



BARGE "KIRBY 29082"

ULLAGE TRIM TABLE

FORMERLY "CTCO 252"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2
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	- 00-1/2	00-1/2	- 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	- 00-1/2	00-1/2	- 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 1 PORT IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 252'-09"

July 19, 2023

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29082"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	5,017.77	0	4,719.33	0	4,403.51	0	4,073.51	0	3,741.66	0	3,409.81	0	3,077.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.71	1/4	4,712.93	1/4	4,396.74	1/4	4,066.60	1/4	3,734.75	1/4	3,402.90	1/4	3,071.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,005.64	1/2	4,706.53	1/2	4,389.97	1/2	4,059.68	1/2	3,727.83	1/2	3,395.99	1/2	3,064.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,999.57	3/4	4,700.14	3/4	4,383.20	3/4	4,052.77	3/4	3,720.92	3/4	3,389.07	3/4	3,057.23		
1		1		1		1	4,993.51	1	4,693.74	1	4,376.43	1	4,045.86	1	3,714.01	1	3,382.16	1	3,050.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,987.42	1/4	4,687.31	1/4	4,369.64	1/4	4,038.94	1/4	3,707.09	1/4	3,375.25	1/4	3,043.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,981.32	1/2	4,680.89	1/2	4,362.84	1/2	4,032.03	1/2	3,700.18	1/2	3,368.33	1/2	3,036.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,975.23	3/4	4,674.46	3/4	4,356.05	3/4	4,025.12	3/4	3,693.27	3/4	3,361.42	3/4	3,029.57		
2		2		2		2	4,969.14	2	4,668.04	2	4,349.25	2	4,018.20	2	3,686.35	2	3,354.51	2	3,022.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.02	1/4	4,661.58	1/4	4,342.43	1/4	4,011.29	1/4	3,679.44	1/4	3,347.59	1/4	3,015.74		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,956.89	1/2	4,655.12	1/2	4,335.60	1/2	4,004.37	1/2	3,672.53	1/2	3,340.68	1/2	3,008.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,950.77	3/4	4,648.65	3/4	4,328.78	3/4	3,997.46	3/4	3,665.61	3/4	3,333.77	3/4	3,001.92		
3		3		3		3	4,944.65	3	4,642.19	3	4,321.96	3	3,990.55	3	3,658.70	3	3,326.85	3	2,995.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,938.50	1/4	4,635.67	1/4	4,315.10	1/4	3,983.63	1/4	3,651.79	1/4	3,319.94	1/4	2,988.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.36	1/2	4,629.15	1/2	4,308.25	1/2	3,976.72	1/2	3,644.87	1/2	3,313.02	1/2	2,981.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,926.21	3/4	4,622.63	3/4	4,301.40	3/4	3,969.81	3/4	3,637.96	3/4	3,306.11	3/4	2,974.26		
4		4		4		4	4,920.06	4	4,616.11	4	4,294.55	4	3,962.89	4	3,631.05	4	3,299.20	4	2,967.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,913.88	1/4	4,609.56	1/4	4,287.67	1/4	3,955.98	1/4	3,624.13	1/4	3,292.28	1/4	2,960.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,907.71	1/2	4,603.02	1/2	4,280.79	1/2	3,949.07	1/2	3,617.22	1/2	3,285.37	1/2	2,953.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,901.53	3/4	4,596.47	3/4	4,273.91	3/4	3,942.15	3/4	3,610.31	3/4	3,278.46	3/4	2,946.61		
5		5		5		5	4,895.36	5	4,589.92	5	4,267.03	5	3,935.24	5	3,603.39	5	3,271.54	5	2,939.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,889.15	1/4	4,583.35	1/4	4,260.13	1/4	3,928.33	1/4	3,596.48	1/4	3,264.63	1/4	2,932.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,882.95	1/2	4,576.77	1/2	4,253.23	1/2	3,921.41	1/2	3,589.56	1/2	3,257.72	1/2	2,925.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,876.74	3/4	4,570.20	3/4	4,246.33	3/4	3,914.50	3/4	3,582.65	3/4	3,250.80	3/4	2,918.96		
6		6		6		6	4,870.54	6	4,563.62	6	4,239.43	6	3,907.59	6	3,575.74	6	3,243.89	6	2,912.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,864.31	1/4	4,557.02	1/4	4,232.52	1/4	3,900.67	1/4	3,568.82	1/4	3,236.98	1/4	2,905.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,144.08	1/2	4,858.08	1/2	4,550.42	1/2	4,225.61	1/2	3,893.76	1/2	3,561.91	1/2	3,230.06	1/2	2,898.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,139.20	3/4	4,851.85	3/4	4,543.82	3/4	4,218.69	3/4	3,886.85	3/4	3,555.00	3/4	3,223.15	3/4	2,891.30
7		7		7		7	5,134.32	7	4,845.61	7	4,537.21	7	4,211.78	7	3,879.93	7	3,548.08	7	3,216.24	7	2,884.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,128.96	1/4	4,839.36	1/4	4,530.58	1/4	4,204.87	1/4	3,873.02	1/4	3,541.17	1/4	3,209.32	1/4	2,877.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,123.61	1/2	4,833.10	1/2	4,523.95	1/2	4,197.95	1/2	3,866.10	1/2	3,534.26	1/2	3,202.41	1/2	2,870.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,118.25	3/4	4,826.84	3/4	4,517.32	3/4	4,191.04	3/4	3,859.19	3/4	3,527.34	3/4	3,195.50	3/4	2,863.65
8		8		8		8	5,112.90	8	4,820.58	8	4,510.69	8	4,184.13	8	3,852.28	8	3,520.43	8	3,188.58	8	2,856.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,107.00	1/4	4,814.29	1/4	4,504.04	1/4	4,177.21	1/4	3,845.36	1/4	3,513.52	1/4	3,181.67	1/4	2,849.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,101.09	1/2	4,808.01	1/2	4,497.38	1/2	4,170.30	1/2	3,838.45	1/2	3,506.60	1/2	3,174.75	1/2	2,842.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,095.19	3/4	4,801.72	3/4	4,490.72	3/4	4,163.39	3/4	3,831.54	3/4	3,499.69	3/4	3,167.84	3/4	2,835.99
9		9		9		9	5,089.29	9	4,795.43	9	4,484.06	9	4,156.47	9	3,824.62	9	3,492.78	9	3,160.93	9	2,829.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,083.36	1/4	4,789.12	1/4	4,477.38	1/4	4,149.56	1/4	3,817.71	1/4	3,485.86	1/4	3,154.01	1/4	2,822.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,077.43	1/2	4,782.80	1/2	4,470.69	1/2	4,142.64	1/2	3,810.80	1/2	3,478.95	1/2	3,147.10	1/2	2,815.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,071.51	3/4	4,776.49	3/4	4,464.01	3/4	4,135.73	3/4	3,803.88	3/4	3,472.04	3/4	3,140.19	3/4	2,808.34
10		10		10		10	5,065.58	10	4,770.17	10	4,457.32	10	4,128.82	10	3,796.97	10	3,465.12	10	3,133.27	10	2,801.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,059.62	1/4	4,763.83	1/4	4,450.61	1/4	4,121.90	1/4	3,790.06	1/4	3,458.21	1/4	3,126.36	1/4	2,794.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,053.67	1/2	4,757.49	1/2	4,443.90	1/2	4,114.99	1/2	3,783.14	1/2	3,451.29	1/2	3,119.45	1/2	2,787.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.71	3/4	4,751.15	3/4	4,437.18	3/4	4,108.08	3/4	3,776.23	3/4	3,444.38	3/4	3,112.53	3/4	2,780.69
11		11		11		11	5,041.76	11	4,744.81	11	4,430.47	11	4,101.16	11	3,769.32	11	3,437.47	11	3,105.62	11	2,773.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,035.76	1/4	4,738.44	1/4	4,423.73	1/4	4,094.25	1/4	3,762.40	1/4	3,430.55	1/4	3,098.71	1/4	2,766.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,029.76	1/2	4,732.07	1/2	4,416.99	1/2	4,087.34	1/2	3,755.49	1/2	3,423.64	1/2	3,091.79	1/2	2,759.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,023.77	3/4	4,725.70	3/4	4,410.25	3/4	4,080.42	3/4	3,748.58	3/4	3,416.73	3/4	3,084.88	3/4	2,753.03

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29082"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,746.12	0	2,414.14	0	2,082.07	0	1,750.00	0	1,417.93	0	1,085.86	0	754.27	0	422.22	0	90.27	0	
1/4	2,739.20	1/4	2,407.22	1/4	2,075.15	1/4	1,743.08	1/4	1,411.01	1/4	1,078.94	1/4	747.35	1/4	415.30	1/4	83.56	1/4	
1/2	2,732.29	1/2	2,400.30	1/2	2,068.23	1/2	1,736.16	1/2	1,404.09	1/2	1,072.02	1/2	740.44	1/2	408.38	1/2	76.84	1/2	
3/4	2,725.38	3/4	2,393.38	3/4	2,061.31	3/4	1,729.24	3/4	1,397.18	3/4	1,065.11	3/4	733.52	3/4	401.46	3/4	70.12	3/4	
1	2,718.46	1	2,386.46	1	2,054.40	1	1,722.33	1	1,390.26	1	1,058.19	1	726.60	1	394.55	1	63.40	1	
1/4	2,711.55	1/4	2,379.55	1/4	2,047.48	1/4	1,715.41	1/4	1,383.34	1/4	1,051.27	1/4	719.68	1/4	387.63	1/4	57.53	1/4	
1/2	2,704.64	1/2	2,372.63	1/2	2,040.56	1/2	1,708.49	1/2	1,376.42	1/2	1,044.36	1/2	712.76	1/2	380.71	1/2	51.65	1/2	
3/4	2,697.72	3/4	2,365.71	3/4	2,033.64	3/4	1,701.57	3/4	1,369.50	3/4	1,037.44	3/4	705.85	3/4	373.80	3/4	45.77	3/4	
2	2,690.81	2	2,358.79	2	2,026.72	2	1,694.65	2	1,362.59	2	1,030.53	2	698.93	2	366.88	2	39.89	2	
1/4	2,683.90	1/4	2,351.87	1/4	2,019.80	1/4	1,687.74	1/4	1,355.67	1/4	1,023.62	1/4	692.01	1/4	359.96	1/4	35.39	1/4	
1/2	2,676.98	1/2	2,344.96	1/2	2,012.89	1/2	1,680.82	1/2	1,348.75	1/2	1,016.72	1/2	685.09	1/2	353.05	1/2	30.90	1/2	
3/4	2,670.07	3/4	2,338.04	3/4	2,005.97	3/4	1,673.90	3/4	1,341.83	3/4	1,009.81	3/4	678.18	3/4	346.14	3/4	26.40	3/4	
3	2,663.16	3	2,331.12	3	1,999.05	3	1,666.98	3	1,334.91	3	1,002.90	3	671.26	3	339.22	3	21.90	3	
1/4	2,656.24	1/4	2,324.20	1/4	1,992.13	1/4	1,660.06	1/4	1,327.99	1/4	996.00	1/4	664.34	1/4	332.31	1/4		1/4	
1/2	2,649.33	1/2	2,317.28	1/2	1,985.21	1/2	1,653.15	1/2	1,321.08	1/2	989.09	1/2	657.42	1/2	325.39	1/2		1/2	
3/4	2,642.42	3/4	2,310.36	3/4	1,978.30	3/4	1,646.23	3/4	1,314.16	3/4	982.18	3/4	650.50	3/4	318.48	3/4		3/4	
4	2,635.50	4	2,303.45	4	1,971.38	4	1,639.31	4	1,307.24	4	975.28	4	643.59	4	311.56	4		4	
1/4	2,628.59	1/4	2,296.53	1/4	1,964.46	1/4	1,632.39	1/4	1,300.32	1/4	968.37	1/4	636.67	1/4	304.64	1/4		1/4	
1/2	2,621.67	1/2	2,289.61	1/2	1,957.54	1/2	1,625.47	1/2	1,293.40	1/2	961.47	1/2	629.75	1/2	297.72	1/2		1/2	
3/4	2,614.76	3/4	2,282.69	3/4	1,950.62	3/4	1,618.55	3/4	1,286.49	3/4	954.56	3/4	622.83	3/4	290.81	3/4		3/4	
5	2,607.84	5	2,275.77	5	1,943.71	5	1,611.64	5	1,279.57	5	947.65	5	615.92	5	283.89	5		5	
1/4	2,600.93	1/4	2,268.86	1/4	1,936.79	1/4	1,604.72	1/4	1,272.65	1/4	940.75	1/4	609.00	1/4	276.97	1/4		1/4	
1/2	2,594.01	1/2	2,261.94	1/2	1,929.87	1/2	1,597.80	1/2	1,265.73	1/2	933.84	1/2	602.08	1/2	270.05	1/2		1/2	
3/4	2,587.09	3/4	2,255.02	3/4	1,922.95	3/4	1,590.88	3/4	1,258.81	3/4	926.94	3/4	595.16	3/4	263.14	3/4		3/4	
6	2,580.17	6	2,248.10	6	1,916.03	6	1,583.96	6	1,251.90	6	920.03	6	588.24	6	256.22	6		6	
1/4	2,573.25	1/4	2,241.18	1/4	1,909.12	1/4	1,577.05	1/4	1,244.98	1/4	913.12	1/4	581.33	1/4	249.30	1/4		1/4	
1/2	2,566.33	1/2	2,234.27	1/2	1,902.20	1/2	1,570.13	1/2	1,238.06	1/2	906.22	1/2	574.41	1/2	242.38	1/2		1/2	
3/4	2,559.42	3/4	2,227.35	3/4	1,895.28	3/4	1,563.21	3/4	1,231.14	3/4	899.31	3/4	567.49	3/4	235.46	3/4		3/4	
7	2,552.50	7	2,220.43	7	1,888.36	7	1,556.29	7	1,224.22	7	892.41	7	560.57	7	228.55	7		7	
1/4	2,545.58	1/4	2,213.51	1/4	1,881.44	1/4	1,549.37	1/4	1,217.31	1/4	885.50	1/4	553.66	1/4	221.63	1/4		1/4	
1/2	2,538.66	1/2	2,206.59	1/2	1,874.52	1/2	1,542.46	1/2	1,210.39	1/2	878.59	1/2	546.74	1/2	214.71	1/2		1/2	
3/4	2,531.74	3/4	2,199.68	3/4	1,867.61	3/4	1,535.54	3/4	1,203.47	3/4	871.69	3/4	539.82	3/4	207.79	3/4		3/4	
8	2,524.83	8	2,192.76	8	1,860.69	8	1,528.62	8	1,196.55	8	864.78	8	532.90	8	200.88	8		8	
1/4	2,517.91	1/4	2,185.84	1/4	1,853.77	1/4	1,521.70	1/4	1,189.63	1/4	857.88	1/4	525.98	1/4	193.96	1/4		1/4	
1/2	2,510.99	1/2	2,178.92	1/2	1,846.85	1/2	1,514.78	1/2	1,182.71	1/2	850.97	1/2	519.07	1/2	187.04	1/2		1/2	
3/4	2,504.07	3/4	2,172.00	3/4	1,839.93	3/4	1,507.87	3/4	1,175.80	3/4	844.06	3/4	512.15	3/4	180.12	3/4		3/4	
9	2,497.15	9	2,165.08	9	1,833.02	9	1,500.95	9	1,168.88	9	837.16	9	505.23	9	173.20	9		9	
1/4	2,490.24	1/4	2,158.17	1/4	1,826.10	1/4	1,494.03	1/4	1,161.96	1/4	830.25	1/4	498.31	1/4	166.29	1/4		1/4	
1/2	2,483.32	1/2	2,151.25	1/2	1,819.18	1/2	1,487.11	1/2	1,155.04	1/2	823.34	1/2	491.40	1/2	159.37	1/2		1/2	
3/4	2,476.40	3/4	2,144.33	3/4	1,812.26	3/4	1,480.19	3/4	1,148.12	3/4	816.44	3/4	484.48	3/4	152.45	3/4		3/4	
10	2,469.48	10	2,137.41	10	1,805.34	10	1,473.27	10	1,141.21	10	809.53	10	477.56	10	145.53	10		10	
1/4	2,462.56	1/4	2,130.49	1/4	1,798.43	1/4	1,466.36	1/4	1,134.29	1/4	802.63	1/4	470.64	1/4	138.62	1/4		1/4	
1/2	2,455.65	1/2	2,123.58	1/2	1,791.51	1/2	1,459.44	1/2	1,127.37	1/2	795.72	1/2	463.72	1/2	131.71	1/2		1/2	
3/4	2,448.73	3/4	2,116.66	3/4	1,784.59	3/4	1,452.52	3/4	1,120.45	3/4	788.81	3/4	456.81	3/4	124.79	3/4		3/4	
11	2,441.81	11	2,109.74	11	1,777.67	11	1,445.60	11	1,113.53	11	781.91	11	449.89	11	117.88	11		11	
1/4	2,434.89	1/4	2,102.82	1/4	1,770.75	1/4	1,438.68	1/4	1,106.62	1/4	775.00	1/4	442.97	1/4	110.98	1/4		1/4	
1/2	2,427.97	1/2	2,095.90	1/2	1,763.84	1/2	1,431.77	1/2	1,099.70	1/2	768.09	1/2	436.05	1/2	104.08	1/2		1/2	
3/4	2,421.05	3/4	2,088.99	3/4	1,756.92	3/4	1,424.85	3/4	1,092.78	3/4	761.18	3/4	429.13	3/4	97.17	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
NAME CHANGE: 07/19/2023 JS
PRINTED: 07/19/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29082"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,026.71	0	4,729.09	0	4,414.08	0	4,084.51	0	3,752.74	0	3,420.97	0	3,089.21
1/4		1/4		1/4		1/4	5,020.72	1/4	4,722.72	1/4	4,407.34	1/4	4,077.59	1/4	3,745.83	1/4	3,414.06	1/4	3,082.30
1/2		1/2		1/2		1/2	5,014.72	1/2	4,716.35	1/2	4,400.61	1/2	4,070.68	1/2	3,738.92	1/2	3,407.15	1/2	3,075.38
3/4		3/4		3/4		3/4	5,008.66	3/4	4,709.96	3/4	4,393.84	3/4	4,063.77	3/4	3,732.00	3/4	3,400.24	3/4	3,068.47
1		1		1		1	5,002.59	1	4,703.56	1	4,387.07	1	4,056.86	1	3,725.09	1	3,393.33	1	3,061.56
1/4		1/4		1/4		1/4	4,996.53	1/4	4,697.16	1/4	4,380.31	1/4	4,049.95	1/4	3,718.18	1/4	3,386.41	1/4	3,054.65
1/2		1/2		1/2		1/2	4,990.47	1/2	4,690.77	1/2	4,373.54	1/2	4,043.04	1/2	3,711.27	1/2	3,379.50	1/2	3,047.74
3/4		3/4		3/4		3/4	4,984.37	3/4	4,684.34	3/4	4,366.74	3/4	4,036.12	3/4	3,704.36	3/4	3,372.59	3/4	3,040.82
2		2		2		2	4,978.28	2	4,677.92	2	4,359.95	2	4,029.21	2	3,697.45	2	3,365.68	2	3,033.91
1/4		1/4		1/4		1/4	4,972.19	1/4	4,671.50	1/4	4,353.16	1/4	4,022.30	1/4	3,690.53	1/4	3,358.77	1/4	3,027.00
1/2		1/2		1/2		1/2	4,966.10	1/2	4,665.07	1/2	4,346.36	1/2	4,015.39	1/2	3,683.62	1/2	3,351.86	1/2	3,020.09
3/4		3/4		3/4		3/4	4,959.98	3/4	4,658.61	3/4	4,339.54	3/4	4,008.48	3/4	3,676.71	3/4	3,344.94	3/4	3,013.18
3		3		3		3	4,953.86	3	4,652.15	3	4,332.72	3	4,001.56	3	3,669.80	3	3,338.03	3	3,006.27
1/4		1/4		1/4		1/4	4,947.74	1/4	4,645.69	1/4	4,325.90	1/4	3,994.65	1/4	3,662.89	1/4	3,331.12	1/4	2,999.35
1/2		1/2		1/2		1/2	4,941.62	1/2	4,639.23	1/2	4,319.07	1/2	3,987.74	1/2	3,655.97	1/2	3,324.21	1/2	2,992.44
3/4		3/4		3/4		3/4	4,935.47	3/4	4,632.71	3/4	4,312.22	3/4	3,980.83	3/4	3,649.06	3/4	3,317.30	3/4	2,985.53
4		4		4		4	4,929.33	4	4,626.20	4	4,305.37	4	3,973.92	4	3,642.15	4	3,310.38	4	2,978.62
1/4		1/4		1/4		1/4	4,923.18	1/4	4,619.68	1/4	4,298.53	1/4	3,967.01	1/4	3,635.24	1/4	3,303.47	1/4	2,971.71
1/2		1/2		1/2		1/2	4,917.03	1/2	4,613.16	1/2	4,291.68	1/2	3,960.09	1/2	3,628.33	1/2	3,296.56	1/2	2,964.79
3/4		3/4		3/4		3/4	4,910.86	3/4	4,606.61	3/4	4,284.80	3/4	3,953.18	3/4	3,621.42	3/4	3,289.65	3/4	2,957.88
5		5		5		5	4,904.68	5	4,600.07	5	4,277.92	5	3,946.27	5	3,614.50	5	3,282.74	5	2,950.97
1/4		1/4		1/4		1/4	4,898.51	1/4	4,593.52	1/4	4,271.04	1/4	3,939.36	1/4	3,607.59	1/4	3,275.83	1/4	2,944.06
1/2		1/2		1/2		1/2	4,892.34	1/2	4,586.98	1/2	4,264.17	1/2	3,932.45	1/2	3,600.68	1/2	3,268.91	1/2	2,937.15
3/4		3/4		3/4		3/4	4,886.13	3/4	4,580.40	3/4	4,257.27	3/4	3,925.54	3/4	3,593.77	3/4	3,262.00	3/4	2,930.24
6		6		6		6	4,879.93	6	4,573.83	6	4,250.37	6	3,918.62	6	3,586.86	6	3,255.09	6	2,923.32
1/4		1/4		1/4		1/4	4,873.73	1/4	4,567.26	1/4	4,243.47	1/4	3,911.71	1/4	3,579.95	1/4	3,248.18	1/4	2,916.41
1/2		1/2		1/2		1/2	4,867.53	1/2	4,560.68	1/2	4,236.57	1/2	3,904.80	1/2	3,573.03	1/2	3,241.27	1/2	2,909.50
3/4		3/4		3/4		3/4	4,861.30	3/4	4,554.08	3/4	4,229.65	3/4	3,897.89	3/4	3,566.12	3/4	3,234.36	3/4	2,902.59
7		7		7	5,141.00	7	4,855.07	7	4,547.48	7	4,222.74	7	3,890.98	7	3,559.21	7	3,227.44	7	2,895.68
1/4		1/4		1/4	5,136.12	1/4	4,848.84	1/4	4,540.88	1/4	4,215.83	1/4	3,884.06	1/4	3,552.30	1/4	3,220.53	1/4	2,888.77
1/2		1/2		1/2	5,131.24	1/2	4,842.61	1/2	4,534.28	1/2	4,208.92	1/2	3,877.15	1/2	3,545.39	1/2	3,213.62	1/2	2,881.85
3/4		3/4		3/4	5,125.89	3/4	4,836.35	3/4	4,527.65	3/4	4,202.01	3/4	3,870.24	3/4	3,538.47	3/4	3,206.71	3/4	2,874.94
8		8		8	5,120.53	8	4,830.09	8	4,521.02	8	4,195.10	8	3,863.33	8	3,531.56	8	3,199.80	8	2,868.03
1/4		1/4		1/4	5,115.18	1/4	4,823.83	1/4	4,514.40	1/4	4,188.18	1/4	3,856.42	1/4	3,524.65	1/4	3,192.88	1/4	2,861.12
1/2		1/2		1/2	5,109.82	1/2	4,817.58	1/2	4,507.77	1/2	4,181.27	1/2	3,849.51	1/2	3,517.74	1/2	3,185.97	1/2	2,854.21
3/4		3/4		3/4	5,103.92	3/4	4,811.29	3/4	4,501.11	3/4	4,174.36	3/4	3,842.59	3/4	3,510.83	3/4	3,179.06	3/4	2,847.29
9		9		9	5,098.02	9	4,805.01	9	4,494.46	9	4,167.45	9	3,835.68	9	3,503.92	9	3,172.15	9	2,840.38
1/4		1/4		1/4	5,092.12	1/4	4,798.72	1/4	4,487.80	1/4	4,160.54	1/4	3,828.77	1/4	3,497.00	1/4	3,165.24	1/4	2,833.47
1/2		1/2		1/2	5,086.22	1/2	4,792.44	1/2	4,481.14	1/2	4,153.62	1/2	3,821.86	1/2	3,490.09	1/2	3,158.33	1/2	2,826.56
3/4		3/4		3/4	5,080.30	3/4	4,786.12	3/4	4,474.46	3/4	4,146.71	3/4	3,814.95	3/4	3,483.18	3/4	3,151.41	3/4	2,819.65
10		10		10	5,074.37	10	4,779.81	10	4,467.78	10	4,139.80	10	3,808.03	10	3,476.27	10	3,144.50	10	2,812.74
1/4		1/4		1/4	5,068.44	1/4	4,773.50	1/4	4,461.09	1/4	4,132.89	1/4	3,801.12	1/4	3,469.36	1/4	3,137.59	1/4	2,805.82
1/2		1/2		1/2	5,062.52	1/2	4,767.18	1/2	4,454.41	1/2	4,125.98	1/2	3,794.21	1/2	3,462.44	1/2	3,130.68	1/2	2,798.91
3/4		3/4		3/4	5,056.56	3/4	4,760.84	3/4	4,447.70	3/4	4,119.07	3/4	3,787.30	3/4	3,455.53	3/4	3,123.77	3/4	2,792.00
11		11		11	5,050.61	11	4,754.50	11	4,440.98	11	4,112.15	11	3,780.39	11	3,448.62	11	3,116.85	11	2,785.09
1/4		1/4		1/4	5,044.66	1/4	4,748.16	1/4	4,434.27	1/4	4,105.24	1/4	3,773.48	1/4	3,441.71	1/4	3,109.94	1/4	2,778.18
1/2		1/2		1/2	5,038.70	1/2	4,741.82	1/2	4,427.56	1/2	4,098.33	1/2	3,766.56	1/2	3,434.80	1/2	3,103.03	1/2	2,771.26
3/4		3/4		3/4	5,032.71	3/4	4,735.46	3/4	4,420.82	3/4	4,091.42	3/4	3,759.65	3/4	3,427.89	3/4	3,096.12	3/4	2,764.35

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29082"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 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	2,757.44	0	2,425.54	0	2,093.56	0	1,761.57	0	1,429.58	0	1,097.60	0	767.67	0	435.94	0	104.04	0	
1/4	2,750.53	1/4	2,418.63	1/4	2,086.64	1/4	1,754.65	1/4	1,422.67	1/4	1,090.68	1/4	760.80	1/4	429.02	1/4	97.14	1/4	
1/2	2,743.62	1/2	2,411.71	1/2	2,079.72	1/2	1,747.74	1/2	1,415.75	1/2	1,083.76	1/2	753.93	1/2	422.11	1/2	90.24	1/2	
3/4	2,736.71	3/4	2,404.80	3/4	2,072.81	3/4	1,740.82	3/4	1,408.83	3/4	1,076.86	3/4	747.06	3/4	415.19	3/4	83.53	3/4	
1	2,729.79	1	2,397.88	1	2,065.89	1	1,733.90	1	1,401.92	1	1,069.95	1	740.18	1	408.28	1	76.81	1	
1/4	2,722.88	1/4	2,390.96	1/4	2,058.98	1/4	1,726.99	1/4	1,395.00	1/4	1,063.05	1/4	733.30	1/4	401.36	1/4	70.10	1/4	
1/2	2,715.97	1/2	2,384.05	1/2	2,052.06	1/2	1,720.07	1/2	1,388.08	1/2	1,056.14	1/2	726.42	1/2	394.44	1/2	63.38	1/2	
3/4	2,709.06	3/4	2,377.13	3/4	2,045.14	3/4	1,713.16	3/4	1,381.17	3/4	1,049.27	3/4	719.50	3/4	387.53	3/4	57.50	3/4	
2	2,702.15	2	2,370.21	2	2,038.23	2	1,706.24	2	1,374.25	2	1,042.39	2	712.58	2	380.61	2	51.63	2	
1/4	2,695.23	1/4	2,363.30	1/4	2,031.31	1/4	1,699.32	1/4	1,367.34	1/4	1,035.52	1/4	705.67	1/4	373.70	1/4	45.75	1/4	
1/2	2,688.32	1/2	2,356.38	1/2	2,024.39	1/2	1,692.41	1/2	1,360.42	1/2	1,028.65	1/2	698.75	1/2	366.78	1/2	39.87	1/2	
3/4	2,681.41	3/4	2,349.46	3/4	2,017.48	3/4	1,685.49	3/4	1,353.50	3/4	1,021.77	3/4	691.84	3/4	359.87	3/4	35.38	3/4	
3	2,674.50	3	2,342.55	3	2,010.56	3	1,678.57	3	1,346.59	3	1,014.90	3	684.92	3	352.96	3	30.88	3	
1/4	2,667.59	1/4	2,335.63	1/4	2,003.64	1/4	1,671.66	1/4	1,339.67	1/4	1,008.03	1/4	678.00	1/4	346.04	1/4	26.39	1/4	
1/2	2,660.68	1/2	2,328.72	1/2	1,996.73	1/2	1,664.74	1/2	1,332.75	1/2	1,001.16	1/2	671.09	1/2	339.13	1/2	21.90	1/2	
3/4	2,653.76	3/4	2,321.80	3/4	1,989.81	3/4	1,657.82	3/4	1,325.84	3/4	994.29	3/4	664.17	3/4	332.22	3/4		3/4	
4	2,646.85	4	2,314.88	4	1,982.90	4	1,650.91	4	1,318.92	4	987.42	4	657.25	4	325.30	4		4	
1/4	2,639.94	1/4	2,307.97	1/4	1,975.98	1/4	1,643.99	1/4	1,312.00	1/4	980.56	1/4	650.34	1/4	318.39	1/4		1/4	
1/2	2,633.03	1/2	2,301.05	1/2	1,969.06	1/2	1,637.08	1/2	1,305.09	1/2	973.69	1/2	643.42	1/2	311.48	1/2		1/2	
3/4	2,626.11	3/4	2,294.13	3/4	1,962.15	3/4	1,630.16	3/4	1,298.17	3/4	966.82	3/4	636.51	3/4	304.56	3/4		3/4	
5	2,619.20	5	2,287.22	5	1,955.23	5	1,623.24	5	1,291.26	5	959.95	5	629.59	5	297.64	5		5	
1/4	2,612.29	1/4	2,280.30	1/4	1,948.31	1/4	1,616.33	1/4	1,284.34	1/4	953.09	1/4	622.67	1/4	290.73	1/4		1/4	
1/2	2,605.37	1/2	2,273.38	1/2	1,941.40	1/2	1,609.41	1/2	1,277.42	1/2	946.22	1/2	615.76	1/2	283.81	1/2		1/2	
3/4	2,598.45	3/4	2,266.47	3/4	1,934.48	3/4	1,602.49	3/4	1,270.51	3/4	939.35	3/4	608.84	3/4	276.90	3/4		3/4	
6	2,591.54	6	2,259.55	6	1,927.56	6	1,595.58	6	1,263.59	6	932.48	6	601.93	6	269.98	6		6	
1/4	2,584.62	1/4	2,252.63	1/4	1,920.65	1/4	1,588.66	1/4	1,256.67	1/4	925.62	1/4	595.01	1/4	263.06	1/4		1/4	
1/2	2,577.71	1/2	2,245.72	1/2	1,913.73	1/2	1,581.74	1/2	1,249.76	1/2	918.75	1/2	588.09	1/2	256.15	1/2		1/2	
3/4	2,570.79	3/4	2,238.80	3/4	1,906.81	3/4	1,574.83	3/4	1,242.84	3/4	911.88	3/4	581.18	3/4	249.23	3/4		3/4	
7	2,563.87	7	2,231.89	7	1,899.90	7	1,567.91	7	1,235.92	7	905.02	7	574.26	7	242.32	7		7	
1/4	2,556.96	1/4	2,224.97	1/4	1,892.98	1/4	1,560.99	1/4	1,229.01	1/4	898.15	1/4	567.35	1/4	235.40	1/4		1/4	
1/2	2,550.04	1/2	2,218.05	1/2	1,886.07	1/2	1,554.08	1/2	1,222.09	1/2	891.28	1/2	560.43	1/2	228.48	1/2		1/2	
3/4	2,543.12	3/4	2,211.14	3/4	1,879.15	3/4	1,547.16	3/4	1,215.17	3/4	884.41	3/4	553.51	3/4	221.57	3/4		3/4	
8	2,536.21	8	2,204.22	8	1,872.23	8	1,540.25	8	1,208.26	8	877.55	8	546.60	8	214.65	8		8	
1/4	2,529.29	1/4	2,197.30	1/4	1,865.32	1/4	1,533.33	1/4	1,201.34	1/4	870.68	1/4	539.68	1/4	207.73	1/4		1/4	
1/2	2,522.37	1/2	2,190.39	1/2	1,858.40	1/2	1,526.41	1/2	1,194.43	1/2	863.81	1/2	532.76	1/2	200.82	1/2		1/2	
3/4	2,515.46	3/4	2,183.47	3/4	1,851.48	3/4	1,519.50	3/4	1,187.51	3/4	856.94	3/4	525.85	3/4	193.90	3/4		3/4	
9	2,508.54	9	2,176.55	9	1,844.57	9	1,512.58	9	1,180.59	9	850.08	9	518.93	9	186.99	9		9	
1/4	2,501.63	1/4	2,169.64	1/4	1,837.65	1/4	1,505.66	1/4	1,173.68	1/4	843.21	1/4	512.02	1/4	180.07	1/4		1/4	
1/2	2,494.71	1/2	2,162.72	1/2	1,830.73	1/2	1,498.75	1/2	1,166.76	1/2	836.34	1/2	505.10	1/2	173.15	1/2		1/2	
3/4	2,487.79	3/4	2,155.81	3/4	1,823.82	3/4	1,491.83	3/4	1,159.84	3/4	829.48	3/4	498.18	3/4	166.24	3/4		3/4	
10	2,480.88	10	2,148.89	10	1,816.90	10	1,484.91	10	1,152.93	10	822.61	10	491.27	10	159.32	10		10	
1/4	2,473.96	1/4	2,141.97	1/4	1,809.99	1/4	1,478.00	1/4	1,146.01	1/4	815.74	1/4	484.35	1/4	152.41	1/4		1/4	
1/2	2,467.04	1/2	2,135.06	1/2	1,803.07	1/2	1,471.08	1/2	1,139.09	1/2	808.87	1/2	477.44	1/2	145.49	1/2		1/2	
3/4	2,460.13	3/4	2,128.14	3/4	1,796.15	3/4	1,464.17	3/4	1,132.18	3/4	802.01	3/4	470.52	3/4	138.58	3/4		3/4	
11	2,453.21	11	2,121.22	11	1,789.24	11	1,457.25	11	1,125.26	11	795.14	11	463.60	11	131.67	11		11	
1/4	2,446.29	1/4	2,114.31	1/4	1,782.32	1/4	1,450.33	1/4	1,118.35	1/4	788.27	1/4	456.69	1/4	124.75	1/4		1/4	
1/2	2,439.38	1/2	2,107.39	1/2	1,775.40	1/2	1,443.42	1/2	1,111.43	1/2	781.40	1/2	449.77	1/2	117.84	1/2		1/2	
3/4	2,432.46	3/4	2,100.47	3/4	1,768.49	3/4	1,436.50	3/4	1,104.51	3/4	774.54	3/4	442.86	3/4	110.94	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
NAME CHANGE: 07/19/2023 JS
PRINTED: 07/19/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29082"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,004.59	0	4,707.66	0	4,393.43	0	4,064.86	0	3,734.29	0	3,403.71	0	3,073.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,998.61	1/4	4,701.32	1/4	4,386.71	1/4	4,057.97	1/4	3,727.40	1/4	3,396.83	1/4	3,066.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,992.57	1/2	4,694.95	1/2	4,379.97	1/2	4,051.08	1/2	3,720.51	1/2	3,389.94	1/2	3,059.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,986.53	3/4	4,688.57	3/4	4,373.23	3/4	4,044.20	3/4	3,713.63	3/4	3,383.05	3/4	3,052.48
1		1		1		1	4,980.49	1	4,682.20	1	4,366.48	1	4,037.31	1	3,706.74	1	3,376.17	1	3,045.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,974.44	1/4	4,675.83	1/4	4,359.74	1/4	4,030.42	1/4	3,699.85	1/4	3,369.28	1/4	3,038.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,968.37	1/2	4,669.43	1/2	4,352.97	1/2	4,023.54	1/2	3,692.96	1/2	3,362.39	1/2	3,031.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,962.30	3/4	4,663.03	3/4	4,346.20	3/4	4,016.65	3/4	3,686.08	3/4	3,355.51	3/4	3,024.94
2		2		2		2	4,956.23	2	4,656.63	2	4,339.43	2	4,009.76	2	3,679.19	2	3,348.62	2	3,018.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.17	1/4	4,650.23	1/4	4,332.66	1/4	4,002.87	1/4	3,672.30	1/4	3,341.73	1/4	3,011.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,944.07	1/2	4,643.79	1/2	4,325.86	1/2	3,995.99	1/2	3,665.42	1/2	3,334.85	1/2	3,004.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,937.97	3/4	4,637.35	3/4	4,319.07	3/4	3,989.10	3/4	3,658.53	3/4	3,327.96	3/4	2,997.39
3		3		3		3	4,931.87	3	4,630.92	3	4,312.27	3	3,982.21	3	3,651.64	3	3,321.07	3	2,990.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,925.78	1/4	4,624.48	1/4	4,305.47	1/4	3,975.33	1/4	3,644.76	1/4	3,314.18	1/4	2,983.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.65	1/2	4,617.98	1/2	4,298.65	1/2	3,968.44	1/2	3,637.87	1/2	3,307.30	1/2	2,976.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,913.53	3/4	4,611.49	3/4	4,291.82	3/4	3,961.55	3/4	3,630.98	3/4	3,300.41	3/4	2,969.84
4		4		4		4	4,907.40	4	4,605.00	4	4,285.00	4	3,954.67	4	3,624.10	4	3,293.52	4	2,962.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,901.28	1/4	4,598.50	1/4	4,278.17	1/4	3,947.78	1/4	3,617.21	1/4	3,286.64	1/4	2,956.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,895.12	1/2	4,591.98	1/2	4,271.32	1/2	3,940.89	1/2	3,610.32	1/2	3,279.75	1/2	2,949.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,888.97	3/4	4,585.46	3/4	4,264.47	3/4	3,934.01	3/4	3,603.43	3/4	3,272.86	3/4	2,942.29
5		5		5		5	4,882.82	5	4,578.93	5	4,257.61	5	3,927.12	5	3,596.55	5	3,265.98	5	2,935.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,876.67	1/4	4,572.41	1/4	4,250.76	1/4	3,920.23	1/4	3,589.66	1/4	3,259.09	1/4	2,928.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,870.49	1/2	4,565.86	1/2	4,243.89	1/2	3,913.35	1/2	3,582.77	1/2	3,252.20	1/2	2,921.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,864.31	3/4	4,559.31	3/4	4,237.01	3/4	3,906.46	3/4	3,575.89	3/4	3,245.32	3/4	2,914.74
6		6		6		6	4,858.13	6	4,552.76	6	4,230.13	6	3,899.57	6	3,569.00	6	3,238.43	6	2,907.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,851.95	1/4	4,546.21	1/4	4,223.26	1/4	3,892.68	1/4	3,562.11	1/4	3,231.54	1/4	2,900.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,845.74	1/2	4,539.64	1/2	4,216.37	1/2	3,885.80	1/2	3,555.23	1/2	3,224.66	1/2	2,894.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,124.44	3/4	4,839.53	3/4	4,533.06	3/4	4,209.48	3/4	3,878.91	3/4	3,548.34	3/4	3,217.77
7		7		7		7	5,119.58	7	4,833.33	7	4,526.48	7	4,202.59	7	3,872.02	7	3,541.45	7	3,210.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,114.71	1/4	4,827.12	1/4	4,519.91	1/4	4,195.71	1/4	3,865.14	1/4	3,534.57	1/4	3,203.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,109.38	1/2	4,820.88	1/2	4,513.30	1/2	4,188.82	1/2	3,858.25	1/2	3,527.68	1/2	3,197.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,104.04	3/4	4,814.65	3/4	4,506.70	3/4	4,181.93	3/4	3,851.36	3/4	3,520.79	3/4	3,190.22
8		8		8		8	5,098.71	8	4,808.41	8	4,500.09	8	4,175.05	8	3,844.48	8	3,513.90	8	3,183.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,093.37	1/4	4,802.18	1/4	4,493.49	1/4	4,168.16	1/4	3,837.59	1/4	3,507.02	1/4	3,176.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.49	1/2	4,795.92	1/2	4,486.85	1/2	4,161.27	1/2	3,830.70	1/2	3,500.13	1/2	3,169.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,081.61	3/4	4,789.65	3/4	4,480.22	3/4	4,154.39	3/4	3,823.82	3/4	3,493.24	3/4	3,162.67
9		9		9		9	5,075.73	9	4,783.39	9	4,473.59	9	4,147.50	9	3,816.93	9	3,486.36	9	3,155.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,069.85	1/4	4,777.13	1/4	4,466.96	1/4	4,140.61	1/4	3,810.04	1/4	3,479.47	1/4	3,148.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,063.95	1/2	4,770.84	1/2	4,460.30	1/2	4,133.73	1/2	3,803.15	1/2	3,472.58	1/2	3,142.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,058.04	3/4	4,764.55	3/4	4,453.64	3/4	4,126.84	3/4	3,796.27	3/4	3,465.70	3/4	3,135.13
10		10		10		10	5,052.14	10	4,758.26	10	4,446.98	10	4,119.95	10	3,789.38	10	3,458.81	10	3,128.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,046.23	1/4	4,751.97	1/4	4,440.32	1/4	4,113.07	1/4	3,782.49	1/4	3,451.92	1/4	3,121.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,040.30	1/2	4,745.65	1/2	4,433.63	1/2	4,106.18	1/2	3,775.61	1/2	3,445.04	1/2	3,114.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,034.37	3/4	4,739.33	3/4	4,426.94	3/4	4,099.29	3/4	3,768.72	3/4	3,438.15	3/4	3,107.58
11		11		11		11	5,028.44	11	4,733.02	11	4,420.26	11	4,092.40	11	3,761.83	11	3,431.26	11	3,100.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,022.51	1/4	4,726.70	1/4	4,413.57	1/4	4,085.52	1/4	3,754.95	1/4	3,424.38	1/4	3,093.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,016.53	1/2	4,720.35	1/2	4,406.85	1/2	4,078.63	1/2	3,748.06	1/2	3,417.49	1/2	3,086.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,010.56	3/4	4,714.01	3/4	4,400.14	3/4	4,071.74	3/4	3,741.17	3/4	3,410.60	3/4	3,080.03

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29082"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,742.57	0	2,411.88	0	2,081.08	0	1,750.29	0	1,419.49	0	1,088.69	0	758.26	0	427.49	0	96.80	0	
1/4	2,735.69	1/4	2,404.99	1/4	2,074.19	1/4	1,743.40	1/4	1,412.60	1/4	1,081.80	1/4	751.38	1/4	420.59	1/4	89.92	1/4	
1/2	2,728.80	1/2	2,398.10	1/2	2,067.30	1/2	1,736.50	1/2	1,405.71	1/2	1,074.91	1/2	744.49	1/2	413.70	1/2	83.23	1/2	
3/4	2,721.91	3/4	2,391.21	3/4	2,060.41	3/4	1,729.61	3/4	1,398.82	3/4	1,068.02	3/4	737.59	3/4	406.81	3/4	76.54	3/4	
1	2,715.02	1	2,384.31	1	2,053.52	1	1,722.72	1	1,391.92	1	1,061.13	1	730.70	1	399.92	1	69.85	1	
1/4	2,708.14	1/4	2,377.42	1/4	2,046.63	1/4	1,715.83	1/4	1,385.03	1/4	1,054.24	1/4	723.81	1/4	393.03	1/4	63.16	1/4	
1/2	2,701.25	1/2	2,370.53	1/2	2,039.73	1/2	1,708.94	1/2	1,378.14	1/2	1,047.35	1/2	716.92	1/2	386.14	1/2	57.30	1/2	
3/4	2,694.36	3/4	2,363.64	3/4	2,032.84	3/4	1,702.05	3/4	1,371.25	3/4	1,040.46	3/4	710.03	3/4	379.25	3/4	51.45	3/4	
2	2,687.48	2	2,356.75	2	2,025.95	2	1,695.15	2	1,364.36	2	1,033.57	2	703.14	2	372.36	2	45.59	2	
1/4	2,680.59	1/4	2,349.86	1/4	2,019.06	1/4	1,688.26	1/4	1,357.47	1/4	1,026.68	1/4	696.25	1/4	365.47	1/4	39.74	1/4	
1/2	2,673.70	1/2	2,342.96	1/2	2,012.17	1/2	1,681.37	1/2	1,350.57	1/2	1,019.80	1/2	689.36	1/2	358.58	1/2	35.26	1/2	
3/4	2,666.82	3/4	2,336.07	3/4	2,005.28	3/4	1,674.48	3/4	1,343.68	3/4	1,012.91	3/4	682.46	3/4	351.69	3/4	30.78	3/4	
3	2,659.93	3	2,329.18	3	1,998.38	3	1,667.59	3	1,336.79	3	1,006.03	3	675.57	3	344.80	3	26.30	3	
1/4	2,653.04	1/4	2,322.29	1/4	1,991.49	1/4	1,660.70	1/4	1,329.90	1/4	999.15	1/4	668.68	1/4	337.92	1/4	21.82	1/4	
1/2	2,646.16	1/2	2,315.40	1/2	1,984.60	1/2	1,653.80	1/2	1,323.01	1/2	992.27	1/2	661.79	1/2	331.03	1/2		1/2	
3/4	2,639.27	3/4	2,308.51	3/4	1,977.71	3/4	1,646.91	3/4	1,316.12	3/4	985.38	3/4	654.90	3/4	324.14	3/4		3/4	
4	2,632.38	4	2,301.62	4	1,970.82	4	1,640.02	4	1,309.22	4	978.50	4	648.01	4	317.25	4		4	
1/4	2,625.49	1/4	2,294.72	1/4	1,963.93	1/4	1,633.13	1/4	1,302.33	1/4	971.62	1/4	641.12	1/4	310.36	1/4		1/4	
1/2	2,618.61	1/2	2,287.83	1/2	1,957.04	1/2	1,626.24	1/2	1,295.44	1/2	964.74	1/2	634.23	1/2	303.47	1/2		1/2	
3/4	2,611.72	3/4	2,280.94	3/4	1,950.14	3/4	1,619.35	3/4	1,288.55	3/4	957.86	3/4	627.33	3/4	296.58	3/4		3/4	
5	2,604.84	5	2,274.05	5	1,943.25	5	1,612.46	5	1,281.66	5	950.97	5	620.44	5	289.69	5		5	
1/4	2,597.95	1/4	2,267.16	1/4	1,936.36	1/4	1,605.56	1/4	1,274.77	1/4	944.09	1/4	613.55	1/4	282.80	1/4		1/4	
1/2	2,591.06	1/2	2,260.27	1/2	1,929.47	1/2	1,598.67	1/2	1,267.88	1/2	937.21	1/2	606.66	1/2	275.91	1/2		1/2	
3/4	2,584.17	3/4	2,253.37	3/4	1,922.58	3/4	1,591.78	3/4	1,260.98	3/4	930.33	3/4	599.77	3/4	269.02	3/4		3/4	
6	2,577.28	6	2,246.48	6	1,915.69	6	1,584.89	6	1,254.09	6	923.44	6	592.88	6	262.12	6		6	
1/4	2,570.39	1/4	2,239.59	1/4	1,908.79	1/4	1,578.00	1/4	1,247.20	1/4	916.56	1/4	585.99	1/4	255.23	1/4		1/4	
1/2	2,563.50	1/2	2,232.70	1/2	1,901.90	1/2	1,571.11	1/2	1,240.31	1/2	909.68	1/2	579.09	1/2	248.34	1/2		1/2	
3/4	2,556.60	3/4	2,225.81	3/4	1,895.01	3/4	1,564.21	3/4	1,233.42	3/4	902.80	3/4	572.20	3/4	241.45	3/4		3/4	
7	2,549.71	7	2,218.92	7	1,888.12	7	1,557.32	7	1,226.53	7	895.91	7	565.31	7	234.56	7		7	
1/4	2,542.82	1/4	2,212.02	1/4	1,881.23	1/4	1,550.43	1/4	1,219.63	1/4	889.03	1/4	558.42	1/4	227.67	1/4		1/4	
1/2	2,535.93	1/2	2,205.13	1/2	1,874.34	1/2	1,543.54	1/2	1,212.74	1/2	882.15	1/2	551.53	1/2	220.78	1/2		1/2	
3/4	2,529.04	3/4	2,198.24	3/4	1,867.44	3/4	1,536.65	3/4	1,205.85	3/4	875.27	3/4	544.64	3/4	213.88	3/4		3/4	
8	2,522.15	8	2,191.35	8	1,860.55	8	1,529.76	8	1,198.96	8	868.38	8	537.75	8	206.99	8		8	
1/4	2,515.25	1/4	2,184.46	1/4	1,853.66	1/4	1,522.86	1/4	1,192.07	1/4	861.50	1/4	530.86	1/4	200.10	1/4		1/4	
1/2	2,508.36	1/2	2,177.57	1/2	1,846.77	1/2	1,515.97	1/2	1,185.18	1/2	854.62	1/2	523.96	1/2	193.21	1/2		1/2	
3/4	2,501.47	3/4	2,170.67	3/4	1,839.88	3/4	1,509.08	3/4	1,178.28	3/4	847.74	3/4	517.07	3/4	186.32	3/4		3/4	
9	2,494.58	9	2,163.78	9	1,832.99	9	1,502.19	9	1,171.39	9	840.85	9	510.18	9	179.43	9		9	
1/4	2,487.69	1/4	2,156.89	1/4	1,826.09	1/4	1,495.30	1/4	1,164.50	1/4	833.97	1/4	503.29	1/4	172.54	1/4		1/4	
1/2	2,480.80	1/2	2,150.00	1/2	1,819.20	1/2	1,488.41	1/2	1,157.61	1/2	827.09	1/2	496.40	1/2	165.65	1/2		1/2	
3/4	2,473.91	3/4	2,143.11	3/4	1,812.31	3/4	1,481.51	3/4	1,150.72	3/4	820.21	3/4	489.51	3/4	158.76	3/4		3/4	
10	2,467.01	10	2,136.22	10	1,805.42	10	1,474.62	10	1,143.83	10	813.32	10	482.62	10	151.86	10		10	
1/4	2,460.12	1/4	2,129.33	1/4	1,798.53	1/4	1,467.73	1/4	1,136.93	1/4	806.44	1/4	475.73	1/4	144.97	1/4		1/4	
1/2	2,453.23	1/2	2,122.43	1/2	1,791.64	1/2	1,460.84	1/2	1,130.04	1/2	799.56	1/2	468.83	1/2	138.09	1/2		1/2	
3/4	2,446.34	3/4	2,115.54	3/4	1,784.75	3/4	1,453.95	3/4	1,123.15	3/4	792.68	3/4	461.94	3/4	131.20	3/4		3/4	
11	2,439.45	11	2,108.65	11	1,777.85	11	1,447.06	11	1,116.26	11	785.80	11	455.05	11	124.31	11		11	
1/4	2,432.56	1/4	2,101.76	1/4	1,770.96	1/4	1,440.17	1/4	1,109.37	1/4	778.91	1/4	448.16	1/4	117.42	1/4		1/4	
1/2	2,425.66	1/2	2,094.87	1/2	1,764.07	1/2	1,433.27	1/2	1,102.48	1/2	772.03	1/2	441.27	1/2	110.55	1/2		1/2	
3/4	2,418.77	3/4	2,087.98	3/4	1,757.18	3/4	1,426.38	3/4	1,095.59	3/4	765.15	3/4	434.38	3/4	103.67	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
NAME CHANGE: 07/19/2023 JS
PRINTED: 07/19/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29082"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,970.71	0	4,641.99	0	4,311.79	0	3,981.14	0	3,650.50	0	3,319.85	0	2,989.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.90	1/4	4,635.14	1/4	4,304.90	1/4	3,974.26	1/4	3,643.61	1/4	3,312.96	1/4	2,982.31		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.05	1/2	4,628.29	1/2	4,298.01	1/2	3,967.37	1/2	3,636.72	1/2	3,306.07	1/2	2,975.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,950.20	3/4	4,621.44	3/4	4,291.13	3/4	3,960.48	3/4	3,629.83	3/4	3,299.18	3/4	2,968.53		
1		1		1		1	4,943.35	1	4,614.59	1	4,284.24	1	3,953.59	1	3,622.94	1	3,292.29	1	2,961.65		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,936.51	1/4	4,607.74	1/4	4,277.35	1/4	3,946.70	1/4	3,616.05	1/4	3,285.41	1/4	2,954.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,929.66	1/2	4,600.89	1/2	4,270.46	1/2	3,939.81	1/2	3,609.16	1/2	3,278.52	1/2	2,947.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,922.81	3/4	4,594.05	3/4	4,263.57	3/4	3,932.92	3/4	3,602.28	3/4	3,271.63	3/4	2,940.98		
2		2		2		2	4,915.96	2	4,587.20	2	4,256.68	2	3,926.04	2	3,595.39	2	3,264.74	2	2,934.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,909.11	1/4	4,580.35	1/4	4,249.80	1/4	3,919.15	1/4	3,588.50	1/4	3,257.85	1/4	2,927.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,902.26	1/2	4,573.48	1/2	4,242.91	1/2	3,912.26	1/2	3,581.61	1/2	3,250.96	1/2	2,920.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,895.41	3/4	4,566.62	3/4	4,236.02	3/4	3,905.37	3/4	3,574.72	3/4	3,244.07	3/4	2,913.43		
3		3		3		3	4,888.56	3	4,559.75	3	4,229.13	3	3,898.48	3	3,567.83	3	3,237.19	3	2,906.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,881.71	1/4	4,552.89	1/4	4,222.24	1/4	3,891.59	1/4	3,560.95	1/4	3,230.30	1/4	2,899.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,874.86	1/2	4,546.00	1/2	4,215.35	1/2	3,884.70	1/2	3,554.06	1/2	3,223.41	1/2	2,892.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,868.01	3/4	4,539.11	3/4	4,208.46	3/4	3,877.82	3/4	3,547.17	3/4	3,216.52	3/4	2,885.87		
4		4		4		4	4,861.16	4	4,532.22	4	4,201.58	4	3,870.93	4	3,540.28	4	3,209.63	4	2,878.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,854.31	1/4	4,525.34	1/4	4,194.69	1/4	3,864.04	1/4	3,533.39	1/4	3,202.74	1/4	2,872.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.47	1/2	4,518.45	1/2	4,187.80	1/2	3,857.15	1/2	3,526.50	1/2	3,195.85	1/2	2,865.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,840.62	3/4	4,511.56	3/4	4,180.91	3/4	3,850.26	3/4	3,519.61	3/4	3,188.97	3/4	2,858.32		
5		5		5		5	4,833.77	5	4,504.67	5	4,174.02	5	3,843.37	5	3,512.73	5	3,182.08	5	2,851.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,826.92	1/4	4,497.78	1/4	4,167.13	1/4	3,836.49	1/4	3,505.84	1/4	3,175.19	1/4	2,844.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,820.07	1/2	4,490.89	1/2	4,160.24	1/2	3,829.60	1/2	3,498.95	1/2	3,168.30	1/2	2,837.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,813.22	3/4	4,484.00	3/4	4,153.36	3/4	3,822.71	3/4	3,492.06	3/4	3,161.41	3/4	2,830.76		
6		6		6		6	4,806.37	6	4,477.12	6	4,146.47	6	3,815.82	6	3,485.17	6	3,154.52	6	2,823.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,799.52	1/4	4,470.23	1/4	4,139.58	1/4	3,808.93	1/4	3,478.28	1/4	3,147.64	1/4	2,816.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,792.67	1/2	4,463.34	1/2	4,132.69	1/2	3,802.04	1/2	3,471.39	1/2	3,140.75	1/2	2,810.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,108.00	3/4	4,785.82	3/4	4,456.45	3/4	4,125.80	3/4	3,795.15	3/4	3,464.51	3/4	3,133.86	3/4	2,803.21
7		7		7		7	5,102.90	7	4,778.97	7	4,449.56	7	4,118.91	7	3,788.27	7	3,457.62	7	3,126.97	7	2,796.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,097.80	1/4	4,772.12	1/4	4,442.67	1/4	4,112.03	1/4	3,781.38	1/4	3,450.73	1/4	3,120.08	1/4	2,789.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,091.51	1/2	4,765.28	1/2	4,435.78	1/2	4,105.14	1/2	3,774.49	1/2	3,443.84	1/2	3,113.19	1/2	2,782.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,085.23	3/4	4,758.43	3/4	4,428.90	3/4	4,098.25	3/4	3,767.60	3/4	3,436.95	3/4	3,106.30	3/4	2,775.66
8		8		8		8	5,078.95	8	4,751.58	8	4,422.01	8	4,091.36	8	3,760.71	8	3,430.06	8	3,099.42	8	2,768.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,072.67	1/4	4,744.73	1/4	4,415.12	1/4	4,084.47	1/4	3,753.82	1/4	3,423.18	1/4	3,092.53	1/4	2,761.88
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,066.88	1/2	4,737.88	1/2	4,408.23	1/2	4,077.58	1/2	3,746.93	1/2	3,416.29	1/2	3,085.64	1/2	2,754.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,059.08	3/4	4,731.03	3/4	4,401.34	3/4	4,070.69	3/4	3,740.05	3/4	3,409.40	3/4	3,078.75	3/4	2,748.10
9		9		9		9	5,052.29	9	4,724.18	9	4,394.45	9	4,063.81	9	3,733.16	9	3,402.51	9	3,071.86	9	2,741.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,045.49	1/4	4,717.33	1/4	4,387.57	1/4	4,056.92	1/4	3,726.27	1/4	3,395.62	1/4	3,064.97	1/4	2,734.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,038.69	1/2	4,710.48	1/2	4,380.68	1/2	4,050.03	1/2	3,719.38	1/2	3,388.73	1/2	3,058.08	1/2	2,727.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,031.90	3/4	4,703.63	3/4	4,373.79	3/4	4,043.14	3/4	3,712.49	3/4	3,381.84	3/4	3,051.20	3/4	2,720.55
10		10		10		10	5,025.10	10	4,696.78	10	4,366.90	10	4,036.25	10	3,705.60	10	3,374.96	10	3,044.31	10	2,713.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,018.31	1/4	4,689.93	1/4	4,360.01	1/4	4,029.36	1/4	3,698.72	1/4	3,368.07	1/4	3,037.42	1/4	2,706.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,011.52	1/2	4,683.08	1/2	4,353.12	1/2	4,022.47	1/2	3,691.83	1/2	3,361.18	1/2	3,030.53	1/2	2,699.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,004.72	3/4	4,676.24	3/4	4,346.23	3/4	4,015.59	3/4	3,684.94	3/4	3,354.29	3/4	3,023.64	3/4	2,692.99
11		11		11		11	4,997.93	11	4,669.39	11	4,339.35	11	4,008.70	11	3,678.05	11	3,347.40	11	3,016.75	11	2,686.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,991.13	1/4	4,662.54	1/4	4,332.46	1/4	4,001.81	1/4	3,671.16	1/4	3,340.51	1/4	3,009.87	1/4	2,679.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,984.33	1/2	4,655.69	1/2	4,325.57	1/2	3,994.92	1/2	3,664.27	1/2	3,333.62	1/2	3,002.98	1/2	2,672.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,977.52	3/4	4,648.84	3/4	4,318.68	3/4	3,988.03	3/4	3,657.38	3/4	3,326.74	3/4	2,996.09	3/4	2,665.44

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29082"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,658.55	0	2,327.77	0	1,996.89	0	1,666.02	0	1,335.15	0	1,004.27	0	707.41	0	409.73	0	94.82	0	
1/4	2,651.66	1/4	2,320.87	1/4	1,990.00	1/4	1,659.13	1/4	1,328.25	1/4	997.38	1/4	701.72	1/4	403.34	1/4	88.12	1/4	
1/2	2,644.77	1/2	2,313.98	1/2	1,983.11	1/2	1,652.23	1/2	1,321.36	1/2	990.58	1/2	695.90	1/2	396.92	1/2	81.57	1/2	
3/4	2,637.89	3/4	2,307.09	3/4	1,976.21	3/4	1,645.34	3/4	1,314.47	3/4	983.77	3/4	690.08	3/4	390.50	3/4	75.02	3/4	
1	2,631.00	1	2,300.19	1	1,969.32	1	1,638.45	1	1,307.57	1	976.97	1	684.27	1	384.08	1	68.47	1	
1/4	2,624.11	1/4	2,293.30	1/4	1,962.43	1/4	1,631.55	1/4	1,300.68	1/4	970.17	1/4	678.45	1/4	377.66	1/4	61.92	1/4	
1/2	2,617.22	1/2	2,286.41	1/2	1,955.53	1/2	1,624.66	1/2	1,293.79	1/2	963.64	1/2	672.33	1/2	371.22	1/2	56.18	1/2	
3/4	2,610.33	3/4	2,279.51	3/4	1,948.64	3/4	1,617.77	3/4	1,286.89	3/4	957.11	3/4	666.22	3/4	364.78	3/4	50.44	3/4	
2	2,603.44	2	2,272.62	2	1,941.75	2	1,610.87	2	1,280.00	2	950.57	2	660.10	2	358.33	2	44.70	2	
1/4	2,596.56	1/4	2,265.73	1/4	1,934.85	1/4	1,603.98	1/4	1,273.11	1/4	944.04	1/4	653.99	1/4	351.89	1/4	38.96	1/4	
1/2	2,589.67	1/2	2,258.83	1/2	1,927.96	1/2	1,597.09	1/2	1,266.21	1/2	937.52	1/2	647.85	1/2	345.42	1/2	34.57	1/2	
3/4	2,582.78	3/4	2,251.94	3/4	1,921.07	3/4	1,590.19	3/4	1,259.32	3/4	930.99	3/4	641.71	3/4	338.95	3/4	30.18	3/4	
3	2,575.89	3	2,245.05	3	1,914.17	3	1,583.30	3	1,252.43	3	924.47	3	635.56	3	332.48	3	25.79	3	
1/4	2,569.00	1/4	2,238.16	1/4	1,907.28	1/4	1,576.41	1/4	1,245.53	1/4	917.94	1/4	629.42	1/4	326.01	1/4	21.40	1/4	
1/2	2,562.11	1/2	2,231.26	1/2	1,900.39	1/2	1,569.51	1/2	1,238.64	1/2	911.41	1/2	623.25	1/2	319.51	1/2		1/2	
3/4	2,555.22	3/4	2,224.37	3/4	1,893.50	3/4	1,562.62	3/4	1,231.75	3/4	904.89	3/4	617.08	3/4	313.01	3/4		3/4	
4	2,548.34	4	2,217.48	4	1,886.60	4	1,555.73	4	1,224.85	4	898.36	4	610.91	4	306.51	4		4	
1/4	2,541.45	1/4	2,210.58	1/4	1,879.71	1/4	1,548.84	1/4	1,217.96	1/4	891.84	1/4	604.74	1/4	300.02	1/4		1/4	
1/2	2,534.56	1/2	2,203.69	1/2	1,872.82	1/2	1,541.94	1/2	1,211.07	1/2	885.31	1/2	598.54	1/2	293.49	1/2		1/2	
3/4	2,527.67	3/4	2,196.80	3/4	1,865.92	3/4	1,535.05	3/4	1,204.18	3/4	878.79	3/4	592.35	3/4	286.96	3/4		3/4	
5	2,520.77	5	2,189.90	5	1,859.03	5	1,528.16	5	1,197.28	5	872.26	5	586.15	5	280.43	5		5	
1/4	2,513.88	1/4	2,183.01	1/4	1,852.14	1/4	1,521.26	1/4	1,190.39	1/4	865.73	1/4	579.95	1/4	273.90	1/4		1/4	
1/2	2,506.99	1/2	2,176.12	1/2	1,845.24	1/2	1,514.37	1/2	1,183.50	1/2	859.21	1/2	573.73	1/2	267.35	1/2		1/2	
3/4	2,500.10	3/4	2,169.22	3/4	1,838.35	3/4	1,507.48	3/4	1,176.60	3/4	852.68	3/4	567.50	3/4	260.79	3/4		3/4	
6	2,493.20	6	2,162.33	6	1,831.46	6	1,500.58	6	1,169.71	6	846.16	6	561.28	6	254.24	6		6	
1/4	2,486.31	1/4	2,155.44	1/4	1,824.56	1/4	1,493.69	1/4	1,162.82	1/4	839.63	1/4	555.05	1/4	247.68	1/4		1/4	
1/2	2,479.42	1/2	2,148.54	1/2	1,817.67	1/2	1,486.80	1/2	1,155.92	1/2	833.34	1/2	548.80	1/2	241.10	1/2		1/2	
3/4	2,472.52	3/4	2,141.65	3/4	1,810.78	3/4	1,479.90	3/4	1,149.03	3/4	827.05	3/4	542.55	3/4	234.52	3/4		3/4	
7	2,465.63	7	2,134.76	7	1,803.88	7	1,473.01	7	1,142.14	7	820.76	7	536.29	7	227.93	7		7	
1/4	2,458.74	1/4	2,127.86	1/4	1,796.99	1/4	1,466.12	1/4	1,135.24	1/4	814.48	1/4	530.04	1/4	221.35	1/4		1/4	
1/2	2,451.84	1/2	2,120.97	1/2	1,790.10	1/2	1,459.22	1/2	1,128.35	1/2	808.89	1/2	523.76	1/2	214.74	1/2		1/2	
3/4	2,444.95	3/4	2,114.08	3/4	1,783.20	3/4	1,452.33	3/4	1,121.46	3/4	803.31	3/4	517.48	3/4	208.13	3/4		3/4	
8	2,438.06	8	2,107.18	8	1,776.31	8	1,445.44	8	1,114.56	8	797.73	8	511.20	8	201.52	8		8	
1/4	2,431.16	1/4	2,100.29	1/4	1,769.42	1/4	1,438.54	1/4	1,107.67	1/4	792.15	1/4	504.92	1/4	194.91	1/4		1/4	
1/2	2,424.27	1/2	2,093.40	1/2	1,762.52	1/2	1,431.65	1/2	1,100.78	1/2	786.54	1/2	498.61	1/2	188.27	1/2		1/2	
3/4	2,417.38	3/4	2,086.50	3/4	1,755.63	3/4	1,424.76	3/4	1,093.88	3/4	780.93	3/4	492.30	3/4	181.63	3/4		3/4	
9	2,410.49	9	2,079.61	9	1,748.74	9	1,417.86	9	1,086.99	9	775.32	9	486.00	9	174.99	9		9	
1/4	2,403.59	1/4	2,072.72	1/4	1,741.84	1/4	1,410.97	1/4	1,080.10	1/4	769.71	1/4	479.69	1/4	168.35	1/4		1/4	
1/2	2,396.70	1/2	2,065.83	1/2	1,734.95	1/2	1,404.08	1/2	1,073.20	1/2	764.07	1/2	473.35	1/2	161.69	1/2		1/2	
3/4	2,389.81	3/4	2,058.93	3/4	1,728.06	3/4	1,397.18	3/4	1,066.31	3/4	758.43	3/4	467.02	3/4	155.02	3/4		3/4	
10	2,382.91	10	2,052.04	10	1,721.17	10	1,390.29	10	1,059.42	10	752.79	10	460.68	10	148.36	10		10	
1/4	2,376.02	1/4	2,045.15	1/4	1,714.27	1/4	1,383.40	1/4	1,052.52	1/4	747.15	1/4	454.35	1/4	141.69	1/4		1/4	
1/2	2,369.13	1/2	2,038.25	1/2	1,707.38	1/2	1,376.51	1/2	1,045.63	1/2	741.49	1/2	447.98	1/2	135.00	1/2		1/2	
3/4	2,362.23	3/4	2,031.36	3/4	1,700.49	3/4	1,369.61	3/4	1,038.74	3/4	735.82	3/4	441.62	3/4	128.31	3/4		3/4	
11	2,355.34	11	2,024.47	11	1,693.59	11	1,362.72	11	1,031.85	11	730.16	11	435.26	11	121.62	11		11	
1/4	2,348.45	1/4	2,017.57	1/4	1,686.70	1/4	1,355.83	1/4	1,024.95	1/4	724.49	1/4	428.90	1/4	114.93	1/4		1/4	
1/2	2,341.55	1/2	2,010.68	1/2	1,679.81	1/2	1,348.93	1/2	1,018.06	1/2	718.80	1/2	422.51	1/2	108.23	1/2		1/2	
3/4	2,334.66	3/4	2,003.79	3/4	1,672.91	3/4	1,342.04	3/4	1,011.17	3/4	713.11	3/4	416.12	3/4	101.53	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "KIRBY 29082"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-0 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,441.25	0	4,263.38	0	4,073.13	0	3,872.72	0	3,670.82	0	3,397.26	0	3,067.96
1/4		1/4		1/4		1/4	4,437.70	1/4	4,259.55	1/4	4,069.04	1/4	3,868.52	1/4	3,666.61	1/4	3,390.40	1/4	3,061.10
1/2		1/2		1/2		1/2	4,434.14	1/2	4,255.73	1/2	4,064.95	1/2	3,864.31	1/2	3,662.41	1/2	3,383.54	1/2	3,054.24
3/4		3/4		3/4		3/4	4,430.53	3/4	4,251.89	3/4	4,060.85	3/4	3,860.10	3/4	3,658.20	3/4	3,376.68	3/4	3,047.38
1		1		1		1	4,426.92	1	4,248.05	1	4,056.74	1	3,855.90	1	3,653.99	1	3,369.82	1	3,040.52
1/4		1/4		1/4		1/4	4,423.31	1/4	4,244.21	1/4	4,052.63	1/4	3,851.69	1/4	3,649.79	1/4	3,362.95	1/4	3,033.66
1/2		1/2		1/2		1/2	4,419.69	1/2	4,240.37	1/2	4,048.52	1/2	3,847.48	1/2	3,645.58	1/2	3,356.09	1/2	3,026.80
3/4		3/4		3/4		3/4	4,416.06	3/4	4,236.51	3/4	4,044.40	3/4	3,843.28	3/4	3,641.38	3/4	3,349.23	3/4	3,019.93
2		2		2		2	4,412.43	2	4,232.66	2	4,040.27	2	3,839.07	2	3,637.17	2	3,342.37	2	3,013.07
1/4		1/4		1/4		1/4	4,408.80	1/4	4,228.80	1/4	4,036.15	1/4	3,834.87	1/4	3,632.96	1/4	3,335.51	1/4	3,006.21
1/2		1/2		1/2		1/2	4,405.17	1/2	4,224.94	1/2	4,032.02	1/2	3,830.66	1/2	3,628.76	1/2	3,328.65	1/2	2,999.35
3/4		3/4		3/4		3/4	4,401.52	3/4	4,221.05	3/4	4,027.88	3/4	3,826.45	3/4	3,624.55	3/4	3,321.79	3/4	2,992.49
3		3		3		3	4,397.87	3	4,217.16	3	4,023.73	3	3,822.25	3	3,620.34	3	3,314.93	3	2,985.63
1/4		1/4		1/4		1/4	4,394.21	1/4	4,213.27	1/4	4,019.59	1/4	3,818.04	1/4	3,616.14	1/4	3,308.07	1/4	2,978.77
1/2		1/2		1/2		1/2	4,390.56	1/2	4,209.39	1/2	4,015.44	1/2	3,813.83	1/2	3,611.93	1/2	3,301.21	1/2	2,971.91
3/4		3/4		3/4		3/4	4,386.89	3/4	4,205.45	3/4	4,011.28	3/4	3,809.63	3/4	3,607.73	3/4	3,294.35	3/4	2,965.05
4		4		4		4	4,383.23	4	4,201.51	4	4,007.12	4	3,805.42	4	3,603.52	4	3,287.49	4	2,958.19
1/4		1/4		1/4		1/4	4,379.56	1/4	4,197.58	1/4	4,002.95	1/4	3,801.22	1/4	3,599.31	1/4	3,280.63	1/4	2,951.33
1/2		1/2		1/2		1/2	4,375.89	1/2	4,193.64	1/2	3,998.79	1/2	3,797.01	1/2	3,595.11	1/2	3,273.77	1/2	2,944.47
3/4		3/4		3/4		3/4	4,372.20	3/4	4,189.69	3/4	3,994.61	3/4	3,792.80	3/4	3,590.37	3/4	3,266.91	3/4	2,937.61
5		5		5		5	4,368.51	5	4,185.73	5	3,990.42	5	3,788.60	5	3,585.63	5	3,260.05	5	2,930.75
1/4		1/4		1/4		1/4	4,364.82	1/4	4,181.78	1/4	3,986.24	1/4	3,784.39	1/4	3,580.90	1/4	3,253.19	1/4	2,923.89
1/2		1/2		1/2		1/2	4,361.13	1/2	4,177.82	1/2	3,982.06	1/2	3,780.18	1/2	3,575.63	1/2	3,246.33	1/2	2,917.03
3/4		3/4		3/4		3/4	4,357.42	3/4	4,173.85	3/4	3,977.86	3/4	3,775.98	3/4	3,568.77	3/4	3,239.47	3/4	2,910.17
6		6		6		6	4,353.72	6	4,169.87	6	3,973.66	6	3,771.77	6	3,561.91	6	3,232.61	6	2,903.31
1/4		1/4		1/4		1/4	4,350.01	1/4	4,165.90	1/4	3,969.46	1/4	3,767.56	1/4	3,555.05	1/4	3,225.75	1/4	2,896.45
1/2		1/2		1/2		1/2	4,346.30	1/2	4,161.92	1/2	3,965.26	1/2	3,763.36	1/2	3,548.19	1/2	3,218.89	1/2	2,889.59
3/4		3/4		3/4		3/4	4,342.58	3/4	4,157.93	3/4	3,961.05	3/4	3,759.15	3/4	3,541.33	3/4	3,212.03	3/4	2,882.73
7		7		7	4,506.69	7	4,338.85	7	4,153.94	7	3,956.85	7	3,754.95	7	3,534.46	7	3,205.17	7	2,875.87
1/4		1/4		1/4	4,504.43	1/4	4,335.12	1/4	4,149.94	1/4	3,952.64	1/4	3,750.74	1/4	3,527.60	1/4	3,198.31	1/4	2,869.01
1/2		1/2		1/2	4,502.16	1/2	4,331.40	1/2	4,145.95	1/2	3,948.44	1/2	3,746.53	1/2	3,520.74	1/2	3,191.44	1/2	2,862.15
3/4		3/4		3/4	4,499.22	3/4	4,327.65	3/4	4,141.94	3/4	3,944.23	3/4	3,742.33	3/4	3,513.88	3/4	3,184.58	3/4	2,855.29
8		8		8	4,496.27	8	4,323.91	8	4,137.93	8	3,940.02	8	3,738.12	8	3,507.02	8	3,177.72	8	2,848.42
1/4		1/4		1/4	4,493.32	1/4	4,320.16	1/4	4,133.91	1/4	3,935.82	1/4	3,733.91	1/4	3,500.16	1/4	3,170.86	1/4	2,841.56
1/2		1/2		1/2	4,490.37	1/2	4,316.42	1/2	4,129.90	1/2	3,931.61	1/2	3,729.71	1/2	3,493.30	1/2	3,164.00	1/2	2,834.70
3/4		3/4		3/4	4,486.89	3/4	4,312.65	3/4	4,125.87	3/4	3,927.40	3/4	3,725.50	3/4	3,486.44	3/4	3,157.14	3/4	2,827.84
9		9		9	4,483.40	9	4,308.89	9	4,121.84	9	3,923.20	9	3,721.30	9	3,479.58	9	3,150.28	9	2,820.98
1/4		1/4		1/4	4,479.92	1/4	4,305.12	1/4	4,117.81	1/4	3,918.99	1/4	3,717.09	1/4	3,472.72	1/4	3,143.42	1/4	2,814.12
1/2		1/2		1/2	4,476.44	1/2	4,301.36	1/2	4,113.78	1/2	3,914.79	1/2	3,712.88	1/2	3,465.86	1/2	3,136.56	1/2	2,807.26
3/4		3/4		3/4	4,472.93	3/4	4,297.58	3/4	4,109.73	3/4	3,910.58	3/4	3,708.68	3/4	3,459.00	3/4	3,129.70	3/4	2,800.40
10		10		10	4,469.43	10	4,293.79	10	4,105.68	10	3,906.37	10	3,704.47	10	3,452.14	10	3,122.84	10	2,793.54
1/4		1/4		1/4	4,465.93	1/4	4,290.01	1/4	4,101.63	1/4	3,902.17	1/4	3,700.26	1/4	3,445.28	1/4	3,115.98	1/4	2,786.68
1/2		1/2		1/2	4,462.43	1/2	4,286.23	1/2	4,097.58	1/2	3,897.96	1/2	3,696.06	1/2	3,438.42	1/2	3,109.12	1/2	2,779.82
3/4		3/4		3/4	4,458.91	3/4	4,282.42	3/4	4,093.51	3/4	3,893.75	3/4	3,691.85	3/4	3,431.56	3/4	3,102.26	3/4	2,772.96
11		11		11	4,455.39	11	4,278.62	11	4,089.44	11	3,889.55	11	3,687.65	11	3,424.70	11	3,095.40	11	2,766.10
1/4		1/4		1/4	4,451.87	1/4	4,274.82	1/4	4,085.37	1/4	3,885.34	1/4	3,683.44	1/4	3,417.84	1/4	3,088.54	1/4	2,759.24
1/2		1/2		1/2	4,448.35	1/2	4,271.02	1/2	4,081.30	1/2	3,881.14	1/2	3,679.23	1/2	3,410.98	1/2	3,081.68	1/2	2,752.38
3/4		3/4		3/4	4,444.80	3/4	4,267.20	3/4	4,077.22	3/4	3,876.93	3/4	3,675.03	3/4	3,404.12	3/4	3,074.82	3/4	2,745.52

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 29082"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03 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	2,738.66	0	2,409.24	0	2,079.72	0	1,750.30	0	1,420.78	0	1,091.26	0	762.20	0	432.71	0	103.28	0	
1/4	2,731.80	1/4	2,402.37	1/4	2,072.86	1/4	1,743.44	1/4	1,413.92	1/4	1,084.40	1/4	755.34	1/4	425.85	1/4	96.43	1/4	
1/2	2,724.94	1/2	2,395.51	1/2	2,066.00	1/2	1,736.57	1/2	1,407.05	1/2	1,077.53	1/2	748.49	1/2	418.98	1/2	89.58	1/2	
3/4	2,718.08	3/4	2,388.64	3/4	2,059.14	3/4	1,729.71	3/4	1,400.19	3/4	1,070.67	3/4	741.62	3/4	412.12	3/4	82.92	3/4	
1	2,711.22	1	2,381.78	1	2,052.28	1	1,722.84	1	1,393.32	1	1,063.80	1	734.76	1	405.25	1	76.25	1	
1/4	2,704.36	1/4	2,374.91	1/4	2,045.42	1/4	1,715.98	1/4	1,386.46	1/4	1,056.94	1/4	727.89	1/4	398.39	1/4	69.59	1/4	
1/2	2,697.50	1/2	2,368.05	1/2	2,038.55	1/2	1,709.11	1/2	1,379.59	1/2	1,050.07	1/2	721.03	1/2	391.52	1/2	62.92	1/2	
3/4	2,690.64	3/4	2,361.18	3/4	2,031.69	3/4	1,702.25	3/4	1,372.73	3/4	1,043.21	3/4	714.16	3/4	384.66	3/4	57.09	3/4	
2	2,683.78	2	2,354.31	2	2,024.83	2	1,695.38	2	1,365.86	2	1,036.35	2	707.30	2	377.80	2	51.25	2	
1/4	2,676.91	1/4	2,347.45	1/4	2,017.97	1/4	1,688.52	1/4	1,359.00	1/4	1,029.49	1/4	700.43	1/4	370.93	1/4	45.42	1/4	
1/2	2,670.05	1/2	2,340.58	1/2	2,011.11	1/2	1,681.65	1/2	1,352.13	1/2	1,022.63	1/2	693.57	1/2	364.07	1/2	39.59	1/2	
3/4	2,663.19	3/4	2,333.72	3/4	2,004.25	3/4	1,674.79	3/4	1,345.27	3/4	1,015.77	3/4	686.71	3/4	357.21	3/4	35.13	3/4	
3	2,656.33	3	2,326.85	3	1,997.39	3	1,667.92	3	1,338.40	3	1,008.92	3	679.84	3	350.34	3	30.66	3	
1/4	2,649.47	1/4	2,319.99	1/4	1,990.52	1/4	1,661.06	1/4	1,331.54	1/4	1,002.07	1/4	672.98	1/4	343.48	1/4	26.20	1/4	
1/2	2,642.61	1/2	2,313.12	1/2	1,983.66	1/2	1,654.19	1/2	1,324.67	1/2	995.21	1/2	666.11	1/2	336.62	1/2	21.74	1/2	
3/4	2,635.75	3/4	2,306.26	3/4	1,976.80	3/4	1,647.33	3/4	1,317.81	3/4	988.36	3/4	659.25	3/4	329.76	3/4		3/4	
4	2,628.89	4	2,299.39	4	1,969.94	4	1,640.46	4	1,310.94	4	981.51	4	652.38	4	322.90	4		4	
1/4	2,622.03	1/4	2,292.53	1/4	1,963.08	1/4	1,633.60	1/4	1,304.08	1/4	974.65	1/4	645.52	1/4	316.04	1/4		1/4	
1/2	2,615.17	1/2	2,285.66	1/2	1,956.22	1/2	1,626.73	1/2	1,297.21	1/2	967.80	1/2	638.65	1/2	309.17	1/2		1/2	
3/4	2,608.31	3/4	2,278.80	3/4	1,949.36	3/4	1,619.87	3/4	1,290.35	3/4	960.95	3/4	631.79	3/4	302.31	3/4		3/4	
5	2,601.45	5	2,271.93	5	1,942.50	5	1,613.00	5	1,283.48	5	954.09	5	624.92	5	295.44	5		5	
1/4	2,594.59	1/4	2,265.07	1/4	1,935.63	1/4	1,606.14	1/4	1,276.62	1/4	947.24	1/4	618.06	1/4	288.58	1/4		1/4	
1/2	2,587.73	1/2	2,258.20	1/2	1,928.77	1/2	1,599.27	1/2	1,269.75	1/2	940.39	1/2	611.19	1/2	281.72	1/2		1/2	
3/4	2,580.86	3/4	2,251.34	3/4	1,921.91	3/4	1,592.41	3/4	1,262.89	3/4	933.54	3/4	604.33	3/4	274.85	3/4		3/4	
6	2,574.00	6	2,244.47	6	1,915.05	6	1,585.54	6	1,256.02	6	926.68	6	597.46	6	267.99	6		6	
1/4	2,567.13	1/4	2,237.61	1/4	1,908.19	1/4	1,578.68	1/4	1,249.16	1/4	919.83	1/4	590.60	1/4	261.12	1/4		1/4	
1/2	2,560.27	1/2	2,230.74	1/2	1,901.33	1/2	1,571.81	1/2	1,242.29	1/2	912.98	1/2	583.73	1/2	254.26	1/2		1/2	
3/4	2,553.40	3/4	2,223.88	3/4	1,894.46	3/4	1,564.95	3/4	1,235.43	3/4	906.12	3/4	576.87	3/4	247.39	3/4		3/4	
7	2,546.54	7	2,217.01	7	1,887.60	7	1,558.08	7	1,228.56	7	899.27	7	570.01	7	240.53	7		7	
1/4	2,539.67	1/4	2,210.15	1/4	1,880.74	1/4	1,551.22	1/4	1,221.70	1/4	892.42	1/4	563.14	1/4	233.66	1/4		1/4	
1/2	2,532.81	1/2	2,203.28	1/2	1,873.87	1/2	1,544.35	1/2	1,214.83	1/2	885.56	1/2	556.28	1/2	226.80	1/2		1/2	
3/4	2,525.94	3/4	2,196.42	3/4	1,867.01	3/4	1,537.49	3/4	1,207.97	3/4	878.71	3/4	549.41	3/4	219.93	3/4		3/4	
8	2,519.08	8	2,189.55	8	1,860.14	8	1,530.62	8	1,201.10	8	871.86	8	542.55	8	213.07	8		8	
1/4	2,512.21	1/4	2,182.69	1/4	1,853.28	1/4	1,523.76	1/4	1,194.24	1/4	865.00	1/4	535.68	1/4	206.20	1/4		1/4	
1/2	2,505.35	1/2	2,175.82	1/2	1,846.41	1/2	1,516.89	1/2	1,187.37	1/2	858.15	1/2	528.82	1/2	199.34	1/2		1/2	
3/4	2,498.48	3/4	2,168.96	3/4	1,839.55	3/4	1,510.03	3/4	1,180.51	3/4	851.30	3/4	521.95	3/4	192.47	3/4		3/4	
9	2,491.62	9	2,162.09	9	1,832.68	9	1,503.16	9	1,173.64	9	844.44	9	515.09	9	185.61	9		9	
1/4	2,484.75	1/4	2,155.23	1/4	1,825.82	1/4	1,496.30	1/4	1,166.78	1/4	837.59	1/4	508.22	1/4	178.74	1/4		1/4	
1/2	2,477.89	1/2	2,148.36	1/2	1,818.95	1/2	1,489.43	1/2	1,159.91	1/2	830.74	1/2	501.36	1/2	171.88	1/2		1/2	
3/4	2,471.02	3/4	2,141.50	3/4	1,812.09	3/4	1,482.57	3/4	1,153.05	3/4	823.89	3/4	494.49	3/4	165.01	3/4		3/4	
10	2,464.16	10	2,134.63	10	1,805.22	10	1,475.70	10	1,146.18	10	817.03	10	487.63	10	158.15	10		10	
1/4	2,457.29	1/4	2,127.77	1/4	1,798.36	1/4	1,468.84	1/4	1,139.32	1/4	810.18	1/4	480.76	1/4	151.29	1/4		1/4	
1/2	2,450.43	1/2	2,120.90	1/2	1,791.49	1/2	1,461.97	1/2	1,132.45	1/2	803.33	1/2	473.90	1/2	144.42	1/2		1/2	
3/4	2,443.56	3/4	2,114.04	3/4	1,784.63	3/4	1,455.11	3/4	1,125.59	3/4	796.47	3/4	467.03	3/4	137.56	3/4		3/4	
11	2,436.70	11	2,107.17	11	1,777.76	11	1,448.24	11	1,118.72	11	789.62	11	460.17	11	130.70	11		11	
1/4	2,429.83	1/4	2,100.31	1/4	1,770.90	1/4	1,441.38	1/4	1,111.86	1/4	782.77	1/4	453.31	1/4	123.84	1/4		1/4	
1/2	2,422.97	1/2	2,093.44	1/2	1,764.03	1/2	1,434.51	1/2	1,104.99	1/2	775.91	1/2	446.44	1/2	116.98	1/2		1/2	
3/4	2,416.10	3/4	2,086.58	3/4	1,757.17	3/4	1,427.65	3/4	1,098.13	3/4	769.06	3/4	439.58	3/4	110.13	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
NAME CHANGE: 07/19/2023 JS
PRINTED: 07/19/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 29082"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,409.28	0	4,230.87	0	4,040.09	0	3,839.45	0	3,637.55	0	3,358.94	0	3,030.86		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,405.67	1/4	4,227.03	1/4	4,035.99	1/4	3,835.24	1/4	3,633.34	1/4	3,352.10	1/4	3,024.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,402.06	1/2	4,223.19	1/2	4,031.88	1/2	3,831.04	1/2	3,629.13	1/2	3,345.25	1/2	3,017.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,398.45	3/4	4,219.35	3/4	4,027.77	3/4	3,826.83	3/4	3,624.93	3/4	3,338.41	3/4	3,010.44		
1		1		1		1	4,394.83	1	4,215.51	1	4,023.66	1	3,822.62	1	3,620.72	1	3,331.56	1	3,003.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,391.20	1/4	4,211.65	1/4	4,019.54	1/4	3,818.42	1/4	3,616.52	1/4	3,324.72	1/4	2,996.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,387.57	1/2	4,207.80	1/2	4,015.41	1/2	3,814.21	1/2	3,612.31	1/2	3,317.87	1/2	2,990.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,383.94	3/4	4,203.94	3/4	4,011.29	3/4	3,810.01	3/4	3,608.10	3/4	3,311.03	3/4	2,983.20		
2		2		2		2	4,380.31	2	4,200.08	2	4,007.16	2	3,805.80	2	3,603.90	2	3,304.18	2	2,976.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,376.66	1/4	4,196.19	1/4	4,003.02	1/4	3,801.59	1/4	3,599.69	1/4	3,297.34	1/4	2,969.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,373.01	1/2	4,192.30	1/2	3,998.87	1/2	3,797.39	1/2	3,595.48	1/2	3,290.49	1/2	2,962.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,369.35	3/4	4,188.41	3/4	3,994.73	3/4	3,793.18	3/4	3,591.28	3/4	3,283.65	3/4	2,955.94		
3		3		3		3	4,365.70	3	4,184.53	3	3,990.58	3	3,788.97	3	3,587.07	3	3,276.80	3	2,949.12		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,362.03	1/4	4,180.59	1/4	3,986.42	1/4	3,784.77	1/4	3,582.87	1/4	3,269.96	1/4	2,942.28		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,358.37	1/2	4,176.65	1/2	3,982.26	1/2	3,780.56	1/2	3,578.66	1/2	3,263.12	1/2	2,935.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,354.70	3/4	4,172.72	3/4	3,978.09	3/4	3,776.36	3/4	3,574.45	3/4	3,256.27	3/4	2,928.59		
4		4		4		4	4,351.03	4	4,168.78	4	3,973.93	4	3,772.15	4	3,570.25	4	3,249.43	4	2,921.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,347.34	1/4	4,164.83	1/4	3,969.75	1/4	3,767.94	1/4	3,565.51	1/4	3,242.58	1/4	2,914.90		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.65	1/2	4,160.87	1/2	3,965.56	1/2	3,763.74	1/2	3,560.77	1/2	3,235.74	1/2	2,908.05		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,339.96	3/4	4,156.92	3/4	3,961.38	3/4	3,759.53	3/4	3,556.04	3/4	3,228.89	3/4	2,901.21		
5		5		5		5	4,336.27	5	4,152.96	5	3,957.20	5	3,755.32	5	3,550.77	5	3,222.05	5	2,894.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.57	1/4	4,148.99	1/4	3,953.00	1/4	3,751.12	1/4	3,543.91	1/4	3,215.20	1/4	2,887.52		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,328.86	1/2	4,145.01	1/2	3,948.80	1/2	3,746.91	1/2	3,537.05	1/2	3,208.36	1/2	2,880.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,325.15	3/4	4,141.04	3/4	3,944.60	3/4	3,742.70	3/4	3,530.19	3/4	3,201.51	3/4	2,873.83		
6		6		6		6	4,321.44	6	4,137.06	6	3,940.40	6	3,738.50	6	3,523.33	6	3,194.67	6	2,866.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,317.72	1/4	4,133.07	1/4	3,936.19	1/4	3,734.29	1/4	3,516.47	1/4	3,187.82	1/4	2,860.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,481.83	1/2	4,313.99	1/2	4,129.08	1/2	3,931.99	1/2	3,730.09	1/2	3,509.60	1/2	3,180.98	1/2	2,853.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,479.57	3/4	4,310.26	3/4	4,125.08	3/4	3,927.78	3/4	3,725.88	3/4	3,502.74	3/4	3,174.13	3/4	2,846.45
7		7		7		7	4,477.30	7	4,306.54	7	4,121.09	7	3,923.58	7	3,721.67	7	3,495.88	7	3,167.29	7	2,839.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.36	1/4	4,302.79	1/4	4,117.08	1/4	3,919.37	1/4	3,717.47	1/4	3,489.03	1/4	3,160.44	1/4	2,832.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,471.41	1/2	4,299.05	1/2	4,113.07	1/2	3,915.16	1/2	3,713.26	1/2	3,482.17	1/2	3,153.60	1/2	2,825.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,468.46	3/4	4,295.30	3/4	4,109.05	3/4	3,910.96	3/4	3,709.05	3/4	3,475.32	3/4	3,146.75	3/4	2,819.07
8		8		8		8	4,465.51	8	4,291.56	8	4,105.04	8	3,906.75	8	3,704.85	8	3,468.46	8	3,139.91	8	2,812.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,462.03	1/4	4,287.79	1/4	4,101.01	1/4	3,902.54	1/4	3,700.64	1/4	3,461.61	1/4	3,133.07	1/4	2,805.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,458.54	1/2	4,284.03	1/2	4,096.98	1/2	3,898.34	1/2	3,696.44	1/2	3,454.77	1/2	3,126.24	1/2	2,798.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,455.06	3/4	4,280.26	3/4	4,092.95	3/4	3,894.13	3/4	3,692.23	3/4	3,447.92	3/4	3,119.40	3/4	2,791.69
9		9		9		9	4,451.58	9	4,276.50	9	4,088.92	9	3,889.93	9	3,688.02	9	3,441.08	9	3,112.56	9	2,784.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,448.07	1/4	4,272.72	1/4	4,084.87	1/4	3,885.72	1/4	3,683.82	1/4	3,434.24	1/4	3,105.76	1/4	2,778.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,444.57	1/2	4,268.93	1/2	4,080.82	1/2	3,881.51	1/2	3,679.61	1/2	3,427.39	1/2	3,098.95	1/2	2,771.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,441.07	3/4	4,265.15	3/4	4,076.77	3/4	3,877.31	3/4	3,675.40	3/4	3,420.55	3/4	3,092.14	3/4	2,764.31
10		10		10		10	4,437.57	10	4,261.37	10	4,072.72	10	3,873.10	10	3,671.20	10	3,413.70	10	3,085.33	10	2,757.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,434.05	1/4	4,257.56	1/4	4,068.65	1/4	3,868.89	1/4	3,666.99	1/4	3,406.86	1/4	3,078.52	1/4	2,750.62
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,430.53	1/2	4,253.76	1/2	4,064.58	1/2	3,864.69	1/2	3,662.79	1/2	3,400.01	1/2	3,071.71	1/2	2,743.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,427.01	3/4	4,249.96	3/4	4,060.51	3/4	3,860.48	3/4	3,658.58	3/4	3,393.17	3/4	3,064.90	3/4	2,736.93
11		11		11		11	4,423.49	11	4,246.16	11	4,056.44	11	3,856.27	11	3,654.37	11	3,386.32	11	3,058.10	11	2,730.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,419.94	1/4	4,242.34	1/4	4,052.36	1/4	3,852.07	1/4	3,650.17	1/4	3,379.48	1/4	3,051.29	1/4	2,723.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,416.39	1/2	4,238.52	1/2	4,048.27	1/2	3,847.86	1/2	3,645.96	1/2	3,372.63	1/2	3,044.48	1/2	2,716.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,412.84	3/4	4,234.69	3/4	4,044.18	3/4	3,843.66	3/4	3,641.75	3/4	3,365.79	3/4	3,037.67	3/4	2,709.56

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 DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29082"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCO 252"

GAUGE HEIGHT 18'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,702.71	0	2,374.02	0	2,045.26	0	1,716.72	0	1,388.18	0	1,059.86	0	746.78	0	419.00	0	89.60	0	
1/4	2,695.87	1/4	2,367.18	1/4	2,038.41	1/4	1,709.87	1/4	1,381.33	1/4	1,053.14	1/4	740.20	1/4	412.14	1/4	82.93	1/4	
1/2	2,689.02	1/2	2,360.33	1/2	2,031.57	1/2	1,703.03	1/2	1,374.49	1/2	1,046.43	1/2	733.61	1/2	405.27	1/2	76.26	1/2	
3/4	2,682.18	3/4	2,353.48	3/4	2,024.72	3/4	1,696.18	3/4	1,367.64	3/4	1,039.71	3/4	727.03	3/4	398.41	3/4	69.60	3/4	
1	2,675.33	1	2,346.63	1	2,017.88	1	1,689.34	1	1,360.80	1	1,033.00	1	720.44	1	391.54	1	62.93	1	
1/4	2,668.49	1/4	2,339.78	1/4	2,011.04	1/4	1,682.49	1/4	1,353.95	1/4	1,026.50	1/4	713.62	1/4	384.68	1/4	57.10	1/4	
1/2	2,661.64	1/2	2,332.93	1/2	2,004.19	1/2	1,675.65	1/2	1,347.11	1/2	1,020.01	1/2	706.81	1/2	377.81	1/2	51.26	1/2	
3/4	2,654.80	3/4	2,326.08	3/4	1,997.35	3/4	1,668.81	3/4	1,340.26	3/4	1,013.51	3/4	699.99	3/4	370.95	3/4	45.43	3/4	
2	2,647.95	2	2,319.23	2	1,990.50	2	1,661.96	2	1,333.42	2	1,007.01	2	693.17	2	364.09	2	39.60	2	
1/4	2,641.11	1/4	2,312.38	1/4	1,983.66	1/4	1,655.12	1/4	1,326.58	1/4	1,000.52	1/4	686.32	1/4	357.23	1/4	35.14	1/4	
1/2	2,634.26	1/2	2,305.53	1/2	1,976.81	1/2	1,648.27	1/2	1,319.73	1/2	994.02	1/2	679.46	1/2	350.36	1/2	30.67	1/2	
3/4	2,627.42	3/4	2,298.68	3/4	1,969.97	3/4	1,641.43	3/4	1,312.89	3/4	987.53	3/4	672.61	3/4	343.50	3/4	26.21	3/4	
3	2,620.57	3	2,291.83	3	1,963.12	3	1,634.58	3	1,306.04	3	981.03	3	665.76	3	336.64	3	21.75	3	
1/4	2,613.73	1/4	2,284.98	1/4	1,956.28	1/4	1,627.74	1/4	1,299.20	1/4	974.54	1/4	658.90	1/4	329.78	1/4		1/4	
1/2	2,606.88	1/2	2,278.13	1/2	1,949.43	1/2	1,620.89	1/2	1,292.35	1/2	968.04	1/2	652.05	1/2	322.92	1/2		1/2	
3/4	2,600.04	3/4	2,271.28	3/4	1,942.59	3/4	1,614.05	3/4	1,285.51	3/4	961.55	3/4	645.20	3/4	316.06	3/4		3/4	
4	2,593.19	4	2,264.43	4	1,935.74	4	1,607.20	4	1,278.66	4	955.05	4	638.34	4	309.19	4		4	
1/4	2,586.35	1/4	2,257.59	1/4	1,928.90	1/4	1,600.36	1/4	1,271.82	1/4	948.55	1/4	631.49	1/4	302.33	1/4		1/4	
1/2	2,579.50	1/2	2,250.74	1/2	1,922.06	1/2	1,593.51	1/2	1,264.97	1/2	942.05	1/2	624.64	1/2	295.46	1/2		1/2	
3/4	2,572.65	3/4	2,243.89	3/4	1,915.21	3/4	1,586.67	3/4	1,258.13	3/4	935.56	3/4	617.78	3/4	288.60	3/4		3/4	
5	2,565.81	5	2,237.04	5	1,908.37	5	1,579.83	5	1,251.28	5	929.06	5	610.93	5	281.74	5		5	
1/4	2,558.96	1/4	2,230.19	1/4	1,901.52	1/4	1,572.98	1/4	1,244.44	1/4	922.55	1/4	604.08	1/4	274.87	1/4		1/4	
1/2	2,552.11	1/2	2,223.34	1/2	1,894.68	1/2	1,566.14	1/2	1,237.60	1/2	916.04	1/2	597.22	1/2	268.01	1/2		1/2	
3/4	2,545.26	3/4	2,216.49	3/4	1,887.83	3/4	1,559.29	3/4	1,230.75	3/4	909.53	3/4	590.37	3/4	261.14	3/4		3/4	
6	2,538.41	6	2,209.64	6	1,880.99	6	1,552.45	6	1,223.91	6	903.02	6	583.52	6	254.28	6		6	
1/4	2,531.56	1/4	2,202.79	1/4	1,874.14	1/4	1,545.60	1/4	1,217.06	1/4	896.51	1/4	576.66	1/4	247.41	1/4		1/4	
1/2	2,524.71	1/2	2,195.94	1/2	1,867.30	1/2	1,538.76	1/2	1,210.22	1/2	890.00	1/2	569.81	1/2	240.55	1/2		1/2	
3/4	2,517.86	3/4	2,189.09	3/4	1,860.45	3/4	1,531.91	3/4	1,203.37	3/4	883.49	3/4	562.96	3/4	233.68	3/4		3/4	
7	2,511.01	7	2,182.24	7	1,853.61	7	1,525.07	7	1,196.53	7	876.98	7	556.10	7	226.82	7		7	
1/4	2,504.16	1/4	2,175.39	1/4	1,846.77	1/4	1,518.22	1/4	1,189.68	1/4	870.47	1/4	549.25	1/4	219.95	1/4		1/4	
1/2	2,497.31	1/2	2,168.54	1/2	1,839.92	1/2	1,511.38	1/2	1,182.84	1/2	863.96	1/2	542.40	1/2	213.09	1/2		1/2	
3/4	2,490.46	3/4	2,161.69	3/4	1,833.08	3/4	1,504.54	3/4	1,175.99	3/4	857.45	3/4	535.54	3/4	206.22	3/4		3/4	
8	2,483.62	8	2,154.84	8	1,826.23	8	1,497.69	8	1,169.15	8	850.94	8	528.69	8	199.35	8		8	
1/4	2,476.77	1/4	2,147.99	1/4	1,819.39	1/4	1,490.85	1/4	1,162.31	1/4	844.43	1/4	521.84	1/4	192.49	1/4		1/4	
1/2	2,469.92	1/2	2,141.15	1/2	1,812.54	1/2	1,484.00	1/2	1,155.47	1/2	837.92	1/2	514.98	1/2	185.62	1/2		1/2	
3/4	2,463.07	3/4	2,134.30	3/4	1,805.70	3/4	1,477.16	3/4	1,148.63	3/4	831.41	3/4	508.13	3/4	178.76	3/4		3/4	
9	2,456.22	9	2,127.45	9	1,798.85	9	1,470.31	9	1,141.79	9	824.90	9	501.28	9	171.89	9		9	
1/4	2,449.37	1/4	2,120.60	1/4	1,792.01	1/4	1,463.47	1/4	1,134.95	1/4	818.39	1/4	494.42	1/4	165.03	1/4		1/4	
1/2	2,442.52	1/2	2,113.75	1/2	1,785.16	1/2	1,456.62	1/2	1,128.12	1/2	811.88	1/2	487.57	1/2	158.17	1/2		1/2	
3/4	2,435.67	3/4	2,106.90	3/4	1,778.32	3/4	1,449.78	3/4	1,121.29	3/4	805.37	3/4	480.72	3/4	151.30	3/4		3/4	
10	2,428.82	10	2,100.05	10	1,771.47	10	1,442.93	10	1,114.46	10	798.86	10	473.86	10	144.44	10		10	
1/4	2,421.97	1/4	2,093.20	1/4	1,764.63	1/4	1,436.09	1/4	1,107.63	1/4	792.35	1/4	467.01	1/4	137.57	1/4		1/4	
1/2	2,415.12	1/2	2,086.35	1/2	1,757.79	1/2	1,429.24	1/2	1,100.80	1/2	785.84	1/2	460.15	1/2	130.71	1/2		1/2	
3/4	2,408.27	3/4	2,079.50	3/4	1,750.94	3/4	1,422.40	3/4	1,093.97	3/4	779.33	3/4	453.30	3/4	123.85	3/4		3/4	
11	2,401.42	11	2,072.65	11	1,744.10	11	1,415.56	11	1,087.14	11	772.82	11	446.44	11	116.99	11		11	
1/4	2,394.57	1/4	2,065.80	1/4	1,737.25	1/4	1,408.71	1/4	1,080.32	1/4	766.31	1/4	439.58	1/4	110.14	1/4		1/4	
1/2	2,387.72	1/2	2,058.95	1/2	1,730.41	1/2	1,401.87	1/2	1,073.50	1/2	759.80	1/2	432.72	1/2	103.29	1/2		1/2	
3/4	2,380.87	3/4	2,052.11	3/4	1,723.56	3/4	1,395.02	3/4	1,066.68	3/4	753.29	3/4	425.86	3/4	96.44	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/17/2013 SW
NAME CHANGE: 07/19/2023 JS
PRINTED: 07/19/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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



BARGE "KIRBY 29082"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	347	0	694	0	1,041	0	1,388	0	1,735	0		0		0		0	
1/4	7	1/4	354	1/4	701	1/4	1,048	1/4	1,395	1/4	1,742	1/4		1/4		1/4		1/4	
1/2	14	1/2	361	1/2	708	1/2	1,055	1/2	1,402	1/2	1,749	1/2		1/2		1/2		1/2	
3/4	22	3/4	369	3/4	716	3/4	1,062	3/4	1,409	3/4	1,756	3/4		3/4		3/4		3/4	
1	29	1	376	1	723	1	1,070	1	1,417	1	1,763	1		1		1		1	
1/4	36	1/4	383	1/4	730	1/4	1,077	1/4	1,424	1/4	1,771	1/4		1/4		1/4		1/4	
1/2	43	1/2	390	1/2	737	1/2	1,084	1/2	1,431	1/2	1,778	1/2		1/2		1/2		1/2	
3/4	51	3/4	398	3/4	744	3/4	1,091	3/4	1,438	3/4		3/4		3/4		3/4		3/4	
2	58	2	405	2	752	2	1,099	2	1,445	2		2		2		2		2	
1/4	65	1/4	412	1/4	759	1/4	1,106	1/4	1,453	1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	419	1/2	766	1/2	1,113	1/2	1,460	1/2		1/2		1/2		1/2		1/2	
3/4	80	3/4	426	3/4	773	3/4	1,120	3/4	1,467	3/4		3/4		3/4		3/4		3/4	
3	87	3	434	3	781	3	1,127	3	1,474	3		3		3		3		3	
1/4	94	1/4	441	1/4	788	1/4	1,135	1/4	1,482	1/4		1/4		1/4		1/4		1/4	
1/2	101	1/2	448	1/2	795	1/2	1,142	1/2	1,489	1/2		1/2		1/2		1/2		1/2	
3/4	108	3/4	455	3/4	802	3/4	1,149	3/4	1,496	3/4		3/4		3/4		3/4		3/4	
4	116	4	463	4	809	4	1,156	4	1,503	4		4		4		4		4	
1/4	123	1/4	470	1/4	817	1/4	1,164	1/4	1,511	1/4		1/4		1/4		1/4		1/4	
1/2	130	1/2	477	1/2	824	1/2	1,171	1/2	1,518	1/2		1/2		1/2		1/2		1/2	
3/4	137	3/4	484	3/4	831	3/4	1,178	3/4	1,525	3/4		3/4		3/4		3/4		3/4	
5	145	5	491	5	838	5	1,185	5	1,532	5		5		5		5		5	
1/4	152	1/4	499	1/4	846	1/4	1,193	1/4	1,539	1/4		1/4		1/4		1/4		1/4	
1/2	159	1/2	506	1/2	853	1/2	1,200	1/2	1,547	1/2		1/2		1/2		1/2		1/2	
3/4	166	3/4	513	3/4	860	3/4	1,207	3/4	1,554	3/4		3/4		3/4		3/4		3/4	
6	173	6	520	6	867	6	1,214	6	1,561	6		6		6		6		6	
1/4	181	1/4	528	1/4	875	1/4	1,221	1/4	1,568	1/4		1/4		1/4		1/4		1/4	
1/2	188	1/2	535	1/2	882	1/2	1,229	1/2	1,576	1/2		1/2		1/2		1/2		1/2	
3/4	195	3/4	542	3/4	889	3/4	1,236	3/4	1,583	3/4		3/4		3/4		3/4		3/4	
7	202	7	549	7	896	7	1,243	7	1,590	7		7		7		7		7	
1/4	210	1/4	557	1/4	903	1/4	1,250	1/4	1,597	1/4		1/4		1/4		1/4		1/4	
1/2	217	1/2	564	1/2	911	1/2	1,258	1/2	1,604	1/2		1/2		1/2		1/2		1/2	
3/4	224	3/4	571	3/4	918	3/4	1,265	3/4	1,612	3/4		3/4		3/4		3/4		3/4	
8	231	8	578	8	925	8	1,272	8	1,619	8		8		8		8		8	
1/4	239	1/4	585	1/4	932	1/4	1,279	1/4	1,626	1/4		1/4		1/4		1/4		1/4	
1/2	246	1/2	593	1/2	940	1/2	1,286	1/2	1,633	1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	600	3/4	947	3/4	1,294	3/4	1,641	3/4		3/4		3/4		3/4		3/4	
9	260	9	607	9	954	9	1,301	9	1,648	9		9		9		9		9	
1/4	267	1/4	614	1/4	961	1/4	1,308	1/4	1,655	1/4		1/4		1/4		1/4		1/4	
1/2	275	1/2	622	1/2	968	1/2	1,315	1/2	1,662	1/2		1/2		1/2		1/2		1/2	
3/4	282	3/4	629	3/4	976	3/4	1,323	3/4	1,670	3/4		3/4		3/4		3/4		3/4	
10	289	10	636	10	983	10	1,330	10	1,677	10		10		10		10		10	
1/4	296	1/4	643	1/4	990	1/4	1,337	1/4	1,684	1/4		1/4		1/4		1/4		1/4	
1/2	304	1/2	650	1/2	997	1/2	1,344	1/2	1,691	1/2		1/2		1/2		1/2		1/2	
3/4	311	3/4	658	3/4	1,005	3/4	1,352	3/4	1,698	3/4		3/4		3/4		3/4		3/4	
11	318	11	665	11	1,012	11	1,359	11	1,706	11		11		11		11		11	
1/4	325	1/4	672	1/4	1,019	1/4	1,366	1/4	1,713	1/4		1/4		1/4		1/4		1/4	
1/2	332	1/2	679	1/2	1,026	1/2	1,373	1/2	1,720	1/2		1/2		1/2		1/2		1/2	
3/4	340	3/4	687	3/4	1,034	3/4	1,380	3/4	1,727	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT MANWAY

STRAPPED: 07/17/2023 JS
CALCULATED: 07/17/2023 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2023

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 29082"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	890	0	1,780	0	2,657	0	3,483	0	4,257	0		0		0		0	
1/4	19	1/4	909	1/4	1,799	1/4	2,674	1/4	3,500	1/4	4,273	1/4		1/4		1/4		1/4	
1/2	37	1/2	927	1/2	1,817	1/2	2,692	1/2	3,517	1/2	4,289	1/2		1/2		1/2		1/2	
3/4	56	3/4	946	3/4	1,836	3/4	2,710	3/4	3,533	3/4	4,304	3/4		3/4		3/4		3/4	
1	74	1	964	1	1,854	1	2,728	1	3,550	1	4,320	1		1		1		1	
1/4	93	1/4	983	1/4	1,873	1/4	2,745	1/4	3,566	1/4	4,335	1/4		1/4		1/4		1/4	
1/2	111	1/2	1,001	1/2	1,891	1/2	2,763	1/2	3,583	1/2	4,351	1/2		1/2		1/2		1/2	
3/4	130	3/4	1,020	3/4	1,910	3/4	2,781	3/4	3,599	3/4		3/4		3/4		3/4		3/4	
2	148	2	1,038	2	1,928	2	2,798	2	3,616	2		2		2		2		2	
1/4	167	1/4	1,057	1/4	1,947	1/4	2,816	1/4	3,632	1/4		1/4		1/4		1/4		1/4	
1/2	185	1/2	1,075	1/2	1,965	1/2	2,833	1/2	3,649	1/2		1/2		1/2		1/2		1/2	
3/4	204	3/4	1,094	3/4	1,984	3/4	2,851	3/4	3,665	3/4		3/4		3/4		3/4		3/4	
3	222	3	1,112	3	2,002	3	2,868	3	3,682	3		3		3		3		3	
1/4	241	1/4	1,131	1/4	2,021	1/4	2,886	1/4	3,698	1/4		1/4		1/4		1/4		1/4	
1/2	260	1/2	1,150	1/2	2,040	1/2	2,903	1/2	3,714	1/2		1/2		1/2		1/2		1/2	
3/4	278	3/4	1,168	3/4	2,058	3/4	2,921	3/4	3,731	3/4		3/4		3/4		3/4		3/4	
4	297	4	1,187	4	2,077	4	2,938	4	3,747	4		4		4		4		4	
1/4	315	1/4	1,205	1/4	2,095	1/4	2,955	1/4	3,763	1/4		1/4		1/4		1/4		1/4	
1/2	334	1/2	1,224	1/2	2,113	1/2	2,973	1/2	3,780	1/2		1/2		1/2		1/2		1/2	
3/4	352	3/4	1,242	3/4	2,132	3/4	2,990	3/4	3,796	3/4		3/4		3/4		3/4		3/4	
5	371	5	1,261	5	2,150	5	3,008	5	3,812	5		5		5		5		5	
1/4	389	1/4	1,279	1/4	2,169	1/4	3,025	1/4	3,828	1/4		1/4		1/4		1/4		1/4	
1/2	408	1/2	1,298	1/2	2,187	1/2	3,042	1/2	3,845	1/2		1/2		1/2		1/2		1/2	
3/4	426	3/4	1,316	3/4	2,205	3/4	3,059	3/4	3,861	3/4		3/4		3/4		3/4		3/4	
6	445	6	1,335	6	2,224	6	3,077	6	3,877	6		6		6		6		6	
1/4	464	1/4	1,354	1/4	2,242	1/4	3,094	1/4	3,893	1/4		1/4		1/4		1/4		1/4	
1/2	482	1/2	1,372	1/2	2,260	1/2	3,111	1/2	3,909	1/2		1/2		1/2		1/2		1/2	
3/4	501	3/4	1,391	3/4	2,279	3/4	3,128	3/4	3,925	3/4		3/4		3/4		3/4		3/4	
7	519	7	1,409	7	2,297	7	3,145	7	3,941	7		7		7		7		7	
1/4	538	1/4	1,428	1/4	2,315	1/4	3,162	1/4	3,957	1/4		1/4		1/4		1/4		1/4	
1/2	556	1/2	1,446	1/2	2,333	1/2	3,179	1/2	3,973	1/2		1/2		1/2		1/2		1/2	
3/4	575	3/4	1,465	3/4	2,351	3/4	3,197	3/4	3,989	3/4		3/4		3/4		3/4		3/4	
8	593	8	1,483	8	2,370	8	3,214	8	4,005	8		8		8		8		8	
1/4	612	1/4	1,502	1/4	2,388	1/4	3,231	1/4	4,021	1/4		1/4		1/4		1/4		1/4	
1/2	630	1/2	1,520	1/2	2,406	1/2	3,248	1/2	4,037	1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,539	3/4	2,424	3/4	3,265	3/4	4,053	3/4		3/4		3/4		3/4		3/4	
9	667	9	1,557	9	2,442	9	3,282	9	4,069	9		9		9		9		9	
1/4	686	1/4	1,576	1/4	2,460	1/4	3,299	1/4	4,085	1/4		1/4		1/4		1/4		1/4	
1/2	705	1/2	1,595	1/2	2,478	1/2	3,315	1/2	4,100	1/2		1/2		1/2		1/2		1/2	
3/4	723	3/4	1,613	3/4	2,496	3/4	3,332	3/4	4,116	3/4		3/4		3/4		3/4		3/4	
10	742	10	1,632	10	2,514	10	3,349	10	4,132	10		10		10		10		10	
1/4	760	1/4	1,650	1/4	2,532	1/4	3,366	1/4	4,148	1/4		1/4		1/4		1/4		1/4	
1/2	779	1/2	1,669	1/2	2,550	1/2	3,383	1/2	4,164	1/2		1/2		1/2		1/2		1/2	
3/4	797	3/4	1,687	3/4	2,568	3/4	3,400	3/4	4,179	3/4		3/4		3/4		3/4		3/4	
11	816	11	1,706	11	2,586	11	3,416	11	4,195	11		11		11		11		11	
1/4	834	1/4	1,724	1/4	2,603	1/4	3,433	1/4	4,211	1/4		1/4		1/4		1/4		1/4	
1/2	853	1/2	1,743	1/2	2,621	1/2	3,450	1/2	4,226	1/2		1/2		1/2		1/2		1/2	
3/4	871	3/4	1,761	3/4	2,639	3/4	3,467	3/4	4,242	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT MANWAY.

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Pearland, Texas 77588
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BARGE "KIRBY 29082"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	890	0	1,780	0	2,657	0	3,483	0	4,257	0		0		0		0	
1/4	19	1/4	909	1/4	1,799	1/4	2,674	1/4	3,500	1/4	4,273	1/4		1/4		1/4		1/4	
1/2	37	1/2	927	1/2	1,817	1/2	2,692	1/2	3,517	1/2	4,289	1/2		1/2		1/2		1/2	
3/4	56	3/4	946	3/4	1,836	3/4	2,710	3/4	3,533	3/4	4,304	3/4		3/4		3/4		3/4	
1	74	1	964	1	1,854	1	2,728	1	3,550	1	4,320	1		1		1		1	
1/4	93	1/4	983	1/4	1,873	1/4	2,745	1/4	3,566	1/4	4,335	1/4		1/4		1/4		1/4	
1/2	111	1/2	1,001	1/2	1,891	1/2	2,763	1/2	3,583	1/2	4,351	1/2		1/2		1/2		1/2	
3/4	130	3/4	1,020	3/4	1,910	3/4	2,781	3/4	3,599	3/4		3/4		3/4		3/4		3/4	
2	148	2	1,038	2	1,928	2	2,798	2	3,616	2		2		2		2		2	
1/4	167	1/4	1,057	1/4	1,947	1/4	2,816	1/4	3,632	1/4		1/4		1/4		1/4		1/4	
1/2	185	1/2	1,075	1/2	1,965	1/2	2,833	1/2	3,649	1/2		1/2		1/2		1/2		1/2	
3/4	204	3/4	1,094	3/4	1,984	3/4	2,851	3/4	3,665	3/4		3/4		3/4		3/4		3/4	
3	222	3	1,112	3	2,002	3	2,868	3	3,682	3		3		3		3		3	
1/4	241	1/4	1,131	1/4	2,021	1/4	2,886	1/4	3,698	1/4		1/4		1/4		1/4		1/4	
1/2	260	1/2	1,150	1/2	2,040	1/2	2,903	1/2	3,714	1/2		1/2		1/2		1/2		1/2	
3/4	278	3/4	1,168	3/4	2,058	3/4	2,921	3/4	3,731	3/4		3/4		3/4		3/4		3/4	
4	297	4	1,187	4	2,077	4	2,938	4	3,747	4		4		4		4		4	
1/4	315	1/4	1,205	1/4	2,095	1/4	2,955	1/4	3,763	1/4		1/4		1/4		1/4		1/4	
1/2	334	1/2	1,224	1/2	2,113	1/2	2,973	1/2	3,780	1/2		1/2		1/2		1/2		1/2	
3/4	352	3/4	1,242	3/4	2,132	3/4	2,990	3/4	3,796	3/4		3/4		3/4		3/4		3/4	
5	371	5	1,261	5	2,150	5	3,008	5	3,812	5		5		5		5		5	
1/4	389	1/4	1,279	1/4	2,169	1/4	3,025	1/4	3,828	1/4		1/4		1/4		1/4		1/4	
1/2	408	1/2	1,298	1/2	2,187	1/2	3,042	1/2	3,845	1/2		1/2		1/2		1/2		1/2	
3/4	426	3/4	1,316	3/4	2,205	3/4	3,059	3/4	3,861	3/4		3/4		3/4		3/4		3/4	
6	445	6	1,335	6	2,224	6	3,077	6	3,877	6		6		6		6		6	
1/4	464	1/4	1,354	1/4	2,242	1/4	3,094	1/4	3,893	1/4		1/4		1/4		1/4		1/4	
1/2	482	1/2	1,372	1/2	2,260	1/2	3,111	1/2	3,909	1/2		1/2		1/2		1/2		1/2	
3/4	501	3/4	1,391	3/4	2,279	3/4	3,128	3/4	3,925	3/4		3/4		3/4		3/4		3/4	
7	519	7	1,409	7	2,297	7	3,145	7	3,941	7		7		7		7		7	
1/4	538	1/4	1,428	1/4	2,315	1/4	3,162	1/4	3,957	1/4		1/4		1/4		1/4		1/4	
1/2	556	1/2	1,446	1/2	2,333	1/2	3,179	1/2	3,973	1/2		1/2		1/2		1/2		1/2	
3/4	575	3/4	1,465	3/4	2,351	3/4	3,197	3/4	3,989	3/4		3/4		3/4		3/4		3/4	
8	593	8	1,483	8	2,370	8	3,214	8	4,005	8		8		8		8		8	
1/4	612	1/4	1,502	1/4	2,388	1/4	3,231	1/4	4,021	1/4		1/4		1/4		1/4		1/4	
1/2	630	1/2	1,520	1/2	2,406	1/2	3,248	1/2	4,037	1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,539	3/4	2,424	3/4	3,265	3/4	4,053	3/4		3/4		3/4		3/4		3/4	
9	667	9	1,557	9	2,442	9	3,282	9	4,069	9		9		9		9		9	
1/4	686	1/4	1,576	1/4	2,460	1/4	3,299	1/4	4,085	1/4		1/4		1/4		1/4		1/4	
1/2	705	1/2	1,595	1/2	2,478	1/2	3,315	1/2	4,100	1/2		1/2		1/2		1/2		1/2	
3/4	723	3/4	1,613	3/4	2,496	3/4	3,332	3/4	4,116	3/4		3/4		3/4		3/4		3/4	
10	742	10	1,632	10	2,514	10	3,349	10	4,132	10		10		10		10		10	
1/4	760	1/4	1,650	1/4	2,532	1/4	3,366	1/4	4,148	1/4		1/4		1/4		1/4		1/4	
1/2	779	1/2	1,669	1/2	2,550	1/2	3,383	1/2	4,164	1/2		1/2		1/2		1/2		1/2	
3/4	797	3/4	1,687	3/4	2,568	3/4	3,400	3/4	4,179	3/4		3/4		3/4		3/4		3/4	
11	816	11	1,706	11	2,586	11	3,416	11	4,195	11		11		11		11		11	
1/4	834	1/4	1,724	1/4	2,603	1/4	3,433	1/4	4,211	1/4		1/4		1/4		1/4		1/4	
1/2	853	1/2	1,743	1/2	2,621	1/2	3,450	1/2	4,226	1/2		1/2		1/2		1/2		1/2	
3/4	871	3/4	1,761	3/4	2,639	3/4	3,467	3/4	4,242	3/4		3/4		3/4		3/4		3/4	

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