968.28	1/4	3,330.99
1/2	77.14	1/2	438.51	1/2	801.33	1/2	1,162.45	1/2	1,524.61	1/2	1,887.45	1/2	2,250.29	1/2	2,613.12	1/2	2,975.83	1/2	3,338.54
3/4	84.06	3/4	446.06	3/4	808.89	3/4	1,169.96	3/4	1,532.17	3/4	1,895.01	3/4	2,257.84	3/4	2,620.68	3/4	2,983.39	3/4	3,346.10
3	90.99	3	453.62	3	816.45	3	1,177.47	3	1,539.73	3	1,902.57	3	2,265.40	3	2,628.24	3	2,990.95	3	3,353.65
1/4	98.51	1/4	461.18	1/4	824.00	1/4	1,184.97	1/4	1,547.29	1/4	1,910.13	1/4	2,272.96	1/4	2,635.80	1/4	2,998.50	1/4	3,361.21
1/2	106.04	1/2	468.74	1/2	831.56	1/2	1,192.48	1/2	1,554.85	1/2	1,917.68	1/2	2,280.52	1/2	2,643.35	1/2	3,006.06	1/2	3,368.77
3/4	113.56	3/4	476.30	3/4	839.12	3/4	1,199.99	3/4	1,562.41	3/4	1,925.24	3/4	2,288.08	3/4	2,650.91	3/4	3,013.62	3/4	3,376.32
4	121.08	4	483.86	4	846.68	4	1,207.50	4	1,569.97	4	1,932.80	4	2,295.64	4	2,658.47	4	3,021.17	4	3,383.88
1/4	128.63	1/4	491.42	1/4	854.24	1/4	1,215.00	1/4	1,577.53	1/4	1,940.36	1/4	2,303.20	1/4	2,666.02	1/4	3,028.73	1/4	3,391.44
1/2	136.18	1/2	498.98	1/2	861.80	1/2	1,222.51	1/2	1,585.08	1/2	1,947.92	1/2	2,310.76	1/2	2,673.58	1/2	3,036.29	1/2	3,398.99
3/4	143.73	3/4	506.53	3/4	869.36	3/4	1,230.02	3/4	1,592.64	3/4	1,955.48	3/4	2,318.32	3/4	2,681.13	3/4	3,043.84	3/4	3,406.55
5	151.28	5	514.09	5	876.92	5	1,237.52	5	1,600.20	5	1,963.04	5	2,325.88	5	2,688.69	5	3,051.40	5	3,414.11
1/4	158.83	1/4	521.65	1/4	884.47	1/4	1,245.04	1/4	1,607.76	1/4	1,970.60	1/4	2,333.44	1/4	2,696.25	1/4	3,058.95	1/4	3,421.66
1/2	166.39	1/2	529.21	1/2	892.03	1/2	1,252.56	1/2	1,615.32	1/2	1,978.16	1/2	2,340.99	1/2	2,703.80	1/2	3,066.51	1/2	3,429.22
3/4	173.95	3/4	536.77	3/4	899.59	3/4	1,260.08	3/4	1,622.88	3/4	1,985.72	3/4	2,348.55	3/4	2,711.36	3/4	3,074.07	3/4	3,436.77
6	181.51	6	544.33	6	907.15	6	1,267.60	6	1,630.44	6	1,993.28	6	2,356.11	6	2,718.92	6	3,081.62	6	3,444.33
1/4	189.07	1/4	551.89	1/4	914.67	1/4	1,275.16	1/4	1,638.00	1/4	2,000.83	1/4	2,363.67	1/4	2,726.47	1/4	3,089.18	1/4	3,451.89
1/2	196.62	1/2	559.45	1/2	922.19	1/2	1,282.72	1/2	1,645.56	1/2	2,008.39	1/2	2,371.23	1/2	2,734.03	1/2	3,096.74	1/2	3,459.44
3/4	204.18	3/4	567.01	3/4	929.71	3/4	1,290.28	3/4	1,653.12	3/4	2,015.95	3/4	2,378.79	3/4	2,741.59	3/4	3,104.29	3/4	3,467.00
7	211.74	7	574.56	7	937.23	7	1,297.84	7	1,660.68	7	2,023.51	7	2,386.35	7	2,749.14	7	3,111.85	7	3,474.56
1/4	219.30	1/4	582.12	1/4	944.74	1/4	1,305.40	1/4	1,668.23	1/4	2,031.07	1/4	2,393.91	1/4	2,756.70	1/4	3,119.41	1/4	3,482.11
1/2	226.86	1/2	589.68	1/2	952.25	1/2	1,312.96	1/2	1,675.79	1/2	2,038.63	1/2	2,401.47	1/2	2,764.26	1/2	3,126.96	1/2	3,489.67
3/4	234.42	3/4	597.24	3/4	959.75	3/4	1,320.52	3/4	1,683.35	3/4	2,046.19	3/4	2,409.03	3/4	2,771.81	3/4	3,134.52	3/4	3,497.23
8	241.98	8	604.80	8	967.26	8	1,328.07	8	1,690.91	8	2,053.75	8	2,416.59	8	2,779.37	8	3,142.08	8	3,504.78
1/4	249.54	1/4	612.36	1/4	974.77	1/4	1,335.63	1/4	1,698.47	1/4	2,061.31	1/4	2,424.14	1/4	2,786.92	1/4	3,149.63	1/4	3,512.34
1/2	257.09	1/2	619.92	1/2	982.28	1/2	1,343.19	1/2	1,706.03	1/2	2,068.87	1/2	2,431.70	1/2	2,794.48	1/2	3,157.19	1/2	3,519.90
3/4	264.65	3/4	627.48	3/4	989.78	3/4	1,350.75	3/4	1,713.59	3/4	2,076.43	3/4	2,439.26	3/4	2,802.04	3/4	3,164.74	3/4	3,527.45
9	272.21	9	635.03	9	997.29	9	1,358.31	9	1,721.15	9	2,083.98	9	2,446.82	9	2,809.59	9	3,172.30	9	3,535.01
1/4	279.77	1/4	642.59	1/4	1,004.80	1/4	1,365.87	1/4	1,728.71	1/4	2,091.54	1/4	2,454.38	1/4	2,817.15	1/4	3,179.86	1/4	3,542.56
1/2	287.33	1/2	650.15	1/2	1,012.31	1/2	1,373.43	1/2	1,736.27	1/2	2,099.10	1/2	2,461.94	1/2	2,824.71	1/2	3,187.41	1/2	3,550.12
3/4	294.89	3/4	657.71	3/4	1,019.81	3/4	1,380.99	3/4	1,743.83	3/4	2,106.66	3/4	2,469.50	3/4	2,832.26	3/4	3,194.97	3/4	3,557.68
10	302.45	10	665.27	10	1,027.32	10	1,388.55	10	1,751.38	10	2,114.22	10	2,477.06	10	2,839.82	10	3,202.53	10	3,565.23
1/4	310.01	1/4	672.83	1/4	1,034.83	1/4	1,396.11	1/4	1,758.94	1/4	2,121.78	1/4	2,484.62	1/4	2,847.38	1/4	3,210.08	1/4	3,572.79
1/2	317.56	1/2	680.39	1/2	1,042.33	1/2	1,403.67	1/2	1,766.50	1/2	2,129.34	1/2	2,492.18	1/2	2,854.93	1/2	3,217.64	1/2	3,580.35
3/4	325.12	3/4	687.95	3/4	1,049.84	3/4	1,411.23	3/4	1,774.06	3/4	2,136.90	3/4	2,499.74	3/4	2,862.49	3/4	3,225.20	3/4	3,587.90
11	332.68	11	695.50	11	1,057.35	11	1,418.78	11	1,781.62	11	2,144.46	11	2,507.29	11	2,870.04	11	3,232.75	11	3,595.46
1/4	340.24	1/4	703.06	1/4	1,064.86	1/4	1,426.34	1/4	1,789.18	1/4	2,152.02	1/4	2,514.85	1/4	2,877.60	1/4	3,240.31	1/4	3,603.02
1/2	347.80	1/2	710.62	1/2	1,072.36	1/2	1,433.90	1/2	1,796.74	1/2	2,159.58	1/2	2,522.41	1/2	2,885.16	1/2	3,247.86	1/2	3,610.57
3/4	355.36	3/4	718.18	3/4	1,079.87	3/4	1,441.46	3/4	1,804.30	3/4	2,167.13	3/4	2,529.97	3/4	2,892.71	3/4	3,255.42	3/4	3,618.13

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HBC 311"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,625.68	0	3,988.39	0	4,351.10	0	4,708.96	0	5,048.61	0		0		0		0		0	
1/4	3,633.24	1/4	3,995.95	1/4	4,358.66	1/4	4,716.24	1/4	5,055.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.80	1/2	4,003.50	1/2	4,366.21	1/2	4,723.51	1/2	5,062.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.35	3/4	4,011.06	3/4	4,373.77	3/4	4,730.78	3/4	5,069.05	3/4		3/4		3/4		3/4		3/4	
1	3,655.91	1	4,018.62	1	4,381.32	1	4,738.05	1	5,075.87	1		1		1		1		1	
1/4	3,663.47	1/4	4,026.17	1/4	4,388.88	1/4	4,745.27	1/4	5,082.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.02	1/2	4,033.73	1/2	4,396.44	1/2	4,752.48	1/2	5,089.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,678.58	3/4	4,041.29	3/4	4,403.99	3/4	4,759.69	3/4	5,096.23	3/4		3/4		3/4		3/4		3/4	
2	3,686.14	2	4,048.84	2	4,411.55	2	4,766.91	2	5,103.01	2		2		2		2		2	
1/4	3,693.69	1/4	4,056.40	1/4	4,419.11	1/4	4,774.09	1/4	5,109.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,701.25	1/2	4,063.96	1/2	4,426.66	1/2	4,781.27	1/2	5,116.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,708.81	3/4	4,071.51	3/4	4,434.22	3/4	4,788.46	3/4	5,123.27	3/4		3/4		3/4		3/4		3/4	
3	3,716.36	3	4,079.07	3	4,441.78	3	4,795.64	3	5,130.03	3		3		3		3		3	
1/4	3,723.92	1/4	4,086.63	1/4	4,449.32	1/4	4,802.79	1/4	5,136.74	1/4		1/4		1/4		1/4		1/4	
1/2	3,731.47	1/2	4,094.18	1/2	4,456.86	1/2	4,809.95	1/2	5,143.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,739.03	3/4	4,101.74	3/4	4,464.40	3/4	4,817.10	3/4	5,150.17	3/4		3/4		3/4		3/4		3/4	
4	3,746.59	4	4,109.29	4	4,471.94	4	4,824.25	4	5,156.89	4		4		4		4		4	
1/4	3,754.14	1/4	4,116.85	1/4	4,479.45	1/4	4,831.38	1/4	5,163.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,761.70	1/2	4,124.41	1/2	4,486.96	1/2	4,838.50	1/2	5,170.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,769.26	3/4	4,131.96	3/4	4,494.48	3/4	4,845.63	3/4	5,176.87	3/4		3/4		3/4		3/4		3/4	
5	3,776.81	5	4,139.52	5	4,501.99	5	4,852.75	5	5,183.53	5		5		5		5		5	
1/4	3,784.37	1/4	4,147.08	1/4	4,509.47	1/4	4,859.84	1/4	5,189.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,791.93	1/2	4,154.63	1/2	4,516.95	1/2	4,866.94	1/2	5,195.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,799.48	3/4	4,162.19	3/4	4,524.43	3/4	4,874.03	3/4	5,201.63	3/4		3/4		3/4		3/4		3/4	
6	3,807.04	6	4,169.75	6	4,531.91	6	4,881.13	6	5,207.66	6		6		6		6		6	
1/4	3,814.59	1/4	4,177.30	1/4	4,539.37	1/4	4,888.19	1/4	5,213.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,822.15	1/2	4,184.86	1/2	4,546.82	1/2	4,895.25	1/2	5,218.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,829.71	3/4	4,192.41	3/4	4,554.27	3/4	4,902.32	3/4	5,224.37	3/4		3/4		3/4		3/4		3/4	
7	3,837.26	7	4,199.97	7	4,561.72	7	4,909.38	7	5,229.93	7		7		7		7		7	
1/4	3,844.82	1/4	4,207.53	1/4	4,569.14	1/4	4,916.41	1/4	5,234.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,852.38	1/2	4,215.08	1/2	4,576.56	1/2	4,923.45	1/2	5,238.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,859.93	3/4	4,222.64	3/4	4,583.99	3/4	4,930.48	3/4	5,242.94	3/4		3/4		3/4		3/4		3/4	
8	3,867.49	8	4,230.20	8	4,591.41	8	4,937.52	8	5,247.28	8		8		8		8		8	
1/4	3,875.05	1/4	4,237.75	1/4	4,598.80	1/4	4,944.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.60	1/2	4,245.31	1/2	4,606.19	1/2	4,951.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.16	3/4	4,252.87	3/4	4,613.58	3/4	4,958.53	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,897.72	9	4,260.42	9	4,620.98	9	4,965.53	9		9		9		9		9		9	
1/4	3,905.27	1/4	4,267.98	1/4	4,628.34	1/4	4,972.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,912.83	1/2	4,275.54	1/2	4,635.70	1/2	4,979.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,920.38	3/4	4,283.09	3/4	4,643.06	3/4	4,986.46	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,927.94	10	4,290.65	10	4,650.42	10	4,993.44	10		10		10		10		10		10	
1/4	3,935.50	1/4	4,298.20	1/4	4,657.76	1/4	5,000.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,943.05	1/2	4,305.76	1/2	4,665.09	1/2	5,007.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,950.61	3/4	4,313.32	3/4	4,672.42	3/4	5,014.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,958.17	11	4,320.87	11	4,679.75	11	5,021.23	11		11		11		11		11		11	
1/4	3,965.72	1/4	4,328.43	1/4	4,687.06	1/4	5,028.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,973.28	1/2	4,335.99	1/2	4,694.36	1/2	5,034.92	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,980.84	3/4	4,343.54	3/4	4,701.66	3/4	5,041.76	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HBC 311"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.89	0	361.53	0	722.96	0	1,084.16	0	1,445.36	0	1,806.80	0	2,168.25	0	2,529.69	0	2,891.04	0	3,252.35
1/4	27.28	1/4	369.06	1/4	730.49	1/4	1,091.67	1/4	1,452.89	1/4	1,814.33	1/4	2,175.78	1/4	2,537.22	1/4	2,898.57	1/4	3,259.88
1/2	31.67	1/2	376.59	1/2	738.02	1/2	1,099.19	1/2	1,460.42	1/2	1,821.86	1/2	2,183.31	1/2	2,544.75	1/2	2,906.09	1/2	3,267.41
3/4	36.06	3/4	384.12	3/4	745.55	3/4	1,106.71	3/4	1,467.95	3/4	1,829.39	3/4	2,190.84	3/4	2,552.28	3/4	2,913.62	3/4	3,274.94
1	40.45	1	391.65	1	753.08	1	1,114.23	1	1,475.48	1	1,836.92	1	2,198.37	1	2,559.81	1	2,921.15	1	3,282.46
1/4	46.10	1/4	399.18	1/4	760.61	1/4	1,121.75	1/4	1,483.01	1/4	1,844.45	1/4	2,205.90	1/4	2,567.34	1/4	2,928.67	1/4	3,289.99
1/2	51.75	1/2	406.71	1/2	768.14	1/2	1,129.26	1/2	1,490.54	1/2	1,851.98	1/2	2,213.43	1/2	2,574.87	1/2	2,936.20	1/2	3,297.52
3/4	57.39	3/4	414.24	3/4	775.67	3/4	1,136.78	3/4	1,498.07	3/4	1,859.51	3/4	2,220.96	3/4	2,582.40	3/4	2,943.73	3/4	3,305.04
2	63.04	2	421.77	2	783.20	2	1,144.30	2	1,505.60	2	1,867.04	2	2,228.49	2	2,589.93	2	2,951.26	2	3,312.57
1/4	69.94	1/4	429.30	1/4	790.73	1/4	1,151.82	1/4	1,513.13	1/4	1,874.57	1/4	2,236.02	1/4	2,597.46	1/4	2,958.78	1/4	3,320.10
1/2	76.84	1/2	436.83	1/2	798.26	1/2	1,159.33	1/2	1,520.66	1/2	1,882.10	1/2	2,243.55	1/2	2,604.99	1/2	2,966.31	1/2	3,327.63
3/4	83.74	3/4	444.36	3/4	805.79	3/4	1,166.85	3/4	1,528.19	3/4	1,889.63	3/4	2,251.08	3/4	2,612.52	3/4	2,973.84	3/4	3,335.15
3	90.64	3	451.89	3	813.32	3	1,174.37	3	1,535.72	3	1,897.16	3	2,258.61	3	2,620.05	3	2,981.37	3	3,342.68
1/4	98.14	1/4	459.42	1/4	820.85	1/4	1,181.89	1/4	1,543.25	1/4	1,904.69	1/4	2,266.14	1/4	2,627.58	1/4	2,988.89	1/4	3,350.21
1/2	105.63	1/2	466.95	1/2	828.38	1/2	1,189.41	1/2	1,550.78	1/2	1,912.22	1/2	2,273.67	1/2	2,635.11	1/2	2,996.42	1/2	3,357.74
3/4	113.12	3/4	474.48	3/4	835.91	3/4	1,196.92	3/4	1,558.31	3/4	1,919.75	3/4	2,281.20	3/4	2,642.63	3/4	3,003.95	3/4	3,365.26
4	120.62	4	482.01	4	843.44	4	1,204.44	4	1,565.84	4	1,927.28	4	2,288.73	4	2,650.16	4	3,011.48	4	3,372.79
1/4	128.14	1/4	489.54	1/4	850.97	1/4	1,211.96	1/4	1,573.37	1/4	1,934.81	1/4	2,296.26	1/4	2,657.69	1/4	3,019.00	1/4	3,380.32
1/2	135.66	1/2	497.07	1/2	858.50	1/2	1,219.48	1/2	1,580.90	1/2	1,942.34	1/2	2,303.79	1/2	2,665.22	1/2	3,026.53	1/2	3,387.85
3/4	143.18	3/4	504.60	3/4	866.03	3/4	1,227.00	3/4	1,588.43	3/4	1,949.87	3/4	2,311.32	3/4	2,672.74	3/4	3,034.06	3/4	3,395.37
5	150.70	5	512.13	5	873.56	5	1,234.51	5	1,595.96	5	1,957.40	5	2,318.85	5	2,680.27	5	3,041.59	5	3,402.90
1/4	158.23	1/4	519.66	1/4	881.09	1/4	1,242.04	1/4	1,603.49	1/4	1,964.93	1/4	2,326.38	1/4	2,687.80	1/4	3,049.11	1/4	3,410.43
1/2	165.75	1/2	527.19	1/2	888.62	1/2	1,249.57	1/2	1,611.02	1/2	1,972.46	1/2	2,333.91	1/2	2,695.33	1/2	3,056.64	1/2	3,417.96
3/4	173.28	3/4	534.72	3/4	896.15	3/4	1,257.10	3/4	1,618.55	3/4	1,979.99	3/4	2,341.44	3/4	2,702.85	3/4	3,064.17	3/4	3,425.48
6	180.81	6	542.25	6	903.68	6	1,264.63	6	1,626.08	6	1,987.52	6	2,348.97	6	2,710.38	6	3,071.70	6	3,433.01
1/4	188.34	1/4	549.78	1/4	911.21	1/4	1,272.16	1/4	1,633.61	1/4	1,995.05	1/4	2,356.50	1/4	2,717.91	1/4	3,079.22	1/4	3,440.54
1/2	195.87	1/2	557.31	1/2	918.74	1/2	1,279.69	1/2	1,641.14	1/2	2,002.58	1/2	2,364.03	1/2	2,725.43	1/2	3,086.75	1/2	3,448.07
3/4	203.40	3/4	564.84	3/4	926.27	3/4	1,287.22	3/4	1,648.67	3/4	2,010.11	3/4	2,371.56	3/4	2,732.96	3/4	3,094.28	3/4	3,455.59
7	210.93	7	572.37	7	933.80	7	1,294.75	7	1,656.20	7	2,017.64	7	2,379.09	7	2,740.49	7	3,101.80	7	3,463.12
1/4	218.46	1/4	579.90	1/4	941.32	1/4	1,302.28	1/4	1,663.73	1/4	2,025.17	1/4	2,386.62	1/4	2,748.02	1/4	3,109.33	1/4	3,470.65
1/2	225.99	1/2	587.43	1/2	948.84	1/2	1,309.81	1/2	1,671.26	1/2	2,032.70	1/2	2,394.15	1/2	2,755.54	1/2	3,116.86	1/2	3,478.17
3/4	233.52	3/4	594.96	3/4	956.35	3/4	1,317.34	3/4	1,678.79	3/4	2,040.23	3/4	2,401.68	3/4	2,763.07	3/4	3,124.39	3/4	3,485.70
8	241.05	8	602.49	8	963.87	8	1,324.87	8	1,686.32	8	2,047.76	8	2,409.21	8	2,770.60	8	3,131.91	8	3,493.23
1/4	248.58	1/4	610.02	1/4	971.39	1/4	1,332.40	1/4	1,693.85	1/4	2,055.29	1/4	2,416.74	1/4	2,778.13	1/4	3,139.44	1/4	3,500.76
1/2	256.11	1/2	617.55	1/2	978.91	1/2	1,339.93	1/2	1,701.38	1/2	2,062.82	1/2	2,424.27	1/2	2,785.65	1/2	3,146.97	1/2	3,508.28
3/4	263.64	3/4	625.08	3/4	986.43	3/4	1,347.46	3/4	1,708.91	3/4	2,070.35	3/4	2,431.80	3/4	2,793.18	3/4	3,154.50	3/4	3,515.81
9	271.17	9	632.60	9	993.94	9	1,354.99	9	1,716.44	9	2,077.88	9	2,439.33	9	2,800.71	9	3,162.02	9	3,523.34
1/4	278.70	1/4	640.13	1/4	1,001.46	1/4	1,362.52	1/4	1,723.97	1/4	2,085.41	1/4	2,446.86	1/4	2,808.24	1/4	3,169.55	1/4	3,530.87
1/2	286.23	1/2	647.66	1/2	1,008.98	1/2	1,370.05	1/2	1,731.50	1/2	2,092.94	1/2	2,454.39	1/2	2,815.76	1/2	3,177.08	1/2	3,538.39
3/4	293.76	3/4	655.19	3/4	1,016.50	3/4	1,377.58	3/4	1,739.03	3/4	2,100.47	3/4	2,461.92	3/4	2,823.29	3/4	3,184.61	3/4	3,545.92
10	301.29	10	662.72	10	1,024.01	10	1,385.11	10	1,746.56	10	2,108.00	10	2,469.45	10	2,830.82	10	3,192.13	10	3,553.45
1/4	308.82	1/4	670.25	1/4	1,031.53	1/4	1,392.65	1/4	1,754.09	1/4	2,115.53	1/4	2,476.98	1/4	2,838.35	1/4	3,199.66	1/4	3,560.98
1/2	316.35	1/2	677.78	1/2	1,039.05	1/2	1,400.18	1/2	1,761.62	1/2	2,123.06	1/2	2,484.51	1/2	2,845.87	1/2	3,207.19	1/2	3,568.50
3/4	323.88	3/4	685.31	3/4	1,046.57	3/4	1,407.71	3/4	1,769.15	3/4	2,130.59	3/4	2,492.04	3/4	2,853.40	3/4	3,214.72	3/4	3,576.03
11	331.41	11	692.84	11	1,054.09	11	1,415.24	11	1,776.68	11	2,138.12	11	2,499.57	11	2,860.93	11	3,222.24	11	3,583.56
1/4	338.94	1/4	700.37	1/4	1,061.60	1/4	1,422.77	1/4	1,784.21	1/4	2,145.66	1/4	2,507.10	1/4	2,868.46	1/4	3,229.77	1/4	3,591.09
1/2	346.47	1/2	707.90	1/2	1,069.12	1/2	1,430.30	1/2	1,791.74	1/2	2,153.19	1/2	2,514.63	1/2	2,875.98	1/2	3,237.30	1/2	3,598.61
3/4	354.00	3/4	715.43	3/4	1,076.64	3/4	1,437.83	3/4	1,799.27	3/4	2,160.72	3/4	2,522.16	3/4	2,883.51	3/4	3,244.83	3/4	3,606.14

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 311"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	3,613.67	0	3,974.98	0	4,336.30	0	4,692.80	0	5,031.15	0		0		0		0		0	
1/4	3,621.20	1/4	3,982.51	1/4	4,343.83	1/4	4,700.04	1/4	5,037.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.72	1/2	3,990.04	1/2	4,351.35	1/2	4,707.28	1/2	5,044.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.25	3/4	3,997.57	3/4	4,358.88	3/4	4,714.53	3/4	5,051.52	3/4		3/4		3/4		3/4		3/4	
1	3,643.78	1	4,005.09	1	4,366.41	1	4,721.77	1	5,058.31	1		1		1		1		1	
1/4	3,651.31	1/4	4,012.62	1/4	4,373.94	1/4	4,728.96	1/4	5,065.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.83	1/2	4,020.15	1/2	4,381.46	1/2	4,736.15	1/2	5,071.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.36	3/4	4,027.68	3/4	4,388.99	3/4	4,743.33	3/4	5,078.59	3/4		3/4		3/4		3/4		3/4	
2	3,673.89	2	4,035.20	2	4,396.52	2	4,750.52	2	5,085.35	2		2		2		2		2	
1/4	3,681.41	1/4	4,042.73	1/4	4,404.05	1/4	4,757.67	1/4	5,092.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,688.94	1/2	4,050.26	1/2	4,411.57	1/2	4,764.83	1/2	5,098.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,696.47	3/4	4,057.78	3/4	4,419.10	3/4	4,771.99	3/4	5,105.54	3/4		3/4		3/4		3/4		3/4	
3	3,704.00	3	4,065.31	3	4,426.63	3	4,779.14	3	5,112.27	3		3		3		3		3	
1/4	3,711.52	1/4	4,072.84	1/4	4,434.14	1/4	4,786.27	1/4	5,118.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.05	1/2	4,080.37	1/2	4,441.65	1/2	4,793.40	1/2	5,125.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,726.58	3/4	4,087.89	3/4	4,449.17	3/4	4,800.52	3/4	5,132.34	3/4		3/4		3/4		3/4		3/4	
4	3,734.11	4	4,095.42	4	4,456.68	4	4,807.65	4	5,139.03	4		4		4		4		4	
1/4	3,741.63	1/4	4,102.95	1/4	4,464.16	1/4	4,814.75	1/4	5,145.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.16	1/2	4,110.48	1/2	4,471.64	1/2	4,821.84	1/2	5,152.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,756.69	3/4	4,118.00	3/4	4,479.13	3/4	4,828.94	3/4	5,158.93	3/4		3/4		3/4		3/4		3/4	
5	3,764.22	5	4,125.53	5	4,486.61	5	4,836.04	5	5,165.57	5		5		5		5		5	
1/4	3,771.74	1/4	4,133.06	1/4	4,494.06	1/4	4,843.10	1/4	5,171.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,779.27	1/2	4,140.59	1/2	4,501.52	1/2	4,850.17	1/2	5,177.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,786.80	3/4	4,148.11	3/4	4,508.97	3/4	4,857.24	3/4	5,183.60	3/4		3/4		3/4		3/4		3/4	
6	3,794.33	6	4,155.64	6	4,516.42	6	4,864.30	6	5,189.61	6		6		6		6		6	
1/4	3,801.85	1/4	4,163.17	1/4	4,523.84	1/4	4,871.34	1/4	5,195.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,809.38	1/2	4,170.70	1/2	4,531.27	1/2	4,878.38	1/2	5,200.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,816.91	3/4	4,178.22	3/4	4,538.69	3/4	4,885.42	3/4	5,206.25	3/4		3/4		3/4		3/4		3/4	
7	3,824.44	7	4,185.75	7	4,546.11	7	4,892.45	7	5,211.80	7		7		7		7		7	
1/4	3,831.96	1/4	4,193.28	1/4	4,553.51	1/4	4,899.46	1/4	5,216.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,839.49	1/2	4,200.81	1/2	4,560.90	1/2	4,906.47	1/2	5,220.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,847.02	3/4	4,208.33	3/4	4,568.29	3/4	4,913.47	3/4	5,224.75	3/4		3/4		3/4		3/4		3/4	
8	3,854.54	8	4,215.86	8	4,575.69	8	4,920.48	8	5,229.07	8		8		8		8		8	
1/4	3,862.07	1/4	4,223.39	1/4	4,583.05	1/4	4,927.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,869.60	1/2	4,230.91	1/2	4,590.42	1/2	4,934.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,877.13	3/4	4,238.44	3/4	4,597.78	3/4	4,941.42	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,884.65	9	4,245.97	9	4,605.14	9	4,948.39	9		9		9		9		9		9	
1/4	3,892.18	1/4	4,253.50	1/4	4,612.48	1/4	4,955.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,899.71	1/2	4,261.02	1/2	4,619.81	1/2	4,962.29	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,907.24	3/4	4,268.55	3/4	4,627.15	3/4	4,969.24	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,914.76	10	4,276.08	10	4,634.48	10	4,976.20	10		10		10		10		10		10	
1/4	3,922.29	1/4	4,283.61	1/4	4,641.78	1/4	4,983.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,929.82	1/2	4,291.13	1/2	4,649.09	1/2	4,990.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,937.35	3/4	4,298.66	3/4	4,656.39	3/4	4,996.96	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,944.87	11	4,306.19	11	4,663.70	11	5,003.88	11		11		11		11		11		11	
1/4	3,952.40	1/4	4,313.72	1/4	4,670.97	1/4	5,010.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,959.93	1/2	4,321.24	1/2	4,678.25	1/2	5,017.52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,967.46	3/4	4,328.77	3/4	4,685.52	3/4	5,024.34	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HBC 311"

## 2 STBD

### INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.88	0	361.40	0	722.70	0	1,075.82	0	1,428.95	0	1,790.27	0	2,151.59	0	2,512.91	0	2,874.13	0	3,235.31
1/4	27.27	1/4	368.93	1/4	730.23	1/4	1,083.00	1/4	1,436.48	1/4	1,797.80	1/4	2,159.12	1/4	2,520.44	1/4	2,881.65	1/4	3,242.83
1/2	31.66	1/2	376.45	1/2	737.76	1/2	1,090.19	1/2	1,444.01	1/2	1,805.33	1/2	2,166.65	1/2	2,527.97	1/2	2,889.18	1/2	3,250.36
3/4	36.05	3/4	383.98	3/4	745.29	3/4	1,097.37	3/4	1,451.53	3/4	1,812.85	3/4	2,174.17	3/4	2,535.49	3/4	2,896.70	3/4	3,257.88
1	40.44	1	391.51	1	752.81	1	1,104.55	1	1,459.06	1	1,820.38	1	2,181.70	1	2,543.02	1	2,904.23	1	3,265.41
1/4	46.08	1/4	399.03	1/4	760.34	1/4	1,111.74	1/4	1,466.59	1/4	1,827.91	1/4	2,189.23	1/4	2,550.55	1/4	2,911.75	1/4	3,272.93
1/2	51.73	1/2	406.56	1/2	767.87	1/2	1,118.92	1/2	1,474.12	1/2	1,835.44	1/2	2,196.76	1/2	2,558.08	1/2	2,919.27	1/2	3,280.46
3/4	57.37	3/4	414.09	3/4	775.39	3/4	1,126.11	3/4	1,481.64	3/4	1,842.96	3/4	2,204.28	3/4	2,565.60	3/4	2,926.80	3/4	3,287.98
2	63.02	2	421.62	2	782.92	2	1,133.29	2	1,489.17	2	1,850.49	2	2,211.81	2	2,573.13	2	2,934.32	2	3,295.50
1/4	69.92	1/4	429.14	1/4	790.45	1/4	1,140.48	1/4	1,496.70	1/4	1,858.02	1/4	2,219.34	1/4	2,580.66	1/4	2,941.85	1/4	3,303.03
1/2	76.81	1/2	436.67	1/2	797.98	1/2	1,147.66	1/2	1,504.23	1/2	1,865.55	1/2	2,226.87	1/2	2,588.19	1/2	2,949.37	1/2	3,310.55
3/4	83.71	3/4	444.20	3/4	805.50	3/4	1,154.84	3/4	1,511.75	3/4	1,873.07	3/4	2,234.39	3/4	2,595.71	3/4	2,956.90	3/4	3,318.08
3	90.61	3	451.72	3	813.03	3	1,162.03	3	1,519.28	3	1,880.60	3	2,241.92	3	2,603.24	3	2,964.42	3	3,325.60
1/4	98.10	1/4	459.25	1/4	820.56	1/4	1,169.21	1/4	1,526.81	1/4	1,888.13	1/4	2,249.45	1/4	2,610.77	1/4	2,971.95	1/4	3,333.13
1/2	105.59	1/2	466.78	1/2	828.08	1/2	1,176.40	1/2	1,534.34	1/2	1,895.66	1/2	2,256.98	1/2	2,618.29	1/2	2,979.47	1/2	3,340.65
3/4	113.08	3/4	474.31	3/4	835.61	3/4	1,183.58	3/4	1,541.86	3/4	1,903.18	3/4	2,264.50	3/4	2,625.82	3/4	2,987.00	3/4	3,348.18
4	120.57	4	481.83	4	843.14	4	1,190.77	4	1,549.39	4	1,910.71	4	2,272.03	4	2,633.34	4	2,994.52	4	3,355.70
1/4	128.09	1/4	489.36	1/4	850.67	1/4	1,197.95	1/4	1,556.92	1/4	1,918.24	1/4	2,279.56	1/4	2,640.86	1/4	3,002.05	1/4	3,363.23
1/2	135.61	1/2	496.89	1/2	858.19	1/2	1,205.13	1/2	1,564.45	1/2	1,925.77	1/2	2,287.09	1/2	2,648.39	1/2	3,009.57	1/2	3,370.75
3/4	143.12	3/4	504.41	3/4	865.72	3/4	1,212.32	3/4	1,571.97	3/4	1,933.29	3/4	2,294.61	3/4	2,655.91	3/4	3,017.09	3/4	3,378.28
5	150.64	5	511.94	5	873.25	5	1,219.50	5	1,579.50	5	1,940.82	5	2,302.14	5	2,663.44	5	3,024.62	5	3,385.80
1/4	158.17	1/4	519.47	1/4	880.77	1/4	1,226.70	1/4	1,587.03	1/4	1,948.35	1/4	2,309.67	1/4	2,670.96	1/4	3,032.14	1/4	3,393.32
1/2	165.69	1/2	527.00	1/2	888.30	1/2	1,233.90	1/2	1,594.56	1/2	1,955.88	1/2	2,317.20	1/2	2,678.49	1/2	3,039.67	1/2	3,400.85
3/4	173.22	3/4	534.52	3/4	895.83	3/4	1,241.09	3/4	1,602.08	3/4	1,963.40	3/4	2,324.72	3/4	2,686.01	3/4	3,047.19	3/4	3,408.37
6	180.75	6	542.05	6	903.36	6	1,248.29	6	1,609.61	6	1,970.93	6	2,332.25	6	2,693.54	6	3,054.72	6	3,415.90
1/4	188.27	1/4	549.58	1/4	910.55	1/4	1,255.82	1/4	1,617.14	1/4	1,978.46	1/4	2,339.78	1/4	2,701.06	1/4	3,062.24	1/4	3,423.42
1/2	195.80	1/2	557.11	1/2	917.75	1/2	1,263.35	1/2	1,624.67	1/2	1,985.99	1/2	2,347.31	1/2	2,708.59	1/2	3,069.77	1/2	3,430.95
3/4	203.33	3/4	564.63	3/4	924.94	3/4	1,270.87	3/4	1,632.19	3/4	1,993.51	3/4	2,354.83	3/4	2,716.11	3/4	3,077.29	3/4	3,438.47
7	210.85	7	572.16	7	932.13	7	1,278.40	7	1,639.72	7	2,001.04	7	2,362.36	7	2,723.64	7	3,084.82	7	3,446.00
1/4	218.38	1/4	579.69	1/4	939.32	1/4	1,285.93	1/4	1,647.25	1/4	2,008.57	1/4	2,369.89	1/4	2,731.16	1/4	3,092.34	1/4	3,453.52
1/2	225.91	1/2	587.21	1/2	946.50	1/2	1,293.46	1/2	1,654.78	1/2	2,016.10	1/2	2,377.42	1/2	2,738.68	1/2	3,099.87	1/2	3,461.05
3/4	233.44	3/4	594.74	3/4	953.69	3/4	1,300.98	3/4	1,662.30	3/4	2,023.62	3/4	2,384.94	3/4	2,746.21	3/4	3,107.39	3/4	3,468.57
8	240.96	8	602.27	8	960.87	8	1,308.51	8	1,669.83	8	2,031.15	8	2,392.47	8	2,753.73	8	3,114.91	8	3,476.10
1/4	248.49	1/4	609.80	1/4	968.06	1/4	1,316.04	1/4	1,677.36	1/4	2,038.68	1/4	2,400.00	1/4	2,761.26	1/4	3,122.44	1/4	3,483.62
1/2	256.02	1/2	617.32	1/2	975.24	1/2	1,323.57	1/2	1,684.89	1/2	2,046.21	1/2	2,407.53	1/2	2,768.78	1/2	3,129.96	1/2	3,491.14
3/4	263.54	3/4	624.85	3/4	982.42	3/4	1,331.09	3/4	1,692.41	3/4	2,053.73	3/4	2,415.05	3/4	2,776.31	3/4	3,137.49	3/4	3,498.67
9	271.07	9	632.38	9	989.61	9	1,338.62	9	1,699.94	9	2,061.26	9	2,422.58	9	2,783.83	9	3,145.01	9	3,506.19
1/4	278.60	1/4	639.90	1/4	996.79	1/4	1,346.15	1/4	1,707.47	1/4	2,068.79	1/4	2,430.11	1/4	2,791.36	1/4	3,152.54	1/4	3,513.72
1/2	286.13	1/2	647.43	1/2	1,003.98	1/2	1,353.68	1/2	1,715.00	1/2	2,076.32	1/2	2,437.64	1/2	2,798.88	1/2	3,160.06	1/2	3,521.24
3/4	293.65	3/4	654.96	3/4	1,011.16	3/4	1,361.20	3/4	1,722.52	3/4	2,083.84	3/4	2,445.16	3/4	2,806.41	3/4	3,167.59	3/4	3,528.77
10	301.18	10	662.49	10	1,018.34	10	1,368.73	10	1,730.05	10	2,091.37	10	2,452.69	10	2,813.93	10	3,175.11	10	3,536.29
1/4	308.71	1/4	670.01	1/4	1,025.53	1/4	1,376.26	1/4	1,737.58	1/4	2,098.90	1/4	2,460.22	1/4	2,821.46	1/4	3,182.64	1/4	3,543.82
1/2	316.23	1/2	677.54	1/2	1,032.71	1/2	1,383.79	1/2	1,745.11	1/2	2,106.43	1/2	2,467.75	1/2	2,828.98	1/2	3,190.16	1/2	3,551.34
3/4	323.76	3/4	685.07	3/4	1,039.90	3/4	1,391.31	3/4	1,752.63	3/4	2,113.95	3/4	2,475.27	3/4	2,836.50	3/4	3,197.69	3/4	3,558.87
11	331.29	11	692.59	11	1,047.08	11	1,398.84	11	1,760.16	11	2,121.48	11	2,482.80	11	2,844.03	11	3,205.21	11	3,566.39
1/4	338.82	1/4	700.12	1/4	1,054.27	1/4	1,406.37	1/4	1,767.69	1/4	2,129.01	1/4	2,490.33	1/4	2,851.55	1/4	3,212.73	1/4	3,573.92
1/2	346.34	1/2	707.65	1/2	1,061.45	1/2	1,413.90	1/2	1,775.22	1/2	2,136.54	1/2	2,497.86	1/2	2,859.08	1/2	3,220.26	1/2	3,581.44
3/4	353.87	3/4	715.18	3/4	1,068.63	3/4	1,421.42	3/4	1,782.74	3/4	2,144.06	3/4	2,505.38	3/4	2,866.60	3/4	3,227.78	3/4	3,588.96

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "HBC 311"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	3,596.49	0	3,957.67	0	4,318.85	0	4,675.22	0	5,013.46	0		0		0		0		0	
1/4	3,604.01	1/4	3,965.19	1/4	4,326.38	1/4	4,682.46	1/4	5,020.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,611.54	1/2	3,972.72	1/2	4,333.90	1/2	4,689.70	1/2	5,027.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.06	3/4	3,980.24	3/4	4,341.42	3/4	4,696.94	3/4	5,033.82	3/4		3/4		3/4		3/4		3/4	
1	3,626.59	1	3,987.77	1	4,348.95	1	4,704.19	1	5,040.60	1		1		1		1		1	
1/4	3,634.11	1/4	3,995.29	1/4	4,356.47	1/4	4,711.37	1/4	5,047.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.64	1/2	4,002.82	1/2	4,364.00	1/2	4,718.55	1/2	5,054.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.16	3/4	4,010.34	3/4	4,371.52	3/4	4,725.74	3/4	5,060.88	3/4		3/4		3/4		3/4		3/4	
2	3,656.69	2	4,017.87	2	4,379.05	2	4,732.92	2	5,067.63	2		2		2		2		2	
1/4	3,664.21	1/4	4,025.39	1/4	4,386.57	1/4	4,740.07	1/4	5,074.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.73	1/2	4,032.92	1/2	4,394.10	1/2	4,747.23	1/2	5,081.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,679.26	3/4	4,040.44	3/4	4,401.62	3/4	4,754.38	3/4	5,087.81	3/4		3/4		3/4		3/4		3/4	
3	3,686.78	3	4,047.96	3	4,409.15	3	4,761.53	3	5,094.54	3		3		3		3		3	
1/4	3,694.31	1/4	4,055.49	1/4	4,416.66	1/4	4,768.66	1/4	5,101.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,701.83	1/2	4,063.01	1/2	4,424.17	1/2	4,775.78	1/2	5,107.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,709.36	3/4	4,070.54	3/4	4,431.68	3/4	4,782.91	3/4	5,114.60	3/4		3/4		3/4		3/4		3/4	
4	3,716.88	4	4,078.06	4	4,439.18	4	4,790.03	4	5,121.29	4		4		4		4		4	
1/4	3,724.41	1/4	4,085.59	1/4	4,446.66	1/4	4,797.12	1/4	5,127.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,731.93	1/2	4,093.11	1/2	4,454.14	1/2	4,804.22	1/2	5,134.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,739.46	3/4	4,100.64	3/4	4,461.62	3/4	4,811.31	3/4	5,141.19	3/4		3/4		3/4		3/4		3/4	
5	3,746.98	5	4,108.16	5	4,469.10	5	4,818.41	5	5,147.82	5		5		5		5		5	
1/4	3,754.51	1/4	4,115.69	1/4	4,476.56	1/4	4,825.47	1/4	5,153.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,762.03	1/2	4,123.21	1/2	4,484.01	1/2	4,832.53	1/2	5,159.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,769.55	3/4	4,130.74	3/4	4,491.46	3/4	4,839.60	3/4	5,165.85	3/4		3/4		3/4		3/4		3/4	
6	3,777.08	6	4,138.26	6	4,498.91	6	4,846.66	6	5,171.86	6		6		6		6		6	
1/4	3,784.60	1/4	4,145.78	1/4	4,506.33	1/4	4,853.70	1/4	5,177.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,792.13	1/2	4,153.31	1/2	4,513.75	1/2	4,860.73	1/2	5,182.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,799.65	3/4	4,160.83	3/4	4,521.17	3/4	4,867.77	3/4	5,188.49	3/4		3/4		3/4		3/4		3/4	
7	3,807.18	7	4,168.36	7	4,528.59	7	4,874.80	7	5,194.03	7		7		7		7		7	
1/4	3,814.70	1/4	4,175.88	1/4	4,535.98	1/4	4,881.81	1/4	5,198.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,822.23	1/2	4,183.41	1/2	4,543.37	1/2	4,888.81	1/2	5,202.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,829.75	3/4	4,190.93	3/4	4,550.76	3/4	4,895.82	3/4	5,206.99	3/4		3/4		3/4		3/4		3/4	
8	3,837.28	8	4,198.46	8	4,558.15	8	4,902.82	8	5,211.31	8		8		8		8		8	
1/4	3,844.80	1/4	4,205.98	1/4	4,565.51	1/4	4,909.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,852.33	1/2	4,213.51	1/2	4,572.87	1/2	4,916.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,859.85	3/4	4,221.03	3/4	4,580.24	3/4	4,923.75	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,867.37	9	4,228.56	9	4,587.60	9	4,930.72	9		9		9		9		9		9	
1/4	3,874.90	1/4	4,236.08	1/4	4,594.93	1/4	4,937.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.42	1/2	4,243.60	1/2	4,602.26	1/2	4,944.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,889.95	3/4	4,251.13	3/4	4,609.59	3/4	4,951.57	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,897.47	10	4,258.65	10	4,616.92	10	4,958.52	10		10		10		10		10		10	
1/4	3,905.00	1/4	4,266.18	1/4	4,624.22	1/4	4,965.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,912.52	1/2	4,273.70	1/2	4,631.53	1/2	4,972.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,920.05	3/4	4,281.23	3/4	4,638.83	3/4	4,979.27	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,927.57	11	4,288.75	11	4,646.13	11	4,986.19	11		11		11		11		11		11	
1/4	3,935.10	1/4	4,296.28	1/4	4,653.40	1/4	4,993.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,942.62	1/2	4,303.80	1/2	4,660.67	1/2	4,999.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,950.15	3/4	4,311.33	3/4	4,667.94	3/4	5,006.64	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HBC 311"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	22.77	0	359.67	0	719.24	0	1,078.61	0	1,438.03	0	1,797.62	0	2,157.18	0	2,516.68	0	2,875.98	0	3,234.39
1/4	27.14	1/4	367.16	1/4	726.73	1/4	1,086.09	1/4	1,445.52	1/4	1,805.11	1/4	2,164.67	1/4	2,524.17	1/4	2,883.46	1/4	3,241.84
1/2	31.51	1/2	374.65	1/2	734.22	1/2	1,093.57	1/2	1,453.01	1/2	1,812.60	1/2	2,172.16	1/2	2,531.66	1/2	2,890.93	1/2	3,249.28
3/4	35.88	3/4	382.14	3/4	741.72	3/4	1,101.05	3/4	1,460.51	3/4	1,820.09	3/4	2,179.65	3/4	2,539.15	3/4	2,898.41	3/4	3,256.72
1	40.25	1	389.63	1	749.21	1	1,108.54	1	1,468.00	1	1,827.58	1	2,187.14	1	2,546.64	1	2,905.89	1	3,264.16
1/4	45.87	1/4	397.13	1/4	756.70	1/4	1,116.02	1/4	1,475.49	1/4	1,835.08	1/4	2,194.63	1/4	2,554.13	1/4	2,913.36	1/4	3,271.60
1/2	51.48	1/2	404.62	1/2	764.19	1/2	1,123.50	1/2	1,482.98	1/2	1,842.57	1/2	2,202.11	1/2	2,561.62	1/2	2,920.84	1/2	3,279.04
3/4	57.10	3/4	412.11	3/4	771.68	3/4	1,130.98	3/4	1,490.47	3/4	1,850.06	3/4	2,209.60	3/4	2,569.11	3/4	2,928.31	3/4	3,286.48
2	62.72	2	419.60	2	779.17	2	1,138.46	2	1,497.96	2	1,857.55	2	2,217.09	2	2,576.59	2	2,935.79	2	3,293.92
1/4	69.58	1/4	427.09	1/4	786.66	1/4	1,145.95	1/4	1,505.45	1/4	1,865.04	1/4	2,224.58	1/4	2,584.08	1/4	2,943.26	1/4	3,301.36
1/2	76.45	1/2	434.58	1/2	794.15	1/2	1,153.43	1/2	1,512.95	1/2	1,872.53	1/2	2,232.07	1/2	2,591.57	1/2	2,950.74	1/2	3,308.81
3/4	83.31	3/4	442.07	3/4	801.64	3/4	1,160.91	3/4	1,520.44	3/4	1,880.02	3/4	2,239.56	3/4	2,599.06	3/4	2,958.21	3/4	3,316.25
3	90.18	3	449.56	3	809.14	3	1,168.39	3	1,527.93	3	1,887.52	3	2,247.05	3	2,606.55	3	2,965.69	3	3,323.69
1/4	97.63	1/4	457.05	1/4	816.63	1/4	1,175.87	1/4	1,535.42	1/4	1,895.01	1/4	2,254.54	1/4	2,614.04	1/4	2,973.17	1/4	3,331.14
1/2	105.09	1/2	464.55	1/2	824.12	1/2	1,183.36	1/2	1,542.91	1/2	1,902.50	1/2	2,262.03	1/2	2,621.53	1/2	2,980.64	1/2	3,338.60
3/4	112.55	3/4	472.04	3/4	831.61	3/4	1,190.84	3/4	1,550.40	3/4	1,909.99	3/4	2,269.52	3/4	2,629.02	3/4	2,988.12	3/4	3,346.06
4	120.00	4	479.53	4	839.10	4	1,198.32	4	1,557.89	4	1,917.48	4	2,277.01	4	2,636.51	4	2,995.59	4	3,353.52
1/4	127.48	1/4	487.02	1/4	846.59	1/4	1,205.81	1/4	1,565.39	1/4	1,924.97	1/4	2,284.50	1/4	2,643.99	1/4	3,003.07	1/4	3,360.97
1/2	134.96	1/2	494.51	1/2	854.08	1/2	1,213.30	1/2	1,572.88	1/2	1,932.46	1/2	2,291.99	1/2	2,651.48	1/2	3,010.54	1/2	3,368.43
3/4	142.44	3/4	502.00	3/4	861.57	3/4	1,220.78	3/4	1,580.37	3/4	1,939.96	3/4	2,299.48	3/4	2,658.97	3/4	3,018.02	3/4	3,375.89
5	149.92	5	509.49	5	869.06	5	1,228.27	5	1,587.86	5	1,947.45	5	2,306.97	5	2,666.46	5	3,025.49	5	3,383.34
1/4	157.41	1/4	516.98	1/4	876.56	1/4	1,235.76	1/4	1,595.35	1/4	1,954.94	1/4	2,314.46	1/4	2,673.95	1/4	3,032.97	1/4	3,390.80
1/2	164.90	1/2	524.47	1/2	884.05	1/2	1,243.26	1/2	1,602.84	1/2	1,962.43	1/2	2,321.95	1/2	2,681.44	1/2	3,040.44	1/2	3,398.26
3/4	172.39	3/4	531.97	3/4	891.54	3/4	1,250.75	3/4	1,610.33	3/4	1,969.92	3/4	2,329.44	3/4	2,688.92	3/4	3,047.92	3/4	3,405.71
6	179.88	6	539.46	6	899.03	6	1,258.24	6	1,617.83	6	1,977.41	6	2,336.93	6	2,696.41	6	3,055.40	6	3,413.17
1/4	187.37	1/4	546.95	1/4	906.51	1/4	1,265.73	1/4	1,625.32	1/4	1,984.90	1/4	2,344.42	1/4	2,703.90	1/4	3,062.87	1/4	3,420.63
1/2	194.87	1/2	554.44	1/2	914.00	1/2	1,273.22	1/2	1,632.81	1/2	1,992.40	1/2	2,351.91	1/2	2,711.39	1/2	3,070.35	1/2	3,428.08
3/4	202.36	3/4	561.93	3/4	921.48	3/4	1,280.71	3/4	1,640.30	3/4	1,999.89	3/4	2,359.40	3/4	2,718.88	3/4	3,077.82	3/4	3,435.54
7	209.85	7	569.42	7	928.97	7	1,288.20	7	1,647.79	7	2,007.38	7	2,366.89	7	2,726.37	7	3,085.30	7	3,443.00
1/4	217.34	1/4	576.91	1/4	936.45	1/4	1,295.70	1/4	1,655.28	1/4	2,014.87	1/4	2,374.38	1/4	2,733.85	1/4	3,092.77	1/4	3,450.46
1/2	224.83	1/2	584.40	1/2	943.93	1/2	1,303.19	1/2	1,662.77	1/2	2,022.36	1/2	2,381.87	1/2	2,741.34	1/2	3,100.25	1/2	3,457.91
3/4	232.32	3/4	591.89	3/4	951.41	3/4	1,310.68	3/4	1,670.27	3/4	2,029.85	3/4	2,389.35	3/4	2,748.83	3/4	3,107.72	3/4	3,465.37
8	239.81	8	599.39	8	958.90	8	1,318.17	8	1,677.76	8	2,037.34	8	2,396.84	8	2,756.32	8	3,115.20	8	3,472.83
1/4	247.30	1/4	606.88	1/4	966.38	1/4	1,325.66	1/4	1,685.25	1/4	2,044.83	1/4	2,404.33	1/4	2,763.81	1/4	3,122.68	1/4	3,480.28
1/2	254.79	1/2	614.37	1/2	973.86	1/2	1,333.15	1/2	1,692.74	1/2	2,052.32	1/2	2,411.82	1/2	2,771.30	1/2	3,130.15	1/2	3,487.74
3/4	262.29	3/4	621.86	3/4	981.34	3/4	1,340.64	3/4	1,700.23	3/4	2,059.81	3/4	2,419.31	3/4	2,778.79	3/4	3,137.63	3/4	3,495.20
9	269.78	9	629.35	9	988.82	9	1,348.13	9	1,707.72	9	2,067.30	9	2,426.80	9	2,786.28	9	3,145.10	9	3,502.65
1/4	277.27	1/4	636.84	1/4	996.31	1/4	1,355.63	1/4	1,715.21	1/4	2,074.79	1/4	2,434.29	1/4	2,793.75	1/4	3,152.54	1/4	3,509.68
1/2	284.76	1/2	644.33	1/2	1,003.79	1/2	1,363.12	1/2	1,722.70	1/2	2,082.28	1/2	2,441.78	1/2	2,801.23	1/2	3,159.98	1/2	3,510.71
3/4	292.25	3/4	651.82	3/4	1,011.27	3/4	1,370.61	3/4	1,730.20	3/4	2,089.77	3/4	2,449.27	3/4	2,808.70	3/4	3,167.42	3/4	3,514.74
10	299.74	10	659.31	10	1,018.75	10	1,378.10	10	1,737.69	10	2,097.26	10	2,456.76	10	2,816.18	10	3,174.87	10	3,518.77
1/4	307.23	1/4	666.81	1/4	1,026.23	1/4	1,385.59	1/4	1,745.18	1/4	2,104.75	1/4	2,464.25	1/4	2,823.66	1/4	3,182.31	1/4	3,522.80
1/2	314.72	1/2	674.30	1/2	1,033.72	1/2	1,393.08	1/2	1,752.67	1/2	2,112.24	1/2	2,471.74	1/2	2,831.13	1/2	3,189.75	1/2	3,526.82
3/4	322.21	3/4	681.79	3/4	1,041.20	3/4	1,400.57	3/4	1,760.16	3/4	2,119.73	3/4	2,479.23	3/4	2,838.61	3/4	3,197.19	3/4	3,530.85
11	329.71	11	689.28	11	1,048.68	11	1,408.07	11	1,767.65	11	2,127.22	11	2,486.72	11	2,846.08	11	3,204.63	11	3,534.88
1/4	337.20	1/4	696.77	1/4	1,056.16	1/4	1,415.56	1/4	1,775.14	1/4	2,134.71	1/4	2,494.21	1/4	2,853.56	1/4	3,212.07	1/4	3,538.91
1/2	344.69	1/2	704.26	1/2	1,063.64	1/2	1,423.05	1/2	1,782.64	1/2	2,142.20	1/2	2,501.70	1/2	2,861.03	1/2	3,219.51	1/2	3,542.94
3/4	352.18	3/4	711.75	3/4	1,071.13	3/4	1,430.54	3/4	1,790.13	3/4	2,149.69	3/4	2,509.19	3/4	2,868.51	3/4	3,226.95	3/4	3,546.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 311"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,551.00	0	3,744.36	0	3,937.73	0	4,128.53	0	4,309.67	0		0		0		0		0	
1/4	3,555.02	1/4	3,748.39	1/4	3,941.76	1/4	4,132.41	1/4	4,313.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,559.05	1/2	3,752.42	1/2	3,945.79	1/2	4,136.28	1/2	4,316.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.08	3/4	3,756.45	3/4	3,949.82	3/4	4,140.16	3/4	4,320.57	3/4		3/4		3/4		3/4		3/4	
1	3,567.11	1	3,760.48	1	3,953.85	1	4,144.04	1	4,324.21	1		1		1		1		1	
1/4	3,571.14	1/4	3,764.51	1/4	3,957.87	1/4	4,147.89	1/4	4,327.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,575.17	1/2	3,768.53	1/2	3,961.90	1/2	4,151.73	1/2	4,331.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.20	3/4	3,772.56	3/4	3,965.93	3/4	4,155.58	3/4	4,335.06	3/4		3/4		3/4		3/4		3/4	
2	3,583.22	2	3,776.59	2	3,969.96	2	4,159.43	2	4,338.68	2		2		2		2		2	
1/4	3,587.25	1/4	3,780.62	1/4	3,973.99	1/4	4,163.26	1/4	4,342.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,591.28	1/2	3,784.65	1/2	3,978.02	1/2	4,167.09	1/2	4,345.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,595.31	3/4	3,788.68	3/4	3,982.05	3/4	4,170.92	3/4	4,349.49	3/4		3/4		3/4		3/4		3/4	
3	3,599.34	3	3,792.71	3	3,986.07	3	4,174.75	3	4,353.09	3		3		3		3		3	
1/4	3,603.37	1/4	3,796.73	1/4	3,990.09	1/4	4,178.57	1/4	4,356.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,607.39	1/2	3,800.76	1/2	3,994.11	1/2	4,182.38	1/2	4,360.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.42	3/4	3,804.79	3/4	3,998.14	3/4	4,186.20	3/4	4,363.82	3/4		3/4		3/4		3/4		3/4	
4	3,615.45	4	3,808.82	4	4,002.16	4	4,190.02	4	4,367.39	4		4		4		4		4	
1/4	3,619.48	1/4	3,812.85	1/4	4,006.16	1/4	4,193.82	1/4	4,370.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,623.51	1/2	3,816.88	1/2	4,010.17	1/2	4,197.61	1/2	4,374.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,627.54	3/4	3,820.91	3/4	4,014.17	3/4	4,201.41	3/4	4,378.00	3/4		3/4		3/4		3/4		3/4	
5	3,631.57	5	3,824.93	5	4,018.17	5	4,205.21	5	4,381.53	5		5		5		5		5	
1/4	3,635.59	1/4	3,828.96	1/4	4,022.16	1/4	4,209.00	1/4	4,384.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,639.62	1/2	3,832.99	1/2	4,026.15	1/2	4,212.78	1/2	4,387.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,643.65	3/4	3,837.02	3/4	4,030.14	3/4	4,216.57	3/4	4,390.32	3/4		3/4		3/4		3/4		3/4	
6	3,647.68	6	3,841.05	6	4,034.13	6	4,220.35	6	4,393.25	6		6		6		6		6	
1/4	3,651.71	1/4	3,845.08	1/4	4,038.10	1/4	4,224.12	1/4	4,395.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.74	1/2	3,849.10	1/2	4,042.08	1/2	4,227.88	1/2	4,397.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.77	3/4	3,853.13	3/4	4,046.05	3/4	4,231.65	3/4	4,399.56	3/4		3/4		3/4		3/4		3/4	
7	3,663.79	7	3,857.16	7	4,050.02	7	4,235.42	7	4,401.66	7		7		7		7		7	
1/4	3,667.82	1/4	3,861.19	1/4	4,053.98	1/4	4,239.17	1/4	4,402.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.85	1/2	3,865.22	1/2	4,057.94	1/2	4,242.92	1/2	4,403.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,675.88	3/4	3,869.25	3/4	4,061.89	3/4	4,246.68	3/4	4,404.27	3/4		3/4		3/4		3/4		3/4	
8	3,679.91	8	3,873.28	8	4,065.85	8	4,250.43	8	4,405.14	8		8		8		8		8	
1/4	3,683.94	1/4	3,877.30	1/4	4,069.79	1/4	4,254.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,687.96	1/2	3,881.33	1/2	4,073.73	1/2	4,257.90	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,691.99	3/4	3,885.36	3/4	4,077.67	3/4	4,261.64	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,696.02	9	3,889.39	9	4,081.61	9	4,265.37	9		9		9		9		9		9	
1/4	3,700.05	1/4	3,893.42	1/4	4,085.54	1/4	4,269.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,704.08	1/2	3,897.45	1/2	4,089.47	1/2	4,272.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,708.11	3/4	3,901.48	3/4	4,093.39	3/4	4,276.53	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,712.14	10	3,905.50	10	4,097.32	10	4,280.25	10		10		10		10		10		10	
1/4	3,716.16	1/4	3,909.53	1/4	4,101.23	1/4	4,283.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,720.19	1/2	3,913.56	1/2	4,105.13	1/2	4,287.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.22	3/4	3,917.59	3/4	4,109.04	3/4	4,291.37	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,728.25	11	3,921.62	11	4,112.95	11	4,295.07	11		11		11		11		11		11	
1/4	3,732.28	1/4	3,925.65	1/4	4,116.85	1/4	4,298.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.31	1/2	3,929.67	1/2	4,120.74	1/2	4,302.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.34	3/4	3,933.70	3/4	4,124.63	3/4	4,306.02	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HBC 311"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	22.79	0	359.36	0	718.60	0	1,066.11	0	1,418.89	0	1,777.53	0	2,136.63	0	2,495.68	0	2,854.52	0	3,212.30
1/4	27.16	1/4	366.85	1/4	726.08	1/4	1,073.25	1/4	1,426.31	1/4	1,785.01	1/4	2,144.11	1/4	2,503.16	1/4	2,861.99	1/4	3,219.73
1/2	31.53	1/2	374.33	1/2	733.56	1/2	1,080.40	1/2	1,433.73	1/2	1,792.49	1/2	2,151.59	1/2	2,510.64	1/2	2,869.46	1/2	3,227.16
3/4	35.90	3/4	381.82	3/4	741.05	3/4	1,087.55	3/4	1,441.15	3/4	1,799.97	3/4	2,159.07	3/4	2,518.12	3/4	2,876.92	3/4	3,234.60
1	40.27	1	389.30	1	748.53	1	1,094.69	1	1,448.57	1	1,807.45	1	2,166.55	1	2,525.60	1	2,884.39	1	3,242.03
1/4	45.88	1/4	396.78	1/4	756.02	1/4	1,101.84	1/4	1,455.99	1/4	1,814.93	1/4	2,174.03	1/4	2,533.08	1/4	2,891.85	1/4	3,249.46
1/2	51.49	1/2	404.27	1/2	763.50	1/2	1,108.98	1/2	1,463.41	1/2	1,822.42	1/2	2,181.51	1/2	2,540.56	1/2	2,899.31	1/2	3,256.89
3/4	57.10	3/4	411.75	3/4	770.98	3/4	1,116.13	3/4	1,470.83	3/4	1,829.90	3/4	2,188.99	3/4	2,548.04	3/4	2,906.76	3/4	3,264.32
2	62.71	2	419.24	2	778.47	2	1,123.28	2	1,478.25	2	1,837.38	2	2,196.47	2	2,555.52	2	2,914.22	2	3,271.75
1/4	69.56	1/4	426.72	1/4	785.95	1/4	1,130.42	1/4	1,485.73	1/4	1,844.86	1/4	2,203.95	1/4	2,563.00	1/4	2,921.68	1/4	3,279.19
1/2	76.41	1/2	434.20	1/2	793.44	1/2	1,137.57	1/2	1,493.21	1/2	1,852.34	1/2	2,211.43	1/2	2,570.48	1/2	2,929.14	1/2	3,286.62
3/4	83.25	3/4	441.69	3/4	800.92	3/4	1,144.72	3/4	1,500.70	3/4	1,859.83	3/4	2,218.91	3/4	2,577.96	3/4	2,936.60	3/4	3,294.05
3	90.10	3	449.17	3	808.40	3	1,151.86	3	1,508.18	3	1,867.31	3	2,226.39	3	2,585.44	3	2,944.06	3	3,301.48
1/4	97.55	1/4	456.66	1/4	815.60	1/4	1,159.29	1/4	1,515.66	1/4	1,874.79	1/4	2,233.87	1/4	2,592.92	1/4	2,951.51	1/4	3,308.93
1/2	105.00	1/2	464.14	1/2	822.80	1/2	1,166.72	1/2	1,523.14	1/2	1,882.27	1/2	2,241.35	1/2	2,600.40	1/2	2,958.97	1/2	3,316.38
3/4	112.45	3/4	471.62	3/4	830.00	3/4	1,174.15	3/4	1,530.62	3/4	1,889.75	3/4	2,248.83	3/4	2,607.88	3/4	2,966.43	3/4	3,323.82
4	119.90	4	479.11	4	837.20	4	1,181.58	4	1,538.10	4	1,897.24	4	2,256.31	4	2,615.36	4	2,973.89	4	3,331.27
1/4	127.38	1/4	486.59	1/4	844.37	1/4	1,188.99	1/4	1,545.59	1/4	1,904.72	1/4	2,263.79	1/4	2,622.83	1/4	2,981.35	1/4	3,338.72
1/2	134.86	1/2	494.08	1/2	851.55	1/2	1,196.39	1/2	1,553.07	1/2	1,912.20	1/2	2,271.27	1/2	2,630.31	1/2	2,988.81	1/2	3,346.17
3/4	142.34	3/4	501.56	3/4	858.72	3/4	1,203.79	3/4	1,560.55	3/4	1,919.68	3/4	2,278.75	3/4	2,637.79	3/4	2,996.26	3/4	3,353.61
5	149.82	5	509.04	5	865.89	5	1,211.19	5	1,568.03	5	1,927.16	5	2,286.23	5	2,645.27	5	3,003.72	5	3,361.06
1/4	157.30	1/4	516.53	1/4	873.06	1/4	1,218.59	1/4	1,575.51	1/4	1,934.65	1/4	2,293.71	1/4	2,652.75	1/4	3,011.18	1/4	3,368.51
1/2	164.78	1/2	524.01	1/2	880.23	1/2	1,226.00	1/2	1,583.00	1/2	1,942.13	1/2	2,301.19	1/2	2,660.23	1/2	3,018.64	1/2	3,375.95
3/4	172.26	3/4	531.50	3/4	887.41	3/4	1,233.40	3/4	1,590.48	3/4	1,949.61	3/4	2,308.67	3/4	2,667.70	3/4	3,026.10	3/4	3,383.40
6	179.75	6	538.98	6	894.58	6	1,240.80	6	1,597.96	6	1,957.09	6	2,316.15	6	2,675.18	6	3,033.56	6	3,390.85
1/4	187.23	1/4	546.46	1/4	901.73	1/4	1,248.22	1/4	1,605.44	1/4	1,964.57	1/4	2,323.63	1/4	2,682.66	1/4	3,041.01	1/4	3,398.30
1/2	194.72	1/2	553.95	1/2	908.88	1/2	1,255.64	1/2	1,612.92	1/2	1,972.05	1/2	2,331.11	1/2	2,690.14	1/2	3,048.47	1/2	3,405.74
3/4	202.20	3/4	561.43	3/4	916.03	3/4	1,263.06	3/4	1,620.41	3/4	1,979.54	3/4	2,338.59	3/4	2,697.62	3/4	3,055.93	3/4	3,413.19
7	209.68	7	568.92	7	923.18	7	1,270.48	7	1,627.89	7	1,987.02	7	2,346.07	7	2,705.10	7	3,063.39	7	3,420.64
1/4	217.17	1/4	576.40	1/4	930.32	1/4	1,277.90	1/4	1,635.37	1/4	1,994.50	1/4	2,353.56	1/4	2,712.58	1/4	3,070.86	1/4	3,428.09
1/2	224.65	1/2	583.88	1/2	937.47	1/2	1,285.32	1/2	1,642.85	1/2	2,001.98	1/2	2,361.04	1/2	2,720.05	1/2	3,078.32	1/2	3,435.53
3/4	232.14	3/4	591.37	3/4	944.62	3/4	1,292.74	3/4	1,650.33	3/4	2,009.46	3/4	2,368.52	3/4	2,727.53	3/4	3,085.79	3/4	3,442.98
8	239.62	8	598.85	8	951.76	8	1,300.16	8	1,657.81	8	2,016.95	8	2,376.00	8	2,735.01	8	3,093.25	8	3,450.43
1/4	247.10	1/4	606.34	1/4	958.91	1/4	1,307.58	1/4	1,665.30	1/4	2,024.43	1/4	2,383.48	1/4	2,742.49	1/4	3,100.72	1/4	3,457.87
1/2	254.59	1/2	613.82	1/2	966.05	1/2	1,315.00	1/2	1,672.78	1/2	2,031.91	1/2	2,390.96	1/2	2,749.97	1/2	3,108.19	1/2	3,465.32
3/4	262.07	3/4	621.30	3/4	973.20	3/4	1,322.43	3/4	1,680.26	3/4	2,039.39	3/4	2,398.44	3/4	2,757.45	3/4	3,115.65	3/4	3,472.77
9	269.56	9	628.79	9	980.35	9	1,329.85	9	1,687.74	9	2,046.87	9	2,405.92	9	2,764.93	9	3,123.12	9	3,480.22
1/4	277.04	1/4	636.27	1/4	987.49	1/4	1,337.27	1/4	1,695.22	1/4	2,054.35	1/4	2,413.40	1/4	2,772.40	1/4	3,130.55	1/4	3,487.67
1/2	284.52	1/2	643.76	1/2	994.64	1/2	1,344.69	1/2	1,702.71	1/2	2,061.83	1/2	2,420.88	1/2	2,779.86	1/2	3,137.98	1/2	3,495.12
3/4	292.01	3/4	651.24	3/4	1,001.79	3/4	1,352.11	3/4	1,710.19	3/4	2,069.31	3/4	2,428.36	3/4	2,787.33	3/4	3,145.41	3/4	3,502.57
10	299.49	10	658.72	10	1,008.93	10	1,359.53	10	1,717.67	10	2,076.79	10	2,435.84	10	2,794.80	10	3,152.85	10	3,496.28
1/4	306.98	1/4	666.21	1/4	1,016.08	1/4	1,366.95	1/4	1,725.15	1/4	2,084.27	1/4	2,443.32	1/4	2,802.26	1/4	3,160.28	1/4	3,500.30
1/2	314.46	1/2	673.69	1/2	1,023.23	1/2	1,374.37	1/2	1,732.63	1/2	2,091.75	1/2	2,450.80	1/2	2,809.73	1/2	3,167.71	1/2	3,504.32
3/4	321.94	3/4	681.18	3/4	1,030.37	3/4	1,381.79	3/4	1,740.12	3/4	2,099.23	3/4	2,458.28	3/4	2,817.19	3/4	3,175.14	3/4	3,508.33
11	329.43	11	688.66	11	1,037.52	11	1,389.21	11	1,747.60	11	2,106.71	11	2,465.76	11	2,824.66	11	3,182.57	11	3,512.35
1/4	336.91	1/4	696.14	1/4	1,044.67	1/4	1,396.63	1/4	1,755.08	1/4	2,114.19	1/4	2,473.24	1/4	2,832.13	1/4	3,190.00	1/4	3,516.37
1/2	344.40	1/2	703.63	1/2	1,051.81	1/2	1,404.05	1/2	1,762.56	1/2	2,121.67	1/2	2,480.72	1/2	2,839.59	1/2	3,197.44	1/2	3,520.39
3/4	351.88	3/4	711.11	3/4	1,058.96	3/4	1,411.47	3/4	1,770.04	3/4	2,129.15	3/4	2,488.20	3/4	2,847.06	3/4	3,204.87	3/4	3,524.40

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 311"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09"

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	3,528.42	0	3,721.23	0	3,914.04	0	4,104.28	0	4,284.87	0		0		0		0		0	
1/4	3,532.44	1/4	3,725.25	1/4	3,918.06	1/4	4,108.15	1/4	4,288.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,536.45	1/2	3,729.26	1/2	3,922.08	1/2	4,112.02	1/2	4,292.11	1/2		1/2		1/2		1/2		1/2	
3/4	3,540.47	3/4	3,733.28	3/4	3,926.09	3/4	4,115.88	3/4	4,295.73	3/4		3/4		3/4		3/4		3/4	
1	3,544.49	1	3,737.30	1	3,930.11	1	4,119.75	1	4,299.36	1		1		1		1		1	
1/4	3,548.50	1/4	3,741.32	1/4	3,934.13	1/4	4,123.58	1/4	4,302.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.52	1/2	3,745.33	1/2	3,938.14	1/2	4,127.42	1/2	4,306.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.54	3/4	3,749.35	3/4	3,942.16	3/4	4,131.25	3/4	4,310.17	3/4		3/4		3/4		3/4		3/4	
2	3,560.55	2	3,753.37	2	3,946.18	2	4,135.09	2	4,313.78	2		2		2		2		2	
1/4	3,564.57	1/4	3,757.38	1/4	3,950.19	1/4	4,138.91	1/4	4,317.37	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.59	1/2	3,761.40	1/2	3,954.21	1/2	4,142.73	1/2	4,320.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.61	3/4	3,765.42	3/4	3,958.23	3/4	4,146.55	3/4	4,324.55	3/4		3/4		3/4		3/4		3/4	
3	3,576.62	3	3,769.43	3	3,962.24	3	4,150.37	3	4,328.14	3		3		3		3		3	
1/4	3,580.64	1/4	3,773.45	1/4	3,966.25	1/4	4,154.17	1/4	4,331.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,584.66	1/2	3,777.47	1/2	3,970.26	1/2	4,157.98	1/2	4,335.27	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.67	3/4	3,781.48	3/4	3,974.27	3/4	4,161.78	3/4	4,338.83	3/4		3/4		3/4		3/4		3/4	
4	3,592.69	4	3,785.50	4	3,978.28	4	4,165.58	4	4,342.40	4		4		4		4		4	
1/4	3,596.71	1/4	3,789.52	1/4	3,982.28	1/4	4,169.37	1/4	4,345.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,600.72	1/2	3,793.53	1/2	3,986.27	1/2	4,173.16	1/2	4,349.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,604.74	3/4	3,797.55	3/4	3,990.26	3/4	4,176.95	3/4	4,352.97	3/4		3/4		3/4		3/4		3/4	
5	3,608.76	5	3,801.57	5	3,994.26	5	4,180.74	5	4,356.49	5		5		5		5		5	
1/4	3,612.77	1/4	3,805.59	1/4	3,998.23	1/4	4,184.51	1/4	4,359.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,616.79	1/2	3,809.60	1/2	4,002.21	1/2	4,188.28	1/2	4,362.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,620.81	3/4	3,813.62	3/4	4,006.19	3/4	4,192.05	3/4	4,365.24	3/4		3/4		3/4		3/4		3/4	
6	3,624.82	6	3,817.64	6	4,010.16	6	4,195.82	6	4,368.16	6		6		6		6		6	
1/4	3,628.84	1/4	3,821.65	1/4	4,014.13	1/4	4,199.58	1/4	4,370.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.86	1/2	3,825.67	1/2	4,018.09	1/2	4,203.34	1/2	4,372.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.88	3/4	3,829.69	3/4	4,022.05	3/4	4,207.09	3/4	4,374.43	3/4		3/4		3/4		3/4		3/4	
7	3,640.89	7	3,833.70	7	4,026.01	7	4,210.85	7	4,376.52	7		7		7		7		7	
1/4	3,644.91	1/4	3,837.72	1/4	4,029.96	1/4	4,214.59	1/4	4,377.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,648.93	1/2	3,841.74	1/2	4,033.90	1/2	4,218.33	1/2	4,378.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,652.94	3/4	3,845.75	3/4	4,037.85	3/4	4,222.07	3/4	4,379.09	3/4		3/4		3/4		3/4		3/4	
8	3,656.96	8	3,849.77	8	4,041.79	8	4,225.81	8	4,379.94	8		8		8		8		8	
1/4	3,660.98	1/4	3,853.79	1/4	4,045.72	1/4	4,229.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,664.99	1/2	3,857.81	1/2	4,049.65	1/2	4,233.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,669.01	3/4	3,861.82	3/4	4,053.58	3/4	4,236.98	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,673.03	9	3,865.84	9	4,057.51	9	4,240.71	9		9		9		9		9		9	
1/4	3,677.04	1/4	3,869.86	1/4	4,061.42	1/4	4,244.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,681.06	1/2	3,873.87	1/2	4,065.34	1/2	4,248.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,685.08	3/4	3,877.89	3/4	4,069.25	3/4	4,251.83	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,689.10	10	3,881.91	10	4,073.17	10	4,255.54	10		10		10		10		10		10	
1/4	3,693.11	1/4	3,885.92	1/4	4,077.06	1/4	4,259.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.13	1/2	3,889.94	1/2	4,080.96	1/2	4,262.93	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,701.15	3/4	3,893.96	3/4	4,084.86	3/4	4,266.62	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,705.16	11	3,897.97	11	4,088.76	11	4,270.31	11		11		11		11		11		11	
1/4	3,709.18	1/4	3,901.99	1/4	4,092.64	1/4	4,273.95	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,713.20	1/2	3,906.01	1/2	4,096.52	1/2	4,277.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,717.21	3/4	3,910.02	3/4	4,100.40	3/4	4,281.23	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/16/2013 SW  
CALCULATED: 08/16/2013 CL  
PRINTED: 08/17/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
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