



BARGE "KIRBY 29042"

ULLAGE TRIM TABLE
FORMERLY "CTCO 338"

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 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

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

LENGTH BETWEEN DRAFT MARKS: 236'-03"

May 15, 2024

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

<http://www.pmacorp.net>



BARGE "KIRBY 29042"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-09 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		0	4,953.30	0	4,624.68	0	4,275.33	0	3,909.86	0	3,543.33	0	3,176.26	0	2,809.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,946.20	1/4	4,617.62	1/4	4,267.83	1/4	3,902.23	1/4	3,535.69	1/4	3,168.61	1/4	2,801.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,939.10	1/2	4,610.56	1/2	4,260.33	1/2	3,894.59	1/2	3,528.04	1/2	3,160.96	1/2	2,793.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,932.46	3/4	4,603.46	3/4	4,252.79	3/4	3,886.95	3/4	3,520.40	3/4	3,153.32	3/4	2,786.12
1		1		1		1	4,925.82	1	4,596.37	1	4,245.25	1	3,879.32	1	3,512.75	1	3,145.67	1	2,778.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,919.18	1/4	4,589.27	1/4	4,237.71	1/4	3,871.68	1/4	3,505.10	1/4	3,138.02	1/4	2,770.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,912.54	1/2	4,582.17	1/2	4,230.17	1/2	3,864.05	1/2	3,497.45	1/2	3,130.37	1/2	2,763.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,905.87	3/4	4,575.04	3/4	4,222.60	3/4	3,856.41	3/4	3,489.81	3/4	3,122.73	3/4	2,755.52
2		2		2		2	4,899.20	2	4,567.91	2	4,215.02	2	3,848.77	2	3,482.16	2	3,115.08	2	2,747.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,892.53	1/4	4,560.78	1/4	4,207.45	1/4	3,841.14	1/4	3,474.51	1/4	3,107.43	1/4	2,740.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,885.86	1/2	4,553.65	1/2	4,199.88	1/2	3,833.50	1/2	3,466.86	1/2	3,099.78	1/2	2,732.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,879.15	3/4	4,546.49	3/4	4,192.27	3/4	3,825.87	3/4	3,459.22	3/4	3,092.14	3/4	2,724.91
3		3		3		3	4,872.44	3	4,539.33	3	4,184.67	3	3,818.23	3	3,451.57	3	3,084.49	3	2,717.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,865.73	1/4	4,532.16	1/4	4,177.06	1/4	3,810.59	1/4	3,443.92	1/4	3,076.84	1/4	2,709.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,859.03	1/2	4,525.00	1/2	4,169.45	1/2	3,802.96	1/2	3,436.27	1/2	3,069.19	1/2	2,701.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,852.28	3/4	4,517.80	3/4	4,161.82	3/4	3,795.32	3/4	3,428.63	3/4	3,061.55	3/4	2,694.31
4		4		4		4	4,845.54	4	4,510.60	4	4,154.20	4	3,787.69	4	3,420.98	4	3,053.90	4	2,686.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,838.79	1/4	4,503.41	1/4	4,146.57	1/4	3,780.05	1/4	3,413.33	1/4	3,046.25	1/4	2,679.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,832.05	1/2	4,496.21	1/2	4,138.94	1/2	3,772.42	1/2	3,405.68	1/2	3,038.60	1/2	2,671.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,825.27	3/4	4,488.98	3/4	4,131.30	3/4	3,764.78	3/4	3,398.04	3/4	3,030.96	3/4	2,663.70
5		5		5		5	4,818.49	5	4,481.75	5	4,123.67	5	3,757.14	5	3,390.39	5	3,023.31	5	2,656.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,811.71	1/4	4,474.52	1/4	4,116.03	1/4	3,749.51	1/4	3,382.74	1/4	3,015.66	1/4	2,648.40
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,804.93	1/2	4,467.28	1/2	4,108.39	1/2	3,741.87	1/2	3,375.09	1/2	3,008.01	1/2	2,640.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,798.12	3/4	4,460.02	3/4	4,100.76	3/4	3,734.24	3/4	3,367.45	3/4	3,000.36	3/4	2,633.09
6		6		6		6	4,791.31	6	4,452.75	6	4,093.12	6	3,726.60	6	3,359.80	6	2,992.71	6	2,625.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,784.50	1/4	4,445.48	1/4	4,085.49	1/4	3,718.96	1/4	3,352.15	1/4	2,985.06	1/4	2,617.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,777.68	1/2	4,438.21	1/2	4,077.85	1/2	3,711.33	1/2	3,344.50	1/2	2,977.41	1/2	2,610.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,770.84	3/4	4,430.89	3/4	4,070.22	3/4	3,703.69	3/4	3,336.86	3/4	2,969.76	3/4	2,602.49
7		7		7	5,099.33	7	4,763.99	7	4,423.57	7	4,062.58	7	3,696.06	7	3,329.21	7	2,962.11	7	2,594.84
1/4	1/4	1/4	1/4	1/4	5,093.28	1/4	4,757.14	1/4	4,416.25	1/4	4,054.94	1/4	3,688.42	1/4	3,321.56	1/4	2,954.46	1/4	2,587.19
1/2	1/2	1/2	1/2	1/2	5,087.23	1/2	4,750.30	1/2	4,408.94	1/2	4,047.31	1/2	3,680.78	1/2	3,313.91	1/2	2,946.81	1/2	2,579.53
3/4	3/4	3/4	3/4	3/4	5,080.03	3/4	4,743.40	3/4	4,401.57	3/4	4,039.67	3/4	3,673.15	3/4	3,306.27	3/4	2,939.15	3/4	2,571.88
8		8		8	5,072.83	8	4,736.50	8	4,394.21	8	4,032.04	8	3,665.51	8	3,298.62	8	2,931.50	8	2,564.23
1/4	1/4	1/4	1/4	1/4	5,065.64	1/4	4,729.60	1/4	4,386.85	1/4	4,024.40	1/4	3,657.88	1/4	3,290.97	1/4	2,923.85	1/4	2,556.58
1/2	1/2	1/2	1/2	1/2	5,058.44	1/2	4,722.70	1/2	4,379.49	1/2	4,016.76	1/2	3,650.24	1/2	3,283.32	1/2	2,916.20	1/2	2,548.93
3/4	3/4	3/4	3/4	3/4	5,050.86	3/4	4,715.75	3/4	4,372.09	3/4	4,009.13	3/4	3,642.60	3/4	3,275.68	3/4	2,908.55	3/4	2,541.28
9		9		9	5,043.28	9	4,708.80	9	4,364.70	9	4,001.49	9	3,634.97	9	3,268.03	9	2,900.90	9	2,533.62
1/4	1/4	1/4	1/4	1/4	5,035.70	1/4	4,701.84	1/4	4,357.30	1/4	3,993.86	1/4	3,627.33	1/4	3,260.38	1/4	2,893.25	1/4	2,525.97
1/2	1/2	1/2	1/2	1/2	5,028.13	1/2	4,694.89	1/2	4,349.90	1/2	3,986.22	1/2	3,619.70	1/2	3,252.73	1/2	2,885.59	1/2	2,518.32
3/4	3/4	3/4	3/4	3/4	5,020.55	3/4	4,687.90	3/4	4,342.47	3/4	3,978.58	3/4	3,612.06	3/4	3,245.09	3/4	2,877.94	3/4	2,510.67
10		10		10	5,012.97	10	4,680.91	10	4,335.04	10	3,970.95	10	3,604.43	10	3,237.44	10	2,870.29	10	2,503.02
1/4	1/4	1/4	1/4	1/4	5,005.39	1/4	4,673.92	1/4	4,327.62	1/4	3,963.31	1/4	3,596.79	1/4	3,229.79	1/4	2,862.64	1/4	2,495.37
1/2	1/2	1/2	1/2	1/2	4,997.81	1/2	4,666.92	1/2	4,320.19	1/2	3,955.68	1/2	3,589.15	1/2	3,222.14	1/2	2,854.99	1/2	2,487.72
3/4	3/4	3/4	3/4	3/4	4,990.23	3/4	4,659.90	3/4	4,312.72	3/4	3,948.04	3/4	3,581.52	3/4	3,214.50	3/4	2,847.34	3/4	2,480.06
11		11		11	4,982.66	11	4,652.87	11	4,305.26	11	3,940.40	11	3,573.88	11	3,206.85	11	2,839.68	11	2,472.41
1/4	1/4	1/4	1/4	1/4	4,975.08	1/4	4,645.84	1/4	4,297.80	1/4	3,932.77	1/4	3,566.25	1/4	3,199.20	1/4	2,832.03	1/4	2,464.76
1/2	1/2	1/2	1/2	1/2	4,967.50	1/2	4,638.81	1/2	4,290.33	1/2	3,925.13	1/2	3,558.61	1/2	3,191.55	1/2	2,824.38	1/2	2,457.11
3/4	3/4	3/4	3/4	3/4	4,960.40	3/4	4,631.75	3/4	4,282.83	3/4	3,917.50	3/4	3,550.97	3/4	3,183.91	3/4	2,816.73	3/4	2,449.46

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
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
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BARGE "KIRBY 29042"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-09 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	2,441.81	0	2,074.53	0	1,707.26	0	1,339.99	0	973.71	0	607.67	0	256.93	0		0			
1/4	2,434.16	1/4	2,066.88	1/4	1,699.61	1/4	1,332.34	1/4	966.11	1/4	600.01	1/4	250.14	1/4		1/4		1/4	
1/2	2,426.50	1/2	2,059.23	1/2	1,691.96	1/2	1,324.69	1/2	958.51	1/2	592.36	1/2	243.35	1/2		1/2		1/2	
3/4	2,418.85	3/4	2,051.58	3/4	1,684.31	3/4	1,317.04	3/4	950.91	3/4	584.71	3/4	236.65	3/4		3/4		3/4	
1	2,411.20	1	2,043.93	1	1,676.66	1	1,309.38	1	943.31	1	577.06	1	229.96	1		1		1	
1/4	2,403.55	1/4	2,036.28	1/4	1,669.01	1/4	1,301.73	1/4	935.71	1/4	569.41	1/4	223.26	1/4		1/4		1/4	
1/2	2,395.90	1/2	2,028.63	1/2	1,661.35	1/2	1,294.08	1/2	928.11	1/2	561.76	1/2	216.56	1/2		1/2		1/2	
3/4	2,388.25	3/4	2,020.97	3/4	1,653.70	3/4	1,286.43	3/4	920.51	3/4	554.12	3/4	209.95	3/4		3/4		3/4	
2	2,380.59	2	2,013.32	2	1,646.05	2	1,278.78	2	912.91	2	546.48	2	203.35	2		2		2	
1/4	2,372.94	1/4	2,005.67	1/4	1,638.40	1/4	1,271.13	1/4	905.31	1/4	538.84	1/4	196.74	1/4		1/4		1/4	
1/2	2,365.29	1/2	1,998.02	1/2	1,630.75	1/2	1,263.48	1/2	897.70	1/2	531.20	1/2	190.13	1/2		1/2		1/2	
3/4	2,357.64	3/4	1,990.37	3/4	1,623.10	3/4	1,255.82	3/4	890.10	3/4	523.60	3/4	183.61	3/4		3/4		3/4	
3	2,349.99	3	1,982.72	3	1,615.44	3	1,248.17	3	882.50	3	516.01	3	177.10	3		3		3	
1/4	2,342.34	1/4	1,975.07	1/4	1,607.79	1/4	1,240.52	1/4	874.90	1/4	508.41	1/4	170.58	1/4		1/4		1/4	
1/2	2,334.69	1/2	1,967.41	1/2	1,600.14	1/2	1,232.87	1/2	867.30	1/2	500.82	1/2	164.07	1/2		1/2		1/2	
3/4	2,327.03	3/4	1,959.76	3/4	1,592.49	3/4	1,225.22	3/4	859.70	3/4	493.30	3/4	157.64	3/4		3/4		3/4	
4	2,319.38	4	1,952.11	4	1,584.84	4	1,217.57	4	852.10	4	485.79	4	151.22	4		4		4	
1/4	2,311.73	1/4	1,944.46	1/4	1,577.19	1/4	1,209.92	1/4	844.50	1/4	478.27	1/4	144.80	1/4		1/4		1/4	
1/2	2,304.08	1/2	1,936.81	1/2	1,569.54	1/2	1,202.26	1/2	836.90	1/2	470.76	1/2	138.38	1/2		1/2		1/2	
3/4	2,296.43	3/4	1,929.16	3/4	1,561.88	3/4	1,194.61	3/4	829.30	3/4	463.34	3/4	132.05	3/4		3/4		3/4	
5	2,288.78	5	1,921.50	5	1,554.23	5	1,186.96	5	821.70	5	455.91	5	125.72	5		5		5	
1/4	2,281.13	1/4	1,913.85	1/4	1,546.58	1/4	1,179.31	1/4	814.10	1/4	448.49	1/4	119.40	1/4		1/4		1/4	
1/2	2,273.47	1/2	1,906.20	1/2	1,538.93	1/2	1,171.66	1/2	806.50	1/2	441.06	1/2	113.07	1/2		1/2		1/2	
3/4	2,265.82	3/4	1,898.55	3/4	1,531.28	3/4	1,164.02	3/4	798.87	3/4	433.73	3/4	106.85	3/4		3/4		3/4	
6	2,258.17	6	1,890.90	6	1,523.63	6	1,156.38	6	791.25	6	426.40	6	100.62	6		6		6	
1/4	2,250.52	1/4	1,883.25	1/4	1,515.98	1/4	1,148.75	1/4	783.62	1/4	419.06	1/4	94.40	1/4		1/4		1/4	
1/2	2,242.87	1/2	1,875.60	1/2	1,508.32	1/2	1,141.11	1/2	775.99	1/2	411.73	1/2	88.17	1/2		1/2		1/2	
3/4	2,235.22	3/4	1,867.94	3/4	1,500.67	3/4	1,133.49	3/4	768.34	3/4	404.49	3/4	82.05	3/4		3/4		3/4	
7	2,227.56	7	1,860.29	7	1,493.02	7	1,125.87	7	760.69	7	397.24	7	75.93	7		7		7	
1/4	2,219.91	1/4	1,852.64	1/4	1,485.37	1/4	1,118.25	1/4	753.04	1/4	390.00	1/4	69.82	1/4		1/4		1/4	
1/2	2,212.26	1/2	1,844.99	1/2	1,477.72	1/2	1,110.62	1/2	745.39	1/2	382.76	1/2	63.70	1/2		1/2		1/2	
3/4	2,204.61	3/4	1,837.34	3/4	1,470.07	3/4	1,103.01	3/4	737.74	3/4	375.61	3/4	58.15	3/4		3/4		3/4	
8	2,196.96	8	1,829.69	8	1,462.41	8	1,095.39	8	730.09	8	368.45	8	52.59	8		8		8	
1/4	2,189.31	1/4	1,822.04	1/4	1,454.76	1/4	1,087.78	1/4	722.43	1/4	361.30	1/4	47.04	1/4		1/4		1/4	
1/2	2,181.66	1/2	1,814.38	1/2	1,447.11	1/2	1,080.16	1/2	714.78	1/2	354.15	1/2	41.48	1/2		1/2		1/2	
3/4	2,174.00	3/4	1,806.73	3/4	1,439.46	3/4	1,072.56	3/4	707.13	3/4	347.09	3/4	36.99	3/4		3/4		3/4	
9	2,166.35	9	1,799.08	9	1,431.81	9	1,064.95	9	699.48	9	340.03	9	32.50	9		9		9	
1/4	2,158.70	1/4	1,791.43	1/4	1,424.16	1/4	1,057.34	1/4	691.83	1/4	332.97	1/4	28.01	1/4		1/4		1/4	
1/2	2,151.05	1/2	1,783.78	1/2	1,416.51	1/2	1,049.73	1/2	684.18	1/2	325.91	1/2	23.52	1/2		1/2		1/2	
3/4	2,143.40	3/4	1,776.13	3/4	1,408.85	3/4	1,042.13	3/4	676.53	3/4	318.93	3/4		3/4		3/4		3/4	
10	2,135.75	10	1,768.47	10	1,401.20	10	1,034.52	10	668.88	10	311.96	10		10		10		10	
1/4	2,128.10	1/4	1,760.82	1/4	1,393.55	1/4	1,026.92	1/4	661.22	1/4	304.99	1/4		1/4		1/4		1/4	
1/2	2,120.44	1/2	1,753.17	1/2	1,385.90	1/2	1,019.31	1/2	653.57	1/2	298.02	1/2		1/2		1/2		1/2	
3/4	2,112.79	3/4	1,745.52	3/4	1,378.25	3/4	1,011.71	3/4	645.92	3/4	291.14	3/4		3/4		3/4		3/4	
11	2,105.14	11	1,737.87	11	1,370.60	11	1,004.11	11	638.27	11	284.27	11		11		11		11	
1/4	2,097.49	1/4	1,730.22	1/4	1,362.95	1/4	996.51	1/4	630.62	1/4	277.39	1/4		1/4		1/4		1/4	
1/2	2,089.84	1/2	1,722.57	1/2	1,355.29	1/2	988.91	1/2	622.97	1/2	270.51	1/2		1/2		1/2		1/2	
3/4	2,082.19	3/4	1,714.91	3/4	1,347.64	3/4	981.31	3/4	615.32	3/4	263.72	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-09 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	4,960.28	0	4,631.40	0	4,282.24	0	3,916.65	0	3,549.88	0	3,183.10	0	2,816.24	0	2,816.24		
1/4	1/4	1/4	1/4	1/4	4,953.18	1/4	4,624.33	1/4	4,274.73	1/4	3,909.01	1/4	3,542.24	1/4	3,175.46	1/4	2,808.59	1/4	2,808.59		
1/2	1/2	1/2	1/2	1/2	4,946.07	1/2	4,617.26	1/2	4,267.22	1/2	3,901.37	1/2	3,534.59	1/2	3,167.82	1/2	2,800.94	1/2	2,800.94		
3/4	3/4	3/4	3/4	3/4	4,938.96	3/4	4,610.19	3/4	4,259.72	3/4	3,893.73	3/4	3,526.95	3/4	3,160.18	3/4	2,793.30	3/4	2,793.30		
1	1	1	1	1	4,932.32	1	4,603.09	1	4,252.17	1	3,886.09	1	3,519.31	1	3,152.53	1	2,785.65	1	2,785.65		
1/4	1/4	1/4	1/4	1/4	4,925.68	1/4	4,595.99	1/4	4,244.63	1/4	3,878.45	1/4	3,511.67	1/4	3,144.89	1/4	2,778.01	1/4	2,778.01		
1/2	1/2	1/2	1/2	1/2	4,919.03	1/2	4,588.89	1/2	4,237.09	1/2	3,870.81	1/2	3,504.03	1/2	3,137.25	1/2	2,770.36	1/2	2,770.36		
3/4	3/4	3/4	3/4	3/4	4,912.39	3/4	4,581.79	3/4	4,229.54	3/4	3,863.17	3/4	3,496.39	3/4	3,129.61	3/4	2,762.72	3/4	2,762.72		
2	2	2	2	2	4,905.71	2	4,574.65	2	4,221.96	2	3,855.52	2	3,488.75	2	3,121.97	2	2,755.07	2	2,755.07		
1/4	1/4	1/4	1/4	1/4	4,899.04	1/4	4,567.52	1/4	4,214.38	1/4	3,847.88	1/4	3,481.11	1/4	3,114.33	1/4	2,747.43	1/4	2,747.43		
1/2	1/2	1/2	1/2	1/2	4,892.36	1/2	4,560.38	1/2	4,206.81	1/2	3,840.24	1/2	3,473.46	1/2	3,106.69	1/2	2,739.78	1/2	2,739.78		
3/4	3/4	3/4	3/4	3/4	4,885.68	3/4	4,553.25	3/4	4,199.23	3/4	3,832.60	3/4	3,465.82	3/4	3,099.05	3/4	2,732.14	3/4	2,732.14		
3	3	3	3	3	4,878.97	3	4,546.08	3	4,191.62	3	3,824.96	3	3,458.18	3	3,091.40	3	2,724.49	3	2,724.49		
1/4	1/4	1/4	1/4	1/4	4,872.26	1/4	4,538.91	1/4	4,184.00	1/4	3,817.32	1/4	3,450.54	1/4	3,083.76	1/4	2,716.85	1/4	2,716.85		
1/2	1/2	1/2	1/2	1/2	4,865.55	1/2	4,531.74	1/2	4,176.39	1/2	3,809.68	1/2	3,442.90	1/2	3,076.12	1/2	2,709.20	1/2	2,709.20		
3/4	3/4	3/4	3/4	3/4	4,858.84	3/4	4,524.57	3/4	4,168.78	3/4	3,802.04	3/4	3,435.26	3/4	3,068.48	3/4	2,701.56	3/4	2,701.56		
4	4	4	4	4	4,852.09	4	4,517.37	4	4,161.15	4	3,794.39	4	3,427.62	4	3,060.84	4	2,693.91	4	2,693.91		
1/4	1/4	1/4	1/4	1/4	4,845.34	1/4	4,510.17	1/4	4,153.52	1/4	3,786.75	1/4	3,419.98	1/4	3,053.20	1/4	2,686.27	1/4	2,686.27		
1/2	1/2	1/2	1/2	1/2	4,838.59	1/2	4,502.97	1/2	4,145.88	1/2	3,779.11	1/2	3,412.33	1/2	3,045.56	1/2	2,678.62	1/2	2,678.62		
3/4	3/4	3/4	3/4	3/4	4,831.84	3/4	4,495.77	3/4	4,138.25	3/4	3,771.47	3/4	3,404.69	3/4	3,037.92	3/4	2,670.98	3/4	2,670.98		
5	5	5	5	5	4,825.06	5	4,488.53	5	4,130.61	5	3,763.83	5	3,397.05	5	3,030.27	5	2,663.33	5	2,663.33		
1/4	1/4	1/4	1/4	1/4	4,818.27	1/4	4,481.29	1/4	4,122.97	1/4	3,756.19	1/4	3,389.41	1/4	3,022.63	1/4	2,655.69	1/4	2,655.69		
1/2	1/2	1/2	1/2	1/2	4,811.49	1/2	4,474.06	1/2	4,115.33	1/2	3,748.55	1/2	3,381.77	1/2	3,014.99	1/2	2,648.04	1/2	2,648.04		
3/4	3/4	3/4	3/4	3/4	4,804.70	3/4	4,466.82	3/4	4,107.68	3/4	3,740.91	3/4	3,374.13	3/4	3,007.35	3/4	2,640.40	3/4	2,640.40		
6	6	6	6	6	4,797.89	6	4,459.55	6	4,100.04	6	3,733.27	6	3,366.49	6	2,999.71	6	2,632.75	6	2,632.75		
1/4	1/4	1/4	1/4	1/4	4,791.07	1/4	4,452.27	1/4	4,092.40	1/4	3,725.62	1/4	3,358.85	1/4	2,992.07	1/4	2,625.11	1/4	2,625.11		
1/2	1/2	1/2	1/2	1/2	4,784.25	1/2	4,445.00	1/2	4,084.76	1/2	3,717.98	1/2	3,351.21	1/2	2,984.43	1/2	2,617.46	1/2	2,617.46		
3/4	3/4	3/4	3/4	3/4	4,777.44	3/4	4,437.72	3/4	4,077.12	3/4	3,710.34	3/4	3,343.56	3/4	2,976.78	3/4	2,609.81	3/4	2,609.81		
7	7	7	7	7	4,770.59	7	4,430.40	7	4,069.48	7	3,702.70	7	3,335.92	7	2,969.14	7	2,602.17	7	2,602.17		
1/4	1/4	1/4	1/4	5,099.30	1/4	4,763.73	1/4	4,423.08	1/4	4,061.84	1/4	3,695.06	1/4	3,328.28	1/4	2,961.49	1/4	2,594.52	1/4	2,594.52	
1/2	1/2	1/2	1/2	5,093.25	1/2	4,756.88	1/2	4,415.75	1/2	4,054.20	1/2	3,687.42	1/2	3,320.64	1/2	2,953.85	1/2	2,586.88	1/2	2,586.88	
3/4	3/4	3/4	3/4	5,087.19	3/4	4,750.03	3/4	4,408.43	3/4	4,046.55	3/4	3,679.78	3/4	3,313.00	3/4	2,946.20	3/4	2,579.23	3/4	2,579.23	
8	8	8	8	8	5,079.99	8	4,743.13	8	4,401.06	8	4,038.91	8	3,672.14	8	3,305.36	8	2,938.56	8	2,571.59	8	2,571.59
1/4	1/4	1/4	1/4	5,072.79	1/4	4,736.22	1/4	4,393.70	1/4	4,031.27	1/4	3,664.49	1/4	3,297.72	1/4	2,930.91	1/4	2,563.94	1/4	2,563.94	
1/2	1/2	1/2	1/2	5,065.59	1/2	4,729.32	1/2	4,386.33	1/2	4,023.63	1/2	3,656.85	1/2	3,290.08	1/2	2,923.27	1/2	2,556.30	1/2	2,556.30	
3/4	3/4	3/4	3/4	5,058.39	3/4	4,722.42	3/4	4,378.96	3/4	4,015.99	3/4	3,649.21	3/4	3,282.43	3/4	2,915.62	3/4	2,548.65	3/4	2,548.65	
9	9	9	9	9	5,050.81	9	4,715.46	9	4,371.56	9	4,008.35	9	3,641.57	9	3,274.79	9	2,907.98	9	2,541.01	9	2,541.01
1/4	1/4	1/4	1/4	5,043.22	1/4	4,708.50	1/4	4,364.16	1/4	4,000.71	1/4	3,633.93	1/4	3,267.15	1/4	2,900.33	1/4	2,533.36	1/4	2,533.36	
1/2	1/2	1/2	1/2	5,035.64	1/2	4,701.54	1/2	4,356.76	1/2	3,993.07	1/2	3,626.29	1/2	3,259.51	1/2	2,892.69	1/2	2,525.72	1/2	2,525.72	
3/4	3/4	3/4	3/4	5,028.06	3/4	4,694.58	3/4	4,349.36	3/4	3,985.42	3/4	3,618.65	3/4	3,251.87	3/4	2,885.04	3/4	2,518.07	3/4	2,518.07	
10	10	10	10	10	5,020.47	10	4,687.59	10	4,341.92	10	3,977.78	10	3,611.01	10	3,244.23	10	2,877.40	10	2,510.43	10	2,510.43
1/4	1/4	1/4	1/4	5,012.89	1/4	4,680.59	1/4	4,334.49	1/4	3,970.14	1/4	3,603.36	1/4	3,236.59	1/4	2,869.75	1/4	2,502.78	1/4	2,502.78	
1/2	1/2	1/2	1/2	5,005.30	1/2	4,673.60	1/2	4,327.05	1/2	3,962.50	1/2	3,595.72	1/2	3,228.95	1/2	2,862.11	1/2	2,495.14	1/2	2,495.14	
3/4	3/4	3/4	3/4	4,997.72	3/4	4,666.60	3/4	4,319.62	3/4	3,954.86	3/4	3,588.08	3/4	3,221.30	3/4	2,854.46	3/4	2,487.49	3/4	2,487.49	
11	11	11	11	11	4,990.14	11	4,659.57	11	4,312.15	11	3,947.22	11	3,580.44	11	3,213.66	11	2,846.82	11	2,479.85	11	2,479.85
1/4	1/4	1/4	1/4	4,982.55	1/4	4,652.53	1/4	4,304.68	1/4	3,939.58	1/4	3,572.80	1/4	3,206.02	1/4	2,839.17	1/4	2,472.20	1/4	2,472.20	
1/2	1/2	1/2	1/2	4,974.97	1/2	4,645.50	1/2	4,297.21	1/2	3,931.94	1/2	3,565.16	1/2	3,198.38	1/2	2,831.53	1/2	2,464.56	1/2	2,464.56	
3/4	3/4	3/4	3/4	4,967.39	3/4	4,638.46	3/4	4,289.74	3/4	3,924.30	3/4	3,557.52	3/4	3,190.74	3/4	2,823.88	3/4	2,456.91	3/4	2,456.91	

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
 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 "KIRBY 29042"

1 STBD ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-09 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

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	2,449.27	0	2,082.30	0	1,715.33	0	1,348.36	0	981.54	0	614.92	0	263.69	0		0			
1/4	2,441.62	1/4	2,074.65	1/4	1,707.68	1/4	1,340.71	1/4	973.91	1/4	607.28	1/4	256.91	1/4		1/4			
1/2	2,433.98	1/2	2,067.01	1/2	1,700.04	1/2	1,333.07	1/2	966.27	1/2	599.63	1/2	250.13	1/2		1/2			
3/4	2,426.33	3/4	2,059.36	3/4	1,692.39	3/4	1,325.42	3/4	958.64	3/4	591.99	3/4	243.34	3/4		3/4			
1	2,418.68	1	2,051.72	1	1,684.75	1	1,317.78	1	951.01	1	584.34	1	236.65	1		1			
1/4	2,411.04	1/4	2,044.07	1/4	1,677.10	1/4	1,310.13	1/4	943.38	1/4	576.70	1/4	229.96	1/4		1/4			
1/2	2,403.39	1/2	2,036.42	1/2	1,669.46	1/2	1,302.49	1/2	935.75	1/2	569.06	1/2	223.27	1/2		1/2			
3/4	2,395.75	3/4	2,028.78	3/4	1,661.81	3/4	1,294.84	3/4	928.12	3/4	561.42	3/4	216.58	3/4		3/4			
2	2,388.10	2	2,021.13	2	1,654.16	2	1,287.20	2	920.49	2	553.79	2	209.98	2		2			
1/4	2,380.46	1/4	2,013.49	1/4	1,646.52	1/4	1,279.55	1/4	912.86	1/4	546.17	1/4	203.38	1/4		1/4			
1/2	2,372.81	1/2	2,005.84	1/2	1,638.87	1/2	1,271.90	1/2	905.22	1/2	538.54	1/2	196.78	1/2		1/2			
3/4	2,365.17	3/4	1,998.20	3/4	1,631.23	3/4	1,264.26	3/4	897.59	3/4	530.92	3/4	190.18	3/4		3/4			
3	2,357.52	3	1,990.55	3	1,623.58	3	1,256.61	3	889.96	3	523.33	3	183.67	3		3			
1/4	2,349.88	1/4	1,982.91	1/4	1,615.94	1/4	1,248.97	1/4	882.33	1/4	515.75	1/4	177.16	1/4		1/4			
1/2	2,342.23	1/2	1,975.26	1/2	1,608.29	1/2	1,241.32	1/2	874.70	1/2	508.16	1/2	170.65	1/2		1/2			
3/4	2,334.59	3/4	1,967.62	3/4	1,600.65	3/4	1,233.68	3/4	867.07	3/4	500.58	3/4	164.14	3/4		3/4			
4	2,326.94	4	1,959.97	4	1,593.00	4	1,226.03	4	859.44	4	493.07	4	157.72	4		4			
1/4	2,319.30	1/4	1,952.33	1/4	1,585.36	1/4	1,218.39	1/4	851.80	1/4	485.56	1/4	151.30	1/4		1/4			
1/2	2,311.65	1/2	1,944.68	1/2	1,577.71	1/2	1,210.74	1/2	844.17	1/2	478.05	1/2	144.89	1/2		1/2			
3/4	2,304.01	3/4	1,937.04	3/4	1,570.07	3/4	1,203.10	3/4	836.54	3/4	470.54	3/4	138.47	3/4		3/4			
5	2,296.36	5	1,929.39	5	1,562.42	5	1,195.45	5	828.91	5	463.13	5	132.14	5		5			
1/4	2,288.72	1/4	1,921.75	1/4	1,554.78	1/4	1,187.81	1/4	821.28	1/4	455.71	1/4	125.81	1/4		1/4			
1/2	2,281.07	1/2	1,914.10	1/2	1,547.13	1/2	1,180.16	1/2	813.65	1/2	448.29	1/2	119.49	1/2		1/2			
3/4	2,273.43	3/4	1,906.46	3/4	1,539.49	3/4	1,172.52	3/4	806.02	3/4	440.87	3/4	113.16	3/4		3/4			
6	2,265.78	6	1,898.81	6	1,531.84	6	1,164.87	6	798.38	6	433.54	6	106.93	6		6			
1/4	2,258.14	1/4	1,891.17	1/4	1,524.20	1/4	1,157.23	1/4	790.74	1/4	426.22	1/4	100.70	1/4		1/4			
1/2	2,250.49	1/2	1,883.52	1/2	1,516.55	1/2	1,149.58	1/2	783.10	1/2	418.89	1/2	94.47	1/2		1/2			
3/4	2,242.85	3/4	1,875.88	3/4	1,508.91	3/4	1,141.94	3/4	775.47	3/4	411.56	3/4	88.24	3/4		3/4			
7	2,235.20	7	1,868.23	7	1,501.26	7	1,134.29	7	767.82	7	404.33	7	82.11	7		7			
1/4	2,227.55	1/4	1,860.59	1/4	1,493.62	1/4	1,126.65	1/4	760.18	1/4	397.09	1/4	75.99	1/4		1/4			
1/2	2,219.91	1/2	1,852.94	1/2	1,485.97	1/2	1,119.00	1/2	752.53	1/2	389.85	1/2	69.87	1/2		1/2			
3/4	2,212.26	3/4	1,845.29	3/4	1,478.33	3/4	1,111.36	3/4	744.89	3/4	382.62	3/4	63.75	3/4		3/4			
8	2,204.62	8	1,837.65	8	1,470.68	8	1,103.71	8	737.24	8	375.47	8	58.19	8		8			
1/4	2,196.97	1/4	1,830.00	1/4	1,463.03	1/4	1,096.07	1/4	729.60	1/4	368.33	1/4	52.63	1/4		1/4			
1/2	2,189.33	1/2	1,822.36	1/2	1,455.39	1/2	1,088.43	1/2	721.95	1/2	361.18	1/2	47.07	1/2		1/2			
3/4	2,181.68	3/4	1,814.71	3/4	1,447.74	3/4	1,080.79	3/4	714.31	3/4	354.04	3/4	41.51	3/4		3/4			
9	2,174.04	9	1,807.07	9	1,440.10	9	1,073.15	9	706.66	9	346.98	9	37.02	9		9			
1/4	2,166.39	1/4	1,799.42	1/4	1,432.45	1/4	1,065.51	1/4	699.02	1/4	339.93	1/4	32.52	1/4		1/4			
1/2	2,158.75	1/2	1,791.78	1/2	1,424.81	1/2	1,057.87	1/2	691.37	1/2	332.87	1/2	28.03	1/2		1/2			
3/4	2,151.10	3/4	1,784.13	3/4	1,417.16	3/4	1,050.23	3/4	683.73	3/4	325.82	3/4	23.53	3/4		3/4			
10	2,143.46	10	1,776.49	10	1,409.52	10	1,042.60	10	676.08	10	318.86	10		10		10			
1/4	2,135.81	1/4	1,768.84	1/4	1,401.87	1/4	1,034.96	1/4	668.44	1/4	311.89	1/4		1/4		1/4			
1/2	2,128.17	1/2	1,761.20	1/2	1,394.23	1/2	1,027.33	1/2	660.79	1/2	304.93	1/2		1/2		1/2			
3/4	2,120.52	3/4	1,753.55	3/4	1,386.58	3/4	1,019.69	3/4	653.15	3/4	297.96	3/4		3/4		3/4			
11	2,112.88	11	1,745.91	11	1,378.94	11	1,012.06	11	645.50	11	291.09	11		11		11			
1/4	2,105.23	1/4	1,738.26	1/4	1,371.29	1/4	1,004.43	1/4	637.86	1/4	284.22	1/4		1/4		1/4			
1/2	2,097.59	1/2	1,730.62	1/2	1,363.65	1/2	996.80	1/2	630.21	1/2	277.35	1/2		1/2		1/2			
3/4	2,089.94	3/4	1,722.97	3/4	1,356.00	3/4	989.17	3/4	622.57	3/4	270.47	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-10 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		0	4,716.89	0	4,407.81	0	4,080.98	0	3,738.14	0	3,393.90	0	3,049.67	0	2,705.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,709.78	1/4	4,401.21	1/4	4,073.97	1/4	3,730.97	1/4	3,386.73	1/4	3,042.49	1/4	2,698.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,703.11	1/2	4,394.58	1/2	4,066.92	1/2	3,723.80	1/2	3,379.56	1/2	3,035.32	1/2	2,691.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,696.45	3/4	4,387.95	3/4	4,059.88	3/4	3,716.62	3/4	3,372.39	3/4	3,028.15	3/4	2,683.83		
1	1	1	1	1	1	1	4,689.78	1	4,381.32	1	4,052.83	1	3,709.45	1	3,365.22	1	3,020.98	1	2,676.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,683.11	1/4	4,374.69	1/4	4,045.78	1/4	3,702.28	1/4	3,358.04	1/4	3,013.81	1/4	2,669.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,676.88	1/2	4,368.02	1/2	4,038.70	1/2	3,695.11	1/2	3,350.87	1/2	3,006.64	1/2	2,662.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,670.65	3/4	4,361.36	3/4	4,031.62	3/4	3,687.94	3/4	3,343.70	3/4	2,999.46	3/4	2,655.13		
2	2	2	2	2	2	2	4,664.42	2	4,354.70	2	4,024.54	2	3,680.77	2	3,336.53	2	2,992.29	2	2,647.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,658.19	1/4	4,348.03	1/4	4,017.46	1/4	3,673.59	1/4	3,329.36	1/4	2,985.12	1/4	2,640.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,651.92	1/2	4,341.34	1/2	4,010.35	1/2	3,666.42	1/2	3,322.19	1/2	2,977.95	1/2	2,633.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,645.66	3/4	4,334.64	3/4	4,003.24	3/4	3,659.25	3/4	3,315.01	3/4	2,970.78	3/4	2,626.43		
3	3	3	3	3	3	3	4,639.40	3	4,327.95	3	3,996.12	3	3,652.08	3	3,307.84	3	2,963.61	3	2,619.25		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,633.14	1/4	4,321.25	1/4	3,989.01	1/4	3,644.91	1/4	3,300.67	1/4	2,956.43	1/4	2,612.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,626.84	1/2	4,314.53	1/2	3,981.87	1/2	3,637.74	1/2	3,293.50	1/2	2,949.26	1/2	2,604.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,620.55	3/4	4,307.80	3/4	3,974.72	3/4	3,630.56	3/4	3,286.33	3/4	2,942.09	3/4	2,597.72		
4	4	4	4	4	4	4	4,614.25	4	4,301.07	4	3,967.58	4	3,623.39	4	3,279.16	4	2,934.92	4	2,590.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,607.96	1/4	4,294.35	1/4	3,960.44	1/4	3,616.22	1/4	3,271.98	1/4	2,927.75	1/4	2,583.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,601.63	1/2	4,287.59	1/2	3,953.27	1/2	3,609.05	1/2	3,264.81	1/2	2,920.58	1/2	2,576.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,595.29	3/4	4,280.83	3/4	3,946.10	3/4	3,601.88	3/4	3,257.64	3/4	2,913.40	3/4	2,569.02		
5	5	5	5	5	5	5	4,588.96	5	4,274.07	5	3,938.94	5	3,594.71	5	3,250.47	5	2,906.23	5	2,561.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,582.63	1/4	4,267.31	1/4	3,931.77	1/4	3,587.54	1/4	3,243.30	1/4	2,899.06	1/4	2,554.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,576.27	1/2	4,260.52	1/2	3,924.60	1/2	3,580.36	1/2	3,236.13	1/2	2,891.89	1/2	2,547.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,569.91	3/4	4,253.73	3/4	3,917.43	3/4	3,573.19	3/4	3,228.96	3/4	2,884.72	3/4	2,540.32		
6	6	6	6	6	6	6	4,563.54	6	4,246.94	6	3,910.26	6	3,566.02	6	3,221.78	6	2,877.55	6	2,533.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,557.18	1/4	4,240.15	1/4	3,903.09	1/4	3,558.85	1/4	3,214.61	1/4	2,870.38	1/4	2,525.97		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,550.79	1/2	4,233.33	1/2	3,895.91	1/2	3,551.68	1/2	3,207.44	1/2	2,863.21	1/2	2,518.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.39	3/4	4,226.50	3/4	3,888.74	3/4	3,544.51	3/4	3,200.27	3/4	2,856.04	3/4	2,511.62		
7	7	7	7	7	7	7	4,538.00	7	4,219.67	7	3,881.57	7	3,537.33	7	3,193.10	7	2,848.87	7	2,504.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.60	1/4	4,212.85	1/4	3,874.40	1/4	3,530.16	1/4	3,185.93	1/4	2,841.70	1/4	2,497.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,525.18	1/2	4,205.98	1/2	3,867.23	1/2	3,522.99	1/2	3,178.75	1/2	2,834.52	1/2	2,490.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,518.75	3/4	4,199.10	3/4	3,860.06	3/4	3,515.82	3/4	3,171.58	3/4	2,827.35	3/4	2,482.91		
8	8	8	8	8	8	8	4,827.85	8	4,512.33	8	4,192.23	8	3,852.88	8	3,508.65	8	3,164.41	8	2,820.17	8	2,475.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,822.17	1/4	4,505.90	1/4	4,185.36	1/4	3,845.71	1/4	3,501.48	1/4	3,157.24	1/4	2,813.00	1/4	2,468.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,815.41	1/2	4,499.42	1/2	4,178.44	1/2	3,838.54	1/2	3,494.30	1/2	3,150.07	1/2	2,805.82	1/2	2,461.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,808.66	3/4	4,492.94	3/4	4,171.53	3/4	3,831.37	3/4	3,487.13	3/4	3,142.90	3/4	2,798.64	3/4	2,454.21
9	9	9	9	9	9	9	4,801.90	9	4,486.47	9	4,164.61	9	3,824.20	9	3,479.96	9	3,135.72	9	2,791.47	9	2,447.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,795.15	1/4	4,479.99	1/4	4,157.70	1/4	3,817.03	1/4	3,472.79	1/4	3,128.55	1/4	2,784.29	1/4	2,439.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,788.03	1/2	4,473.46	1/2	4,150.75	1/2	3,809.85	1/2	3,465.62	1/2	3,121.38	1/2	2,777.12	1/2	2,432.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,780.92	3/4	4,466.93	3/4	4,143.81	3/4	3,802.68	3/4	3,458.45	3/4	3,114.21	3/4	2,769.94	3/4	2,425.51
10	10	10	10	10	10	10	4,773.80	10	4,460.40	10	4,136.86	10	3,795.51	10	3,451.27	10	3,107.04	10	2,762.77	10	2,418.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,766.69	1/4	4,453.87	1/4	4,129.91	1/4	3,788.34	1/4	3,444.10	1/4	3,099.87	1/4	2,755.59	1/4	2,411.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,759.58	1/2	4,447.31	1/2	4,122.94	1/2	3,781.17	1/2	3,436.93	1/2	3,092.69	1/2	2,748.41	1/2	2,403.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,752.46	3/4	4,440.74	3/4	4,115.96	3/4	3,774.00	3/4	3,429.76	3/4	3,085.52	3/4	2,741.24	3/4	2,396.81
11	11	11	11	11	11	11	4,745.35	11	4,434.18	11	4,108.98	11	3,766.83	11	3,422.59	11	3,078.35	11	2,734.06	11	2,389.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,738.23	1/4	4,427.62	1/4	4,102.00	1/4	3,759.65	1/4	3,415.42	1/4	3,071.18	1/4	2,726.89	1/4	2,382.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.12	1/2	4,421.02	1/2	4,094.99	1/2	3,752.48	1/2	3,408.25	1/2	3,064.01	1/2	2,719.71	1/2	2,375.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,724.00	3/4	4,414.42	3/4	4,087.98	3/4	3,745.31	3/4	3,401.07	3/4	3,056.84	3/4	2,712.54	3/4	2,368.10

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
 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 "KIRBY 29042"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,360.93	0	2,016.49	0	1,672.06	0	1,327.63	0	989.35	0	653.14	0	308.72	0		0		0	
1/4	2,353.75	1/4	2,009.32	1/4	1,664.88	1/4	1,320.45	1/4	982.48	1/4	645.96	1/4	301.54	1/4		1/4		1/4	
1/2	2,346.58	1/2	2,002.14	1/2	1,657.71	1/2	1,313.27	1/2	975.61	1/2	638.79	1/2	294.37	1/2		1/2		1/2	
3/4	2,339.40	3/4	1,994.97	3/4	1,650.53	3/4	1,306.10	3/4	968.74	3/4	631.61	3/4	287.19	3/4		3/4		3/4	
1	2,332.22	1	1,987.79	1	1,643.36	1	1,298.92	1	961.87	1	624.44	1	280.02	1		1		1	
1/4	2,325.05	1/4	1,980.61	1/4	1,636.18	1/4	1,291.75	1/4	954.99	1/4	617.26	1/4	272.84	1/4		1/4		1/4	
1/2	2,317.87	1/2	1,973.44	1/2	1,629.01	1/2	1,284.57	1/2	948.12	1/2	610.09	1/2	265.67	1/2		1/2		1/2	
3/4	2,310.70	3/4	1,966.26	3/4	1,621.83	3/4	1,277.40	3/4	941.25	3/4	602.91	3/4	258.49	3/4		3/4		3/4	
2	2,303.52	2	1,959.09	2	1,614.65	2	1,270.22	2	934.38	2	595.74	2	251.32	2		2		2	
1/4	2,296.35	1/4	1,951.91	1/4	1,607.48	1/4	1,263.04	1/4	927.51	1/4	588.56	1/4	244.14	1/4		1/4		1/4	
1/2	2,289.17	1/2	1,944.74	1/2	1,600.30	1/2	1,255.87	1/2	920.64	1/2	581.38	1/2	236.97	1/2		1/2		1/2	
3/4	2,281.99	3/4	1,937.56	3/4	1,593.13	3/4	1,248.69	3/4	913.77	3/4	574.21	3/4	229.79	3/4		3/4		3/4	
3	2,274.82	3	1,930.38	3	1,585.95	3	1,241.52	3	906.89	3	567.03	3	222.61	3		3		3	
1/4	2,267.64	1/4	1,923.21	1/4	1,578.78	1/4	1,234.34	1/4	900.02	1/4	559.86	1/4	215.44	1/4		1/4		1/4	
1/2	2,260.47	1/2	1,916.03	1/2	1,571.60	1/2	1,227.17	1/2	893.15	1/2	552.68	1/2	208.26	1/2		1/2		1/2	
3/4	2,253.29	3/4	1,908.86	3/4	1,564.42	3/4	1,219.99	3/4	886.28	3/4	545.51	3/4	201.09	3/4		3/4		3/4	
4	2,246.12	4	1,901.68	4	1,557.25	4	1,212.81	4	879.41	4	538.33	4	193.91	4		4		4	
1/4	2,238.94	1/4	1,894.51	1/4	1,550.07	1/4	1,205.64	1/4	872.54	1/4	531.16	1/4	186.74	1/4		1/4		1/4	
1/2	2,231.76	1/2	1,887.33	1/2	1,542.90	1/2	1,198.46	1/2	865.66	1/2	523.98	1/2	179.56	1/2		1/2		1/2	
3/4	2,224.59	3/4	1,880.15	3/4	1,535.72	3/4	1,191.29	3/4	858.79	3/4	516.81	3/4	172.39	3/4		3/4		3/4	
5	2,217.41	5	1,872.98	5	1,528.55	5	1,184.11	5	851.92	5	509.63	5	165.21	5		5		5	
1/4	2,210.24	1/4	1,865.80	1/4	1,521.37	1/4	1,176.94	1/4	845.05	1/4	502.45	1/4	158.04	1/4		1/4		1/4	
1/2	2,203.06	1/2	1,858.63	1/2	1,514.19	1/2	1,169.76	1/2	838.18	1/2	495.28	1/2	150.86	1/2		1/2		1/2	
3/4	2,195.89	3/4	1,851.45	3/4	1,507.02	3/4	1,162.58	3/4	831.31	3/4	488.10	3/4	143.69	3/4		3/4		3/4	
6	2,188.71	6	1,844.28	6	1,499.84	6	1,155.41	6	824.44	6	480.93	6	136.51	6		6		6	
1/4	2,181.53	1/4	1,837.10	1/4	1,492.67	1/4	1,148.23	1/4	817.56	1/4	473.75	1/4	129.34	1/4		1/4		1/4	
1/2	2,174.36	1/2	1,829.92	1/2	1,485.49	1/2	1,141.20	1/2	810.54	1/2	466.58	1/2	122.17	1/2		1/2		1/2	
3/4	2,167.18	3/4	1,822.75	3/4	1,478.32	3/4	1,134.16	3/4	803.52	3/4	459.40	3/4	115.00	3/4		3/4		3/4	
7	2,160.01	7	1,815.57	7	1,471.14	7	1,127.13	7	796.49	7	452.23	7	107.83	7		7		7	
1/4	2,152.83	1/4	1,808.40	1/4	1,463.96	1/4	1,120.10	1/4	789.47	1/4	445.05	1/4	100.66	1/4		1/4		1/4	
1/2	2,145.66	1/2	1,801.22	1/2	1,456.79	1/2	1,113.20	1/2	782.30	1/2	437.88	1/2	93.51	1/2		1/2		1/2	
3/4	2,138.48	3/4	1,794.05	3/4	1,449.61	3/4	1,106.31	3/4	775.12	3/4	430.70	3/4	86.35	3/4		3/4		3/4	
8	2,131.30	8	1,786.87	8	1,442.44	8	1,099.42	8	767.94	8	423.53	8	79.20	8		8		8	
1/4	2,124.13	1/4	1,779.69	1/4	1,435.26	1/4	1,092.53	1/4	760.77	1/4	416.35	1/4	72.05	1/4		1/4		1/4	
1/2	2,116.95	1/2	1,772.52	1/2	1,428.09	1/2	1,085.64	1/2	753.59	1/2	409.17	1/2	65.34	1/2		1/2		1/2	
3/4	2,109.78	3/4	1,765.34	3/4	1,420.91	3/4	1,078.75	3/4	746.42	3/4	402.00	3/4	58.63	3/4		3/4		3/4	
9	2,102.60	9	1,758.17	9	1,413.73	9	1,071.87	9	739.24	9	394.82	9	51.92	9		9		9	
1/4	2,095.43	1/4	1,750.99	1/4	1,406.56	1/4	1,064.98	1/4	732.07	1/4	387.65	1/4	45.21	1/4		1/4		1/4	
1/2	2,088.25	1/2	1,743.82	1/2	1,399.38	1/2	1,058.10	1/2	724.89	1/2	380.47	1/2	39.83	1/2		1/2		1/2	
3/4	2,081.07	3/4	1,736.64	3/4	1,392.21	3/4	1,051.22	3/4	717.72	3/4	373.30	3/4	34.45	3/4		3/4		3/4	
10	2,073.90	10	1,729.46	10	1,385.03	10	1,044.35	10	710.54	10	366.12	10	29.07	10		10		10	
1/4	2,066.72	1/4	1,722.29	1/4	1,377.86	1/4	1,037.47	1/4	703.37	1/4	358.95	1/4	23.69	1/4		1/4		1/4	
1/2	2,059.55	1/2	1,715.11	1/2	1,370.68	1/2	1,030.59	1/2	696.19	1/2	351.77	1/2		1/2		1/2		1/2	
3/4	2,052.37	3/4	1,707.94	3/4	1,363.50	3/4	1,023.72	3/4	689.02	3/4	344.60	3/4		3/4		3/4		3/4	
11	2,045.20	11	1,700.76	11	1,356.33	11	1,016.84	11	681.84	11	337.42	11		11		11		11	
1/4	2,038.02	1/4	1,693.59	1/4	1,349.15	1/4	1,009.97	1/4	674.66	1/4	330.25	1/4		1/4		1/4		1/4	
1/2	2,030.84	1/2	1,686.41	1/2	1,341.98	1/2	1,003.09	1/2	667.49	1/2	323.07	1/2		1/2		1/2		1/2	
3/4	2,023.67	3/4	1,679.24	3/4	1,334.80	3/4	996.22	3/4	660.31	3/4	315.89	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-10 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		0	4,730.80	0	4,421.73	0	4,094.89	0	3,752.05	0	3,407.81	0	3,063.58	0	2,719.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,723.69	1/4	4,415.12	1/4	4,087.88	1/4	3,744.88	1/4	3,400.64	1/4	3,056.40	1/4	2,712.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,717.02	1/2	4,408.49	1/2	4,080.83	1/2	3,737.71	1/2	3,393.47	1/2	3,049.23	1/2	2,704.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,710.36	3/4	4,401.86	3/4	4,073.79	3/4	3,730.53	3/4	3,386.30	3/4	3,042.06	3/4	2,697.74		
1		1		1		1	4,703.69	1	4,395.23	1	4,066.74	1	3,723.36	1	3,379.13	1	3,034.89	1	2,690.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,697.02	1/4	4,388.60	1/4	4,059.70	1/4	3,716.19	1/4	3,371.95	1/4	3,027.72	1/4	2,683.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,690.79	1/2	4,381.93	1/2	4,052.61	1/2	3,709.02	1/2	3,364.78	1/2	3,020.55	1/2	2,676.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.56	3/4	4,375.27	3/4	4,045.53	3/4	3,701.85	3/4	3,357.61	3/4	3,013.37	3/4	2,669.04		
2		2		2		2	4,678.33	2	4,368.61	2	4,038.45	2	3,694.68	2	3,350.44	2	3,006.20	2	2,661.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,672.10	1/4	4,361.94	1/4	4,031.37	1/4	3,687.50	1/4	3,343.27	1/4	2,999.03	1/4	2,654.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,665.83	1/2	4,355.25	1/2	4,024.26	1/2	3,680.33	1/2	3,336.10	1/2	2,991.86	1/2	2,647.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,659.57	3/4	4,348.55	3/4	4,017.15	3/4	3,673.16	3/4	3,328.92	3/4	2,984.69	3/4	2,640.34		
3		3		3		3	4,653.31	3	4,341.86	3	4,010.03	3	3,665.99	3	3,321.75	3	2,977.52	3	2,633.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,647.05	1/4	4,335.16	1/4	4,002.92	1/4	3,658.82	1/4	3,314.58	1/4	2,970.34	1/4	2,625.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,640.75	1/2	4,328.44	1/2	3,995.78	1/2	3,651.65	1/2	3,307.41	1/2	2,963.17	1/2	2,618.81		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,634.46	3/4	4,321.71	3/4	3,988.63	3/4	3,644.47	3/4	3,300.24	3/4	2,956.00	3/4	2,611.64		
4		4		4		4	4,628.16	4	4,314.98	4	3,981.49	4	3,637.30	4	3,293.07	4	2,948.83	4	2,604.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,621.87	1/4	4,308.26	1/4	3,974.35	1/4	3,630.13	1/4	3,285.89	1/4	2,941.66	1/4	2,597.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,615.54	1/2	4,301.50	1/2	3,967.18	1/2	3,622.96	1/2	3,278.72	1/2	2,934.49	1/2	2,590.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,609.20	3/4	4,294.74	3/4	3,960.01	3/4	3,615.79	3/4	3,271.55	3/4	2,927.31	3/4	2,582.93		
5		5		5		5	4,602.87	5	4,287.98	5	3,952.85	5	3,608.62	5	3,264.38	5	2,920.14	5	2,575.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,596.54	1/4	4,281.22	1/4	3,945.68	1/4	3,601.45	1/4	3,257.21	1/4	2,912.97	1/4	2,568.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,590.18	1/2	4,274.43	1/2	3,938.51	1/2	3,594.27	1/2	3,250.04	1/2	2,905.80	1/2	2,561.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,583.82	3/4	4,267.64	3/4	3,931.34	3/4	3,587.10	3/4	3,242.87	3/4	2,898.63	3/4	2,554.23		
6		6		6		6	4,577.45	6	4,260.85	6	3,924.17	6	3,579.93	6	3,235.69	6	2,891.46	6	2,547.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,571.09	1/4	4,254.06	1/4	3,917.00	1/4	3,572.76	1/4	3,228.52	1/4	2,884.29	1/4	2,539.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,564.70	1/2	4,247.24	1/2	3,909.82	1/2	3,565.59	1/2	3,221.35	1/2	2,877.12	1/2	2,532.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,558.30	3/4	4,240.41	3/4	3,902.65	3/4	3,558.42	3/4	3,214.18	3/4	2,869.95	3/4	2,525.53		
7		7		7		7	4,551.91	7	4,233.58	7	3,895.48	7	3,551.24	7	3,207.01	7	2,862.78	7	2,518.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,545.51	1/4	4,226.76	1/4	3,888.31	1/4	3,544.07	1/4	3,199.84	1/4	2,855.61	1/4	2,511.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,539.09	1/2	4,219.89	1/2	3,881.14	1/2	3,536.90	1/2	3,192.66	1/2	2,848.43	1/2	2,504.00		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,532.66	3/4	4,213.01	3/4	3,873.97	3/4	3,529.73	3/4	3,185.49	3/4	2,841.26	3/4	2,496.82		
8		8		8		8	4,841.76	8	4,526.24	8	4,206.14	8	3,866.79	8	3,522.56	8	3,178.32	8	2,834.08	8	2,489.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,836.08	1/4	4,519.81	1/4	4,199.27	1/4	3,859.62	1/4	3,515.39	1/4	3,171.15	1/4	2,826.91	1/4	2,482.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,829.32	1/2	4,513.33	1/2	4,192.35	1/2	3,852.45	1/2	3,508.21	1/2	3,163.98	1/2	2,819.73	1/2	2,475.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,822.57	3/4	4,506.85	3/4	4,185.44	3/4	3,845.28	3/4	3,501.04	3/4	3,156.81	3/4	2,812.55	3/4	2,468.12
9		9		9		9	4,815.81	9	4,500.38	9	4,178.52	9	3,838.11	9	3,493.87	9	3,149.63	9	2,805.38	9	2,460.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,809.06	1/4	4,493.90	1/4	4,171.61	1/4	3,830.94	1/4	3,486.70	1/4	3,142.46	1/4	2,798.20	1/4	2,453.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,801.94	1/2	4,487.37	1/2	4,164.66	1/2	3,823.76	1/2	3,479.53	1/2	3,135.29	1/2	2,791.03	1/2	2,446.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,794.83	3/4	4,480.84	3/4	4,157.72	3/4	3,816.59	3/4	3,472.36	3/4	3,128.12	3/4	2,783.85	3/4	2,439.42
10		10		10		10	4,787.71	10	4,474.31	10	4,150.77	10	3,809.42	10	3,465.18	10	3,120.95	10	2,776.68	10	2,432.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,780.60	1/4	4,467.78	1/4	4,143.82	1/4	3,802.25	1/4	3,458.01	1/4	3,113.78	1/4	2,769.50	1/4	2,425.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,773.49	1/2	4,461.22	1/2	4,136.85	1/2	3,795.08	1/2	3,450.84	1/2	3,106.60	1/2	2,762.33	1/2	2,417.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,766.37	3/4	4,454.65	3/4	4,129.87	3/4	3,787.91	3/4	3,443.67	3/4	3,099.43	3/4	2,755.15	3/4	2,410.72
11		11		11		11	4,759.26	11	4,448.09	11	4,122.89	11	3,780.74	11	3,436.50	11	3,092.26	11	2,747.97	11	2,403.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,752.14	1/4	4,441.53	1/4	4,115.91	1/4	3,773.56	1/4	3,429.33	1/4	3,085.09	1/4	2,740.80	1/4	2,396.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,745.03	1/2	4,434.93	1/2	4,108.90	1/2	3,766.39	1/2	3,422.16	1/2	3,077.92	1/2	2,733.62	1/2	2,389.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,737.91	3/4	4,428.33	3/4	4,101.89	3/4	3,759.22	3/4	3,414.98	3/4	3,070.75	3/4	2,726.45	3/4	2,382.01

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
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 "KIRBY 29042"

2 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,374.84	0	2,030.40	0	1,685.97	0	1,341.54	0	997.21	0	653.14	0	308.72	0		0		0	
1/4	2,367.66	1/4	2,023.23	1/4	1,678.79	1/4	1,334.36	1/4	990.05	1/4	645.96	1/4	301.54	1/4		1/4		1/4	
1/2	2,360.49	1/2	2,016.05	1/2	1,671.62	1/2	1,327.19	1/2	982.89	1/2	638.79	1/2	294.37	1/2		1/2		1/2	
3/4	2,353.31	3/4	2,008.88	3/4	1,664.44	3/4	1,320.01	3/4	975.73	3/4	631.61	3/4	287.19	3/4		3/4		3/4	
1	2,346.13	1	2,001.70	1	1,657.27	1	1,312.83	1	968.56	1	624.44	1	280.02	1		1		1	
1/4	2,338.96	1/4	1,994.53	1/4	1,650.09	1/4	1,305.66	1/4	961.40	1/4	617.26	1/4	272.84	1/4		1/4		1/4	
1/2	2,331.78	1/2	1,987.35	1/2	1,642.92	1/2	1,298.48	1/2	954.24	1/2	610.09	1/2	265.67	1/2		1/2		1/2	
3/4	2,324.61	3/4	1,980.17	3/4	1,635.74	3/4	1,291.31	3/4	947.08	3/4	602.91	3/4	258.49	3/4		3/4		3/4	
2	2,317.43	2	1,973.00	2	1,628.56	2	1,284.13	2	939.91	2	595.73	2	251.32	2		2		2	
1/4	2,310.26	1/4	1,965.82	1/4	1,621.39	1/4	1,276.96	1/4	932.75	1/4	588.56	1/4	244.14	1/4		1/4		1/4	
1/2	2,303.08	1/2	1,958.65	1/2	1,614.21	1/2	1,269.78	1/2	925.59	1/2	581.38	1/2	236.96	1/2		1/2		1/2	
3/4	2,295.90	3/4	1,951.47	3/4	1,607.04	3/4	1,262.60	3/4	918.42	3/4	574.21	3/4	229.79	3/4		3/4		3/4	
3	2,288.73	3	1,944.30	3	1,599.86	3	1,255.43	3	911.26	3	567.03	3	222.61	3		3		3	
1/4	2,281.55	1/4	1,937.12	1/4	1,592.69	1/4	1,248.25	1/4	904.10	1/4	559.86	1/4	215.44	1/4		1/4		1/4	
1/2	2,274.38	1/2	1,929.94	1/2	1,585.51	1/2	1,241.08	1/2	896.94	1/2	552.68	1/2	208.26	1/2		1/2		1/2	
3/4	2,267.20	3/4	1,922.77	3/4	1,578.33	3/4	1,233.90	3/4	889.77	3/4	545.51	3/4	201.09	3/4		3/4		3/4	
4	2,260.03	4	1,915.59	4	1,571.16	4	1,226.73	4	882.61	4	538.33	4	193.91	4		4		4	
1/4	2,252.85	1/4	1,908.42	1/4	1,563.98	1/4	1,219.55	1/4	875.45	1/4	531.16	1/4	186.74	1/4		1/4		1/4	
1/2	2,245.67	1/2	1,901.24	1/2	1,556.81	1/2	1,212.37	1/2	868.29	1/2	523.98	1/2	179.56	1/2		1/2		1/2	
3/4	2,238.50	3/4	1,894.07	3/4	1,549.63	3/4	1,205.20	3/4	861.12	3/4	516.81	3/4	172.39	3/4		3/4		3/4	
5	2,231.32	5	1,886.89	5	1,542.46	5	1,198.02	5	853.96	5	509.63	5	165.21	5		5		5	
1/4	2,224.15	1/4	1,879.71	1/4	1,535.28	1/4	1,190.85	1/4	846.80	1/4	502.45	1/4	158.04	1/4		1/4		1/4	
1/2	2,216.97	1/2	1,872.54	1/2	1,528.10	1/2	1,183.67	1/2	839.63	1/2	495.28	1/2	150.86	1/2		1/2		1/2	
3/4	2,209.80	3/4	1,865.36	3/4	1,520.93	3/4	1,176.50	3/4	832.47	3/4	488.10	3/4	143.69	3/4		3/4		3/4	
6	2,202.62	6	1,858.19	6	1,513.75	6	1,169.32	6	825.31	6	480.93	6	136.51	6		6		6	
1/4	2,195.44	1/4	1,851.01	1/4	1,506.58	1/4	1,162.14	1/4	818.15	1/4	473.75	1/4	129.34	1/4		1/4		1/4	
1/2	2,188.27	1/2	1,843.84	1/2	1,499.40	1/2	1,154.97	1/2	810.98	1/2	466.58	1/2	122.17	1/2		1/2		1/2	
3/4	2,181.09	3/4	1,836.66	3/4	1,492.23	3/4	1,147.79	3/4	803.81	3/4	459.40	3/4	115.00	3/4		3/4		3/4	
7	2,173.92	7	1,829.48	7	1,485.05	7	1,140.62	7	796.64	7	452.23	7	107.83	7		7		7	
1/4	2,166.74	1/4	1,822.31	1/4	1,477.87	1/4	1,133.44	1/4	789.47	1/4	445.05	1/4	100.66	1/4		1/4		1/4	
1/2	2,159.57	1/2	1,815.13	1/2	1,470.70	1/2	1,126.27	1/2	782.30	1/2	437.88	1/2	93.50	1/2		1/2		1/2	
3/4	2,152.39	3/4	1,807.96	3/4	1,463.52	3/4	1,119.09	3/4	775.12	3/4	430.70	3/4	86.35	3/4		3/4		3/4	
8	2,145.21	8	1,800.78	8	1,456.35	8	1,111.91	8	767.94	8	423.53	8	79.20	8		8		8	
1/4	2,138.04	1/4	1,793.61	1/4	1,449.17	1/4	1,104.74	1/4	760.77	1/4	416.35	1/4	72.05	1/4		1/4		1/4	
1/2	2,130.86	1/2	1,786.43	1/2	1,442.00	1/2	1,097.57	1/2	753.59	1/2	409.17	1/2	65.34	1/2		1/2		1/2	
3/4	2,123.69	3/4	1,779.25	3/4	1,434.82	3/4	1,090.39	3/4	746.42	3/4	402.00	3/4	58.63	3/4		3/4		3/4	
9	2,116.51	9	1,772.08	9	1,427.64	9	1,083.22	9	739.24	9	394.82	9	51.92	9		9		9	
1/4	2,109.34	1/4	1,764.90	1/4	1,420.47	1/4	1,076.05	1/4	732.07	1/4	387.65	1/4	45.21	1/4		1/4		1/4	
1/2	2,102.16	1/2	1,757.73	1/2	1,413.29	1/2	1,068.88	1/2	724.89	1/2	380.47	1/2	39.83	1/2		1/2		1/2	
3/4	2,094.99	3/4	1,750.55	3/4	1,406.12	3/4	1,061.71	3/4	717.72	3/4	373.30	3/4	34.45	3/4		3/4		3/4	
10	2,087.81	10	1,743.38	10	1,398.94	10	1,054.54	10	710.54	10	366.12	10	29.07	10		10		10	
1/4	2,080.63	1/4	1,736.20	1/4	1,391.77	1/4	1,047.37	1/4	703.37	1/4	358.95	1/4	23.69	1/4		1/4		1/4	
1/2	2,073.46	1/2	1,729.02	1/2	1,384.59	1/2	1,040.20	1/2	696.19	1/2	351.77	1/2		1/2		1/2		1/2	
3/4	2,066.28	3/4	1,721.85	3/4	1,377.42	3/4	1,033.03	3/4	689.01	3/4	344.60	3/4		3/4		3/4		3/4	
11	2,059.11	11	1,714.67	11	1,370.24	11	1,025.87	11	681.84	11	337.42	11		11		11		11	
1/4	2,051.93	1/4	1,707.50	1/4	1,363.06	1/4	1,018.70	1/4	674.66	1/4	330.24	1/4		1/4		1/4		1/4	
1/2	2,044.76	1/2	1,700.32	1/2	1,355.89	1/2	1,011.54	1/2	667.49	1/2	323.07	1/2		1/2		1/2		1/2	
3/4	2,037.58	3/4	1,693.15	3/4	1,348.71	3/4	1,004.38	3/4	660.31	3/4	315.89	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

3 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-09 00"

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	4,549.16	0	4,323.22	0	4,082.37	0	3,830.86	0	3,550.95	0	3,187.77	0	2,823.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,544.60	1/4	4,318.34	1/4	4,077.18	1/4	3,825.61	1/4	3,543.39	1/4	3,180.19	1/4	2,816.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,540.03	1/2	4,313.46	1/2	4,072.00	1/2	3,820.36	1/2	3,535.83	1/2	3,172.61	1/2	2,808.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,535.47	3/4	4,308.58	3/4	4,066.81	3/4	3,815.11	3/4	3,528.27	3/4	3,165.03	3/4	2,801.15		
1		1		1		1	4,530.90	1	4,303.70	1	4,061.63	1	3,809.86	1	3,520.72	1	3,157.45	1	2,793.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,526.31	1/4	4,298.79	1/4	4,056.42	1/4	3,804.61	1/4	3,513.16	1/4	3,149.87	1/4	2,785.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,521.72	1/2	4,293.89	1/2	4,051.21	1/2	3,799.36	1/2	3,505.60	1/2	3,142.29	1/2	2,778.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,517.14	3/4	4,288.99	3/4	4,046.01	3/4	3,794.10	3/4	3,498.04	3/4	3,134.72	3/4	2,770.83		
2		2		2		2	4,512.55	2	4,284.08	2	4,040.80	2	3,788.85	2	3,490.48	2	3,127.14	2	2,763.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,507.94	1/4	4,279.16	1/4	4,035.57	1/4	3,783.60	1/4	3,482.92	1/4	3,119.56	1/4	2,755.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,503.32	1/2	4,274.23	1/2	4,030.34	1/2	3,778.35	1/2	3,475.37	1/2	3,111.98	1/2	2,748.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.71	3/4	4,269.30	3/4	4,025.11	3/4	3,773.10	3/4	3,467.81	3/4	3,104.40	3/4	2,740.50		
3		3		3		3	4,494.10	3	4,264.38	3	4,019.87	3	3,767.85	3	3,460.25	3	3,096.82	3	2,732.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,489.46	1/4	4,259.43	1/4	4,014.63	1/4	3,762.60	1/4	3,452.69	1/4	3,089.24	1/4	2,725.34		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,484.82	1/2	4,254.48	1/2	4,009.38	1/2	3,757.35	1/2	3,445.13	1/2	3,081.66	1/2	2,717.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,480.18	3/4	4,249.53	3/4	4,004.14	3/4	3,752.10	3/4	3,437.57	3/4	3,074.08	3/4	2,710.17		
4		4		4		4	4,475.54	4	4,244.58	4	3,998.89	4	3,746.85	4	3,430.01	4	3,066.50	4	2,702.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,470.88	1/4	4,239.61	1/4	3,993.64	1/4	3,741.59	1/4	3,422.46	1/4	3,058.92	1/4	2,695.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,466.22	1/2	4,234.63	1/2	3,988.39	1/2	3,736.34	1/2	3,414.90	1/2	3,051.34	1/2	2,687.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,461.56	3/4	4,229.66	3/4	3,983.14	3/4	3,731.09	3/4	3,407.34	3/4	3,043.77	3/4	2,679.84		
5		5		5		5	4,456.90	5	4,224.69	5	3,977.89	5	3,725.84	5	3,399.78	5	3,036.19	5	2,672.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,452.21	1/4	4,219.69	1/4	3,972.64	1/4	3,720.59	1/4	3,392.22	1/4	3,028.61	1/4	2,664.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.53	1/2	4,214.69	1/2	3,967.39	1/2	3,715.34	1/2	3,384.66	1/2	3,021.03	1/2	2,657.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,442.84	3/4	4,209.69	3/4	3,962.14	3/4	3,710.09	3/4	3,377.10	3/4	3,013.45	3/4	2,649.51		
6		6		6		6	4,438.16	6	4,204.69	6	3,956.89	6	3,704.84	6	3,369.55	6	3,005.87	6	2,641.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,433.45	1/4	4,199.66	1/4	3,951.63	1/4	3,699.59	1/4	3,361.99	1/4	2,998.28	1/4	2,634.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,657.94	1/2	4,428.74	1/2	4,194.62	1/2	3,946.38	1/2	3,694.34	1/2	3,354.43	1/2	2,990.70	1/2	2,626.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,654.25	3/4	4,424.03	3/4	4,189.59	3/4	3,941.13	3/4	3,689.08	3/4	3,346.87	3/4	2,983.12	3/4	2,619.15
7		7		7		7	4,650.56	7	4,419.32	7	4,184.56	7	3,935.88	7	3,683.83	7	3,339.31	7	2,975.54	7	2,611.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,645.73	1/4	4,414.58	1/4	4,179.50	1/4	3,930.63	1/4	3,678.58	1/4	3,331.74	1/4	2,967.96	1/4	2,603.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,640.90	1/2	4,409.83	1/2	4,174.43	1/2	3,925.38	1/2	3,673.33	1/2	3,324.17	1/2	2,960.37	1/2	2,596.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,636.07	3/4	4,405.09	3/4	4,169.37	3/4	3,920.13	3/4	3,668.08	3/4	3,316.61	3/4	2,952.79	3/4	2,588.80
8		8		8		8	4,631.24	8	4,400.34	8	4,164.31	8	3,914.88	8	3,662.83	8	3,309.04	8	2,945.21	8	2,581.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,626.03	1/4	4,395.56	1/4	4,159.22	1/4	3,909.63	1/4	3,656.99	1/4	3,301.46	1/4	2,937.63	1/4	2,573.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,620.81	1/2	4,390.78	1/2	4,154.14	1/2	3,904.38	1/2	3,651.15	1/2	3,293.88	1/2	2,930.05	1/2	2,566.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,615.60	3/4	4,386.00	3/4	4,149.05	3/4	3,899.12	3/4	3,645.31	3/4	3,286.30	3/4	2,922.46	3/4	2,558.44
9		9		9		9	4,610.39	9	4,381.22	9	4,143.96	9	3,893.87	9	3,639.48	9	3,278.72	9	2,914.88	9	2,550.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,605.18	1/4	4,376.41	1/4	4,138.86	1/4	3,888.62	1/4	3,632.48	1/4	3,271.14	1/4	2,907.30	1/4	2,543.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,599.97	1/2	4,371.60	1/2	4,133.75	1/2	3,883.37	1/2	3,625.48	1/2	3,263.56	1/2	2,899.72	1/2	2,535.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,594.76	3/4	4,366.79	3/4	4,128.64	3/4	3,878.12	3/4	3,618.48	3/4	3,255.98	3/4	2,892.14	3/4	2,528.14
10		10		10		10	4,589.54	10	4,361.98	10	4,123.53	10	3,872.87	10	3,611.49	10	3,248.40	10	2,884.56	10	2,520.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,584.33	1/4	4,357.15	1/4	4,118.40	1/4	3,867.62	1/4	3,603.92	1/4	3,240.82	1/4	2,876.97	1/4	2,513.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,579.12	1/2	4,352.32	1/2	4,113.26	1/2	3,862.37	1/2	3,596.35	1/2	3,233.25	1/2	2,869.39	1/2	2,505.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.91	3/4	4,347.48	3/4	4,108.13	3/4	3,857.12	3/4	3,588.78	3/4	3,225.67	3/4	2,861.81	3/4	2,497.92
11		11		11		11	4,568.70	11	4,342.65	11	4,103.00	11	3,851.87	11	3,581.21	11	3,218.09	11	2,854.23	11	2,490.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.81	1/4	4,337.79	1/4	4,097.84	1/4	3,846.61	1/4	3,573.64	1/4	3,210.51	1/4	2,846.65	1/4	2,482.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.93	1/2	4,332.93	1/2	4,092.68	1/2	3,841.36	1/2	3,566.08	1/2	3,202.93	1/2	2,839.06	1/2	2,475.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,554.05	3/4	4,328.08	3/4	4,087.52	3/4	3,836.11	3/4	3,558.51	3/4	3,195.35	3/4	2,831.48	3/4	2,467.72

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44' 00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29042"

3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-09 00"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

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	2,460.17	0	2,098.37	0	1,735.47	0	1,371.18	0	1,012.66	0	653.33	0	288.88	0		0			
1/4	2,452.61	1/4	2,090.84	1/4	1,727.88	1/4	1,363.60	1/4	1,005.30	1/4	645.74	1/4	281.29	1/4		1/4			
1/2	2,445.06	1/2	2,083.31	1/2	1,720.29	1/2	1,356.01	1/2	997.94	1/2	638.14	1/2	273.70	1/2		1/2			
3/4	2,437.51	3/4	2,075.79	3/4	1,712.70	3/4	1,348.42	3/4	990.59	3/4	630.55	3/4	266.11	3/4		3/4			
1	2,429.96	1	2,068.26	1	1,705.11	1	1,340.83	1	983.23	1	622.96	1	258.51	1		1			
1/4	2,422.41	1/4	2,060.73	1/4	1,697.52	1/4	1,333.24	1/4	975.87	1/4	615.36	1/4	250.92	1/4		1/4			
1/2	2,414.86	1/2	2,053.21	1/2	1,689.93	1/2	1,325.65	1/2	968.51	1/2	607.77	1/2	243.33	1/2		1/2			
3/4	2,407.31	3/4	2,045.68	3/4	1,682.34	3/4	1,318.06	3/4	961.15	3/4	600.18	3/4	235.73	3/4		3/4			
2	2,399.76	2	2,038.16	2	1,674.75	2	1,310.47	2	953.79	2	592.58	2	228.14	2		2			
1/4	2,392.21	1/4	2,030.63	1/4	1,667.16	1/4	1,302.88	1/4	946.43	1/4	584.99	1/4	220.55	1/4		1/4			
1/2	2,384.66	1/2	2,023.10	1/2	1,659.57	1/2	1,295.29	1/2	939.07	1/2	577.40	1/2	212.96	1/2		1/2			
3/4	2,377.11	3/4	2,015.58	3/4	1,651.98	3/4	1,287.70	3/4	931.71	3/4	569.80	3/4	205.36	3/4		3/4			
3	2,369.56	3	2,008.05	3	1,644.40	3	1,280.11	3	924.35	3	562.21	3	197.77	3		3			
1/4	2,362.01	1/4	2,000.52	1/4	1,636.81	1/4	1,272.52	1/4	916.99	1/4	554.62	1/4	190.17	1/4		1/4			
1/2	2,354.46	1/2	1,993.00	1/2	1,629.22	1/2	1,264.94	1/2	909.63	1/2	547.02	1/2	182.58	1/2		1/2			
3/4	2,346.90	3/4	1,985.47	3/4	1,621.63	3/4	1,257.35	3/4	902.27	3/4	539.43	3/4	174.99	3/4		3/4			
4	2,339.35	4	1,977.95	4	1,614.04	4	1,249.76	4	894.91	4	531.84	4	167.39	4		4			
1/4	2,331.80	1/4	1,970.42	1/4	1,606.45	1/4	1,242.17	1/4	887.55	1/4	524.24	1/4	159.80	1/4		1/4			
1/2	2,324.25	1/2	1,962.89	1/2	1,598.86	1/2	1,234.58	1/2	880.20	1/2	516.65	1/2	152.20	1/2		1/2			
3/4	2,316.70	3/4	1,955.37	3/4	1,591.27	3/4	1,226.99	3/4	872.84	3/4	509.06	3/4	144.61	3/4		3/4			
5	2,309.15	5	1,947.84	5	1,583.68	5	1,219.40	5	865.48	5	501.46	5	137.02	5		5			
1/4	2,301.61	1/4	1,940.28	1/4	1,576.09	1/4	1,211.92	1/4	858.00	1/4	493.87	1/4	129.43	1/4		1/4			
1/2	2,294.07	1/2	1,932.72	1/2	1,568.50	1/2	1,204.43	1/2	850.52	1/2	486.28	1/2	121.83	1/2		1/2			
3/4	2,286.54	3/4	1,925.17	3/4	1,560.91	3/4	1,196.95	3/4	843.05	3/4	478.68	3/4	114.24	3/4		3/4			
6	2,279.00	6	1,917.61	6	1,553.33	6	1,189.46	6	835.57	6	471.09	6	106.65	6		6			
1/4	2,271.47	1/4	1,910.02	1/4	1,545.74	1/4	1,182.09	1/4	827.98	1/4	463.50	1/4	99.07	1/4		1/4			
1/2	2,263.94	1/2	1,902.43	1/2	1,538.15	1/2	1,174.71	1/2	820.38	1/2	455.91	1/2	91.49	1/2		1/2			
3/4	2,256.42	3/4	1,894.84	3/4	1,530.56	3/4	1,167.33	3/4	812.79	3/4	448.32	3/4	83.91	3/4		3/4			
7	2,248.89	7	1,887.25	7	1,522.97	7	1,159.95	7	805.20	7	440.72	7	76.34	7		7			
1/4	2,241.37	1/4	1,879.66	1/4	1,515.38	1/4	1,152.58	1/4	797.60	1/4	433.13	1/4	69.23	1/4		1/4			
1/2	2,233.84	1/2	1,872.07	1/2	1,507.79	1/2	1,145.20	1/2	790.01	1/2	425.54	1/2	62.11	1/2		1/2			
3/4	2,226.31	3/4	1,864.48	3/4	1,500.20	3/4	1,137.83	3/4	782.42	3/4	417.95	3/4	55.00	3/4		3/4			
8	2,218.79	8	1,856.89	8	1,492.61	8	1,130.46	8	774.82	8	410.35	8	47.89	8		8			
1/4	2,211.26	1/4	1,849.30	1/4	1,485.02	1/4	1,123.09	1/4	767.23	1/4	402.76	1/4	42.19	1/4		1/4			
1/2	2,203.73	1/2	1,841.71	1/2	1,477.43	1/2	1,115.72	1/2	759.64	1/2	395.17	1/2	36.49	1/2		1/2			
3/4	2,196.21	3/4	1,834.13	3/4	1,469.84	3/4	1,108.36	3/4	752.04	3/4	387.58	3/4	30.78	3/4		3/4			
9	2,188.68	9	1,826.54	9	1,462.25	9	1,100.99	9	744.45	9	379.99	9	25.08	9		9			
1/4	2,181.16	1/4	1,818.95	1/4	1,454.67	1/4	1,093.63	1/4	736.86	1/4	372.39	1/4		1/4		1/4			
1/2	2,173.63	1/2	1,811.36	1/2	1,447.08	1/2	1,086.26	1/2	729.26	1/2	364.80	1/2		1/2		1/2			
3/4	2,166.10	3/4	1,803.77	3/4	1,439.49	3/4	1,078.90	3/4	721.67	3/4	357.21	3/4		3/4		3/4			
10	2,158.58	10	1,796.18	10	1,431.90	10	1,071.54	10	714.08	10	349.62	10		10		10			
1/4	2,151.05	1/4	1,788.59	1/4	1,424.31	1/4	1,064.18	1/4	706.48	1/4	342.03	1/4		1/4		1/4			
1/2	2,143.52	1/2	1,781.00	1/2	1,416.72	1/2	1,056.82	1/2	698.89	1/2	334.43	1/2		1/2		1/2			
3/4	2,136.00	3/4	1,773.41	3/4	1,409.13	3/4	1,049.46	3/4	691.30	3/4	326.84	3/4		3/4		3/4			
11	2,128.47	11	1,765.82	11	1,401.54	11	1,042.10	11	683.70	11	319.25	11		11		11			
1/4	2,120.95	1/4	1,758.23	1/4	1,393.95	1/4	1,034.74	1/4	676.11	1/4	311.66	1/4		1/4		1/4			
1/2	2,113.42	1/2	1,750.64	1/2	1,386.36	1/2	1,027.38	1/2	668.52	1/2	304.07	1/2		1/2		1/2			
3/4	2,105.89	3/4	1,743.06	3/4	1,378.77	3/4	1,020.02	3/4	660.92	3/4	296.47	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

3 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

GAUGE HEIGHT 16'-09 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		0	4,577.19	0	4,351.37	0	4,111.30	0	3,860.18	0	3,585.05	0	3,221.39	0	2,857.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,572.31	1/4	4,346.52	1/4	4,106.15	1/4	3,854.93	1/4	3,577.48	1/4	3,213.80	1/4	2,849.41		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,567.43	1/2	4,341.66	1/2	4,101.00	1/2	3,849.68	1/2	3,569.91	1/2	3,206.21	1/2	2,841.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,562.87	3/4	4,336.79	3/4	4,095.82	3/4	3,844.44	3/4	3,562.34	3/4	3,198.62	3/4	2,834.23		
1	1	1	1	1	1	1	4,558.30	1	4,331.91	1	4,090.63	1	3,839.19	1	3,554.77	1	3,191.03	1	2,826.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,553.74	1/4	4,327.03	1/4	4,085.45	1/4	3,833.94	1/4	3,547.20	1/4	3,183.44	1/4	2,819.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,549.18	1/2	4,322.16	1/2	4,080.27	1/2	3,828.70	1/2	3,539.63	1/2	3,175.85	1/2	2,811.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.60	3/4	4,317.26	3/4	4,075.07	3/4	3,823.45	3/4	3,532.07	3/4	3,168.26	3/4	2,803.86		
2	2	2	2	2	2	2	4,540.01	2	4,312.36	2	4,069.87	2	3,818.20	2	3,524.50	2	3,160.67	2	2,796.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,535.43	1/4	4,307.46	1/4	4,064.66	1/4	3,812.95	1/4	3,516.93	1/4	3,153.08	1/4	2,788.67		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,530.84	1/2	4,302.56	1/2	4,059.46	1/2	3,807.71	1/2	3,509.36	1/2	3,145.49	1/2	2,781.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,526.23	3/4	4,297.64	3/4	4,054.23	3/4	3,802.46	3/4	3,501.79	3/4	3,137.90	3/4	2,773.49		
3	3	3	3	3	3	3	4,521.63	3	4,292.71	3	4,049.01	3	3,797.21	3	3,494.22	3	3,130.31	3	2,765.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,517.02	1/4	4,287.79	1/4	4,043.78	1/4	3,791.97	1/4	3,486.65	1/4	3,122.72	1/4	2,758.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,512.41	1/2	4,282.87	1/2	4,038.55	1/2	3,786.72	1/2	3,479.08	1/2	3,115.13	1/2	2,750.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,507.77	3/4	4,277.92	3/4	4,033.31	3/4	3,781.47	3/4	3,471.51	3/4	3,107.54	3/4	2,743.11		
4	4	4	4	4	4	4	4,503.14	4	4,272.97	4	4,028.07	4	3,776.23	4	3,463.94	4	3,099.95	4	2,735.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,498.50	1/4	4,268.03	1/4	4,022.83	1/4	3,770.98	1/4	3,456.37	1/4	3,092.36	1/4	2,727.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,493.87	1/2	4,263.08	1/2	4,017.58	1/2	3,765.73	1/2	3,448.80	1/2	3,084.77	1/2	2,720.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,489.21	3/4	4,258.11	3/4	4,012.34	3/4	3,760.49	3/4	3,441.23	3/4	3,077.18	3/4	2,712.74		
5	5	5	5	5	5	5	4,484.55	5	4,253.14	5	4,007.09	5	3,755.24	5	3,433.66	5	3,069.59	5	2,705.15		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,479.89	1/4	4,248.18	1/4	4,001.84	1/4	3,749.99	1/4	3,426.10	1/4	3,062.00	1/4	2,697.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,475.23	1/2	4,243.21	1/2	3,996.60	1/2	3,744.74	1/2	3,418.53	1/2	3,054.41	1/2	2,689.97		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,470.55	3/4	4,238.21	3/4	3,991.35	3/4	3,739.50	3/4	3,410.96	3/4	3,046.82	3/4	2,682.37		
6	6	6	6	6	6	6	4,465.87	6	4,233.22	6	3,986.10	6	3,734.25	6	3,403.39	6	3,039.23	6	2,674.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,461.19	1/4	4,228.22	1/4	3,980.86	1/4	3,729.00	1/4	3,395.82	1/4	3,031.64	1/4	2,667.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,456.51	1/2	4,223.22	1/2	3,975.61	1/2	3,723.76	1/2	3,388.25	1/2	3,024.04	1/2	2,659.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,451.80	3/4	4,218.20	3/4	3,970.36	3/4	3,718.51	3/4	3,380.68	3/4	3,016.45	3/4	2,651.99		
7	7	7	7	7	7	7	4,447.10	7	4,213.17	7	3,965.11	7	3,713.26	7	3,373.11	7	3,008.86	7	2,644.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,442.44	1/4	4,208.14	1/4	3,959.87	1/4	3,708.02	1/4	3,365.54	1/4	3,001.27	1/4	2,636.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,437.75	1/2	4,203.11	1/2	3,954.62	1/2	3,702.77	1/2	3,357.97	1/2	2,993.67	1/2	2,629.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,433.02	3/4	4,198.05	3/4	3,949.37	3/4	3,697.52	3/4	3,350.39	3/4	2,986.08	3/4	2,621.59		
8	8	8	8	8	8	8	4,428.21	8	4,192.99	8	3,944.13	8	3,692.28	8	3,342.81	8	2,978.49	8	2,613.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,423.47	1/4	4,187.93	1/4	3,938.88	1/4	3,687.03	1/4	3,335.23	1/4	2,970.90	1/4	2,606.39		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,418.73	1/2	4,182.88	1/2	3,933.63	1/2	3,681.78	1/2	3,327.65	1/2	2,963.30	1/2	2,598.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,413.95	3/4	4,177.79	3/4	3,928.39	3/4	3,675.95	3/4	3,320.06	3/4	2,955.71	3/4	2,591.19		
9	9	9	9	9	9	9	4,409.17	9	4,172.71	9	3,923.14	9	3,670.11	9	3,312.47	9	2,948.12	9	2,583.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,404.39	1/4	4,167.63	1/4	3,917.89	1/4	3,664.28	1/4	3,304.88	1/4	2,940.52	1/4	2,575.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,400.00	1/2	4,162.55	1/2	3,912.65	1/2	3,658.45	1/2	3,297.29	1/2	2,932.93	1/2	2,568.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,394.81	3/4	4,157.44	3/4	3,907.40	3/4	3,651.45	3/4	3,289.70	3/4	2,925.34	3/4	2,560.79		
10	10	10	10	10	10	10	4,418.19	10	4,390.01	10	4,152.34	10	3,902.15	10	3,644.46	10	3,282.11	10	2,917.75	10	2,553.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,412.99	1/4	4,385.20	1/4	4,147.23	1/4	3,896.90	1/4	3,637.46	1/4	3,274.52	1/4	2,910.15	1/4	2,545.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,407.78	1/2	4,380.40	1/2	4,142.13	1/2	3,891.66	1/2	3,630.47	1/2	3,266.93	1/2	2,902.56	1/2	2,537.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.57	3/4	4,375.57	3/4	4,137.00	3/4	3,886.41	3/4	3,622.90	3/4	3,259.34	3/4	2,894.97	3/4	2,530.39
11	11	11	11	11	11	11	4,597.36	11	4,370.74	11	4,131.87	11	3,881.16	11	3,615.33	11	3,251.75	11	2,887.38	11	2,522.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,592.15	1/4	4,365.91	1/4	4,126.74	1/4	3,875.92	1/4	3,607.76	1/4	3,244.16	1/4	2,879.78	1/4	2,515.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,586.95	1/2	4,361.08	1/2	4,121.61	1/2	3,870.67	1/2	3,600.19	1/2	3,236.57	1/2	2,872.19	1/2	2,507.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,582.07	3/4	4,356.22	3/4	4,116.46	3/4	3,865.42	3/4	3,592.62	3/4	3,228.98	3/4	2,864.60	3/4	2,499.99

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 WITH "HERMETIC CLOSED GAUGING DEVICE"
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44' 00" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29042"

3 STBD ULLAGE TABLE HERMETIC

GAUGE HEIGHT 16'-09 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 338"

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	2,492.39	0	2,127.59	0	1,762.79	0	1,397.99	0	1,033.37	0	668.94	0	304.16	0		0		0	
1/4	2,484.79	1/4	2,119.99	1/4	1,755.19	1/4	1,390.39	1/4	1,025.79	1/4	661.34	1/4	296.56	1/4		1/4		1/4	
1/2	2,477.19	1/2	2,112.39	1/2	1,747.59	1/2	1,382.79	1/2	1,018.20	1/2	653.74	1/2	288.96	1/2		1/2		1/2	
3/4	2,469.59	3/4	2,104.79	3/4	1,739.99	3/4	1,375.19	3/4	1,010.62	3/4	646.14	3/4	281.36	3/4		3/4		3/4	
1	2,461.99	1	2,097.19	1	1,732.39	1	1,367.59	1	1,003.03	1	638.54	1	273.76	1		1		1	
1/4	2,454.39	1/4	2,089.59	1/4	1,724.79	1/4	1,359.99	1/4	995.45	1/4	630.94	1/4	266.16	1/4		1/4		1/4	
1/2	2,446.79	1/2	2,081.99	1/2	1,717.19	1/2	1,352.39	1/2	987.86	1/2	623.34	1/2	258.56	1/2		1/2		1/2	
3/4	2,439.19	3/4	2,074.39	3/4	1,709.59	3/4	1,344.79	3/4	980.28	3/4	615.74	3/4	250.96	3/4		3/4		3/4	
2	2,431.59	2	2,066.79	2	1,701.99	2	1,337.19	2	972.69	2	608.14	2	243.36	2		2		2	
1/4	2,423.99	1/4	2,059.19	1/4	1,694.39	1/4	1,329.59	1/4	965.11	1/4	600.54	1/4	235.76	1/4		1/4		1/4	
1/2	2,416.39	1/2	2,051.59	1/2	1,686.79	1/2	1,321.99	1/2	957.52	1/2	592.94	1/2	228.16	1/2		1/2		1/2	
3/4	2,408.79	3/4	2,043.99	3/4	1,679.19	3/4	1,314.39	3/4	949.94	3/4	585.34	3/4	220.56	3/4		3/4		3/4	
3	2,401.19	3	2,036.39	3	1,671.59	3	1,306.79	3	942.35	3	577.74	3	212.96	3		3		3	
1/4	2,393.59	1/4	2,028.79	1/4	1,663.99	1/4	1,299.19	1/4	934.77	1/4	570.15	1/4	205.36	1/4		1/4		1/4	
1/2	2,385.99	1/2	2,021.19	1/2	1,656.39	1/2	1,291.59	1/2	927.19	1/2	562.55	1/2	197.76	1/2		1/2		1/2	
3/4	2,378.39	3/4	2,013.59	3/4	1,648.79	3/4	1,283.99	3/4	919.60	3/4	554.95	3/4	190.16	3/4		3/4		3/4	
4	2,370.79	4	2,005.99	4	1,641.19	4	1,276.39	4	912.02	4	547.35	4	182.56	4		4		4	
1/4	2,363.19	1/4	1,998.39	1/4	1,633.59	1/4	1,268.79	1/4	904.43	1/4	539.75	1/4	174.96	1/4		1/4		1/4	
1/2	2,355.59	1/2	1,990.79	1/2	1,625.99	1/2	1,261.19	1/2	896.85	1/2	532.15	1/2	167.36	1/2		1/2		1/2	
3/4	2,347.99	3/4	1,983.19	3/4	1,618.39	3/4	1,253.59	3/4	889.26	3/4	524.55	3/4	159.76	3/4		3/4		3/4	
5	2,340.39	5	1,975.59	5	1,610.79	5	1,245.99	5	881.68	5	516.95	5	152.16	5		5		5	
1/4	2,332.79	1/4	1,967.99	1/4	1,603.19	1/4	1,238.39	1/4	874.09	1/4	509.35	1/4	144.56	1/4		1/4		1/4	
1/2	2,325.19	1/2	1,960.39	1/2	1,595.59	1/2	1,230.79	1/2	866.51	1/2	501.75	1/2	136.96	1/2		1/2		1/2	
3/4	2,317.59	3/4	1,952.79	3/4	1,587.99	3/4	1,223.19	3/4	858.91	3/4	494.15	3/4	129.37	3/4		3/4		3/4	
6	2,309.99	6	1,945.19	6	1,580.39	6	1,215.59	6	851.32	6	486.55	6	121.78	6		6		6	
1/4	2,302.39	1/4	1,937.59	1/4	1,572.79	1/4	1,207.99	1/4	843.73	1/4	478.95	1/4	114.18	1/4		1/4		1/4	
1/2	2,294.79	1/2	1,929.99	1/2	1,565.19	1/2	1,200.39	1/2	836.13	1/2	471.35	1/2	106.59	1/2		1/2		1/2	
3/4	2,287.19	3/4	1,922.39	3/4	1,557.59	3/4	1,192.79	3/4	828.54	3/4	463.75	3/4	99.01	3/4		3/4		3/4	
7	2,279.59	7	1,914.79	7	1,549.99	7	1,185.19	7	820.94	7	456.15	7	91.44	7		7		7	
1/4	2,271.99	1/4	1,907.19	1/4	1,542.39	1/4	1,177.59	1/4	813.34	1/4	448.55	1/4	83.86	1/4		1/4		1/4	
1/2	2,264.39	1/2	1,899.59	1/2	1,534.79	1/2	1,169.99	1/2	805.74	1/2	440.95	1/2	76.29	1/2		1/2		1/2	
3/4	2,256.79	3/4	1,891.99	3/4	1,527.19	3/4	1,162.39	3/4	798.14	3/4	433.35	3/4	69.18	3/4		3/4		3/4	
8	2,249.19	8	1,884.39	8	1,519.59	8	1,154.79	8	790.54	8	425.75	8	62.07	8		8		8	
1/4	2,241.59	1/4	1,876.79	1/4	1,511.99	1/4	1,147.20	1/4	782.94	1/4	418.15	1/4	54.97	1/4		1/4		1/4	
1/2	2,233.99	1/2	1,869.19	1/2	1,504.39	1/2	1,139.60	1/2	775.34	1/2	410.55	1/2	47.86	1/2		1/2		1/2	
3/4	2,226.39	3/4	1,861.59	3/4	1,496.79	3/4	1,132.01	3/4	767.74	3/4	402.95	3/4	42.16	3/4		3/4		3/4	
9	2,218.79	9	1,853.99	9	1,489.19	9	1,124.42	9	760.14	9	395.35	9	36.47	9		9		9	
1/4	2,211.19	1/4	1,846.39	1/4	1,481.59	1/4	1,116.83	1/4	752.54	1/4	387.75	1/4	30.77	1/4		1/4		1/4	
1/2	2,203.59	1/2	1,838.79	1/2	1,473.99	1/2	1,109.23	1/2	744.94	1/2	380.15	1/2	25.07	1/2		1/2		1/2	
3/4	2,195.99	3/4	1,831.19	3/4	1,466.39	3/4	1,101.64	3/4	737.34	3/4	372.55	3/4		3/4		3/4		3/4	
10	2,188.39	10	1,823.59	10	1,458.79	10	1,094.06	10	729.74	10	364.95	10		10		10		10	
1/4	2,180.79	1/4	1,815.99	1/4	1,451.19	1/4	1,086.47	1/4	722.14	1/4	357.35	1/4		1/4		1/4		1/4	
1/2	2,173.19	1/2	1,808.39	1/2	1,443.59	1/2	1,078.88	1/2	714.54	1/2	349.75	1/2		1/2		1/2		1/2	
3/4	2,165.59	3/4	1,800.79	3/4	1,435.99	3/4	1,071.29	3/4	706.94	3/4	342.15	3/4		3/4		3/4		3/4	
11	2,157.99	11	1,793.19	11	1,428.39	11	1,063.71	11	699.34	11	334.55	11		11		11		11	
1/4	2,150.39	1/4	1,785.59	1/4	1,420.79	1/4	1,056.13	1/4	691.74	1/4	326.95	1/4		1/4		1/4		1/4	
1/2	2,142.79	1/2	1,777.99	1/2	1,413.19	1/2	1,048.54	1/2	684.14	1/2	319.36	1/2		1/2		1/2		1/2	
3/4	2,135.19	3/4	1,770.39	3/4	1,405.59	3/4	1,040.96	3/4	676.54	3/4	311.76	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/03/2014 PMA
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29042"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 338"

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	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	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	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	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	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	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	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	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	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	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	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.

STRAPPED: 04/02/2014 CL
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2024

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29042"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 338"

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	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	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	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	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	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	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	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	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	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	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	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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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 04/02/2014 CL
RECALCULATED: 06/07/2019
VERIFIED: 05/15/2024 JS

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ALL PRIOR TO 05/2024

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



BARGE "KIRBY 29042"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCO 338"

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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
3	43	3	214	3	385	3	555	3	726	3	3	3	3	3	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	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	6	6	6	6	6
1/4	89	1/4	260	1/4	431	1/4	602	1/4	772	1/4	1/4	1/4	1/4	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	775	1/2	1/2	1/2	1/2	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	779	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	100	7	271	7	442	7	612	7	782	7	7	7	7	7	7	7	7	7	7
1/4	103	1/4	274	1/4	445	1/4	616	1/4	786	1/4	1/4	1/4	1/4	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	790	1/2	1/2	1/2	1/2	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	794	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	114	8	285	8	456	8	627	8	798	8	8	8	8	8	8	8	8	8	8
1/4	117	1/4	288	1/4	459	1/4	630	1/4	802	1/4	1/4	1/4	1/4	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	806	1/2	1/2	1/2	1/2	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	810	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	128	9	299	9	470	9	641	9	814	9	9	9	9	9	9	9	9	9	9
1/4	132	1/4	303	1/4	474	1/4	644	1/4	818	1/4	1/4	1/4	1/4	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	822	1/2	1/2	1/2	1/2	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	826	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	142	10	313	10	484	10	655	10	830	10	10	10	10	10	10	10	10	10	10
1/4	146	1/4	317	1/4	488	1/4	659	1/4	834	1/4	1/4	1/4	1/4	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	838	1/2	1/2	1/2	1/2	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	842	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	157	11	328	11	498	11	669	11	846	11	11	11	11	11	11	11	11	11	11
1/4	160	1/4	331	1/4	502	1/4	673	1/4	850	1/4	1/4	1/4	1/4	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	854	1/2	1/2	1/2	1/2	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	858	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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