



# BARGE "CTCo 345"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 236'-09"

May 20, 2016

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CTCo 345"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	4,497.37	0	4,253.77	0	3,996.65	0	3,730.73	0	3,417.88	0	3,058.13	0	2,697.90	0	2,338.21		2,338.21
1/4		1/4	4,248.44	1/4	4,492.44	1/4	4,248.55	1/4	3,991.15	1/4	3,725.18	1/4	3,410.40	1/4	3,050.63	1/4	2,690.39	1/4	2,330.74
1/2		1/2	4,723.28	1/2	4,487.51	1/2	4,243.33	1/2	3,985.66	1/2	3,719.64	1/2	3,402.92	1/2	3,043.12	1/2	2,682.89	1/2	2,323.26
3/4		3/4	4,720.29	3/4	4,482.56	3/4	4,238.10	3/4	3,980.15	3/4	3,714.09	3/4	3,395.44	3/4	3,035.62	3/4	2,675.38	3/4	2,315.79
1	1	1	4,717.29	1	4,477.61	1	4,232.86	1	3,974.64	1	3,708.54	1	3,387.95	1	3,028.12	1	2,667.88	1	2,308.32
1/4		1/4	4,714.29	1/4	4,472.66	1/4	4,227.62	1/4	3,969.12	1/4	3,703.00	1/4	3,380.47	1/4	3,020.62	1/4	2,660.37	1/4	2,300.84
1/2		1/2	4,711.29	1/2	4,467.71	1/2	4,222.38	1/2	3,963.61	1/2	3,697.45	1/2	3,372.99	1/2	3,013.11	1/2	2,652.87	1/2	2,293.37
3/4		3/4	4,706.62	3/4	4,462.74	3/4	4,217.12	3/4	3,958.08	3/4	3,691.91	3/4	3,365.51	3/4	3,005.61	3/4	2,645.36	3/4	2,285.89
2	2	2	4,701.95	2	4,457.77	2	4,211.86	2	3,952.54	2	3,686.36	2	3,358.03	2	2,998.11	2	2,637.85	2	2,278.42
1/4		1/4	4,697.28	1/4	4,452.80	1/4	4,206.61	1/4	3,947.01	1/4	3,680.82	1/4	3,350.54	1/4	2,990.61	1/4	2,630.35	1/4	2,270.94
1/2		1/2	4,692.61	1/2	4,447.83	1/2	4,201.35	1/2	3,941.47	1/2	3,675.27	1/2	3,343.06	1/2	2,983.10	1/2	2,622.84	1/2	2,263.47
3/4		3/4	4,687.10	3/4	4,442.84	3/4	4,196.07	3/4	3,935.93	3/4	3,669.72	3/4	3,335.58	3/4	2,975.60	3/4	2,615.33	3/4	2,256.02
3	3	3	4,681.60	3	4,437.85	3	4,190.78	3	3,930.38	3	3,664.18	3	3,328.10	3	2,968.09	3	2,607.82	3	2,248.57
1/4		1/4	4,676.09	1/4	4,432.85	1/4	4,185.50	1/4	3,924.83	1/4	3,658.63	1/4	3,320.62	1/4	2,960.59	1/4	2,600.31	1/4	2,241.12
1/2		1/2	4,670.58	1/2	4,427.86	1/2	4,180.22	1/2	3,919.29	1/2	3,653.09	1/2	3,313.13	1/2	2,953.08	1/2	2,592.79	1/2	2,233.67
3/4		3/4	4,665.08	3/4	4,422.85	3/4	4,174.90	3/4	3,913.74	3/4	3,647.54	3/4	3,305.65	3/4	2,945.58	3/4	2,585.28	3/4	2,226.22
4	4	4	4,659.57	4	4,417.83	4	4,169.59	4	3,908.20	4	3,641.99	4	3,298.17	4	2,938.07	4	2,577.77	4	2,218.77
1/4		1/4	4,654.06	1/4	4,412.82	1/4	4,164.27	1/4	3,902.65	1/4	3,636.45	1/4	3,290.69	1/4	2,930.56	1/4	2,570.26	1/4	2,211.32
1/2		1/2	4,648.56	1/2	4,407.80	1/2	4,158.95	1/2	3,897.11	1/2	3,630.90	1/2	3,283.21	1/2	2,923.06	1/2	2,562.74	1/2	2,203.87
3/4		3/4	4,643.05	3/4	4,402.74	3/4	4,153.61	3/4	3,891.56	3/4	3,625.36	3/4	3,275.70	3/4	2,915.55	3/4	2,555.23	3/4	2,196.42
5	5	5	4,637.54	5	4,397.68	5	4,148.27	5	3,886.01	5	3,619.81	5	3,268.20	5	2,908.05	5	2,547.72	5	2,188.97
1/4		1/4	4,632.04	1/4	4,392.61	1/4	4,142.93	1/4	3,880.47	1/4	3,614.26	1/4	3,260.70	1/4	2,900.54	1/4	2,540.20	1/4	2,181.52
1/2		1/2	4,626.53	1/2	4,387.55	1/2	4,137.60	1/2	3,874.92	1/2	3,608.72	1/2	3,253.20	1/2	2,893.04	1/2	2,532.69	1/2	2,174.07
3/4		3/4	4,621.02	3/4	4,382.46	3/4	4,132.24	3/4	3,869.38	3/4	3,602.18	3/4	3,245.69	3/4	2,885.53	3/4	2,525.18	3/4	2,166.62
6	6	6	4,615.52	6	4,377.38	6	4,126.87	6	3,863.83	6	3,595.65	6	3,238.19	6	2,878.03	6	2,517.67	6	2,159.17
1/4		1/4	4,610.01	1/4	4,372.29	1/4	4,121.51	1/4	3,858.28	1/4	3,589.11	1/4	3,230.69	1/4	2,870.52	1/4	2,510.15	1/4	2,151.73
1/2		1/2	4,604.50	1/2	4,367.21	1/2	4,116.15	1/2	3,852.74	1/2	3,582.58	1/2	3,223.19	1/2	2,863.02	1/2	2,502.64	1/2	2,144.28
3/4		3/4	4,599.68	3/4	4,362.10	3/4	4,110.77	3/4	3,847.19	3/4	3,575.09	3/4	3,215.68	3/4	2,855.51	3/4	2,495.17	3/4	2,136.83
7	7	7	4,594.86	7	4,356.99	7	4,105.39	7	3,841.65	7	3,567.59	7	3,208.18	7	2,848.01	7	2,487.69	7	2,129.38
1/4		1/4	4,590.04	1/4	4,351.89	1/4	4,100.00	1/4	3,836.10	1/4	3,560.10	1/4	3,200.68	1/4	2,840.50	1/4	2,480.22	1/4	2,121.93
1/2		1/2	4,585.22	1/2	4,346.78	1/2	4,094.62	1/2	3,830.55	1/2	3,552.61	1/2	3,193.18	1/2	2,832.99	1/2	2,472.75	1/2	2,114.48
3/4		3/4	4,580.38	3/4	4,341.65	3/4	4,089.22	3/4	3,825.01	3/4	3,545.11	3/4	3,185.67	3/4	2,825.49	3/4	2,465.27	3/4	2,107.03
8	8	8	4,575.53	8	4,336.52	8	4,083.81	8	3,819.46	8	3,537.62	8	3,178.17	8	2,817.98	8	2,457.80	8	2,099.58
1/4		1/4	4,570.69	1/4	4,331.39	1/4	4,078.41	1/4	3,813.92	1/4	3,530.12	1/4	3,170.67	1/4	2,810.48	1/4	2,450.32	1/4	2,092.13
1/2		1/2	4,565.85	1/2	4,326.27	1/2	4,073.00	1/2	3,808.37	1/2	3,522.63	1/2	3,163.17	1/2	2,802.97	1/2	2,442.85	1/2	2,084.68
3/4		3/4	4,560.98	3/4	4,321.11	3/4	4,067.58	3/4	3,802.82	3/4	3,515.15	3/4	3,155.66	3/4	2,795.47	3/4	2,435.38	3/4	2,077.23
9	9	9	4,556.12	9	4,315.96	9	4,062.15	9	3,797.28	9	3,507.67	9	3,148.16	9	2,787.96	9	2,427.90	9	2,069.78
1/4		1/4	4,551.25	1/4	4,310.81	1/4	4,056.73	1/4	3,791.73	1/4	3,500.18	1/4	3,140.66	1/4	2,780.46	1/4	2,420.43	1/4	2,062.33
1/2		1/2	4,546.39	1/2	4,305.66	1/2	4,051.30	1/2	3,786.19	1/2	3,492.70	1/2	3,133.15	1/2	2,772.95	1/2	2,412.95	1/2	2,054.88
3/4		3/4	4,541.50	3/4	4,300.49	3/4	4,045.85	3/4	3,780.64	3/4	3,485.22	3/4	3,125.65	3/4	2,765.45	3/4	2,405.48	3/4	2,047.43
10	10	10	4,536.62	10	4,295.32	10	4,040.40	10	3,775.10	10	3,477.74	10	3,118.15	10	2,757.94	10	2,398.00	10	2,039.98
1/4		1/4	4,531.73	1/4	4,290.15	1/4	4,034.96	1/4	3,769.55	1/4	3,470.26	1/4	3,110.65	1/4	2,750.44	1/4	2,390.53	1/4	2,032.53
1/2		1/2	4,526.84	1/2	4,284.97	1/2	4,029.51	1/2	3,764.00	1/2	3,462.77	1/2	3,103.14	1/2	2,742.93	1/2	2,383.06	1/2	2,025.08
3/4		3/4	4,521.94	3/4	4,279.78	3/4	4,024.04	3/4	3,758.46	3/4	3,455.29	3/4	3,095.64	3/4	2,735.42	3/4	2,375.58	3/4	2,017.63
11	11	11	4,517.03	11	4,274.59	11	4,018.57	11	3,752.91	11	3,447.81	11	3,088.14	11	2,727.92	11	2,368.11	11	2,010.18
1/4		1/4	4,512.13	1/4	4,269.39	1/4	4,013.10	1/4	3,747.37	1/4	3,440.33	1/4	3,080.64	1/4	2,720.41	1/4	2,360.63	1/4	2,002.73
1/2		1/2	4,507.22	1/2	4,264.20	1/2	4,007.63	1/2	3,741.82	1/2	3,432.85	1/2	3,073.13	1/2	2,712.91	1/2	2,353.16	1/2	1,995.28
3/4		3/4	4,502.29	3/4	4,258.98	3/4	4,002.14	3/4	3,736.27	3/4	3,425.36	3/4	3,065.63	3/4	2,705.40	3/4	2,345.69	3/4	1,987.83

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CTCo 345"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,980.38	0	1,620.40	0	1,259.78	0	907.69	0	549.22	0	188.45	0		0		0		0	
1/4	1,972.93	1/4	1,612.89	1/4	1,252.27	1/4	900.41	1/4	541.71	1/4	180.94	1/4				1/4		1/4	
1/2	1,965.48	1/2	1,605.37	1/2	1,244.76	1/2	893.13	1/2	534.19	1/2	173.42	1/2				1/2		1/2	
3/4	1,958.03	3/4	1,597.86	3/4	1,237.25	3/4	885.84	3/4	526.67	3/4	165.90	3/4				3/4		3/4	
1	1,950.58	1	1,590.35	1	1,229.73	1	878.56	1	519.16	1	158.39	1				1		1	
1/4	1,943.13	1/4	1,582.83	1/4	1,222.22	1/4	871.28	1/4	511.64	1/4	150.87	1/4				1/4		1/4	
1/2	1,935.68	1/2	1,575.32	1/2	1,214.71	1/2	863.99	1/2	504.12	1/2	143.35	1/2				1/2		1/2	
3/4	1,928.23	3/4	1,567.81	3/4	1,207.19	3/4	856.71	3/4	496.61	3/4	135.83	3/4				3/4		3/4	
2	1,920.78	2	1,560.30	2	1,199.68	2	849.43	2	489.09	2	128.31	2				2		2	
1/4	1,913.33	1/4	1,552.78	1/4	1,192.17	1/4	842.14	1/4	481.57	1/4	120.79	1/4				1/4		1/4	
1/2	1,905.89	1/2	1,545.27	1/2	1,184.66	1/2	834.86	1/2	474.06	1/2	113.28	1/2				1/2		1/2	
3/4	1,898.37	3/4	1,537.76	3/4	1,177.35	3/4	827.35	3/4	466.54	3/4	105.75	3/4				3/4		3/4	
3	1,890.86	3	1,530.25	3	1,170.05	3	819.83	3	459.02	3	98.23	3				3		3	
1/4	1,883.35	1/4	1,522.73	1/4	1,162.75	1/4	812.31	1/4	451.51	1/4	90.70	1/4				1/4		1/4	
1/2	1,875.83	1/2	1,515.22	1/2	1,155.45	1/2	804.79	1/2	443.99	1/2	83.18	1/2				1/2		1/2	
3/4	1,868.32	3/4	1,507.71	3/4	1,148.14	3/4	797.28	3/4	436.48	3/4	75.66	3/4				3/4		3/4	
4	1,860.81	4	1,500.19	4	1,140.84	4	789.76	4	428.96	4	68.54	4				4		4	
1/4	1,853.30	1/4	1,492.68	1/4	1,133.54	1/4	782.24	1/4	421.45	1/4	61.22	1/4				1/4		1/4	
1/2	1,845.78	1/2	1,485.17	1/2	1,126.24	1/2	774.73	1/2	413.93	1/2	53.90	1/2				1/2		1/2	
3/4	1,838.27	3/4	1,477.66	3/4	1,118.95	3/4	767.21	3/4	406.42	3/4	46.05	3/4				3/4		3/4	
5	1,830.76	5	1,470.14	5	1,111.66	5	759.69	5	398.90	5	42.19	5				5		5	
1/4	1,823.24	1/4	1,462.63	1/4	1,104.37	1/4	752.18	1/4	391.38	1/4	36.34	1/4				1/4		1/4	
1/2	1,815.73	1/2	1,455.12	1/2	1,097.08	1/2	744.66	1/2	383.87	1/2	30.48	1/2				1/2		1/2	
3/4	1,808.22	3/4	1,447.60	3/4	1,089.79	3/4	737.14	3/4	376.35	3/4	26.30	3/4				3/4		3/4	
6	1,800.71	6	1,440.09	6	1,082.50	6	729.63	6	368.84	6	22.12	6				6		6	
1/4	1,793.19	1/4	1,432.58	1/4	1,075.21	1/4	722.11	1/4	361.32	1/4	17.93	1/4				1/4		1/4	
1/2	1,785.68	1/2	1,425.07	1/2	1,067.91	1/2	714.59	1/2	353.81	1/2	13.75	1/2				1/2		1/2	
3/4	1,778.17	3/4	1,417.55	3/4	1,060.63	3/4	707.08	3/4	346.29	3/4		3/4				3/4		3/4	
7	1,770.65	7	1,410.04	7	1,053.35	7	699.56	7	338.77	7		7				7		7	
1/4	1,763.14	1/4	1,402.53	1/4	1,046.07	1/4	692.04	1/4	331.26	1/4		1/4				1/4		1/4	
1/2	1,755.63	1/2	1,395.01	1/2	1,038.78	1/2	684.53	1/2	323.74	1/2		1/2				1/2		1/2	
3/4	1,748.12	3/4	1,387.50	3/4	1,031.50	3/4	677.01	3/4	316.23	3/4		3/4				3/4		3/4	
8	1,740.60	8	1,379.99	8	1,024.22	8	669.49	8	308.71	8		8				8		8	
1/4	1,733.09	1/4	1,372.48	1/4	1,016.93	1/4	661.98	1/4	301.20	1/4		1/4				1/4		1/4	
1/2	1,725.58	1/2	1,364.96	1/2	1,009.65	1/2	654.46	1/2	293.68	1/2		1/2				1/2		1/2	
3/4	1,718.07	3/4	1,357.45	3/4	1,002.37	3/4	646.94	3/4	286.17	3/4		3/4				3/4		3/4	
9	1,710.55	9	1,349.94	9	995.09	9	639.43	9	278.65	9		9				9		9	
1/4	1,703.04	1/4	1,342.43	1/4	987.80	1/4	631.91	1/4	271.13	1/4		1/4				1/4		1/4	
1/2	1,695.53	1/2	1,334.91	1/2	980.52	1/2	624.39	1/2	263.62	1/2		1/2				1/2		1/2	
3/4	1,688.01	3/4	1,327.40	3/4	973.24	3/4	616.87	3/4	256.10	3/4		3/4				3/4		3/4	
10	1,680.50	10	1,319.89	10	965.95	10	609.36	10	248.59	10		10				10		10	
1/4	1,672.99	1/4	1,312.37	1/4	958.67	1/4	601.84	1/4	241.07	1/4		1/4				1/4		1/4	
1/2	1,665.48	1/2	1,304.86	1/2	951.39	1/2	594.32	1/2	233.56	1/2		1/2				1/2		1/2	
3/4	1,657.96	3/4	1,297.35	3/4	944.11	3/4	586.81	3/4	226.04	3/4		3/4				3/4		3/4	
11	1,650.45	11	1,289.84	11	936.82	11	579.29	11	218.52	11		11				11		11	
1/4	1,642.94	1/4	1,282.32	1/4	929.54	1/4	571.77	1/4	211.01	1/4		1/4				1/4		1/4	
1/2	1,635.42	1/2	1,274.81	1/2	922.26	1/2	564.26	1/2	203.49	1/2		1/2				1/2		1/2	
3/4	1,627.91	3/4	1,267.30	3/4	914.97	3/4	556.74	3/4	195.97	3/4		3/4				3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

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



# BARGE "CTCo 345"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,497.32	0	4,253.73	0	3,996.63	0	3,730.72	0	3,417.88	0	3,058.13	0	2,697.90	0	2,338.21
1/4		1/4		1/4	4,492.39	1/4	4,248.52	1/4	3,991.13	1/4	3,725.17	1/4	3,410.40	1/4	3,050.63	1/4	2,690.39	1/4	2,330.73
1/2		1/2		1/2	4,723.22	1/2	4,487.47	1/2	4,243.30	1/2	3,985.64	1/2	3,719.63	1/2	3,402.92	1/2	3,043.12	1/2	2,682.89
3/4		3/4		3/4	4,720.22	3/4	4,482.52	3/4	4,238.06	3/4	3,980.13	3/4	3,714.08	3/4	3,395.44	3/4	3,035.62	3/4	2,675.38
1		1		1	4,717.23	1	4,477.57	1	4,232.83	1	3,974.62	1	3,708.54	1	3,387.95	1	3,028.12	1	2,667.87
1/4		1/4		1/4	4,714.23	1/4	4,472.62	1/4	4,227.59	1/4	3,969.10	1/4	3,702.99	1/4	3,380.47	1/4	3,020.61	1/4	2,660.37
1/2		1/2		1/2	4,711.23	1/2	4,467.67	1/2	4,222.35	1/2	3,963.59	1/2	3,697.44	1/2	3,372.99	1/2	3,013.11	1/2	2,652.86
3/4		3/4		3/4	4,706.56	3/4	4,462.70	3/4	4,217.09	3/4	3,958.06	3/4	3,691.90	3/4	3,365.51	3/4	3,005.61	3/4	2,645.36
2		2		2	4,701.89	2	4,457.73	2	4,211.83	2	3,952.52	2	3,686.35	2	3,358.03	2	2,998.11	2	2,637.85
1/4		1/4		1/4	4,697.22	1/4	4,452.76	1/4	4,206.58	1/4	3,946.99	1/4	3,680.81	1/4	3,350.54	1/4	2,990.60	1/4	2,630.35
1/2		1/2		1/2	4,692.55	1/2	4,447.79	1/2	4,201.32	1/2	3,941.45	1/2	3,675.26	1/2	3,343.06	1/2	2,983.10	1/2	2,622.84
3/4		3/4		3/4	4,687.05	3/4	4,442.80	3/4	4,196.04	3/4	3,935.91	3/4	3,669.72	3/4	3,335.58	3/4	2,975.60	3/4	2,615.33
3		3		3	4,681.54	3	4,437.80	3	4,190.75	3	3,930.36	3	3,664.17	3	3,328.10	3	2,968.09	3	2,607.82
1/4		1/4		1/4	4,676.03	1/4	4,432.81	1/4	4,185.47	1/4	3,924.81	1/4	3,658.63	1/4	3,320.62	1/4	2,960.59	1/4	2,600.30
1/2		1/2		1/2	4,670.53	1/2	4,427.82	1/2	4,180.19	1/2	3,919.27	1/2	3,653.08	1/2	3,313.13	1/2	2,953.08	1/2	2,592.79
3/4		3/4		3/4	4,665.02	3/4	4,422.80	3/4	4,174.88	3/4	3,913.72	3/4	3,647.53	3/4	3,305.65	3/4	2,945.57	3/4	2,585.28
4		4		4	4,659.51	4	4,417.79	4	4,169.56	4	3,908.18	4	3,641.99	4	3,298.17	4	2,938.07	4	2,577.77
1/4		1/4		1/4	4,654.01	1/4	4,412.78	1/4	4,164.24	1/4	3,902.63	1/4	3,636.44	1/4	3,290.69	1/4	2,930.56	1/4	2,570.25
1/2		1/2		1/2	4,648.50	1/2	4,407.76	1/2	4,158.92	1/2	3,897.09	1/2	3,630.90	1/2	3,283.21	1/2	2,923.06	1/2	2,562.74
3/4		3/4		3/4	4,642.99	3/4	4,402.70	3/4	4,153.59	3/4	3,891.54	3/4	3,625.35	3/4	3,275.70	3/4	2,915.55	3/4	2,555.23
5		5		5	4,637.49	5	4,397.64	5	4,148.25	5	3,885.99	5	3,619.81	5	3,268.20	5	2,908.05	5	2,547.72
1/4		1/4		1/4	4,631.98	1/4	4,392.57	1/4	4,142.91	1/4	3,880.45	1/4	3,614.26	1/4	3,260.70	1/4	2,900.54	1/4	2,540.20
1/2		1/2		1/2	4,626.48	1/2	4,387.51	1/2	4,137.57	1/2	3,874.90	1/2	3,608.71	1/2	3,253.20	1/2	2,893.04	1/2	2,532.69
3/4		3/4		3/4	4,620.97	3/4	4,382.42	3/4	4,132.21	3/4	3,869.36	3/4	3,602.18	3/4	3,245.69	3/4	2,885.53	3/4	2,525.18
6		6		6	4,615.46	6	4,377.34	6	4,126.85	6	3,863.81	6	3,595.65	6	3,238.19	6	2,878.03	6	2,517.66
1/4		1/4		1/4	4,609.96	1/4	4,372.25	1/4	4,121.49	1/4	3,858.27	1/4	3,589.11	1/4	3,230.69	1/4	2,870.52	1/4	2,510.15
1/2		1/2		1/2	4,604.45	1/2	4,367.17	1/2	4,116.13	1/2	3,852.72	1/2	3,582.58	1/2	3,223.18	1/2	2,863.02	1/2	2,502.64
3/4		3/4		3/4	4,599.63	3/4	4,362.06	3/4	4,110.74	3/4	3,847.18	3/4	3,575.08	3/4	3,215.68	3/4	2,855.51	3/4	2,495.17
7		7		7	4,594.81	7	4,356.96	7	4,105.36	7	3,841.63	7	3,567.59	7	3,208.18	7	2,848.00	7	2,487.69
1/4		1/4		1/4	4,589.99	1/4	4,351.85	1/4	4,099.98	1/4	3,836.08	1/4	3,560.10	1/4	3,200.68	1/4	2,840.50	1/4	2,480.22
1/2		1/2		1/2	4,585.17	1/2	4,346.74	1/2	4,094.60	1/2	3,830.54	1/2	3,552.60	1/2	3,193.17	1/2	2,832.99	1/2	2,472.74
3/4		3/4		3/4	4,580.32	3/4	4,341.61	3/4	4,089.19	3/4	3,824.99	3/4	3,545.11	3/4	3,185.67	3/4	2,825.49	3/4	2,465.27
8		8		8	4,575.48	8	4,336.49	8	4,083.79	8	3,819.45	8	3,537.62	8	3,178.17	8	2,817.98	8	2,457.79
1/4		1/4		1/4	4,570.64	1/4	4,331.36	1/4	4,078.38	1/4	3,813.90	1/4	3,530.12	1/4	3,170.67	1/4	2,810.48	1/4	2,450.32
1/2		1/2		1/2	4,565.80	1/2	4,326.23	1/2	4,072.98	1/2	3,808.36	1/2	3,522.63	1/2	3,163.16	1/2	2,802.97	1/2	2,442.85
3/4		3/4		3/4	4,560.93	3/4	4,321.08	3/4	4,067.55	3/4	3,802.81	3/4	3,515.15	3/4	3,155.66	3/4	2,795.47	3/4	2,435.37
9		9		9	4,556.07	9	4,315.93	9	4,062.13	9	3,797.27	9	3,507.67	9	3,148.16	9	2,787.96	9	2,427.90
1/4		1/4		1/4	4,551.20	1/4	4,310.78	1/4	4,056.70	1/4	3,791.72	1/4	3,500.18	1/4	3,140.66	1/4	2,780.46	1/4	2,420.42
1/2		1/2		1/2	4,546.34	1/2	4,305.63	1/2	4,051.28	1/2	3,786.17	1/2	3,492.70	1/2	3,133.15	1/2	2,772.95	1/2	2,412.95
3/4		3/4		3/4	4,541.45	3/4	4,300.46	3/4	4,045.83	3/4	3,780.63	3/4	3,485.22	3/4	3,125.65	3/4	2,765.45	3/4	2,405.47
10		10		10	4,536.57	10	4,295.28	10	4,040.38	10	3,775.08	10	3,477.74	10	3,118.15	10	2,757.94	10	2,398.00
1/4		1/4		1/4	4,531.68	1/4	4,290.11	1/4	4,034.93	1/4	3,769.54	1/4	3,470.26	1/4	3,110.65	1/4	2,750.43	1/4	2,390.53
1/2		1/2		1/2	4,526.79	1/2	4,284.94	1/2	4,029.49	1/2	3,763.99	1/2	3,462.77	1/2	3,103.14	1/2	2,742.93	1/2	2,383.05
3/4		3/4		3/4	4,521.89	3/4	4,279.75	3/4	4,024.02	3/4	3,758.45	3/4	3,455.29	3/4	3,095.64	3/4	2,735.42	3/4	2,375.58
11		11		11	4,516.98	11	4,274.55	11	4,018.55	11	3,752.90	11	3,447.81	11	3,088.14	11	2,727.92	11	2,368.10
1/4		1/4		1/4	4,512.08	1/4	4,269.36	1/4	4,013.08	1/4	3,747.35	1/4	3,440.33	1/4	3,080.64	1/4	2,720.41	1/4	2,360.63
1/2		1/2		1/2	4,507.17	1/2	4,264.16	1/2	4,007.61	1/2	3,741.81	1/2	3,432.85	1/2	3,073.13	1/2	2,712.91	1/2	2,353.16
3/4		3/4		3/4	4,502.25	3/4	4,258.95	3/4	4,002.12	3/4	3,736.26	3/4	3,425.36	3/4	3,065.63	3/4	2,705.40	3/4	2,345.68

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CTCo 345"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,980.37	0	1,620.39	0	1,259.78	0	907.69	0	549.22	0	188.45	0		0		0		0	
1/4	1,972.92	1/4	1,612.88	1/4	1,252.27	1/4	900.41	1/4	541.71	1/4	180.94	1/4		1/4		1/4		1/4	
1/2	1,965.47	1/2	1,605.37	1/2	1,244.76	1/2	893.13	1/2	534.19	1/2	173.42	1/2		1/2		1/2		1/2	
3/4	1,958.02	3/4	1,597.85	3/4	1,237.24	3/4	885.84	3/4	526.67	3/4	165.90	3/4		3/4		3/4		3/4	
1	1,950.57	1	1,590.34	1	1,229.73	1	878.56	1	519.16	1	158.39	1		1		1		1	
1/4	1,943.12	1/4	1,582.83	1/4	1,222.22	1/4	871.28	1/4	511.64	1/4	150.87	1/4		1/4		1/4		1/4	
1/2	1,935.67	1/2	1,575.32	1/2	1,214.71	1/2	863.99	1/2	504.12	1/2	143.35	1/2		1/2		1/2		1/2	
3/4	1,928.22	3/4	1,567.80	3/4	1,207.19	3/4	856.71	3/4	496.61	3/4	135.83	3/4		3/4		3/4		3/4	
2	1,920.77	2	1,560.29	2	1,199.68	2	849.43	2	489.09	2	128.31	2		2		2		2	
1/4	1,913.32	1/4	1,552.78	1/4	1,192.17	1/4	842.15	1/4	481.57	1/4	120.79	1/4		1/4		1/4		1/4	
1/2	1,905.87	1/2	1,545.26	1/2	1,184.66	1/2	834.86	1/2	474.06	1/2	113.28	1/2		1/2		1/2		1/2	
3/4	1,898.36	3/4	1,537.75	3/4	1,177.35	3/4	827.35	3/4	466.54	3/4	105.75	3/4		3/4		3/4		3/4	
3	1,890.85	3	1,530.24	3	1,170.05	3	819.83	3	459.02	3	98.23	3		3		3		3	
1/4	1,883.34	1/4	1,522.73	1/4	1,162.75	1/4	812.31	1/4	451.51	1/4	90.70	1/4		1/4		1/4		1/4	
1/2	1,875.82	1/2	1,515.21	1/2	1,155.45	1/2	804.80	1/2	443.99	1/2	83.18	1/2		1/2		1/2		1/2	
3/4	1,868.31	3/4	1,507.70	3/4	1,148.14	3/4	797.28	3/4	436.48	3/4	75.66	3/4		3/4		3/4		3/4	
4	1,860.80	4	1,500.19	4	1,140.84	4	789.76	4	428.96	4	68.54	4		4		4		4	
1/4	1,853.29	1/4	1,492.68	1/4	1,133.54	1/4	782.24	1/4	421.45	1/4	61.22	1/4		1/4		1/4		1/4	
1/2	1,845.77	1/2	1,485.16	1/2	1,126.24	1/2	774.73	1/2	413.93	1/2	53.90	1/2		1/2		1/2		1/2	
3/4	1,838.26	3/4	1,477.65	3/4	1,118.95	3/4	767.21	3/4	406.42	3/4	46.05	3/4		3/4		3/4		3/4	
5	1,830.75	5	1,470.14	5	1,111.66	5	759.69	5	398.90	5	42.19	5		5		5		5	
1/4	1,823.23	1/4	1,462.63	1/4	1,104.37	1/4	752.18	1/4	391.38	1/4	36.34	1/4		1/4		1/4		1/4	
1/2	1,815.72	1/2	1,455.11	1/2	1,097.08	1/2	744.66	1/2	383.87	1/2	30.48	1/2		1/2		1/2		1/2	
3/4	1,808.21	3/4	1,447.60	3/4	1,089.79	3/4	737.14	3/4	376.35	3/4	26.30	3/4		3/4		3/4		3/4	
6	1,800.70	6	1,440.09	6	1,082.50	6	729.63	6	368.84	6	22.12	6		6		6		6	
1/4	1,793.18	1/4	1,432.57	1/4	1,075.21	1/4	722.11	1/4	361.32	1/4	17.93	1/4		1/4		1/4		1/4	
1/2	1,785.67	1/2	1,425.06	1/2	1,067.92	1/2	714.59	1/2	353.81	1/2	13.75	1/2		1/2		1/2		1/2	
3/4	1,778.16	3/4	1,417.55	3/4	1,060.63	3/4	707.08	3/4	346.29	3/4		3/4		3/4		3/4		3/4	
7	1,770.65	7	1,410.04	7	1,053.35	7	699.56	7	338.78	7		7		7		7		7	
1/4	1,763.13	1/4	1,402.52	1/4	1,046.07	1/4	692.04	1/4	331.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,755.62	1/2	1,395.01	1/2	1,038.78	1/2	684.53	1/2	323.74	1/2		1/2		1/2		1/2		1/2	
3/4	1,748.11	3/4	1,387.50	3/4	1,031.50	3/4	677.01	3/4	316.23	3/4		3/4		3/4		3/4		3/4	
8	1,740.60	8	1,379.99	8	1,024.22	8	669.49	8	308.71	8		8		8		8		8	
1/4	1,733.08	1/4	1,372.47	1/4	1,016.93	1/4	661.98	1/4	301.20	1/4		1/4		1/4		1/4		1/4	
1/2	1,725.57	1/2	1,364.96	1/2	1,009.65	1/2	654.46	1/2	293.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,718.06	3/4	1,357.45	3/4	1,002.37	3/4	646.94	3/4	286.17	3/4		3/4		3/4		3/4		3/4	
9	1,710.54	9	1,349.93	9	995.09	9	639.43	9	278.65	9		9		9		9		9	
1/4	1,703.03	1/4	1,342.42	1/4	987.80	1/4	631.91	1/4	271.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,695.52	1/2	1,334.91	1/2	980.52	1/2	624.39	1/2	263.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,688.01	3/4	1,327.40	3/4	973.24	3/4	616.88	3/4	256.10	3/4		3/4		3/4		3/4		3/4	
10	1,680.49	10	1,319.88	10	965.95	10	609.36	10	248.59	10		10		10		10		10	
1/4	1,672.98	1/4	1,312.37	1/4	958.67	1/4	601.84	1/4	241.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,665.47	1/2	1,304.86	1/2	951.39	1/2	594.32	1/2	233.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,657.96	3/4	1,297.35	3/4	944.11	3/4	586.81	3/4	226.04	3/4		3/4		3/4		3/4		3/4	
11	1,650.44	11	1,289.83	11	936.82	11	579.29	11	218.52	11		11		11		11		11	
1/4	1,642.93	1/4	1,282.32	1/4	929.54	1/4	571.77	1/4	211.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,635.42	1/2	1,274.81	1/2	922.26	1/2	564.26	1/2	203.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,627.90	3/4	1,267.29	3/4	914.97	3/4	556.74	3/4	195.97	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

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



# BARGE "CTCo 345"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	5,225.06	0	4,861.79	0	4,483.58	0	4,095.57	0	3,707.20	0	3,318.83	0	2,930.31	0	2,541.74
1/4		1/4		1/4	5,217.65	1/4	4,854.06	1/4	4,475.55	1/4	4,087.48	1/4	3,699.11	1/4	3,310.74	1/4	2,922.21	1/4	2,533.65
1/2		1/2		1/2	5,210.24	1/2	4,846.33	1/2	4,467.51	1/2	4,079.39	1/2	3,691.02	1/2	3,302.65	1/2	2,914.12	1/2	2,525.55
3/4		3/4		3/4	5,557.73	3/4	5,202.83	3/4	4,838.60	3/4	4,459.48	3/4	4,071.30	3/4	3,682.93	3/4	3,294.55	3/4	2,906.02
1	1	1	1	1	5,195.40	1	4,830.85	1	4,451.43	1	4,063.21	1	3,674.84	1	3,286.46	1	2,897.93	1	2,509.36
1/4		1/4		1/4	5,547.06	1/4	5,187.96	1/4	4,823.10	1/4	4,443.37	1/4	4,055.12	1/4	3,676.74	1/4	3,278.37	1/4	2,889.83
1/2		1/2		1/2	5,541.72	1/2	5,180.53	1/2	4,815.34	1/2	4,435.31	1/2	4,047.03	1/2	3,658.65	1/2	3,270.28	1/2	2,881.74
3/4		3/4		3/4	5,536.39	3/4	5,173.10	3/4	4,807.59	3/4	4,427.26	3/4	4,038.94	3/4	3,650.56	3/4	3,262.19	3/4	2,873.64
2	2	2	2	2	5,529.25	2	5,165.64	2	4,799.81	2	4,419.18	2	4,030.84	2	3,642.47	2	3,254.10	2	2,865.55
1/4		1/4		1/4	5,522.12	1/4	5,158.18	1/4	4,792.04	1/4	4,411.10	1/4	4,022.75	1/4	3,634.38	1/4	3,246.01	1/4	2,857.45
1/2		1/2		1/2	5,514.98	1/2	5,150.73	1/2	4,784.26	1/2	4,403.02	1/2	4,014.66	1/2	3,626.29	1/2	3,237.92	1/2	2,849.36
3/4		3/4		3/4	5,507.85	3/4	5,143.27	3/4	4,776.48	3/4	4,394.94	3/4	4,006.57	3/4	3,618.20	3/4	3,229.83	3/4	2,841.26
3	3	3	3	3	5,499.82	3	5,135.79	3	4,768.68	3	4,386.85	3	3,998.48	3	3,610.11	3	3,221.73	3	2,833.17
1/4		1/4		1/4	5,491.78	1/4	5,128.31	1/4	4,760.88	1/4	4,378.76	1/4	3,990.39	1/4	3,602.02	1/4	3,213.64	1/4	2,825.07
1/2		1/2		1/2	5,483.75	1/2	5,120.83	1/2	4,753.08	1/2	4,370.67	1/2	3,982.30	1/2	3,593.92	1/2	3,205.54	1/2	2,816.98
3/4		3/4		3/4	5,475.72	3/4	5,113.35	3/4	4,745.28	3/4	4,362.58	3/4	3,974.21	3/4	3,585.83	3/4	3,197.45	3/4	2,808.88
4	4	4	4	4	5,467.68	4	5,105.85	4	4,737.44	4	4,354.49	4	3,966.12	4	3,577.74	4	3,189.35	4	2,800.79
1/4		1/4		1/4	5,459.65	1/4	5,098.35	1/4	4,729.59	1/4	4,346.40	1/4	3,958.02	1/4	3,569.65	1/4	3,181.25	1/4	2,792.69
1/2		1/2		1/2	5,451.61	1/2	5,090.85	1/2	4,721.75	1/2	4,338.31	1/2	3,949.93	1/2	3,561.56	1/2	3,173.16	1/2	2,784.59
3/4		3/4		3/4	5,443.58	3/4	5,083.34	3/4	4,713.90	3/4	4,330.22	3/4	3,941.84	3/4	3,553.47	3/4	3,165.06	3/4	2,776.50
5	5	5	5	5	5,435.55	5	5,075.78	5	4,706.03	5	4,322.12	5	3,933.75	5	3,545.38	5	3,156.97	5	2,768.40
1/4		1/4		1/4	5,427.51	1/4	5,068.21	1/4	4,698.16	1/4	4,314.03	1/4	3,925.66	1/4	3,537.29	1/4	3,148.87	1/4	2,760.31
1/2		1/2		1/2	5,419.48	1/2	5,060.64	1/2	4,690.30	1/2	4,305.94	1/2	3,917.57	1/2	3,529.20	1/2	3,140.78	1/2	2,752.21
3/4		3/4		3/4	5,411.45	3/4	5,053.08	3/4	4,682.43	3/4	4,297.85	3/4	3,909.48	3/4	3,521.11	3/4	3,132.68	3/4	2,744.12
6	6	6	6	6	5,403.41	6	5,045.49	6	4,674.53	6	4,289.76	6	3,901.39	6	3,513.01	6	3,124.59	6	2,736.02
1/4		1/4		1/4	5,395.38	1/4	5,037.90	1/4	4,666.64	1/4	4,281.67	1/4	3,893.30	1/4	3,504.92	1/4	3,116.49	1/4	2,727.93
1/2		1/2		1/2	5,387.35	1/2	5,030.31	1/2	4,658.75	1/2	4,273.58	1/2	3,885.20	1/2	3,496.83	1/2	3,108.40	1/2	2,719.83
3/4		3/4		3/4	5,379.31	3/4	5,022.72	3/4	4,650.86	3/4	4,265.49	3/4	3,877.11	3/4	3,488.74	3/4	3,100.30	3/4	2,711.74
7	7	7	7	7	5,372.02	7	5,015.11	7	4,642.94	7	4,257.40	7	3,869.02	7	3,480.65	7	3,092.21	7	2,703.64
1/4		1/4		1/4	5,364.72	1/4	5,007.49	1/4	4,635.03	1/4	4,249.30	1/4	3,860.93	1/4	3,472.56	1/4	3,084.11	1/4	2,695.55
1/2		1/2		1/2	5,357.42	1/2	4,999.88	1/2	4,627.11	1/2	4,241.21	1/2	3,852.84	1/2	3,464.47	1/2	3,076.02	1/2	2,687.45
3/4		3/4		3/4	5,350.13	3/4	4,992.27	3/4	4,619.20	3/4	4,233.12	3/4	3,844.75	3/4	3,456.38	3/4	3,067.92	3/4	2,679.36
8	8	8	8	8	5,342.81	8	4,984.63	8	4,611.26	8	4,225.03	8	3,836.66	8	3,448.29	8	3,059.83	8	2,671.26
1/4		1/4		1/4	5,335.49	1/4	4,976.99	1/4	4,603.32	1/4	4,216.94	1/4	3,828.57	1/4	3,440.19	1/4	3,051.73	1/4	2,663.17
1/2		1/2		1/2	5,328.17	1/2	4,969.36	1/2	4,595.38	1/2	4,208.85	1/2	3,820.48	1/2	3,432.10	1/2	3,043.64	1/2	2,655.07
3/4		3/4		3/4	5,320.85	3/4	4,961.72	3/4	4,587.44	3/4	4,200.76	3/4	3,812.38	3/4	3,424.01	3/4	3,035.54	3/4	2,646.98
9	9	9	9	9	5,313.50	9	4,954.06	9	4,579.48	9	4,192.67	9	3,804.29	9	3,415.92	9	3,027.45	9	2,638.88
1/4		1/4		1/4	5,306.16	1/4	4,946.40	1/4	4,571.52	1/4	4,184.58	1/4	3,796.20	1/4	3,407.83	1/4	3,019.35	1/4	2,630.79
1/2		1/2		1/2	5,298.82	1/2	4,938.74	1/2	4,563.55	1/2	4,176.48	1/2	3,788.11	1/2	3,399.74	1/2	3,011.26	1/2	2,622.69
3/4		3/4		3/4	5,291.48	3/4	4,931.08	3/4	4,555.59	3/4	4,168.39	3/4	3,780.02	3/4	3,391.65	3/4	3,003.16	3/4	2,614.60
10	10	10	10	10	5,284.11	10	4,923.40	10	4,547.60	10	4,160.30	10	3,771.93	10	3,383.56	10	2,995.07	10	2,606.50
1/4		1/4		1/4	5,276.74	1/4	4,915.72	1/4	4,539.62	1/4	4,152.21	1/4	3,763.84	1/4	3,375.47	1/4	2,986.97	1/4	2,598.41
1/2		1/2		1/2	5,269.38	1/2	4,908.03	1/2	4,531.63	1/2	4,144.12	1/2	3,755.75	1/2	3,367.37	1/2	2,978.88	1/2	2,590.31
3/4		3/4		3/4	5,262.01	3/4	4,900.35	3/4	4,523.65	3/4	4,136.03	3/4	3,747.66	3/4	3,359.28	3/4	2,970.78	3/4	2,582.22
11	11	11	11	11	5,254.62	11	4,892.64	11	4,515.64	11	4,127.94	11	3,739.56	11	3,351.19	11	2,962.69	11	2,574.12
1/4		1/4		1/4	5,247.24	1/4	4,884.94	1/4	4,507.63	1/4	4,119.85	1/4	3,731.47	1/4	3,343.10	1/4	2,954.59	1/4	2,566.03
1/2		1/2		1/2	5,239.85	1/2	4,877.23	1/2	4,499.62	1/2	4,111.76	1/2	3,723.38	1/2	3,335.01	1/2	2,946.50	1/2	2,557.93
3/4		3/4		3/4	5,232.47	3/4	4,869.52	3/4	4,491.61	3/4	4,103.66	3/4	3,715.29	3/4	3,326.92	3/4	2,938.40	3/4	2,549.84

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

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





# BARGE "CTCo 345"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 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	2,153.18	0	1,764.61	0	1,376.05	0	987.80	0	599.39	0	210.83	0		0		0		0	
1/4	2,145.08	1/4	1,756.52	1/4	1,367.95	1/4	979.72	1/4	591.29	1/4	202.74	1/4		1/4		1/4		1/4	
1/2	2,136.99	1/2	1,748.42	1/2	1,359.86	1/2	971.64	1/2	583.20	1/2	194.64	1/2		1/2		1/2		1/2	
3/4	2,128.89	3/4	1,740.33	3/4	1,351.76	3/4	963.56	3/4	575.10	3/4	186.55	3/4		3/4		3/4		3/4	
1	2,120.80	1	1,732.23	1	1,343.67	1	955.47	1	567.01	1	178.45	1		1		1		1	
1/4	2,112.70	1/4	1,724.14	1/4	1,335.57	1/4	947.39	1/4	558.91	1/4	170.36	1/4		1/4		1/4		1/4	
1/2	2,104.61	1/2	1,716.04	1/2	1,327.48	1/2	939.31	1/2	550.82	1/2	162.26	1/2		1/2		1/2		1/2	
3/4	2,096.51	3/4	1,707.95	3/4	1,319.38	3/4	931.23	3/4	542.72	3/4	154.17	3/4		3/4		3/4		3/4	
2	2,088.42	2	1,699.85	2	1,311.29	2	923.15	2	534.63	2	146.07	2		2		2		2	
1/4	2,080.32	1/4	1,691.76	1/4	1,303.19	1/4	915.06	1/4	526.53	1/4	137.98	1/4		1/4		1/4		1/4	
1/2	2,072.23	1/2	1,683.66	1/2	1,295.10	1/2	906.98	1/2	518.44	1/2	129.88	1/2		1/2		1/2		1/2	
3/4	2,064.13	3/4	1,675.57	3/4	1,287.00	3/4	898.90	3/4	510.34	3/4	121.79	3/4		3/4		3/4		3/4	
3	2,056.04	3	1,667.47	3	1,278.91	3	890.80	3	502.25	3	113.69	3		3		3		3	
1/4	2,047.94	1/4	1,659.38	1/4	1,270.81	1/4	882.71	1/4	494.15	1/4	105.60	1/4		1/4		1/4		1/4	
1/2	2,039.85	1/2	1,651.28	1/2	1,262.72	1/2	874.61	1/2	486.06	1/2	97.50	1/2		1/2		1/2		1/2	
3/4	2,031.75	3/4	1,643.19	3/4	1,254.62	3/4	866.52	3/4	477.96	3/4	89.41	3/4		3/4		3/4		3/4	
4	2,023.66	4	1,635.09	4	1,246.53	4	858.42	4	469.87	4	81.54	4		4		4		4	
1/4	2,015.56	1/4	1,627.00	1/4	1,238.43	1/4	850.33	1/4	461.77	1/4	73.67	1/4		1/4		1/4		1/4	
1/2	2,007.47	1/2	1,618.90	1/2	1,230.34	1/2	842.23	1/2	453.68	1/2	65.80	1/2		1/2		1/2		1/2	
3/4	1,999.37	3/4	1,610.81	3/4	1,222.24	3/4	834.14	3/4	445.58	3/4	57.93	3/4		3/4		3/4		3/4	
5	1,991.28	5	1,602.71	5	1,214.15	5	826.04	5	437.49	5	51.63	5		5		5		5	
1/4	1,983.18	1/4	1,594.62	1/4	1,206.06	1/4	817.95	1/4	429.39	1/4	45.34	1/4		1/4		1/4		1/4	
1/2	1,975.08	1/2	1,586.52	1/2	1,197.97	1/2	809.86	1/2	421.30	1/2	39.04	1/2		1/2		1/2		1/2	
3/4	1,966.99	3/4	1,578.43	3/4	1,189.88	3/4	801.76	3/4	413.21	3/4	32.75	3/4		3/4		3/4		3/4	
6	1,958.89	6	1,570.33	6	1,181.79	6	793.67	6	405.11	6	28.25	6		6		6		6	
1/4	1,950.80	1/4	1,562.23	1/4	1,173.70	1/4	785.57	1/4	397.02	1/4	23.75	1/4		1/4		1/4		1/4	
1/2	1,942.70	1/2	1,554.14	1/2	1,165.62	1/2	777.48	1/2	388.92	1/2	19.25	1/2		1/2		1/2		1/2	
3/4	1,934.61	3/4	1,546.04	3/4	1,157.53	3/4	769.38	3/4	380.83	3/4	14.76	3/4		3/4		3/4		3/4	
7	1,926.51	7	1,537.95	7	1,149.44	7	761.29	7	372.73	7		7		7		7		7	
1/4	1,918.42	1/4	1,529.85	1/4	1,141.36	1/4	753.19	1/4	364.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,910.32	1/2	1,521.76	1/2	1,133.28	1/2	745.10	1/2	356.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,902.23	3/4	1,513.66	3/4	1,125.20	3/4	737.00	3/4	348.45	3/4		3/4		3/4		3/4		3/4	
8	1,894.13	8	1,505.57	8	1,117.12	8	728.91	8	340.35	8		8		8		8		8	
1/4	1,886.04	1/4	1,497.47	1/4	1,109.03	1/4	720.81	1/4	332.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,877.94	1/2	1,489.38	1/2	1,100.95	1/2	712.72	1/2	324.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,869.85	3/4	1,481.28	3/4	1,092.87	3/4	704.62	3/4	316.07	3/4		3/4		3/4		3/4		3/4	
9	1,861.75	9	1,473.19	9	1,084.79	9	696.53	9	307.97	9		9		9		9		9	
1/4	1,853.66	1/4	1,465.09	1/4	1,076.71	1/4	688.43	1/4	299.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,845.56	1/2	1,457.00	1/2	1,068.62	1/2	680.34	1/2	291.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,837.47	3/4	1,448.90	3/4	1,060.54	3/4	672.24	3/4	283.69	3/4		3/4		3/4		3/4		3/4	
10	1,829.37	10	1,440.81	10	1,052.46	10	664.15	10	275.59	10		10		10		10		10	
1/4	1,821.28	1/4	1,432.71	1/4	1,044.38	1/4	656.05	1/4	267.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,813.18	1/2	1,424.62	1/2	1,036.29	1/2	647.96	1/2	259.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,805.09	3/4	1,416.52	3/4	1,028.21	3/4	639.86	3/4	251.31	3/4		3/4		3/4		3/4		3/4	
11	1,796.99	11	1,408.43	11	1,020.13	11	631.77	11	243.21	11		11		11		11		11	
1/4	1,788.90	1/4	1,400.33	1/4	1,012.05	1/4	623.67	1/4	235.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,780.80	1/2	1,392.24	1/2	1,003.97	1/2	615.58	1/2	227.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,772.71	3/4	1,384.14	3/4	995.88	3/4	607.48	3/4	218.93	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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BARGE "CTCo 345"

2 PORT
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 1/2"

Table with columns for gauge height (0 FT. to 9 FT.) and rows for barge height increments (0, 1/4, 1/2, 3/4, 1, 1.5, etc.). Each cell contains a capacity value in barrels.

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 51'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT & ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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# BARGE "CTCo 345"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-06 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	2,131.16	0	1,742.59	0	1,354.03	0	976.80	0	591.29	0	202.74	0		0		0		0	
1/4	2,123.06	1/4	1,734.50	1/4	1,345.93	1/4	969.01	1/4	583.20	1/4	194.64	1/4		1/4		1/4		1/4	
1/2	2,114.97	1/2	1,726.40	1/2	1,337.84	1/2	961.22	1/2	575.10	1/2	186.55	1/2		1/2		1/2		1/2	
3/4	2,106.87	3/4	1,718.31	3/4	1,329.74	3/4	953.43	3/4	567.01	3/4	178.45	3/4		3/4		3/4		3/4	
1	2,098.78	1	1,710.21	1	1,321.65	1	945.64	1	558.91	1	170.36	1		1		1		1	
1/4	2,090.68	1/4	1,702.12	1/4	1,313.55	1/4	937.85	1/4	550.82	1/4	162.26	1/4		1/4		1/4		1/4	
1/2	2,082.59	1/2	1,694.02	1/2	1,305.46	1/2	930.06	1/2	542.72	1/2	154.17	1/2		1/2		1/2		1/2	
3/4	2,074.49	3/4	1,685.93	3/4	1,297.36	3/4	922.27	3/4	534.63	3/4	146.07	3/4		3/4		3/4		3/4	
2	2,066.39	2	1,677.83	2	1,289.27	2	914.48	2	526.53	2	137.98	2		2		2		2	
1/4	2,058.30	1/4	1,669.73	1/4	1,281.17	1/4	906.69	1/4	518.44	1/4	129.88	1/4		1/4		1/4		1/4	
1/2	2,050.20	1/2	1,661.64	1/2	1,273.08	1/2	898.90	1/2	510.34	1/2	121.79	1/2		1/2		1/2		1/2	
3/4	2,042.11	3/4	1,653.54	3/4	1,265.26	3/4	890.80	3/4	502.25	3/4	113.69	3/4		3/4		3/4		3/4	
3	2,034.01	3	1,645.45	3	1,257.45	3	882.71	3	494.15	3	105.60	3		3		3		3	
1/4	2,025.92	1/4	1,637.35	1/4	1,249.64	1/4	874.61	1/4	486.06	1/4	97.50	1/4		1/4		1/4		1/4	
1/2	2,017.82	1/2	1,629.26	1/2	1,241.83	1/2	866.52	1/2	477.96	1/2	89.41	1/2		1/2		1/2		1/2	
3/4	2,009.73	3/4	1,621.16	3/4	1,234.02	3/4	858.42	3/4	469.87	3/4	81.54	3/4		3/4		3/4		3/4	
4	2,001.63	4	1,613.07	4	1,226.20	4	850.33	4	461.77	4	73.67	4		4		4		4	
1/4	1,993.54	1/4	1,604.97	1/4	1,218.39	1/4	842.23	1/4	453.68	1/4	65.80	1/4		1/4		1/4		1/4	
1/2	1,985.44	1/2	1,596.88	1/2	1,210.58	1/2	834.14	1/2	445.58	1/2	57.93	1/2		1/2		1/2		1/2	
3/4	1,977.35	3/4	1,588.78	3/4	1,202.78	3/4	826.04	3/4	437.49	3/4	51.63	3/4		3/4		3/4		3/4	
5	1,969.25	5	1,580.69	5	1,194.98	5	817.95	5	429.39	5	45.34	5		5		5		5	
1/4	1,961.16	1/4	1,572.59	1/4	1,187.19	1/4	809.86	1/4	421.30	1/4	39.04	1/4		1/4		1/4		1/4	
1/2	1,953.06	1/2	1,564.50	1/2	1,179.39	1/2	801.76	1/2	413.21	1/2	32.75	1/2		1/2		1/2		1/2	
3/4	1,944.97	3/4	1,556.40	3/4	1,171.59	3/4	793.67	3/4	405.11	3/4	28.25	3/4		3/4		3/4		3/4	
6	1,936.87	6	1,548.31	6	1,163.79	6	785.57	6	397.02	6	23.75	6		6		6		6	
1/4	1,928.78	1/4	1,540.21	1/4	1,155.99	1/4	777.48	1/4	388.92	1/4	19.25	1/4		1/4		1/4		1/4	
1/2	1,920.68	1/2	1,532.12	1/2	1,148.20	1/2	769.38	1/2	380.83	1/2	14.76	1/2		1/2		1/2		1/2	
3/4	1,912.59	3/4	1,524.02	3/4	1,140.40	3/4	761.29	3/4	372.73	3/4		3/4		3/4		3/4		3/4	
7	1,904.49	7	1,515.93	7	1,132.61	7	753.19	7	364.64	7		7		7		7		7	
1/4	1,896.40	1/4	1,507.83	1/4	1,124.82	1/4	745.10	1/4	356.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,888.30	1/2	1,499.74	1/2	1,117.03	1/2	737.00	1/2	348.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,880.21	3/4	1,491.64	3/4	1,109.24	3/4	728.91	3/4	340.35	3/4		3/4		3/4		3/4		3/4	
8	1,872.11	8	1,483.55	8	1,101.45	8	720.81	8	332.26	8		8		8		8		8	
1/4	1,864.02	1/4	1,475.45	1/4	1,093.66	1/4	712.72	1/4	324.16	1/4		1/4		1/4		1/4		1/4	
1/2	1,855.92	1/2	1,467.36	1/2	1,085.87	1/2	704.62	1/2	316.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,847.83	3/4	1,459.26	3/4	1,078.08	3/4	696.53	3/4	307.97	3/4		3/4		3/4		3/4		3/4	
9	1,839.73	9	1,451.17	9	1,070.29	9	688.43	9	299.88	9		9		9		9		9	
1/4	1,831.64	1/4	1,443.07	1/4	1,062.50	1/4	680.34	1/4	291.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,823.54	1/2	1,434.98	1/2	1,054.71	1/2	672.24	1/2	283.69	1/2		1/2		1/2		1/2		1/2	
3/4	1,815.45	3/4	1,426.88	3/4	1,046.92	3/4	664.15	3/4	275.59	3/4		3/4		3/4		3/4		3/4	
10	1,807.35	10	1,418.79	10	1,039.13	10	656.05	10	267.50	10		10		10		10		10	
1/4	1,799.26	1/4	1,410.69	1/4	1,031.34	1/4	647.96	1/4	259.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,791.16	1/2	1,402.60	1/2	1,023.55	1/2	639.86	1/2	251.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,783.07	3/4	1,394.50	3/4	1,015.76	3/4	631.77	3/4	243.21	3/4		3/4		3/4		3/4		3/4	
11	1,774.97	11	1,386.41	11	1,007.97	11	623.67	11	235.12	11		11		11		11		11	
1/4	1,766.88	1/4	1,378.31	1/4	1,000.18	1/4	615.58	1/4	227.02	1/4		1/4		1/4		1/4		1/4	
1/2	1,758.78	1/2	1,370.22	1/2	992.39	1/2	607.48	1/2	218.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,750.69	3/4	1,362.12	3/4	984.59	3/4	599.39	3/4	210.83	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

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





# BARGE "CTCo 345"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,701.60	0	1,369.57	0	1,037.54	0	715.79	0	417.56	0	142.79	0		0		0		0	
1/4	1,694.68	1/4	1,362.65	1/4	1,030.62	1/4	709.36	1/4	411.61	1/4	137.33	1/4		1/4		1/4		1/4	
1/2	1,687.76	1/2	1,355.73	1/2	1,023.70	1/2	702.93	1/2	405.66	1/2	131.88	1/2		1/2		1/2		1/2	
3/4	1,680.84	3/4	1,348.81	3/4	1,016.78	3/4	696.50	3/4	399.71	3/4	126.42	3/4		3/4		3/4		3/4	
1	1,673.93	1	1,341.90	1	1,009.87	1	690.07	1	393.76	1	120.96	1		1		1		1	
1/4	1,667.01	1/4	1,334.98	1/4	1,002.97	1/4	683.68	1/4	387.85	1/4	115.55	1/4		1/4		1/4		1/4	
1/2	1,660.09	1/2	1,328.06	1/2	996.07	1/2	677.29	1/2	381.94	1/2	110.13	1/2		1/2		1/2		1/2	
3/4	1,653.18	3/4	1,321.15	3/4	989.18	3/4	670.90	3/4	376.03	3/4	104.71	3/4		3/4		3/4		3/4	
2	1,646.26	2	1,314.23	2	982.28	2	664.51	2	370.12	2	99.30	2		2		2		2	
1/4	1,639.34	1/4	1,307.31	1/4	975.42	1/4	658.16	1/4	364.25	1/4	93.92	1/4		1/4		1/4		1/4	
1/2	1,632.42	1/2	1,300.39	1/2	968.57	1/2	651.82	1/2	358.38	1/2	88.55	1/2		1/2		1/2		1/2	
3/4	1,625.51	3/4	1,293.48	3/4	961.71	3/4	645.47	3/4	352.51	3/4	83.17	3/4		3/4		3/4		3/4	
3	1,618.59	3	1,286.56	3	954.86	3	639.12	3	346.65	3	77.80	3		3		3		3	
1/4	1,611.67	1/4	1,279.64	1/4	948.04	1/4	632.80	1/4	340.82	1/4	72.47	1/4		1/4		1/4		1/4	
1/2	1,604.75	1/2	1,272.72	1/2	941.23	1/2	626.48	1/2	334.99	1/2	67.13	1/2		1/2		1/2		1/2	
3/4	1,597.84	3/4	1,265.81	3/4	934.41	3/4	620.16	3/4	329.16	3/4	61.80	3/4		3/4		3/4		3/4	
4	1,590.92	4	1,258.89	4	927.60	4	613.84	4	323.34	4	56.46	4		4		4		4	
1/4	1,584.00	1/4	1,251.97	1/4	920.83	1/4	607.56	1/4	317.55	1/4	51.36	1/4		1/4		1/4		1/4	
1/2	1,577.09	1/2	1,245.06	1/2	914.05	1/2	601.28	1/2	311.76	1/2	46.26	1/2		1/2		1/2		1/2	
3/4	1,570.17	3/4	1,238.14	3/4	907.28	3/4	595.00	3/4	305.98	3/4	41.16	3/4		3/4		3/4		3/4	
5	1,563.25	5	1,231.22	5	900.51	5	588.72	5	300.19	5	36.06	5		5		5		5	
1/4	1,556.33	1/4	1,224.30	1/4	893.78	1/4	582.48	1/4	294.45	1/4	32.35	1/4		1/4		1/4		1/4	
1/2	1,549.42	1/2	1,217.39	1/2	887.05	1/2	576.24	1/2	288.70	1/2	28.64	1/2		1/2		1/2		1/2	
3/4	1,542.50	3/4	1,210.47	3/4	880.33	3/4	570.00	3/4	282.96	3/4	24.92	3/4		3/4		3/4		3/4	
6	1,535.58	6	1,203.55	6	873.60	6	563.77	6	277.21	6	21.21	6		6		6		6	
1/4	1,528.66	1/4	1,196.63	1/4	866.92	1/4	557.57	1/4	271.51	1/4	19.07	1/4		1/4		1/4		1/4	
1/2	1,521.75	1/2	1,189.72	1/2	860.23	1/2	551.37	1/2	265.81	1/2	16.94	1/2		1/2		1/2		1/2	
3/4	1,514.83	3/4	1,182.80	3/4	853.55	3/4	545.17	3/4	260.10	3/4	14.80	3/4		3/4		3/4		3/4	
7	1,507.91	7	1,175.88	7	846.87	7	538.98	7	254.40	7	12.66	7		7		7		7	
1/4	1,501.00	1/4	1,168.96	1/4	840.23	1/4	532.82	1/4	248.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,494.08	1/2	1,162.05	1/2	833.59	1/2	526.66	1/2	243.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,487.16	3/4	1,155.13	3/4	826.96	3/4	520.51	3/4	237.41	3/4		3/4		3/4		3/4		3/4	
8	1,480.24	8	1,148.21	8	820.32	8	514.35	8	231.75	8		8		8		8		8	
1/4	1,473.33	1/4	1,141.30	1/4	813.73	1/4	508.24	1/4	226.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,466.41	1/2	1,134.38	1/2	807.13	1/2	502.12	1/2	220.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,459.49	3/4	1,127.46	3/4	800.54	3/4	496.01	3/4	214.88	3/4		3/4		3/4		3/4		3/4	
9	1,452.57	9	1,120.54	9	793.94	9	489.89	9	209.26	9		9		9		9		9	
1/4	1,445.66	1/4	1,113.63	1/4	787.39	1/4	483.82	1/4	203.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,438.74	1/2	1,106.71	1/2	780.83	1/2	477.74	1/2	198.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,431.82	3/4	1,099.79	3/4	774.28	3/4	471.67	3/4	192.52	3/4		3/4		3/4		3/4		3/4	
10	1,424.90	10	1,092.87	10	767.73	10	465.60	10	186.94	10		10		10		10		10	
1/4	1,417.99	1/4	1,085.96	1/4	761.21	1/4	459.57	1/4	181.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.07	1/2	1,079.04	1/2	754.70	1/2	453.55	1/2	175.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,404.15	3/4	1,072.12	3/4	748.19	3/4	447.52	3/4	170.32	3/4		3/4		3/4		3/4		3/4	
11	1,397.24	11	1,065.21	11	741.68	11	441.50	11	164.78	11		11		11		11		11	
1/4	1,390.32	1/4	1,058.29	1/4	735.20	1/4	435.51	1/4	159.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,383.40	1/2	1,051.37	1/2	728.73	1/2	429.53	1/2	153.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,376.48	3/4	1,044.45	3/4	722.26	3/4	423.54	3/4	148.29	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

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



# BARGE "CTCo 345"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07"

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	0	0	4,323.88	0	4,014.04	0	3,691.19	0	3,359.71	0	3,027.86	0	2,696.01	0	2,364.02	0	2,031.99
1/4		1/4		1/4	4,317.56	1/4	4,007.44	1/4	3,684.32	1/4	3,352.80	1/4	3,020.95	1/4	2,689.10	1/4	2,357.11	1/4	2,025.07
1/2		1/2		1/2	4,311.23	1/2	4,000.84	1/2	3,677.46	1/2	3,345.88	1/2	3,014.03	1/2	2,682.19	1/2	2,350.19	1/2	2,018.15
3/4		3/4		3/4	4,304.91	3/4	3,994.23	3/4	3,670.60	3/4	3,338.97	3/4	3,007.12	3/4	2,675.27	3/4	2,343.27	3/4	2,011.24
1	1	1	1	1	4,601.42	1	4,298.59	1	3,987.63	1	3,663.73	1	3,332.06	1	3,000.21	1	2,668.36	1	2,336.36
1/4		1/4		1/4	4,596.87	1/4	4,292.25	1/4	3,981.01	1/4	3,656.85	1/4	3,325.14	1/4	2,993.29	1/4	2,661.45	1/4	2,329.44
1/2		1/2		1/2	4,592.32	1/2	4,285.91	1/2	3,974.39	1/2	3,649.97	1/2	3,318.23	1/2	2,986.38	1/2	2,654.53	1/2	2,322.52
3/4		3/4		3/4	4,587.77	3/4	4,279.57	3/4	3,967.77	3/4	3,643.08	3/4	3,311.31	3/4	2,979.47	3/4	2,647.62	3/4	2,315.60
2	2	2	2	2	4,583.22	2	4,273.22	2	3,961.15	2	3,636.20	2	3,304.40	2	2,972.55	2	2,640.71	2	2,308.69
1/4		1/4		1/4	4,577.14	1/4	4,266.86	1/4	3,954.51	1/4	3,629.30	1/4	3,297.49	1/4	2,965.64	1/4	2,633.79	1/4	2,301.77
1/2		1/2		1/2	4,571.05	1/2	4,260.50	1/2	3,947.86	1/2	3,622.40	1/2	3,290.57	1/2	2,958.73	1/2	2,626.88	1/2	2,294.85
3/4		3/4		3/4	4,564.96	3/4	4,254.14	3/4	3,941.22	3/4	3,615.50	3/4	3,283.66	3/4	2,951.81	3/4	2,619.96	3/4	2,287.93
3	3	3	3	3	4,558.87	3	4,247.78	3	3,934.58	3	3,608.60	3	3,276.75	3	2,944.90	3	2,613.05	3	2,281.02
1/4		1/4		1/4	4,552.01	1/4	4,241.40	1/4	3,927.92	1/4	3,601.68	1/4	3,269.83	1/4	2,937.99	1/4	2,606.13	1/4	2,274.10
1/2		1/2		1/2	4,545.16	1/2	4,235.01	1/2	3,921.26	1/2	3,594.77	1/2	3,262.92	1/2	2,931.07	1/2	2,599.22	1/2	2,267.18
3/4		3/4		3/4	4,538.30	3/4	4,228.63	3/4	3,914.60	3/4	3,587.85	3/4	3,256.01	3/4	2,924.16	3/4	2,592.30	3/4	2,260.26
4	4	4	4	4	4,531.45	4	4,222.25	4	3,907.93	4	3,580.94	4	3,249.09	4	2,917.25	4	2,585.38	4	2,253.35
1/4		1/4		1/4	4,524.59	1/4	4,215.85	1/4	3,901.23	1/4	3,574.03	1/4	3,242.18	1/4	2,910.33	1/4	2,578.46	1/4	2,246.43
1/2		1/2		1/2	4,517.73	1/2	4,209.45	1/2	3,894.53	1/2	3,567.11	1/2	3,235.27	1/2	2,903.42	1/2	2,571.55	1/2	2,239.51
3/4		3/4		3/4	4,510.88	3/4	4,203.05	3/4	3,887.82	3/4	3,560.20	3/4	3,228.35	3/4	2,896.50	3/4	2,564.63	3/4	2,232.59
5	5	5	5	5	4,504.02	5	4,196.64	5	3,881.12	5	3,553.29	5	3,221.44	5	2,889.59	5	2,557.71	5	2,225.68
1/4		1/4		1/4	4,497.17	1/4	4,190.18	1/4	3,874.40	1/4	3,546.37	1/4	3,214.53	1/4	2,882.68	1/4	2,550.79	1/4	2,218.76
1/2		1/2		1/2	4,490.31	1/2	4,183.72	1/2	3,867.67	1/2	3,539.46	1/2	3,207.61	1/2	2,875.76	1/2	2,543.88	1/2	2,211.84
3/4		3/4		3/4	4,483.46	3/4	4,177.26	3/4	3,860.95	3/4	3,532.55	3/4	3,200.70	3/4	2,868.85	3/4	2,536.96	3/4	2,204.92
6	6	6	6	6	4,476.60	6	4,170.80	6	3,854.23	6	3,525.63	6	3,193.79	6	2,861.94	6	2,530.04	6	2,198.01
1/4		1/4		1/4	4,469.74	1/4	4,164.32	1/4	3,847.48	1/4	3,518.72	1/4	3,186.87	1/4	2,855.02	1/4	2,523.13	1/4	2,191.09
1/2		1/2		1/2	4,462.89	1/2	4,157.83	1/2	3,840.74	1/2	3,511.81	1/2	3,179.96	1/2	2,848.11	1/2	2,516.21	1/2	2,184.17
3/4		3/4		3/4	4,456.03	3/4	4,151.35	3/4	3,834.00	3/4	3,504.89	3/4	3,173.04	3/4	2,841.20	3/4	2,509.29	3/4	2,177.26
7	7	7	7	7	4,449.18	7	4,144.87	7	3,827.25	7	3,497.98	7	3,166.13	7	2,834.28	7	2,502.37	7	2,170.34
1/4		1/4		1/4	4,442.95	1/4	4,138.37	1/4	3,820.49	1/4	3,491.07	1/4	3,159.22	1/4	2,827.37	1/4	2,495.46	1/4	2,163.42
1/2		1/2		1/2	4,436.73	1/2	4,131.87	1/2	3,813.73	1/2	3,484.15	1/2	3,152.30	1/2	2,820.46	1/2	2,488.54	1/2	2,156.50
3/4		3/4		3/4	4,430.50	3/4	4,125.37	3/4	3,806.96	3/4	3,477.24	3/4	3,145.39	3/4	2,813.54	3/4	2,481.62	3/4	2,149.59
8	8	8	8	8	4,424.27	8	4,118.86	8	3,800.20	8	3,470.33	8	3,138.48	8	2,806.63	8	2,474.70	8	2,142.67
1/4		1/4		1/4	4,418.03	1/4	4,112.34	1/4	3,793.42	1/4	3,463.41	1/4	3,131.56	1/4	2,799.72	1/4	2,467.79	1/4	2,135.75
1/2		1/2		1/2	4,411.78	1/2	4,105.82	1/2	3,786.63	1/2	3,456.50	1/2	3,124.65	1/2	2,792.80	1/2	2,460.87	1/2	2,128.83
3/4		3/4		3/4	4,405.54	3/4	4,099.30	3/4	3,779.85	3/4	3,449.58	3/4	3,117.74	3/4	2,785.89	3/4	2,453.95	3/4	2,121.92
9	9	9	9	9	4,399.29	9	4,092.78	9	3,773.07	9	3,442.67	9	3,110.82	9	2,778.98	9	2,447.03	9	2,115.00
1/4		1/4		1/4	4,393.03	1/4	4,086.24	1/4	3,766.26	1/4	3,435.76	1/4	3,103.91	1/4	2,772.06	1/4	2,440.12	1/4	2,108.08
1/2		1/2		1/2	4,386.76	1/2	4,079.70	1/2	3,759.46	1/2	3,428.84	1/2	3,097.00	1/2	2,765.15	1/2	2,433.20	1/2	2,101.16
3/4		3/4		3/4	4,380.49	3/4	4,073.15	3/4	3,752.66	3/4	3,421.93	3/4	3,090.08	3/4	2,758.23	3/4	2,426.28	3/4	2,094.25
10	10	10	10	10	4,374.23	10	4,066.61	10	3,745.85	10	3,415.02	10	3,083.17	10	2,751.32	10	2,419.36	10	2,087.33
1/4		1/4		1/4	4,367.94	1/4	4,060.05	1/4	3,739.03	1/4	3,408.10	1/4	3,076.26	1/4	2,744.41	1/4	2,412.45	1/4	2,080.41
1/2		1/2		1/2	4,361.66	1/2	4,053.49	1/2	3,732.21	1/2	3,401.19	1/2	3,069.34	1/2	2,737.49	1/2	2,405.53	1/2	2,073.49
3/4		3/4		3/4	4,355.37	3/4	4,046.93	3/4	3,725.38	3/4	3,394.28	3/4	3,062.43	3/4	2,730.58	3/4	2,398.61	3/4	2,066.58
11	11	11	11	11	4,349.08	11	4,040.37	11	3,718.56	11	3,387.36	11	3,055.52	11	2,723.67	11	2,391.69	11	2,059.66
1/4		1/4		1/4	4,342.78	1/4	4,033.78	1/4	3,711.72	1/4	3,380.45	1/4	3,048.60	1/4	2,716.75	1/4	2,384.78	1/4	2,052.74
1/2		1/2		1/2	4,336.48	1/2	4,027.20	1/2	3,704.87	1/2	3,373.54	1/2	3,041.69	1/2	2,709.84	1/2	2,377.86	1/2	2,045.82
3/4		3/4		3/4	4,330.18	3/4	4,020.62	3/4	3,698.03	3/4	3,366.62	3/4	3,034.77	3/4	2,702.93	3/4	2,370.94	3/4	2,038.91

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER OPENING ON "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-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 345"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-07"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,699.95	0	1,367.92	0	1,035.88	0	715.41	0	417.56	0	142.79	0		0		0		0	
1/4	1,693.04	1/4	1,361.00	1/4	1,028.97	1/4	709.02	1/4	411.61	1/4	137.33	1/4		1/4		1/4		1/4	
1/2	1,686.12	1/2	1,354.08	1/2	1,022.05	1/2	702.62	1/2	405.66	1/2	131.88	1/2		1/2		1/2		1/2	
3/4	1,679.20	3/4	1,347.17	3/4	1,015.13	3/4	696.23	3/4	399.71	3/4	126.42	3/4		3/4		3/4		3/4	
1	1,672.28	1	1,340.25	1	1,008.21	1	689.84	1	393.76	1	120.96	1		1		1		1	
1/4	1,665.37	1/4	1,333.33	1/4	1,001.32	1/4	683.49	1/4	387.85	1/4	115.55	1/4		1/4		1/4		1/4	
1/2	1,658.45	1/2	1,326.41	1/2	994.42	1/2	677.13	1/2	381.94	1/2	110.13	1/2		1/2		1/2		1/2	
3/4	1,651.53	3/4	1,319.50	3/4	987.52	3/4	670.78	3/4	376.03	3/4	104.71	3/4		3/4		3/4		3/4	
2	1,644.62	2	1,312.58	2	980.63	2	664.43	2	370.12	2	99.30	2		2		2		2	
1/4	1,637.70	1/4	1,305.66	1/4	973.77	1/4	658.12	1/4	364.25	1/4	93.92	1/4		1/4		1/4		1/4	
1/2	1,630.78	1/2	1,298.75	1/2	966.92	1/2	651.81	1/2	358.38	1/2	88.55	1/2		1/2		1/2		1/2	
3/4	1,623.86	3/4	1,291.83	3/4	960.06	3/4	645.50	3/4	352.51	3/4	83.17	3/4		3/4		3/4		3/4	
3	1,616.95	3	1,284.91	3	953.20	3	639.18	3	346.65	3	77.80	3		3		3		3	
1/4	1,610.03	1/4	1,277.99	1/4	946.42	1/4	632.86	1/4	340.82	1/4	72.47	1/4		1/4		1/4		1/4	
1/2	1,603.11	1/2	1,271.08	1/2	939.63	1/2	626.54	1/2	334.99	1/2	67.13	1/2		1/2		1/2		1/2	
3/4	1,596.19	3/4	1,264.16	3/4	932.85	3/4	620.22	3/4	329.16	3/4	61.80	3/4		3/4		3/4		3/4	
4	1,589.28	4	1,257.24	4	926.06	4	613.90	4	323.34	4	56.46	4		4		4		4	
1/4	1,582.36	1/4	1,250.32	1/4	919.32	1/4	607.62	1/4	317.55	1/4	51.36	1/4		1/4		1/4		1/4	
1/2	1,575.44	1/2	1,243.41	1/2	912.58	1/2	601.34	1/2	311.76	1/2	46.26	1/2		1/2		1/2		1/2	
3/4	1,568.52	3/4	1,236.49	3/4	905.83	3/4	595.06	3/4	305.98	3/4	41.16	3/4		3/4		3/4		3/4	
5	1,561.61	5	1,229.57	5	899.09	5	588.78	5	300.19	5	36.06	5		5		5		5	
1/4	1,554.69	1/4	1,222.65	1/4	892.40	1/4	582.54	1/4	294.45	1/4	32.35	1/4		1/4		1/4		1/4	
1/2	1,547.77	1/2	1,215.74	1/2	885.71	1/2	576.31	1/2	288.70	1/2	28.64	1/2		1/2		1/2		1/2	
3/4	1,540.85	3/4	1,208.82	3/4	879.02	3/4	570.07	3/4	282.96	3/4	24.92	3/4		3/4		3/4		3/4	
6	1,533.94	6	1,201.90	6	872.33	6	563.83	6	277.21	6	21.21	6		6		6		6	
1/4	1,527.02	1/4	1,194.98	1/4	865.69	1/4	557.63	1/4	271.51	1/4	19.07	1/4		1/4		1/4		1/4	
1/2	1,520.10	1/2	1,188.07	1/2	859.04	1/2	551.43	1/2	265.81	1/2	16.94	1/2		1/2		1/2		1/2	
3/4	1,513.18	3/4	1,181.15	3/4	852.39	3/4	545.24	3/4	260.10	3/4	14.80	3/4		3/4		3/4		3/4	
7	1,506.27	7	1,174.23	7	845.75	7	539.04	7	254.40	7	12.66	7		7		7		7	
1/4	1,499.35	1/4	1,167.31	1/4	839.15	1/4	532.88	1/4	248.74	1/4		1/4		1/4		1/4		1/4	
1/2	1,492.43	1/2	1,160.40	1/2	832.55	1/2	526.73	1/2	243.07	1/2		1/2		1/2		1/2		1/2	
3/4	1,485.52	3/4	1,153.48	3/4	825.95	3/4	520.57	3/4	237.41	3/4		3/4		3/4		3/4		3/4	
8	1,478.60	8	1,146.56	8	819.35	8	514.41	8	231.75	8		8		8		8		8	
1/4	1,471.68	1/4	1,139.65	1/4	812.79	1/4	508.30	1/4	226.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,464.76	1/2	1,132.73	1/2	806.23	1/2	502.18	1/2	220.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,457.85	3/4	1,125.81	3/4	799.68	3/4	496.07	3/4	214.88	3/4		3/4		3/4		3/4		3/4	
9	1,450.93	9	1,118.89	9	793.12	9	489.95	9	209.26	9		9		9		9		9	
1/4	1,444.01	1/4	1,111.98	1/4	786.60	1/4	483.88	1/4	203.68	1/4		1/4		1/4		1/4		1/4	
1/2	1,437.09	1/2	1,105.06	1/2	780.08	1/2	477.81	1/2	198.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,430.18	3/4	1,098.14	3/4	773.57	3/4	471.73	3/4	192.52	3/4		3/4		3/4		3/4		3/4	
10	1,423.26	10	1,091.22	10	767.05	10	465.66	10	186.94	10		10		10		10		10	
1/4	1,416.34	1/4	1,084.31	1/4	760.58	1/4	459.62	1/4	181.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,409.42	1/2	1,077.39	1/2	754.10	1/2	453.59	1/2	175.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,402.51	3/4	1,070.47	3/4	747.62	3/4	447.56	3/4	170.32	3/4		3/4		3/4		3/4		3/4	
11	1,395.59	11	1,063.55	11	741.15	11	441.53	11	164.78	11		11		11		11		11	
1/4	1,388.67	1/4	1,056.64	1/4	734.71	1/4	435.53	1/4	159.28	1/4		1/4		1/4		1/4		1/4	
1/2	1,381.75	1/2	1,049.72	1/2	728.28	1/2	429.54	1/2	153.79	1/2		1/2		1/2		1/2		1/2	
3/4	1,374.84	3/4	1,042.80	3/4	721.84	3/4	423.55	3/4	148.29	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/20/2016 CL  
CALCULATED: 05/20/2016 CL  
PRINTED: 05/20/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2016

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