



# BARGE "CTCo 317"

## 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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
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	- 00-1/8	00-1/8	- 00-1/8	00-1/8
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	- 00-1/8	00-1/8	- 00-1/8	00-1/8
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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-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 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

September 18, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 317"

**1 PORT  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	23.54	0	326.21	0	684.83	0	1,050.73	0	1,417.85	0	1,785.46	0	2,153.08	0	2,520.70	0	2,888.32	0	3,255.82
1/4	28.03	1/4	333.28	1/4	692.48	1/4	1,058.34	1/4	1,425.51	1/4	1,793.12	1/4	2,160.74	1/4	2,528.36	1/4	2,895.98	1/4	3,263.47
1/2	32.53	1/2	340.35	1/2	700.14	1/2	1,065.96	1/2	1,433.16	1/2	1,800.78	1/2	2,168.40	1/2	2,536.02	1/2	2,903.64	1/2	3,271.13
3/4	37.03	3/4	347.42	3/4	707.80	3/4	1,073.57	3/4	1,440.82	3/4	1,808.44	3/4	2,176.06	3/4	2,543.68	3/4	2,911.29	3/4	3,278.78
1	41.52	1	354.48	1	715.46	1	1,081.19	1	1,448.48	1	1,816.10	1	2,183.72	1	2,551.33	1	2,918.95	1	3,286.44
1/4	47.08	1/4	361.64	1/4	723.12	1/4	1,088.81	1/4	1,456.14	1/4	1,823.76	1/4	2,191.38	1/4	2,558.99	1/4	2,926.61	1/4	3,294.09
1/2	52.64	1/2	368.80	1/2	730.78	1/2	1,096.43	1/2	1,463.80	1/2	1,831.42	1/2	2,199.03	1/2	2,566.65	1/2	2,934.27	1/2	3,301.75
3/4	58.20	3/4	375.96	3/4	738.44	3/4	1,104.05	3/4	1,471.46	3/4	1,839.08	3/4	2,206.69	3/4	2,574.31	3/4	2,941.93	3/4	3,309.40
2	63.76	2	383.12	2	746.09	2	1,111.68	2	1,479.12	2	1,846.73	2	2,214.35	2	2,581.97	2	2,949.59	2	3,317.06
1/4	69.88	1/4	390.37	1/4	753.75	1/4	1,119.31	1/4	1,486.78	1/4	1,854.39	1/4	2,222.01	1/4	2,589.63	1/4	2,957.25	1/4	3,324.71
1/2	76.01	1/2	397.62	1/2	761.41	1/2	1,126.93	1/2	1,494.43	1/2	1,862.05	1/2	2,229.67	1/2	2,597.29	1/2	2,964.90	1/2	3,332.36
3/4	82.13	3/4	404.87	3/4	769.07	3/4	1,134.56	3/4	1,502.09	3/4	1,869.71	3/4	2,237.33	3/4	2,604.95	3/4	2,972.56	3/4	3,340.02
3	88.25	3	412.12	3	776.73	3	1,142.19	3	1,509.75	3	1,877.37	3	2,244.99	3	2,612.60	3	2,980.22	3	3,347.67
1/4	94.48	1/4	419.46	1/4	784.36	1/4	1,149.84	1/4	1,517.41	1/4	1,885.03	1/4	2,252.65	1/4	2,620.26	1/4	2,987.88	1/4	3,355.33
1/2	100.72	1/2	426.80	1/2	791.99	1/2	1,157.48	1/2	1,525.07	1/2	1,892.69	1/2	2,260.30	1/2	2,627.92	1/2	2,995.54	1/2	3,362.98
3/4	106.95	3/4	434.14	3/4	799.63	3/4	1,165.12	3/4	1,532.73	3/4	1,900.35	3/4	2,267.96	3/4	2,635.58	3/4	3,003.21	3/4	3,370.64
4	113.18	4	441.48	4	807.26	4	1,172.77	4	1,540.39	4	1,908.00	4	2,275.62	4	2,643.24	4	3,010.87	4	3,378.29
1/4	119.51	1/4	448.91	1/4	814.87	1/4	1,180.43	1/4	1,548.05	1/4	1,915.66	1/4	2,283.28	1/4	2,650.90	1/4	3,018.52	1/4	3,385.95
1/2	125.84	1/2	456.34	1/2	822.48	1/2	1,188.09	1/2	1,555.70	1/2	1,923.32	1/2	2,290.94	1/2	2,658.56	1/2	3,026.18	1/2	3,393.60
3/4	132.17	3/4	463.77	3/4	830.09	3/4	1,195.75	3/4	1,563.36	3/4	1,930.98	3/4	2,298.60	3/4	2,666.22	3/4	3,033.83	3/4	3,401.26
5	138.51	5	471.21	5	837.69	5	1,203.40	5	1,571.02	5	1,938.64	5	2,306.26	5	2,673.87	5	3,041.49	5	3,408.91
1/4	144.93	1/4	478.73	1/4	845.30	1/4	1,211.06	1/4	1,578.68	1/4	1,946.30	1/4	2,313.92	1/4	2,681.53	1/4	3,049.14	1/4	3,416.57
1/2	151.36	1/2	486.25	1/2	852.91	1/2	1,218.72	1/2	1,586.34	1/2	1,953.96	1/2	2,321.57	1/2	2,689.19	1/2	3,056.80	1/2	3,424.22
3/4	157.79	3/4	493.77	3/4	860.52	3/4	1,226.38	3/4	1,594.00	3/4	1,961.62	3/4	2,329.23	3/4	2,696.85	3/4	3,064.45	3/4	3,431.88
6	164.22	6	501.29	6	868.12	6	1,234.04	6	1,601.66	6	1,969.27	6	2,336.89	6	2,704.51	6	3,072.10	6	3,439.53
1/4	170.74	1/4	508.90	1/4	875.73	1/4	1,241.70	1/4	1,609.31	1/4	1,976.93	1/4	2,344.55	1/4	2,712.17	1/4	3,079.76	1/4	3,447.19
1/2	177.27	1/2	516.50	1/2	883.34	1/2	1,249.36	1/2	1,616.97	1/2	1,984.59	1/2	2,352.21	1/2	2,719.83	1/2	3,087.41	1/2	3,454.84
3/4	183.79	3/4	524.10	3/4	890.95	3/4	1,257.01	3/4	1,624.63	3/4	1,992.25	3/4	2,359.87	3/4	2,727.48	3/4	3,095.07	3/4	3,462.49
7	190.31	7	531.70	7	898.56	7	1,264.67	7	1,632.29	7	1,999.91	7	2,367.53	7	2,735.14	7	3,102.72	7	3,470.15
1/4	196.92	1/4	539.35	1/4	906.16	1/4	1,272.33	1/4	1,639.95	1/4	2,007.57	1/4	2,375.18	1/4	2,742.80	1/4	3,110.38	1/4	3,477.80
1/2	203.54	1/2	547.00	1/2	913.77	1/2	1,279.99	1/2	1,647.61	1/2	2,015.23	1/2	2,382.84	1/2	2,750.46	1/2	3,118.03	1/2	3,485.46
3/4	210.15	3/4	554.64	3/4	921.38	3/4	1,287.65	3/4	1,655.27	3/4	2,022.88	3/4	2,390.50	3/4	2,758.12	3/4	3,125.69	3/4	3,493.11
8	216.76	8	562.29	8	928.99	8	1,295.31	8	1,662.93	8	2,030.54	8	2,398.16	8	2,765.78	8	3,133.34	8	3,500.77
1/4	223.47	1/4	569.95	1/4	936.59	1/4	1,302.97	1/4	1,670.58	1/4	2,038.20	1/4	2,405.82	1/4	2,773.44	1/4	3,141.00	1/4	3,508.42
1/2	230.17	1/2	577.61	1/2	944.20	1/2	1,310.63	1/2	1,678.24	1/2	2,045.86	1/2	2,413.48	1/2	2,781.10	1/2	3,148.65	1/2	3,516.08
3/4	236.88	3/4	585.27	3/4	951.81	3/4	1,318.28	3/4	1,685.90	3/4	2,053.52	3/4	2,421.14	3/4	2,788.75	3/4	3,156.31	3/4	3,523.73
9	243.58	9	592.92	9	959.42	9	1,325.94	9	1,693.56	9	2,061.18	9	2,428.80	9	2,796.41	9	3,163.96	9	3,531.39
1/4	250.38	1/4	600.58	1/4	967.03	1/4	1,333.60	1/4	1,701.22	1/4	2,068.84	1/4	2,436.45	1/4	2,804.07	1/4	3,171.62	1/4	3,539.04
1/2	257.17	1/2	608.24	1/2	974.63	1/2	1,341.26	1/2	1,708.88	1/2	2,076.50	1/2	2,444.11	1/2	2,811.73	1/2	3,179.27	1/2	3,546.69
3/4	263.97	3/4	615.90	3/4	982.24	3/4	1,348.92	3/4	1,716.54	3/4	2,084.15	3/4	2,451.77	3/4	2,819.39	3/4	3,186.93	3/4	3,554.34
10	270.76	10	623.56	10	989.85	10	1,356.58	10	1,724.20	10	2,091.81	10	2,459.43	10	2,827.05	10	3,194.58	10	3,561.99
1/4	277.65	1/4	631.22	1/4	997.46	1/4	1,364.24	1/4	1,731.85	1/4	2,099.47	1/4	2,467.09	1/4	2,834.71	1/4	3,202.23	1/4	3,569.63
1/2	284.53	1/2	638.87	1/2	1,005.06	1/2	1,371.90	1/2	1,739.51	1/2	2,107.13	1/2	2,474.75	1/2	2,842.37	1/2	3,209.89	1/2	3,577.27
3/4	291.42	3/4	646.53	3/4	1,012.67	3/4	1,379.55	3/4	1,747.17	3/4	2,114.79	3/4	2,482.41	3/4	2,850.02	3/4	3,217.54	3/4	3,584.92
11	298.31	11	654.19	11	1,020.28	11	1,387.21	11	1,754.83	11	2,122.45	11	2,490.07	11	2,857.68	11	3,225.20	11	3,592.56
1/4	305.28	1/4	661.85	1/4	1,027.89	1/4	1,394.87	1/4	1,762.49	1/4	2,130.11	1/4	2,497.72	1/4	2,865.34	1/4	3,232.85	1/4	3,600.20
1/2	312.26	1/2	669.51	1/2	1,035.50	1/2	1,402.53	1/2	1,770.15	1/2	2,137.77	1/2	2,505.38	1/2	2,873.00	1/2	3,240.51	1/2	3,607.84
3/4	319.24	3/4	677.17	3/4	1,043.12	3/4	1,410.19	3/4	1,777.81	3/4	2,145.42	3/4	2,513.04	3/4	2,880.66	3/4	3,248.16	3/4	3,615.49

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CTCo 317"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,623.13	0	3,990.00	0	4,354.03	0	4,699.34	0	5,032.90	0		0		0		0		0	
1/4	3,630.77	1/4	3,997.64	1/4	4,361.43	1/4	4,706.30	1/4	5,040.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.42	1/2	4,005.29	1/2	4,368.84	1/2	4,713.26	1/2	5,048.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,646.06	3/4	4,012.93	3/4	4,376.24	3/4	4,720.22	3/4	5,055.65	3/4		3/4		3/4		3/4		3/4	
1	3,653.70	1	4,020.57	1	4,383.64	1	4,727.18	1	5,063.24	1		1		1		1		1	
1/4	3,661.35	1/4	4,028.22	1/4	4,391.01	1/4	4,734.09	1/4	5,070.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,668.99	1/2	4,035.86	1/2	4,398.38	1/2	4,740.99	1/2	5,077.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.63	3/4	4,043.50	3/4	4,405.75	3/4	4,747.90	3/4	5,084.85	3/4		3/4		3/4		3/4		3/4	
2	3,684.28	2	4,051.14	2	4,413.12	2	4,754.81	2	5,092.05	2		2		2		2		2	
1/4	3,691.92	1/4	4,058.79	1/4	4,420.44	1/4	4,761.66	1/4	5,098.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,699.56	1/2	4,066.43	1/2	4,427.77	1/2	4,768.51	1/2	5,104.17	1/2		1/2		1/2		1/2		1/2	
3/4	3,707.20	3/4	4,074.07	3/4	4,435.09	3/4	4,775.36	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,714.85	3	4,081.72	3	4,442.42	3	4,782.22	3		3		3		3		3		3	
1/4	3,722.49	1/4	4,089.36	1/4	4,449.69	1/4	4,789.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,730.13	1/2	4,097.00	1/2	4,456.97	1/2	4,795.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,737.78	3/4	4,104.65	3/4	4,464.25	3/4	4,802.67	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,745.42	4	4,112.29	4	4,471.52	4	4,809.49	4		4		4		4		4		4	
1/4	3,753.06	1/4	4,119.93	1/4	4,478.76	1/4	4,816.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.71	1/2	4,127.58	1/2	4,486.00	1/2	4,823.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,768.35	3/4	4,135.22	3/4	4,493.24	3/4	4,829.85	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,775.99	5	4,142.86	5	4,500.48	5	4,836.63	5		5		5		5		5		5	
1/4	3,783.64	1/4	4,150.50	1/4	4,507.68	1/4	4,843.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,791.28	1/2	4,158.14	1/2	4,514.88	1/2	4,850.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,798.92	3/4	4,165.77	3/4	4,522.09	3/4	4,856.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,806.57	6	4,173.41	6	4,529.29	6	4,863.64	6		6		6		6		6		6	
1/4	3,814.21	1/4	4,181.02	1/4	4,536.46	1/4	4,870.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,821.85	1/2	4,188.64	1/2	4,543.63	1/2	4,877.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,829.49	3/4	4,196.25	3/4	4,550.80	3/4	4,883.78	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,837.14	7	4,203.86	7	4,557.97	7	4,890.49	7		7		7		7		7		7	
1/4	3,844.78	1/4	4,211.44	1/4	4,565.11	1/4	4,897.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,852.42	1/2	4,219.02	1/2	4,572.25	1/2	4,903.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,860.07	3/4	4,226.60	3/4	4,579.38	3/4	4,910.52	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,867.71	8	4,234.18	8	4,586.52	8	4,917.20	8		8		8		8		8		8	
1/4	3,875.35	1/4	4,241.73	1/4	4,593.62	1/4	4,923.85	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.00	1/2	4,249.28	1/2	4,600.73	1/2	4,930.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,890.64	3/4	4,256.82	3/4	4,607.83	3/4	4,937.14	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,898.28	9	4,264.37	9	4,614.93	9	4,943.78	9		9		9		9		9		9	
1/4	3,905.93	1/4	4,271.88	1/4	4,622.00	1/4	4,950.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,913.57	1/2	4,279.39	1/2	4,629.07	1/2	4,958.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,921.21	3/4	4,286.89	3/4	4,636.14	3/4	4,965.10	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,928.85	10	4,294.40	10	4,643.21	10	4,972.21	10		10		10		10		10		10	
1/4	3,936.50	1/4	4,301.87	1/4	4,650.25	1/4	4,979.80	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,944.14	1/2	4,309.34	1/2	4,657.28	1/2	4,987.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,951.78	3/4	4,316.81	3/4	4,664.32	3/4	4,994.97	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,959.43	11	4,324.28	11	4,671.35	11	5,002.55	11		11		11		11		11		11	
1/4	3,967.07	1/4	4,331.72	1/4	4,678.35	1/4	5,010.14	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,974.71	1/2	4,339.16	1/2	4,685.35	1/2	5,017.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,982.36	3/4	4,346.59	3/4	4,692.35	3/4	5,025.31	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW  
CALCULATED: 09/18/2013 CL  
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

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



# BARGE "CTCo 317"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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	23.54	0	325.89	0	683.89	0	1,050.48	0	1,417.50	0	1,784.55	0	2,151.61	0	2,518.67	0	2,885.72	0	3,252.64
1/4	28.03	1/4	332.95	1/4	691.53	1/4	1,058.12	1/4	1,425.15	1/4	1,792.20	1/4	2,159.26	1/4	2,526.31	1/4	2,893.37	1/4	3,260.29
1/2	32.53	1/2	340.01	1/2	699.18	1/2	1,065.76	1/2	1,432.79	1/2	1,799.85	1/2	2,166.90	1/2	2,533.96	1/2	2,901.02	1/2	3,267.93
3/4	37.03	3/4	347.06	3/4	706.83	3/4	1,073.40	3/4	1,440.44	3/4	1,807.50	3/4	2,174.55	3/4	2,541.61	3/4	2,908.66	3/4	3,275.57
1	41.52	1	354.12	1	714.47	1	1,081.04	1	1,448.09	1	1,815.14	1	2,182.20	1	2,549.25	1	2,916.31	1	3,283.21
1/4	47.08	1/4	361.27	1/4	722.12	1/4	1,088.69	1/4	1,455.73	1/4	1,822.79	1/4	2,189.85	1/4	2,556.90	1/4	2,923.96	1/4	3,290.86
1/2	52.64	1/2	368.41	1/2	729.77	1/2	1,096.33	1/2	1,463.38	1/2	1,830.44	1/2	2,197.49	1/2	2,564.55	1/2	2,931.60	1/2	3,298.50
3/4	58.20	3/4	375.56	3/4	737.41	3/4	1,103.97	3/4	1,471.03	3/4	1,838.08	3/4	2,205.14	3/4	2,572.20	3/4	2,939.25	3/4	3,306.14
2	63.76	2	382.71	2	745.06	2	1,111.62	2	1,478.67	2	1,845.73	2	2,212.79	2	2,579.84	2	2,946.90	2	3,313.79
1/4	69.88	1/4	389.95	1/4	752.71	1/4	1,119.27	1/4	1,486.32	1/4	1,853.38	1/4	2,220.43	1/4	2,587.49	1/4	2,954.55	1/4	3,321.43
1/2	76.01	1/2	397.18	1/2	760.35	1/2	1,126.91	1/2	1,493.97	1/2	1,861.02	1/2	2,228.08	1/2	2,595.14	1/2	2,962.19	1/2	3,329.07
3/4	82.13	3/4	404.42	3/4	768.00	3/4	1,134.56	3/4	1,501.62	3/4	1,868.67	3/4	2,235.73	3/4	2,602.78	3/4	2,969.84	3/4	3,336.72
3	88.25	3	411.66	3	775.65	3	1,142.21	3	1,509.26	3	1,876.32	3	2,243.37	3	2,610.43	3	2,977.49	3	3,344.36
1/4	94.49	1/4	418.99	1/4	783.29	1/4	1,149.85	1/4	1,516.91	1/4	1,883.97	1/4	2,251.02	1/4	2,618.08	1/4	2,985.13	1/4	3,352.00
1/2	100.72	1/2	426.32	1/2	790.93	1/2	1,157.50	1/2	1,524.56	1/2	1,891.61	1/2	2,258.67	1/2	2,625.72	1/2	2,992.78	1/2	3,359.64
3/4	106.95	3/4	433.65	3/4	798.57	3/4	1,165.15	3/4	1,532.20	3/4	1,899.26	3/4	2,266.32	3/4	2,633.37	3/4	3,000.42	3/4	3,367.29
4	113.18	4	440.97	4	806.21	4	1,172.79	4	1,539.85	4	1,906.91	4	2,273.96	4	2,641.02	4	3,008.07	4	3,374.93
1/4	119.51	1/4	448.39	1/4	813.84	1/4	1,180.44	1/4	1,547.50	1/4	1,914.55	1/4	2,281.61	1/4	2,648.67	1/4	3,015.71	1/4	3,382.57
1/2	125.84	1/2	455.81	1/2	821.47	1/2	1,188.09	1/2	1,555.14	1/2	1,922.20	1/2	2,289.26	1/2	2,656.31	1/2	3,023.35	1/2	3,390.22
3/4	132.17	3/4	463.23	3/4	829.11	3/4	1,195.74	3/4	1,562.79	3/4	1,929.85	3/4	2,296.90	3/4	2,663.96	3/4	3,031.00	3/4	3,397.86
5	138.50	5	470.65	5	836.74	5	1,203.38	5	1,570.44	5	1,937.49	5	2,304.55	5	2,671.61	5	3,038.64	5	3,405.50
1/4	144.92	1/4	478.16	1/4	844.37	1/4	1,211.03	1/4	1,578.09	1/4	1,945.14	1/4	2,312.20	1/4	2,679.25	1/4	3,046.28	1/4	3,413.15
1/2	151.34	1/2	485.67	1/2	852.01	1/2	1,218.68	1/2	1,585.73	1/2	1,952.79	1/2	2,319.84	1/2	2,686.90	1/2	3,053.92	1/2	3,420.79
3/4	157.76	3/4	493.19	3/4	859.64	3/4	1,226.32	3/4	1,593.38	3/4	1,960.44	3/4	2,327.49	3/4	2,694.55	3/4	3,061.57	3/4	3,428.43
6	164.18	6	500.70	6	867.27	6	1,233.97	6	1,601.03	6	1,968.08	6	2,335.14	6	2,702.19	6	3,069.21	6	3,436.07
1/4	170.69	1/4	508.28	1/4	874.90	1/4	1,241.62	1/4	1,608.67	1/4	1,975.73	1/4	2,342.79	1/4	2,709.84	1/4	3,076.85	1/4	3,443.72
1/2	177.20	1/2	515.87	1/2	882.54	1/2	1,249.26	1/2	1,616.32	1/2	1,983.38	1/2	2,350.43	1/2	2,717.49	1/2	3,084.50	1/2	3,451.36
3/4	183.71	3/4	523.45	3/4	890.17	3/4	1,256.91	3/4	1,623.97	3/4	1,991.02	3/4	2,358.08	3/4	2,725.14	3/4	3,092.14	3/4	3,459.00
7	190.22	7	531.04	7	897.80	7	1,264.56	7	1,631.61	7	1,998.67	7	2,365.73	7	2,732.78	7	3,099.78	7	3,466.65
1/4	196.82	1/4	538.67	1/4	905.44	1/4	1,272.21	1/4	1,639.26	1/4	2,006.32	1/4	2,373.37	1/4	2,740.43	1/4	3,107.43	1/4	3,474.29
1/2	203.43	1/2	546.30	1/2	913.07	1/2	1,279.85	1/2	1,646.91	1/2	2,013.96	1/2	2,381.02	1/2	2,748.08	1/2	3,115.07	1/2	3,481.93
3/4	210.03	3/4	553.92	3/4	920.70	3/4	1,287.50	3/4	1,654.56	3/4	2,021.61	3/4	2,388.67	3/4	2,755.72	3/4	3,122.71	3/4	3,489.58
8	216.63	8	561.55	8	928.34	8	1,295.15	8	1,662.20	8	2,029.26	8	2,396.31	8	2,763.37	8	3,130.35	8	3,497.22
1/4	223.32	1/4	569.20	1/4	935.97	1/4	1,302.79	1/4	1,669.85	1/4	2,036.91	1/4	2,403.96	1/4	2,771.02	1/4	3,138.00	1/4	3,504.86
1/2	230.01	1/2	576.84	1/2	943.60	1/2	1,310.44	1/2	1,677.50	1/2	2,044.55	1/2	2,411.61	1/2	2,778.66	1/2	3,145.64	1/2	3,512.50
3/4	236.71	3/4	584.48	3/4	951.24	3/4	1,318.09	3/4	1,685.14	3/4	2,052.20	3/4	2,419.26	3/4	2,786.31	3/4	3,153.28	3/4	3,520.15
9	243.40	9	592.12	9	958.87	9	1,325.73	9	1,692.79	9	2,059.85	9	2,426.90	9	2,793.96	9	3,160.93	9	3,527.79
1/4	250.18	1/4	599.77	1/4	966.50	1/4	1,333.38	1/4	1,700.44	1/4	2,067.49	1/4	2,434.55	1/4	2,801.61	1/4	3,168.57	1/4	3,535.43
1/2	256.97	1/2	607.42	1/2	974.13	1/2	1,341.03	1/2	1,708.08	1/2	2,075.14	1/2	2,442.20	1/2	2,809.25	1/2	3,176.21	1/2	3,543.08
3/4	263.75	3/4	615.06	3/4	981.77	3/4	1,348.68	3/4	1,715.73	3/4	2,082.79	3/4	2,449.84	3/4	2,816.90	3/4	3,183.86	3/4	3,550.72
10	270.53	10	622.71	10	989.40	10	1,356.32	10	1,723.38	10	2,090.43	10	2,457.49	10	2,824.55	10	3,191.50	10	3,558.36
1/4	277.41	1/4	630.36	1/4	997.03	1/4	1,363.97	1/4	1,731.03	1/4	2,098.08	1/4	2,465.14	1/4	2,832.19	1/4	3,199.14	1/4	3,566.01
1/2	284.28	1/2	638.01	1/2	1,004.67	1/2	1,371.62	1/2	1,738.67	1/2	2,105.73	1/2	2,472.78	1/2	2,839.84	1/2	3,206.78	1/2	3,573.65
3/4	291.16	3/4	645.65	3/4	1,012.30	3/4	1,379.26	3/4	1,746.32	3/4	2,113.38	3/4	2,480.43	3/4	2,847.49	3/4	3,214.43	3/4	3,581.29
11	298.03	11	653.30	11	1,019.93	11	1,386.91	11	1,753.97	11	2,121.02	11	2,488.08	11	2,855.13	11	3,222.07	11	3,588.93
1/4	305.00	1/4	660.95	1/4	1,027.57	1/4	1,394.56	1/4	1,761.61	1/4	2,128.67	1/4	2,495.73	1/4	2,862.78	1/4	3,229.71	1/4	3,596.58
1/2	311.96	1/2	668.59	1/2	1,035.21	1/2	1,402.20	1/2	1,769.26	1/2	2,136.32	1/2	2,503.37	1/2	2,870.43	1/2	3,237.36	1/2	3,604.22
3/4	318.93	3/4	676.24	3/4	1,042.84	3/4	1,409.85	3/4	1,776.91	3/4	2,143.96	3/4	2,511.02	3/4	2,878.08	3/4	3,245.00	3/4	3,611.86

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 317"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03"

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	3,619.51	0	3,986.37	0	4,350.39	0	4,695.70	0	5,029.25	0		0		0		0		0	
1/4	3,627.15	1/4	3,994.01	1/4	4,357.80	1/4	4,702.66	1/4	5,036.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,634.79	1/2	4,001.66	1/2	4,365.20	1/2	4,709.62	1/2	5,044.42	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.44	3/4	4,009.30	3/4	4,372.60	3/4	4,716.58	3/4	5,052.01	3/4		3/4		3/4		3/4		3/4	
1	3,650.08	1	4,016.94	1	4,380.00	1	4,723.54	1	5,059.60	1		1		1		1		1	
1/4	3,657.72	1/4	4,024.59	1/4	4,387.37	1/4	4,730.45	1/4	5,066.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,665.36	1/2	4,032.23	1/2	4,394.74	1/2	4,737.35	1/2	5,074.00	1/2		1/2		1/2		1/2		1/2	
3/4	3,673.01	3/4	4,039.87	3/4	4,402.11	3/4	4,744.26	3/4	5,081.20	3/4		3/4		3/4		3/4		3/4	
2	3,680.65	2	4,047.51	2	4,409.48	2	4,751.16	2	5,088.40	2		2		2		2		2	
1/4	3,688.29	1/4	4,055.16	1/4	4,416.81	1/4	4,758.02	1/4	5,094.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,695.94	1/2	4,062.80	1/2	4,424.13	1/2	4,764.87	1/2	5,100.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,703.58	3/4	4,070.44	3/4	4,431.45	3/4	4,771.72	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,711.22	3	4,078.09	3	4,438.78	3	4,778.57	3		3		3		3		3		3	
1/4	3,718.87	1/4	4,085.73	1/4	4,446.06	1/4	4,785.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,726.51	1/2	4,093.37	1/2	4,453.33	1/2	4,792.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,734.15	3/4	4,101.02	3/4	4,460.61	3/4	4,799.03	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,741.79	4	4,108.66	4	4,467.88	4	4,805.85	4		4		4		4		4		4	
1/4	3,749.44	1/4	4,116.30	1/4	4,475.12	1/4	4,812.63	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,757.08	1/2	4,123.94	1/2	4,482.36	1/2	4,819.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,764.72	3/4	4,131.59	3/4	4,489.60	3/4	4,826.20	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,772.37	5	4,139.23	5	4,496.84	5	4,832.99	5		5		5		5		5		5	
1/4	3,780.01	1/4	4,146.87	1/4	4,504.04	1/4	4,839.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,787.65	1/2	4,154.50	1/2	4,511.24	1/2	4,846.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,795.30	3/4	4,162.14	3/4	4,518.45	3/4	4,853.24	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,802.94	6	4,169.77	6	4,525.65	6	4,859.99	6		6		6		6		6		6	
1/4	3,810.58	1/4	4,177.39	1/4	4,532.82	1/4	4,866.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,818.22	1/2	4,185.00	1/2	4,539.99	1/2	4,873.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,825.87	3/4	4,192.61	3/4	4,547.16	3/4	4,880.13	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,833.51	7	4,200.23	7	4,554.33	7	4,886.85	7		7		7		7		7		7	
1/4	3,841.15	1/4	4,207.81	1/4	4,561.47	1/4	4,893.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,848.80	1/2	4,215.39	1/2	4,568.61	1/2	4,900.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,856.44	3/4	4,222.97	3/4	4,575.74	3/4	4,906.88	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,864.08	8	4,230.55	8	4,582.88	8	4,913.56	8		8		8		8		8		8	
1/4	3,871.73	1/4	4,238.09	1/4	4,589.98	1/4	4,920.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,879.37	1/2	4,245.64	1/2	4,597.09	1/2	4,926.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.01	3/4	4,253.19	3/4	4,604.19	3/4	4,933.49	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,894.65	9	4,260.73	9	4,611.29	9	4,940.14	9		9		9		9		9		9	
1/4	3,902.30	1/4	4,268.24	1/4	4,618.36	1/4	4,947.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,909.94	1/2	4,275.75	1/2	4,625.43	1/2	4,954.35	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,917.58	3/4	4,283.26	3/4	4,632.50	3/4	4,961.46	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,925.23	10	4,290.77	10	4,639.57	10	4,968.57	10		10		10		10		10		10	
1/4	3,932.87	1/4	4,298.24	1/4	4,646.60	1/4	4,976.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,940.51	1/2	4,305.71	1/2	4,653.64	1/2	4,983.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,948.16	3/4	4,313.18	3/4	4,660.68	3/4	4,991.33	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,955.80	11	4,320.65	11	4,667.71	11	4,998.91	11		11		11		11		11		11	
1/4	3,963.44	1/4	4,328.08	1/4	4,674.71	1/4	5,006.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,971.08	1/2	4,335.52	1/2	4,681.71	1/2	5,014.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,978.73	3/4	4,342.96	3/4	4,688.70	3/4	5,021.67	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW  
CALCULATED: 09/18/2013 CL  
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

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



# BARGE "CTCo 317"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	23.69	0	359.04	0	703.54	0	1,037.73	0	1,378.20	0	1,722.72	0	2,067.24	0	2,411.76	0	2,756.28	0	3,100.65
1/4	29.07	1/4	366.21	1/4	710.72	1/4	1,044.61	1/4	1,385.38	1/4	1,729.90	1/4	2,074.42	1/4	2,418.94	1/4	2,763.46	1/4	3,107.83
1/2	34.46	1/2	373.39	1/2	717.90	1/2	1,051.49	1/2	1,392.56	1/2	1,737.08	1/2	2,081.60	1/2	2,426.12	1/2	2,770.64	1/2	3,115.00
3/4	39.84	3/4	380.57	3/4	725.07	3/4	1,058.37	3/4	1,399.74	3/4	1,744.26	3/4	2,088.78	3/4	2,433.30	3/4	2,777.82	3/4	3,122.17
1	45.22	1	387.74	1	732.25	1	1,065.25	1	1,406.91	1	1,751.43	1	2,095.95	1	2,440.47	1	2,844.99	1	3,129.35
1/4	51.93	1/4	394.92	1/4	739.43	1/4	1,072.14	1/4	1,414.09	1/4	1,758.61	1/4	2,103.13	1/4	2,447.65	1/4	2,792.17	1/4	3,136.52
1/2	58.64	1/2	402.10	1/2	746.60	1/2	1,079.03	1/2	1,421.27	1/2	1,765.79	1/2	2,110.31	1/2	2,454.83	1/2	2,799.35	1/2	3,143.69
3/4	65.35	3/4	409.28	3/4	753.78	3/4	1,085.91	3/4	1,428.45	3/4	1,772.97	3/4	2,117.49	3/4	2,462.01	3/4	2,806.53	3/4	3,150.87
2	72.06	2	416.45	2	760.96	2	1,092.80	2	1,435.62	2	1,780.14	2	2,124.66	2	2,469.18	2	2,813.70	2	3,158.04
1/4	79.22	1/4	423.63	1/4	768.14	1/4	1,099.70	1/4	1,442.80	1/4	1,787.32	1/4	2,131.84	1/4	2,476.36	1/4	2,820.88	1/4	3,165.21
1/2	86.37	1/2	430.81	1/2	775.31	1/2	1,106.59	1/2	1,449.98	1/2	1,794.50	1/2	2,139.02	1/2	2,483.54	1/2	2,828.06	1/2	3,172.39
3/4	93.53	3/4	437.98	3/4	782.49	3/4	1,113.48	3/4	1,457.16	3/4	1,801.68	3/4	2,146.20	3/4	2,490.72	3/4	2,835.24	3/4	3,179.56
3	100.68	3	445.16	3	789.67	3	1,120.38	3	1,464.33	3	1,808.85	3	2,153.37	3	2,497.89	3	2,842.41	3	3,186.73
1/4	107.85	1/4	452.34	1/4	796.69	1/4	1,127.42	1/4	1,471.51	1/4	1,816.03	1/4	2,160.55	1/4	2,505.07	1/4	2,849.59	1/4	3,193.91
1/2	115.02	1/2	459.52	1/2	803.72	1/2	1,134.45	1/2	1,478.69	1/2	1,823.21	1/2	2,167.73	1/2	2,512.25	1/2	2,856.76	1/2	3,201.08
3/4	122.20	3/4	466.69	3/4	810.74	3/4	1,141.49	3/4	1,485.87	3/4	1,830.39	3/4	2,174.91	3/4	2,519.43	3/4	2,863.93	3/4	3,208.25
4	129.37	4	473.87	4	817.77	4	1,148.52	4	1,493.04	4	1,837.56	4	2,182.08	4	2,526.60	4	2,871.10	4	3,215.43
1/4	136.54	1/4	481.05	1/4	824.64	1/4	1,155.70	1/4	1,500.22	1/4	1,844.74	1/4	2,189.26	1/4	2,533.78	1/4	2,878.28	1/4	3,222.60
1/2	143.72	1/2	488.23	1/2	831.52	1/2	1,162.88	1/2	1,507.40	1/2	1,851.92	1/2	2,196.44	1/2	2,540.96	1/2	2,885.45	1/2	3,229.77
3/4	150.90	3/4	495.40	3/4	838.39	3/4	1,170.06	3/4	1,514.58	3/4	1,859.10	3/4	2,203.62	3/4	2,548.14	3/4	2,892.62	3/4	3,236.95
5	158.07	5	502.58	5	845.26	5	1,177.23	5	1,521.75	5	1,866.27	5	2,210.79	5	2,555.31	5	2,899.80	5	3,244.12
1/4	165.25	1/4	509.76	1/4	852.14	1/4	1,184.41	1/4	1,528.93	1/4	1,873.45	1/4	2,217.97	1/4	2,562.49	1/4	2,906.97	1/4	3,251.29
1/2	172.43	1/2	516.93	1/2	859.01	1/2	1,191.59	1/2	1,536.11	1/2	1,880.63	1/2	2,225.15	1/2	2,569.67	1/2	2,914.14	1/2	3,258.47
3/4	179.61	3/4	524.11	3/4	865.88	3/4	1,198.77	3/4	1,543.29	3/4	1,887.81	3/4	2,232.33	3/4	2,576.85	3/4	2,921.32	3/4	3,265.64
6	186.78	6	531.29	6	872.76	6	1,205.94	6	1,550.46	6	1,894.98	6	2,239.50	6	2,584.02	6	2,928.49	6	3,272.81
1/4	193.96	1/4	538.47	1/4	879.63	1/4	1,213.12	1/4	1,557.64	1/4	1,902.16	1/4	2,246.68	1/4	2,591.20	1/4	2,935.66	1/4	3,279.99
1/2	201.14	1/2	545.64	1/2	886.50	1/2	1,220.30	1/2	1,564.82	1/2	1,909.34	1/2	2,253.86	1/2	2,598.38	1/2	2,942.84	1/2	3,287.16
3/4	208.31	3/4	552.82	3/4	893.38	3/4	1,227.48	3/4	1,572.00	3/4	1,916.52	3/4	2,261.04	3/4	2,605.56	3/4	2,950.01	3/4	3,294.33
7	215.49	7	560.00	7	900.25	7	1,234.65	7	1,579.17	7	1,923.69	7	2,268.21	7	2,612.73	7	2,957.18	7	3,301.51
1/4	222.67	1/4	567.17	1/4	907.12	1/4	1,241.83	1/4	1,586.35	1/4	1,930.87	1/4	2,275.39	1/4	2,619.91	1/4	2,964.36	1/4	3,308.68
1/2	229.85	1/2	574.35	1/2	914.00	1/2	1,249.01	1/2	1,593.53	1/2	1,938.05	1/2	2,282.57	1/2	2,627.09	1/2	2,971.53	1/2	3,315.85
3/4	237.02	3/4	581.53	3/4	920.87	3/4	1,256.19	3/4	1,600.71	3/4	1,945.23	3/4	2,289.75	3/4	2,634.27	3/4	2,978.70	3/4	3,323.03
8	244.20	8	588.71	8	927.74	8	1,263.36	8	1,607.88	8	1,952.40	8	2,296.92	8	2,641.44	8	2,985.88	8	3,330.20
1/4	251.38	1/4	595.88	1/4	934.62	1/4	1,270.54	1/4	1,615.06	1/4	1,959.58	1/4	2,304.10	1/4	2,648.62	1/4	2,993.05	1/4	3,337.37
1/2	258.55	1/2	603.06	1/2	941.49	1/2	1,277.72	1/2	1,622.24	1/2	1,966.76	1/2	2,311.28	1/2	2,655.80	1/2	3,000.22	1/2	3,344.55
3/4	265.73	3/4	610.24	3/4	948.36	3/4	1,284.90	3/4	1,629.42	3/4	1,973.94	3/4	2,318.46	3/4	2,662.98	3/4	3,007.40	3/4	3,351.72
9	272.91	9	617.41	9	955.24	9	1,292.07	9	1,636.59	9	1,981.11	9	2,325.63	9	2,670.15	9	3,014.57	9	3,358.89
1/4	280.09	1/4	624.59	1/4	962.11	1/4	1,299.25	1/4	1,643.77	1/4	1,988.29	1/4	2,332.81	1/4	2,677.33	1/4	3,021.74	1/4	3,366.07
1/2	287.26	1/2	631.77	1/2	968.98	1/2	1,306.43	1/2	1,650.95	1/2	1,995.47	1/2	2,339.99	1/2	2,684.51	1/2	3,028.92	1/2	3,373.24
3/4	294.44	3/4	638.95	3/4	975.86	3/4	1,313.61	3/4	1,658.13	3/4	2,002.65	3/4	2,347.17	3/4	2,691.69	3/4	3,036.09	3/4	3,380.41
10	301.62	10	646.12	10	982.73	10	1,320.78	10	1,665.30	10	2,009.82	10	2,354.34	10	2,698.86	10	3,043.26	10	3,387.59
1/4	308.80	1/4	653.30	1/4	989.60	1/4	1,327.96	1/4	1,672.48	1/4	2,017.00	1/4	2,361.52	1/4	2,706.04	1/4	3,050.44	1/4	3,394.76
1/2	315.97	1/2	660.48	1/2	996.48	1/2	1,335.14	1/2	1,679.66	1/2	2,024.18	1/2	2,368.70	1/2	2,713.22	1/2	3,057.61	1/2	3,401.93
3/4	323.15	3/4	667.66	3/4	1,003.35	3/4	1,342.32	3/4	1,686.84	3/4	2,031.36	3/4	2,375.88	3/4	2,720.40	3/4	3,064.78	3/4	3,409.11
11	330.33	11	674.83	11	1,010.22	11	1,349.49	11	1,694.01	11	2,038.53	11	2,383.05	11	2,727.57	11	3,071.96	11	3,416.28
1/4	337.50	1/4	682.01	1/4	1,017.10	1/4	1,356.67	1/4	1,701.19	1/4	2,045.71	1/4	2,390.23	1/4	2,734.75	1/4	3,079.13	1/4	3,423.45
1/2	344.68	1/2	689.19	1/2	1,023.98	1/2	1,363.85	1/2	1,708.37	1/2	2,052.89	1/2	2,397.41	1/2	2,741.93	1/2	3,086.30	1/2	3,430.63
3/4	351.86	3/4	696.36	3/4	1,030.85	3/4	1,371.03	3/4	1,715.55	3/4	2,060.07	3/4	2,404.59	3/4	2,749.11	3/4	3,093.48	3/4	3,437.80

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 317"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,444.97	0	3,789.30	0	4,130.96	0	4,455.00	0	4,767.90	0		0		0		0		0	
1/4	3,452.15	1/4	3,796.47	1/4	4,137.91	1/4	4,461.54	1/4	4,775.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,459.32	1/2	3,803.64	1/2	4,144.86	1/2	4,468.07	1/2	4,782.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,466.50	3/4	3,810.82	3/4	4,151.81	3/4	4,474.60	3/4	4,789.25	3/4		3/4		3/4		3/4		3/4	
1	3,473.67	1	3,817.99	1	4,158.76	1	4,481.13	1	4,796.36	1		1		1		1		1	
1/4	3,480.84	1/4	3,825.17	1/4	4,165.67	1/4	4,487.61	1/4	4,803.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,488.02	1/2	3,832.34	1/2	4,172.59	1/2	4,494.09	1/2	4,809.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,495.19	3/4	3,839.51	3/4	4,179.50	3/4	4,500.56	3/4	4,816.64	3/4		3/4		3/4		3/4		3/4	
2	3,502.36	2	3,846.69	2	4,186.42	2	4,507.04	2	4,823.39	2		2		2		2		2	
1/4	3,509.54	1/4	3,853.86	1/4	4,193.29	1/4	4,513.47	1/4	4,829.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,516.71	1/2	3,861.03	1/2	4,200.17	1/2	4,519.90	1/2	4,834.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,523.88	3/4	3,868.21	3/4	4,207.04	3/4	4,526.33	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,531.06	3	3,875.38	3	4,213.92	3	4,532.75	3		3		3		3		3		3	
1/4	3,538.23	1/4	3,882.55	1/4	4,220.74	1/4	4,539.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,545.40	1/2	3,889.73	1/2	4,227.57	1/2	4,545.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,552.58	3/4	3,896.90	3/4	4,234.40	3/4	4,551.94	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,559.75	4	3,904.07	4	4,241.23	4	4,558.34	4		4		4		4		4		4	
1/4	3,566.92	1/4	3,911.25	1/4	4,248.02	1/4	4,564.70	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,574.10	1/2	3,918.42	1/2	4,254.81	1/2	4,571.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,581.27	3/4	3,925.59	3/4	4,261.60	3/4	4,577.43	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,588.44	5	3,932.77	5	4,268.39	5	4,583.80	5		5		5		5		5		5	
1/4	3,595.62	1/4	3,939.93	1/4	4,275.15	1/4	4,590.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,602.79	1/2	3,947.10	1/2	4,281.92	1/2	4,596.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,609.96	3/4	3,954.27	3/4	4,288.68	3/4	4,602.79	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,617.14	6	3,961.44	6	4,295.44	6	4,609.13	6		6		6		6		6		6	
1/4	3,624.31	1/4	3,968.59	1/4	4,302.16	1/4	4,615.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,631.48	1/2	3,975.73	1/2	4,308.89	1/2	4,621.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,638.66	3/4	3,982.88	3/4	4,315.62	3/4	4,628.02	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,645.83	7	3,990.02	7	4,322.35	7	4,634.31	7		7		7		7		7		7	
1/4	3,653.00	1/4	3,997.14	1/4	4,329.05	1/4	4,640.58	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660.18	1/2	4,004.25	1/2	4,335.74	1/2	4,646.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,667.35	3/4	4,011.37	3/4	4,342.44	3/4	4,653.11	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,674.52	8	4,018.48	8	4,349.14	8	4,659.37	8		8		8		8		8		8	
1/4	3,681.70	1/4	4,025.56	1/4	4,355.80	1/4	4,665.60	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,688.87	1/2	4,032.65	1/2	4,362.47	1/2	4,671.84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,696.04	3/4	4,039.73	3/4	4,369.13	3/4	4,678.07	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,703.22	9	4,046.81	9	4,375.80	9	4,684.30	9		9		9		9		9		9	
1/4	3,710.39	1/4	4,053.86	1/4	4,382.43	1/4	4,690.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,717.56	1/2	4,060.91	1/2	4,389.06	1/2	4,697.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,724.74	3/4	4,067.95	3/4	4,395.70	3/4	4,704.30	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,731.91	10	4,075.00	10	4,402.33	10	4,710.97	10		10		10		10		10		10	
1/4	3,739.08	1/4	4,082.01	1/4	4,408.93	1/4	4,718.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,746.26	1/2	4,089.02	1/2	4,415.54	1/2	4,725.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,753.43	3/4	4,096.03	3/4	4,422.14	3/4	4,732.32	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,760.60	11	4,103.04	11	4,428.74	11	4,739.44	11		11		11		11		11		11	
1/4	3,767.78	1/4	4,110.02	1/4	4,435.31	1/4	4,746.55	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,774.95	1/2	4,117.00	1/2	4,441.87	1/2	4,753.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,782.12	3/4	4,123.98	3/4	4,448.44	3/4	4,760.78	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW  
CALCULATED: 09/18/2013 CL  
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CANCELS AND SUPERCEDES  
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Pearland, Texas 77588  
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BARGE "CTCo 317"

2 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 1/4"

Table with 18 columns (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.) and 41 rows of capacity data.

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE. GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CTCo 317"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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	3,458.89	0	3,803.21	0	4,144.88	0	4,468.92	0	4,781.81	0		0		0		0		0	
1/4	3,466.06	1/4	3,810.39	1/4	4,151.83	1/4	4,475.45	1/4	4,788.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,473.24	1/2	3,817.56	1/2	4,158.77	1/2	4,481.98	1/2	4,796.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,480.41	3/4	3,824.73	3/4	4,165.72	3/4	4,488.51	3/4	4,803.16	3/4		3/4		3/4		3/4		3/4	
1	3,487.58	1	3,831.91	1	4,172.67	1	4,495.04	1	4,810.28	1		1		1		1		1	
1/4	3,494.76	1/4	3,839.08	1/4	4,179.59	1/4	4,501.52	1/4	4,817.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,501.93	1/2	3,846.25	1/2	4,186.50	1/2	4,508.00	1/2	4,823.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,509.10	3/4	3,853.43	3/4	4,193.42	3/4	4,514.48	3/4	4,830.55	3/4		3/4		3/4		3/4		3/4	
2	3,516.28	2	3,860.60	2	4,200.33	2	4,520.96	2	4,837.31	2		2		2		2		2	
1/4	3,523.45	1/4	3,867.77	1/4	4,207.21	1/4	4,527.39	1/4	4,842.99	1/4		1/4		1/4		1/4		1/4	
1/2	3,530.62	1/2	3,874.95	1/2	4,214.08	1/2	4,533.81	1/2	4,848.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.80	3/4	3,882.12	3/4	4,220.96	3/4	4,540.24	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,544.97	3	3,889.29	3	4,227.83	3	4,546.67	3		3		3		3		3		3	
1/4	3,552.14	1/4	3,896.47	1/4	4,234.66	1/4	4,553.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,559.32	1/2	3,903.64	1/2	4,241.49	1/2	4,559.46	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,566.49	3/4	3,910.81	3/4	4,248.31	3/4	4,565.86	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,573.66	4	3,917.99	4	4,255.14	4	4,572.25	4		4		4		4		4		4	
1/4	3,580.84	1/4	3,925.16	1/4	4,261.93	1/4	4,578.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,588.01	1/2	3,932.33	1/2	4,268.73	1/2	4,584.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,595.18	3/4	3,939.51	3/4	4,275.52	3/4	4,591.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,602.36	5	3,946.68	5	4,282.31	5	4,597.71	5		5		5		5		5		5	
1/4	3,609.53	1/4	3,953.85	1/4	4,289.07	1/4	4,604.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,616.70	1/2	3,961.02	1/2	4,295.83	1/2	4,610.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,623.88	3/4	3,968.19	3/4	4,302.59	3/4	4,616.71	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,631.05	6	3,975.35	6	4,309.35	6	4,623.04	6		6		6		6		6		6	
1/4	3,638.22	1/4	3,982.50	1/4	4,316.08	1/4	4,629.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,645.40	1/2	3,989.65	1/2	4,322.81	1/2	4,635.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,652.57	3/4	3,996.79	3/4	4,329.53	3/4	4,641.93	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,659.74	7	4,003.94	7	4,336.26	7	4,648.23	7		7		7		7		7		7	
1/4	3,666.92	1/4	4,011.05	1/4	4,342.96	1/4	4,654.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,674.09	1/2	4,018.17	1/2	4,349.66	1/2	4,660.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,681.26	3/4	4,025.28	3/4	4,356.35	3/4	4,667.02	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,688.44	8	4,032.39	8	4,363.05	8	4,673.28	8		8		8		8		8		8	
1/4	3,695.61	1/4	4,039.48	1/4	4,369.72	1/4	4,679.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,702.78	1/2	4,046.56	1/2	4,376.38	1/2	4,685.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,709.96	3/4	4,053.64	3/4	4,383.05	3/4	4,691.98	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,717.13	9	4,060.73	9	4,389.71	9	4,698.22	9		9		9		9		9		9	
1/4	3,724.31	1/4	4,067.77	1/4	4,067.77	1/4	4,396.34	1/4	4,704.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,731.48	1/2	4,074.82	1/2	4,402.98	1/2	4,711.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,738.65	3/4	4,081.87	3/4	4,409.61	3/4	4,718.22	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,745.83	10	4,088.91	10	4,416.25	10	4,724.89	10		10		10		10		10		10	
1/4	3,753.00	1/4	4,095.92	1/4	4,422.85	1/4	4,732.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,760.17	1/2	4,102.94	1/2	4,429.45	1/2	4,739.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,767.35	3/4	4,109.95	3/4	4,436.05	3/4	4,746.23	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,774.52	11	4,116.96	11	4,442.65	11	4,753.35	11		11		11		11		11		11	
1/4	3,781.69	1/4	4,123.94	1/4	4,449.22	1/4	4,760.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,788.87	1/2	4,130.92	1/2	4,455.79	1/2	4,767.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,796.04	3/4	4,137.90	3/4	4,462.35	3/4	4,774.70	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

PRECISION MEASUREMENT  
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Pearland, Texas 77588  
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# BARGE "CTCo 317"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	25.08	0	379.90	0	744.28	0	1,100.73	0	1,461.91	0	1,826.11	0	2,188.17	0	2,550.25	0	2,914.19	0	3,277.95
1/4	30.78	1/4	387.49	1/4	751.87	1/4	1,108.10	1/4	1,469.50	1/4	1,833.69	1/4	2,195.69	1/4	2,557.84	1/4	2,921.77	1/4	3,285.52
1/2	36.48	1/2	395.08	1/2	759.46	1/2	1,115.46	1/2	1,477.09	1/2	1,841.28	1/2	2,203.21	1/2	2,565.42	1/2	2,929.35	1/2	3,293.10
3/4	42.18	3/4	402.67	3/4	767.05	3/4	1,122.83	3/4	1,484.67	3/4	1,848.87	3/4	2,210.74	3/4	2,573.01	3/4	2,936.93	3/4	3,300.68
1	47.88	1	410.26	1	774.64	1	1,130.19	1	1,492.26	1	1,856.46	1	2,218.26	1	2,580.60	1	2,944.52	1	3,308.26
1/4	54.99	1/4	417.85	1/4	782.23	1/4	1,137.56	1/4	1,499.85	1/4	1,864.04	1/4	2,225.79	1/4	2,588.19	1/4	2,952.10	1/4	3,315.82
1/2	62.10	1/2	425.44	1/2	789.83	1/2	1,144.93	1/2	1,507.44	1/2	1,871.63	1/2	2,233.31	1/2	2,595.77	1/2	2,959.68	1/2	3,323.39
3/4	69.21	3/4	433.03	3/4	797.42	3/4	1,152.31	3/4	1,515.02	3/4	1,879.22	3/4	2,240.84	3/4	2,603.36	3/4	2,967.26	3/4	3,330.96
2	76.32	2	440.62	2	805.01	2	1,159.68	2	1,522.61	2	1,886.81	2	2,248.36	2	2,610.95	2	2,974.84	2	3,338.52
1/4	83.90	1/4	448.21	1/4	812.60	1/4	1,167.05	1/4	1,530.20	1/4	1,894.39	1/4	2,255.89	1/4	2,618.53	1/4	2,982.42	1/4	3,346.08
1/2	91.47	1/2	455.80	1/2	820.19	1/2	1,174.43	1/2	1,537.78	1/2	1,901.98	1/2	2,263.41	1/2	2,626.12	1/2	2,990.00	1/2	3,353.64
3/4	99.05	3/4	463.39	3/4	827.78	3/4	1,181.81	3/4	1,545.37	3/4	1,909.57	3/4	2,270.93	3/4	2,633.71	3/4	2,997.58	3/4	3,361.19
3	106.63	3	470.98	3	835.38	3	1,189.18	3	1,552.96	3	1,917.15	3	2,278.46	3	2,641.30	3	3,005.16	3	3,368.75
1/4	114.22	1/4	478.57	1/4	842.85	1/4	1,196.67	1/4	1,560.55	1/4	1,924.71	1/4	2,286.00	1/4	2,648.88	1/4	3,012.73	1/4	3,376.31
1/2	121.81	1/2	486.16	1/2	850.33	1/2	1,204.15	1/2	1,568.13	1/2	1,932.27	1/2	2,293.53	1/2	2,656.46	1/2	3,020.31	1/2	3,383.86
3/4	129.40	3/4	493.75	3/4	857.80	3/4	1,211.63	3/4	1,575.72	3/4	1,939.82	3/4	2,301.07	3/4	2,664.05	3/4	3,027.89	3/4	3,391.42
4	136.99	4	501.35	4	865.27	4	1,219.11	4	1,583.31	4	1,947.38	4	2,308.61	4	2,671.63	4	3,035.47	4	3,398.98
1/4	144.58	1/4	508.94	1/4	872.63	1/4	1,226.70	1/4	1,590.90	1/4	1,954.91	1/4	2,316.16	1/4	2,679.21	1/4	3,043.05	1/4	3,406.53
1/2	152.17	1/2	516.53	1/2	879.99	1/2	1,234.29	1/2	1,598.48	1/2	1,962.43	1/2	2,323.70	1/2	2,686.79	1/2	3,050.62	1/2	3,414.09
3/4	159.76	3/4	524.12	3/4	887.35	3/4	1,241.88	3/4	1,606.07	3/4	1,969.95	3/4	2,331.25	3/4	2,694.37	3/4	3,058.20	3/4	3,421.65
5	167.36	5	531.71	5	894.70	5	1,249.46	5	1,613.66	5	1,977.48	5	2,338.80	5	2,701.95	5	3,065.78	5	3,429.20
1/4	174.95	1/4	539.30	1/4	902.06	1/4	1,257.05	1/4	1,621.25	1/4	1,985.00	1/4	2,346.35	1/4	2,709.53	1/4	3,073.36	1/4	3,436.76
1/2	182.54	1/2	546.90	1/2	909.42	1/2	1,264.64	1/2	1,628.83	1/2	1,992.53	1/2	2,353.90	1/2	2,717.11	1/2	3,080.93	1/2	3,444.32
3/4	190.13	3/4	554.49	3/4	916.78	3/4	1,272.23	3/4	1,636.42	3/4	2,000.05	3/4	2,361.45	3/4	2,724.69	3/4	3,088.51	3/4	3,451.87
6	197.72	6	562.08	6	924.14	6	1,279.81	6	1,644.01	6	2,007.58	6	2,369.00	6	2,732.27	6	3,096.09	6	3,459.43
1/4	205.32	1/4	569.67	1/4	931.49	1/4	1,287.40	1/4	1,651.60	1/4	2,015.10	1/4	2,376.55	1/4	2,739.85	1/4	3,103.67	1/4	3,466.99
1/2	212.91	1/2	577.26	1/2	938.85	1/2	1,294.99	1/2	1,659.18	1/2	2,022.63	1/2	2,384.10	1/2	2,747.43	1/2	3,111.24	1/2	3,474.54
3/4	220.50	3/4	584.85	3/4	946.21	3/4	1,302.58	3/4	1,666.77	3/4	2,030.15	3/4	2,391.64	3/4	2,755.01	3/4	3,118.82	3/4	3,482.10
7	228.09	7	592.44	7	953.57	7	1,310.16	7	1,674.36	7	2,037.68	7	2,399.19	7	2,762.59	7	3,126.40	7	3,489.66
1/4	235.68	1/4	600.04	1/4	960.92	1/4	1,317.75	1/4	1,681.95	1/4	2,045.20	1/4	2,406.74	1/4	2,770.17	1/4	3,133.98	1/4	3,497.21
1/2	243.27	1/2	607.63	1/2	968.28	1/2	1,325.34	1/2	1,689.53	1/2	2,052.72	1/2	2,414.29	1/2	2,777.75	1/2	3,141.55	1/2	3,504.77
3/4	250.86	3/4	615.22	3/4	975.64	3/4	1,332.92	3/4	1,697.12	3/4	2,060.25	3/4	2,421.84	3/4	2,785.33	3/4	3,149.13	3/4	3,512.33
8	258.45	8	622.81	8	983.00	8	1,340.51	8	1,704.71	8	2,067.77	8	2,429.39	8	2,792.91	8	3,156.71	8	3,519.88
1/4	266.04	1/4	630.40	1/4	990.35	1/4	1,348.10	1/4	1,712.29	1/4	2,075.30	1/4	2,436.94	1/4	2,800.49	1/4	3,164.29	1/4	3,527.44
1/2	273.63	1/2	637.99	1/2	997.71	1/2	1,355.69	1/2	1,719.88	1/2	2,082.82	1/2	2,444.49	1/2	2,808.07	1/2	3,171.86	1/2	3,535.00
3/4	281.22	3/4	645.59	3/4	1,005.07	3/4	1,363.27	3/4	1,727.47	3/4	2,090.35	3/4	2,452.04	3/4	2,815.65	3/4	3,179.44	3/4	3,542.55
9	288.82	9	653.18	9	1,012.43	9	1,370.86	9	1,735.06	9	2,097.87	9	2,459.58	9	2,823.23	9	3,187.02	9	3,550.11
1/4	296.41	1/4	660.77	1/4	1,019.78	1/4	1,378.45	1/4	1,742.64	1/4	2,105.40	1/4	2,467.13	1/4	2,830.81	1/4	3,194.59	1/4	3,557.67
1/2	304.00	1/2	668.36	1/2	1,027.14	1/2	1,386.04	1/2	1,750.23	1/2	2,112.92	1/2	2,474.68	1/2	2,838.39	1/2	3,202.17	1/2	3,565.24
3/4	311.59	3/4	675.95	3/4	1,034.50	3/4	1,393.62	3/4	1,757.82	3/4	2,120.44	3/4	2,482.23	3/4	2,845.97	3/4	3,209.75	3/4	3,572.80
10	319.18	10	683.54	10	1,041.86	10	1,401.21	10	1,765.41	10	2,127.97	10	2,489.78	10	2,853.55	10	3,217.33	10	3,580.36
1/4	326.77	1/4	691.14	1/4	1,049.21	1/4	1,408.80	1/4	1,772.99	1/4	2,135.49	1/4	2,497.33	1/4	2,861.13	1/4	3,224.90	1/4	3,587.93
1/2	334.36	1/2	698.73	1/2	1,056.57	1/2	1,416.39	1/2	1,780.58	1/2	2,143.02	1/2	2,504.88	1/2	2,868.71	1/2	3,232.48	1/2	3,595.50
3/4	341.95	3/4	706.32	3/4	1,063.93	3/4	1,423.97	3/4	1,788.17	3/4	2,150.54	3/4	2,512.43	3/4	2,876.29	3/4	3,240.06	3/4	3,603.06
11	349.54	11	713.91	11	1,071.29	11	1,431.56	11	1,795.76	11	2,158.07	11	2,519.98	11	2,883.87	11	3,247.64	11	3,610.63
1/4	357.13	1/4	721.50	1/4	1,078.65	1/4	1,439.15	1/4	1,803.34	1/4	2,165.59	1/4	2,527.54	1/4	2,891.45	1/4	3,255.21	1/4	3,617.63
1/2	364.72	1/2	729.09	1/2	1,086.01	1/2	1,446.74	1/2	1,810.93	1/2	2,173.12	1/2	2,535.11	1/2	2,899.03	1/2	3,262.79	1/2	3,624.63
3/4	372.31	3/4	736.69	3/4	1,093.37	3/4	1,454.32	3/4	1,818.52	3/4	2,180.64	3/4	2,542.68	3/4	2,906.61	3/4	3,270.37	3/4	3,631.62

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" 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 "CTCo 317"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 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	3,638.62	0	3,892.95	0	4,142.99	0	4,380.18	0	4,609.30	0		0		0		0		0	
1/4	3,644.45	1/4	3,898.20	1/4	4,148.07	1/4	4,384.96	1/4	4,614.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,650.29	1/2	3,903.45	1/2	4,153.16	1/2	4,389.74	1/2	4,619.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.13	3/4	3,908.70	3/4	4,158.24	3/4	4,394.52	3/4	4,624.93	3/4		3/4		3/4		3/4		3/4	
1	3,661.96	1	3,913.95	1	4,163.32	1	4,399.30	1	4,630.14	1		1		1		1		1	
1/4	3,667.21	1/4	3,919.20	1/4	4,168.39	1/4	4,404.05	1/4	4,634.97	1/4		1/4		1/4		1/4		1/4	
1/2	3,672.46	1/2	3,924.45	1/2	4,173.45	1/2	4,408.79	1/2	4,639.80	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.71	3/4	3,929.70	3/4	4,178.51	3/4	4,413.54	3/4	4,644.63	3/4		3/4		3/4		3/4		3/4	
2	3,682.96	2	3,934.95	2	4,183.57	2	4,418.28	2	4,649.46	2		2		2		2		2	
1/4	3,688.21	1/4	3,940.20	1/4	4,188.60	1/4	4,422.99	1/4	4,653.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,693.46	1/2	3,945.45	1/2	4,193.63	1/2	4,427.69	1/2	4,656.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,698.71	3/4	3,950.70	3/4	4,198.66	3/4	4,432.40	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,703.96	3	3,955.95	3	4,203.70	3	4,437.11	3		3		3		3		3		3	
1/4	3,709.21	1/4	3,961.20	1/4	4,208.69	1/4	4,441.79	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,714.46	1/2	3,966.45	1/2	4,213.69	1/2	4,446.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,719.71	3/4	3,971.70	3/4	4,218.69	3/4	4,451.16	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,724.96	4	3,976.95	4	4,223.69	4	4,455.84	4		4		4		4		4		4	
1/4	3,730.21	1/4	3,982.20	1/4	4,228.66	1/4	4,460.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,735.46	1/2	3,987.45	1/2	4,233.63	1/2	4,465.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,740.71	3/4	3,992.70	3/4	4,238.60	3/4	4,469.83	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,745.96	5	3,997.95	5	4,243.58	5	4,474.49	5		5		5		5		5		5	
1/4	3,751.21	1/4	4,003.19	1/4	4,248.52	1/4	4,479.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,756.46	1/2	4,008.44	1/2	4,253.47	1/2	4,483.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,761.71	3/4	4,013.68	3/4	4,258.42	3/4	4,488.40	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,766.96	6	4,018.93	6	4,263.37	6	4,493.04	6		6		6		6		6		6	
1/4	3,772.21	1/4	4,024.15	1/4	4,268.30	1/4	4,497.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,777.46	1/2	4,029.38	1/2	4,273.22	1/2	4,502.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,782.71	3/4	4,034.61	3/4	4,278.15	3/4	4,506.87	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,787.96	7	4,039.84	7	4,283.07	7	4,511.48	7		7		7		7		7		7	
1/4	3,793.21	1/4	4,045.05	1/4	4,287.97	1/4	4,516.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,798.46	1/2	4,050.26	1/2	4,292.88	1/2	4,520.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,803.71	3/4	4,055.46	3/4	4,297.78	3/4	4,525.24	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,808.96	8	4,060.67	8	4,302.68	8	4,529.83	8		8		8		8		8		8	
1/4	3,814.21	1/4	4,065.85	1/4	4,307.56	1/4	4,534.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,819.46	1/2	4,071.03	1/2	4,312.44	1/2	4,538.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,824.70	3/4	4,076.22	3/4	4,317.32	3/4	4,543.52	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,829.95	9	4,081.40	9	4,322.20	9	4,548.09	9		9		9		9		9		9	
1/4	3,835.20	1/4	4,086.56	1/4	4,327.05	1/4	4,552.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,840.45	1/2	4,091.72	1/2	4,331.91	1/2	4,557.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,845.70	3/4	4,096.87	3/4	4,336.77	3/4	4,562.73	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,850.95	10	4,102.03	10	4,341.62	10	4,567.62	10		10		10		10		10		10	
1/4	3,856.20	1/4	4,107.16	1/4	4,346.46	1/4	4,572.83	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,861.45	1/2	4,112.29	1/2	4,351.29	1/2	4,578.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,866.70	3/4	4,117.42	3/4	4,356.12	3/4	4,583.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,871.95	11	4,122.55	11	4,360.95	11	4,588.46	11		11		11		11		11		11	
1/4	3,877.20	1/4	4,127.66	1/4	4,365.76	1/4	4,593.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,882.45	1/2	4,132.77	1/2	4,370.57	1/2	4,598.88	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,887.70	3/4	4,137.88	3/4	4,375.37	3/4	4,604.09	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW  
CALCULATED: 09/18/2013 CL  
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

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



# BARGE "CTCo 317"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	25.08	0	380.33	0	745.29	0	1,109.76	0	1,474.68	0	1,839.66	0	2,204.63	0	2,569.60	0	2,934.33	0	3,298.86
1/4	30.78	1/4	387.93	1/4	752.89	1/4	1,117.36	1/4	1,482.29	1/4	1,847.26	1/4	2,212.23	1/4	2,577.21	1/4	2,941.92	1/4	3,306.45
1/2	36.48	1/2	395.54	1/2	760.50	1/2	1,124.95	1/2	1,489.89	1/2	1,854.86	1/2	2,219.84	1/2	2,584.81	1/2	2,949.52	1/2	3,314.05
3/4	42.18	3/4	403.14	3/4	768.10	3/4	1,132.55	3/4	1,497.50	3/4	1,862.47	3/4	2,227.44	3/4	2,592.41	3/4	2,957.12	3/4	3,321.64
1	47.88	1	410.74	1	775.70	1	1,140.14	1	1,505.10	1	1,870.07	1	2,235.04	1	2,600.02	1	2,964.71	1	3,329.23
1/4	54.99	1/4	418.35	1/4	783.31	1/4	1,147.74	1/4	1,512.70	1/4	1,877.68	1/4	2,242.65	1/4	2,607.62	1/4	2,972.31	1/4	3,336.82
1/2	62.10	1/2	425.95	1/2	790.91	1/2	1,155.34	1/2	1,520.31	1/2	1,885.28	1/2	2,250.25	1/2	2,615.22	1/2	2,979.90	1/2	3,344.40
3/4	69.21	3/4	433.55	3/4	798.51	3/4	1,162.94	3/4	1,527.91	3/4	1,892.88	3/4	2,257.86	3/4	2,622.83	3/4	2,987.50	3/4	3,351.99
2	76.32	2	441.16	2	806.12	2	1,170.54	2	1,535.51	2	1,900.49	2	2,265.46	2	2,630.43	2	2,995.10	2	3,359.57
1/4	83.90	1/4	448.76	1/4	813.72	1/4	1,178.14	1/4	1,543.12	1/4	1,908.09	1/4	2,273.06	1/4	2,638.04	1/4	3,002.69	1/4	3,367.14
1/2	91.48	1/2	456.36	1/2	821.32	1/2	1,185.75	1/2	1,550.72	1/2	1,915.69	1/2	2,280.67	1/2	2,645.64	1/2	3,010.29	1/2	3,374.72
3/4	99.06	3/4	463.97	3/4	828.93	3/4	1,193.35	3/4	1,558.32	3/4	1,923.30	3/4	2,288.27	3/4	2,653.24	3/4	3,017.89	3/4	3,382.29
3	106.64	3	471.57	3	836.53	3	1,200.95	3	1,565.93	3	1,930.90	3	2,295.87	3	2,660.85	3	3,025.48	3	3,389.86
1/4	114.24	1/4	479.17	1/4	844.13	1/4	1,208.56	1/4	1,573.53	1/4	1,938.50	1/4	2,303.48	1/4	2,668.45	1/4	3,033.08	1/4	3,397.43
1/2	121.83	1/2	486.78	1/2	851.72	1/2	1,216.16	1/2	1,581.13	1/2	1,946.11	1/2	2,311.08	1/2	2,676.05	1/2	3,040.67	1/2	3,405.01
3/4	129.43	3/4	494.38	3/4	859.32	3/4	1,223.77	3/4	1,588.74	3/4	1,953.71	3/4	2,318.68	3/4	2,683.65	3/4	3,048.27	3/4	3,412.58
4	137.03	4	501.98	4	866.92	4	1,231.37	4	1,596.34	4	1,961.31	4	2,326.29	4	2,691.25	4	3,055.87	4	3,420.15
1/4	144.63	1/4	509.59	1/4	874.51	1/4	1,238.97	1/4	1,603.95	1/4	1,968.92	1/4	2,333.89	1/4	2,698.84	1/4	3,063.46	1/4	3,427.73
1/2	152.23	1/2	517.19	1/2	882.09	1/2	1,246.58	1/2	1,611.55	1/2	1,976.52	1/2	2,341.49	1/2	2,706.44	1/2	3,071.05	1/2	3,435.30
3/4	159.84	3/4	524.79	3/4	889.68	3/4	1,254.18	3/4	1,619.15	3/4	1,984.13	3/4	2,349.10	3/4	2,714.03	3/4	3,078.65	3/4	3,442.87
5	167.44	5	532.40	5	897.27	5	1,262.78	5	1,626.76	5	1,991.73	5	2,356.70	5	2,721.63	5	3,086.24	5	3,450.45
1/4	175.04	1/4	540.00	1/4	904.86	1/4	1,269.39	1/4	1,634.36	1/4	1,999.33	1/4	2,364.31	1/4	2,729.23	1/4	3,093.83	1/4	3,458.02
1/2	182.64	1/2	547.60	1/2	912.45	1/2	1,276.99	1/2	1,641.96	1/2	2,006.94	1/2	2,371.91	1/2	2,736.82	1/2	3,101.43	1/2	3,465.59
3/4	190.25	3/4	555.21	3/4	920.04	3/4	1,284.59	3/4	1,649.57	3/4	2,014.54	3/4	2,379.51	3/4	2,744.42	3/4	3,109.02	3/4	3,473.16
6	197.85	6	562.81	6	927.62	6	1,292.20	6	1,657.17	6	2,022.14	6	2,387.12	6	2,752.02	6	3,116.61	6	3,480.74
1/4	205.45	1/4	570.41	1/4	935.21	1/4	1,299.80	1/4	1,664.77	1/4	2,029.75	1/4	2,394.72	1/4	2,759.61	1/4	3,124.21	1/4	3,488.31
1/2	213.06	1/2	578.02	1/2	942.80	1/2	1,307.41	1/2	1,672.38	1/2	2,037.35	1/2	2,402.32	1/2	2,767.21	1/2	3,131.80	1/2	3,495.88
3/4	220.66	3/4	585.62	3/4	950.39	3/4	1,315.01	3/4	1,679.98	3/4	2,044.95	3/4	2,409.93	3/4	2,774.80	3/4	3,139.39	3/4	3,503.46
7	228.26	7	593.22	7	957.98	7	1,322.61	7	1,687.59	7	2,052.56	7	2,417.53	7	2,782.40	7	3,146.99	7	3,511.03
1/4	235.87	1/4	600.83	1/4	965.57	1/4	1,330.22	1/4	1,695.19	1/4	2,060.16	1/4	2,425.13	1/4	2,790.00	1/4	3,154.58	1/4	3,518.60
1/2	243.47	1/2	608.43	1/2	973.15	1/2	1,337.82	1/2	1,702.79	1/2	2,067.77	1/2	2,432.74	1/2	2,797.59	1/2	3,162.18	1/2	3,526.17
3/4	251.07	3/4	616.03	3/4	980.74	3/4	1,345.42	3/4	1,710.40	3/4	2,075.37	3/4	2,440.34	3/4	2,805.19	3/4	3,169.77	3/4	3,533.75
8	258.68	8	623.64	8	988.33	8	1,353.03	8	1,718.00	8	2,082.97	8	2,447.95	8	2,812.79	8	3,177.36	8	3,541.32
1/4	266.28	1/4	631.24	1/4	995.92	1/4	1,360.63	1/4	1,725.60	1/4	2,090.58	1/4	2,455.55	1/4	2,820.38	1/4	3,184.96	1/4	3,548.89
1/2	273.88	1/2	638.84	1/2	1,003.51	1/2	1,368.23	1/2	1,733.21	1/2	2,098.18	1/2	2,463.15	1/2	2,827.98	1/2	3,192.55	1/2	3,556.47
3/4	281.49	3/4	646.45	3/4	1,011.10	3/4	1,375.84	3/4	1,740.81	3/4	2,105.78	3/4	2,470.76	3/4	2,835.58	3/4	3,200.14	3/4	3,564.04
9	289.09	9	654.05	9	1,018.68	9	1,383.44	9	1,748.41	9	2,113.39	9	2,478.36	9	2,843.17	9	3,207.74	9	3,571.61
1/4	296.69	1/4	661.65	1/4	1,026.27	1/4	1,391.04	1/4	1,756.02	1/4	2,120.99	1/4	2,485.96	1/4	2,850.77	1/4	3,215.33	1/4	3,579.18
1/2	304.30	1/2	669.26	1/2	1,033.86	1/2	1,398.65	1/2	1,763.62	1/2	2,128.59	1/2	2,493.57	1/2	2,858.36	1/2	3,222.92	1/2	3,586.76
3/4	311.90	3/4	676.86	3/4	1,041.45	3/4	1,406.25	3/4	1,771.22	3/4	2,136.20	3/4	2,501.17	3/4	2,865.96	3/4	3,230.52	3/4	3,594.33
10	319.50	10	684.46	10	1,049.04	10	1,413.86	10	1,778.83	10	2,143.80	10	2,508.77	10	2,873.56	10	3,238.11	10	3,601.90
1/4	327.11	1/4	692.07	1/4	1,056.63	1/4	1,421.46	1/4	1,786.43	1/4	2,151.40	1/4	2,516.38	1/4	2,881.15	1/4	3,245.71	1/4	3,609.48
1/2	334.71	1/2	699.67	1/2	1,064.21	1/2	1,429.06	1/2	1,794.04	1/2	2,159.01	1/2	2,523.98	1/2	2,888.75	1/2	3,253.30	1/2	3,617.05
3/4	342.31	3/4	707.27	3/4	1,071.80	3/4	1,436.67	3/4	1,801.64	3/4	2,166.61	3/4	2,531.58	3/4	2,896.35	3/4	3,260.89	3/4	3,624.62
11	349.92	11	714.88	11	1,079.39	11	1,444.27	11	1,809.24	11	2,174.22	11	2,539.19	11	2,903.94	11	3,268.49	11	3,632.19
1/4	357.52	1/4	722.48	1/4	1,086.98	1/4	1,451.87	1/4	1,816.85	1/4	2,181.82	1/4	2,546.79	1/4	2,911.54	1/4	3,276.08	1/4	3,639.19
1/2	365.12	1/2	730.08	1/2	1,094.58	1/2	1,459.48	1/2	1,824.45	1/2	2,189.42	1/2	2,554.40	1/2	2,919.13	1/2	3,283.67	1/2	3,646.19
3/4	372.73	3/4	737.69	3/4	1,102.17	3/4	1,467.08	3/4	1,832.05	3/4	2,197.03	3/4	2,562.00	3/4	2,926.73	3/4	3,291.27	3/4	3,653.19

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" 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 "CTCo 317"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,660.19	0	3,914.51	0	4,164.53	0	4,401.71	0	4,630.81	0		0		0		0		0	
1/4	3,666.03	1/4	3,919.76	1/4	4,169.61	1/4	4,406.49	1/4	4,636.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,671.86	1/2	3,925.01	1/2	4,174.70	1/2	4,411.27	1/2	4,641.23	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.70	3/4	3,930.26	3/4	4,179.78	3/4	4,416.05	3/4	4,646.44	3/4		3/4		3/4		3/4		3/4	
1	3,683.54	1	3,935.51	1	4,184.87	1	4,420.83	1	4,651.65	1		1		1		1		1	
1/4	3,688.79	1/4	3,940.76	1/4	4,189.93	1/4	4,425.57	1/4	4,656.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,694.03	1/2	3,946.01	1/2	4,194.99	1/2	4,430.32	1/2	4,661.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.28	3/4	3,951.26	3/4	4,200.05	3/4	4,435.06	3/4	4,666.15	3/4		3/4		3/4		3/4		3/4	
2	3,704.53	2	3,956.50	2	4,205.11	2	4,439.81	2	4,670.98	2		2		2		2		2	
1/4	3,709.78	1/4	3,961.75	1/4	4,210.14	1/4	4,444.51	1/4	4,674.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,715.03	1/2	3,967.00	1/2	4,215.17	1/2	4,449.22	1/2	4,678.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,720.28	3/4	3,972.25	3/4	4,220.21	3/4	4,453.93	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,725.53	3	3,977.50	3	4,225.24	3	4,458.63	3		3		3		3		3		3	
1/4	3,730.78	1/4	3,982.75	1/4	4,230.23	1/4	4,463.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,736.03	1/2	3,988.00	1/2	4,235.23	1/2	4,468.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,741.28	3/4	3,993.25	3/4	4,240.23	3/4	4,472.68	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,746.53	4	3,998.50	4	4,245.23	4	4,477.37	4		4		4		4		4		4	
1/4	3,751.78	1/4	4,003.75	1/4	4,250.20	1/4	4,482.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,757.03	1/2	4,009.00	1/2	4,255.17	1/2	4,486.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,762.28	3/4	4,014.25	3/4	4,260.14	3/4	4,491.35	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,767.53	5	4,019.50	5	4,265.11	5	4,496.01	5		5		5		5		5		5	
1/4	3,772.78	1/4	4,024.74	1/4	4,270.06	1/4	4,500.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,778.02	1/2	4,029.99	1/2	4,275.01	1/2	4,505.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,783.27	3/4	4,035.23	3/4	4,279.96	3/4	4,509.92	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,788.52	6	4,040.48	6	4,284.91	6	4,514.56	6		6		6		6		6		6	
1/4	3,793.77	1/4	4,045.71	1/4	4,289.83	1/4	4,519.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,799.02	1/2	4,050.93	1/2	4,294.76	1/2	4,523.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,804.27	3/4	4,056.16	3/4	4,299.68	3/4	4,528.39	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,809.52	7	4,061.39	7	4,304.61	7	4,533.00	7		7		7		7		7		7	
1/4	3,814.77	1/4	4,066.60	1/4	4,309.51	1/4	4,537.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,820.02	1/2	4,071.81	1/2	4,314.41	1/2	4,542.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,825.27	3/4	4,077.01	3/4	4,319.31	3/4	4,546.76	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,830.52	8	4,082.22	8	4,324.22	8	4,551.35	8		8		8		8		8		8	
1/4	3,835.77	1/4	4,087.40	1/4	4,329.09	1/4	4,555.91	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,841.02	1/2	4,092.58	1/2	4,333.97	1/2	4,560.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,846.27	3/4	4,097.77	3/4	4,338.85	3/4	4,565.04	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,851.52	9	4,102.95	9	4,343.73	9	4,569.60	9		9		9		9		9		9	
1/4	3,856.77	1/4	4,108.11	1/4	4,348.59	1/4	4,574.49	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,862.02	1/2	4,113.26	1/2	4,353.44	1/2	4,579.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,867.26	3/4	4,118.42	3/4	4,358.30	3/4	4,584.25	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,872.51	10	4,123.58	10	4,363.15	10	4,589.13	10		10		10		10		10		10	
1/4	3,877.76	1/4	4,128.71	1/4	4,367.99	1/4	4,594.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,883.01	1/2	4,133.84	1/2	4,372.82	1/2	4,599.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,888.26	3/4	4,138.97	3/4	4,377.65	3/4	4,604.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,893.51	11	4,144.10	11	4,382.48	11	4,609.97	11		11		11		11		11		11	
1/4	3,898.76	1/4	4,149.21	1/4	4,387.29	1/4	4,615.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,904.01	1/2	4,154.31	1/2	4,392.10	1/2	4,620.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,909.26	3/4	4,159.42	3/4	4,396.90	3/4	4,625.60	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/18/2013 SW  
CALCULATED: 09/18/2013 CL  
PRINTED: 09/18/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2013

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



# BARGE "CTCo 317"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	171	0	342	0	513	0	684	0		0		0		0		0	
1/4	4	1/4	174	1/4	345	1/4	516	1/4	687	1/4		1/4		1/4		1/4		1/4	
1/2	7	1/2	178	1/2	349	1/2	520	1/2	691	1/2		1/2		1/2		1/2		1/2	
3/4	11	3/4	182	3/4	352	3/4	523	3/4	694	3/4		3/4		3/4		3/4		3/4	
1	14	1	185	1	356	1	527	1	698	1		1		1		1		1	
1/4	18	1/4	189	1/4	360	1/4	531	1/4	701	1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	192	1/2	363	1/2	534	1/2	705	1/2		1/2		1/2		1/2		1/2	
3/4	25	3/4	196	3/4	367	3/4	538	3/4	709	3/4		3/4		3/4		3/4		3/4	
2	28	2	199	2	370	2	541	2	712	2		2		2		2		2	
1/4	32	1/4	203	1/4	374	1/4	545	1/4	716	1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	207	1/2	377	1/2	548	1/2	719	1/2		1/2		1/2		1/2		1/2	
3/4	39	3/4	210	3/4	381	3/4	552	3/4	723	3/4		3/4		3/4		3/4		3/4	
3	43	3	214	3	385	3	555	3	726	3		3		3		3		3	
1/4	46	1/4	217	1/4	388	1/4	559	1/4	730	1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	221	1/2	392	1/2	563	1/2	733	1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	224	3/4	395	3/4	566	3/4	737	3/4		3/4		3/4		3/4		3/4	
4	57	4	228	4	399	4	570	4	741	4		4		4		4		4	
1/4	61	1/4	231	1/4	402	1/4	573	1/4	744	1/4		1/4		1/4		1/4		1/4	
1/2	64	1/2	235	1/2	406	1/2	577	1/2	748	1/2		1/2		1/2		1/2		1/2	
3/4	68	3/4	239	3/4	409	3/4	580	3/4	751	3/4		3/4		3/4		3/4		3/4	
5	71	5	242	5	413	5	584	5	755	5		5		5		5		5	
1/4	75	1/4	246	1/4	417	1/4	587	1/4	758	1/4		1/4		1/4		1/4		1/4	
1/2	78	1/2	249	1/2	420	1/2	591	1/2	762	1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	253	3/4	424	3/4	595	3/4	766	3/4		3/4		3/4		3/4		3/4	
6	85	6	256	6	427	6	598	6	769	6		6		6		6		6	
1/4	89	1/4	260	1/4	431	1/4	602	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	93	1/2	263	1/2	434	1/2	605	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	96	3/4	267	3/4	438	3/4	609	3/4		3/4		3/4		3/4		3/4		3/4	
7	100	7	271	7	442	7	612	7		7		7		7		7		7	
1/4	103	1/4	274	1/4	445	1/4	616	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	107	1/2	278	1/2	449	1/2	620	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	110	3/4	281	3/4	452	3/4	623	3/4		3/4		3/4		3/4		3/4		3/4	
8	114	8	285	8	456	8	627	8		8		8		8		8		8	
1/4	117	1/4	288	1/4	459	1/4	630	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121	1/2	292	1/2	463	1/2	634	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125	3/4	296	3/4	466	3/4	637	3/4		3/4		3/4		3/4		3/4		3/4	
9	128	9	299	9	470	9	641	9		9		9		9		9		9	
1/4	132	1/4	303	1/4	474	1/4	644	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	306	1/2	477	1/2	648	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139	3/4	310	3/4	481	3/4	652	3/4		3/4		3/4		3/4		3/4		3/4	
10	142	10	313	10	484	10	655	10		10		10		10		10		10	
1/4	146	1/4	317	1/4	488	1/4	659	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150	1/2	320	1/2	491	1/2	662	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153	3/4	324	3/4	495	3/4	666	3/4		3/4		3/4		3/4		3/4		3/4	
11	157	11	328	11	498	11	669	11		11		11		11		11		11	
1/4	160	1/4	331	1/4	502	1/4	673	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164	1/2	335	1/2	506	1/2	676	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167	3/4	338	3/4	509	3/4	680	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT MANWAY.

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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "CTCo 317"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,210	0	4,199	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT GAUGE POINT.  
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# BARGE "CTCo 317"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,210	0	4,199	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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