



# BARGE "KIRBY 28069"

## ULLAGE TRIM TABLE

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

(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 - 01-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-10 7/8"

LENGTH BETWEEN DRAFT MARKS: 242'-03"

January 6, 2005

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

<http://www.pmacorp.net>



# BARGE "KIRBY 28069"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	4,825.73	0	4,501.01	0	4,168.68	0	3,812.73	0	3,447.21	0	3,081.69	0	2,716.17
1/4		1/4		1/4		1/4	4,820.10	1/4	4,494.33	1/4	4,161.48	1/4	3,805.11	1/4	3,439.60	1/4	3,074.08	1/4	2,708.56
1/2		1/2		1/2		1/2	4,814.48	1/2	4,487.66	1/2	4,154.28	1/2	3,797.50	1/2	3,431.98	1/2	3,066.46	1/2	2,700.94
3/4		3/4		3/4		3/4	4,807.66	3/4	4,480.95	3/4	4,147.04	3/4	3,789.89	3/4	3,424.37	3/4	3,058.85	3/4	2,693.33
1		1		1		1	4,800.85	1	4,474.24	1	4,139.80	1	3,782.27	1	3,416.75	1	3,051.23	1	2,685.71
1/4		1/4		1/4		1/4	4,794.03	1/4	4,467.54	1/4	4,132.57	1/4	3,774.66	1/4	3,409.14	1/4	3,043.62	1/4	2,678.10
1/2		1/2		1/2		1/2	4,787.21	1/2	4,460.83	1/2	4,125.33	1/2	3,767.04	1/2	3,401.52	1/2	3,036.00	1/2	2,670.48
3/4		3/4		3/4		3/4	4,779.76	3/4	4,454.09	3/4	4,118.06	3/4	3,759.43	3/4	3,393.91	3/4	3,028.39	3/4	2,662.87
2		2		2		2	4,772.31	2	4,447.35	2	4,110.78	2	3,751.81	2	3,386.29	2	3,020.77	2	2,655.25
1/4		1/4		1/4		1/4	4,764.86	1/4	4,440.60	1/4	4,103.51	1/4	3,744.20	1/4	3,378.68	1/4	3,013.16	1/4	2,647.64
1/2		1/2		1/2		1/2	4,757.41	1/2	4,433.86	1/2	4,096.23	1/2	3,736.58	1/2	3,371.06	1/2	3,005.54	1/2	2,640.02
3/4		3/4		3/4		3/4	4,749.88	3/4	4,427.08	3/4	4,088.92	3/4	3,728.97	3/4	3,363.45	3/4	2,997.93	3/4	2,632.41
3		3		3		3	4,742.35	3	4,420.30	3	4,081.61	3	3,721.35	3	3,355.83	3	2,990.31	3	2,624.79
1/4		1/4		1/4		1/4	4,734.82	1/4	4,413.52	1/4	4,074.30	1/4	3,713.74	1/4	3,348.22	1/4	2,982.70	1/4	2,617.18
1/2		1/2		1/2		1/2	4,727.29	1/2	4,406.74	1/2	4,066.99	1/2	3,706.12	1/2	3,340.60	1/2	2,975.08	1/2	2,609.56
3/4		3/4		3/4		3/4	4,720.03	3/4	4,399.93	3/4	4,059.65	3/4	3,698.51	3/4	3,332.99	3/4	2,967.47	3/4	2,601.95
4		4		4		4	4,712.78	4	4,393.11	4	4,052.31	4	3,690.89	4	3,325.37	4	2,959.85	4	2,594.33
1/4		1/4		1/4		1/4	4,705.53	1/4	4,386.29	1/4	4,044.97	1/4	3,683.28	1/4	3,317.76	1/4	2,952.24	1/4	2,586.72
1/2		1/2		1/2		1/2	4,698.28	1/2	4,379.48	1/2	4,037.63	1/2	3,675.66	1/2	3,310.14	1/2	2,944.62	1/2	2,579.10
3/4		3/4		3/4		3/4	4,691.57	3/4	4,372.62	3/4	4,030.25	3/4	3,668.05	3/4	3,302.53	3/4	2,937.01	3/4	2,571.49
5		5		5		5	4,684.87	5	4,365.77	5	4,022.87	5	3,660.43	5	3,294.91	5	2,929.39	5	2,563.87
1/4		1/4		1/4		1/4	4,678.17	1/4	4,358.91	1/4	4,015.50	1/4	3,652.82	1/4	3,287.30	1/4	2,921.78	1/4	2,556.26
1/2		1/2		1/2		1/2	4,671.46	1/2	4,352.06	1/2	4,008.12	1/2	3,645.20	1/2	3,279.68	1/2	2,914.16	1/2	2,548.64
3/4		3/4		3/4		3/4	4,665.01	3/4	4,345.17	3/4	4,000.70	3/4	3,637.59	3/4	3,272.07	3/4	2,906.55	3/4	2,541.03
6		6		6		6	4,658.56	6	4,338.28	6	3,993.29	6	3,629.97	6	3,264.45	6	2,898.93	6	2,533.41
1/4		1/4		1/4		1/4	4,652.11	1/4	4,331.39	1/4	3,985.87	1/4	3,622.36	1/4	3,256.84	1/4	2,891.32	1/4	2,525.80
1/2		1/2		1/2		1/2	4,645.65	1/2	4,324.49	1/2	3,978.46	1/2	3,614.74	1/2	3,249.22	1/2	2,883.70	1/2	2,518.18
3/4		3/4		3/4		3/4	4,639.16	3/4	4,317.54	3/4	3,971.01	3/4	3,607.13	3/4	3,241.61	3/4	2,876.09	3/4	2,510.57
7		7		7		7	4,632.67	7	4,310.59	7	3,963.56	7	3,599.51	7	3,233.99	7	2,868.47	7	2,502.95
1/4		1/4		1/4		1/4	4,626.18	1/4	4,303.65	1/4	3,956.11	1/4	3,591.90	1/4	3,226.38	1/4	2,860.86	1/4	2,495.34
1/2		1/2		1/2		1/2	4,619.69	1/2	4,296.70	1/2	3,948.65	1/2	3,584.28	1/2	3,218.76	1/2	2,853.24	1/2	2,487.72
3/4		3/4		3/4		3/4	4,613.16	3/4	4,289.67	3/4	3,941.16	3/4	3,576.67	3/4	3,211.15	3/4	2,845.63	3/4	2,480.11
8		8		8		8	4,606.64	8	4,282.64	8	3,933.68	8	3,569.05	8	3,203.53	8	2,838.01	8	2,472.49
1/4		1/4		1/4		1/4	4,600.11	1/4	4,275.61	1/4	3,926.19	1/4	3,561.44	1/4	3,195.92	1/4	2,830.40	1/4	2,464.88
1/2		1/2		1/2		1/2	4,593.58	1/2	4,268.58	1/2	3,918.70	1/2	3,553.82	1/2	3,188.30	1/2	2,822.78	1/2	2,457.26
3/4		3/4		3/4		3/4	4,587.02	3/4	4,261.49	3/4	3,911.17	3/4	3,546.21	3/4	3,180.69	3/4	2,815.17	3/4	2,449.65
9		9		9		9	4,580.45	9	4,254.40	9	3,903.64	9	3,538.59	9	3,173.07	9	2,807.55	9	2,442.03
1/4		1/4		1/4		1/4	4,573.89	1/4	4,247.31	1/4	3,896.12	1/4	3,530.98	1/4	3,165.46	1/4	2,799.94	1/4	2,434.42
1/2		1/2		1/2		1/2	4,567.32	1/2	4,240.23	1/2	3,888.59	1/2	3,523.36	1/2	3,157.84	1/2	2,792.32	1/2	2,426.80
3/4		3/4		3/4		3/4	4,560.72	3/4	4,233.10	3/4	3,881.03	3/4	3,515.75	3/4	3,150.23	3/4	2,784.71	3/4	2,419.19
10		10		10		10	4,554.12	10	4,225.98	10	3,873.46	10	3,508.13	10	3,142.61	10	2,777.09	10	2,411.57
1/4		1/4		1/4		1/4	4,547.52	1/4	4,218.85	1/4	3,865.90	1/4	3,500.52	1/4	3,135.00	1/4	2,769.48	1/4	2,403.96
1/2		1/2		1/2		1/2	4,540.91	1/2	4,211.73	1/2	3,858.34	1/2	3,492.90	1/2	3,127.38	1/2	2,761.86	1/2	2,396.34
3/4		3/4		3/4		3/4	4,534.28	3/4	4,204.56	3/4	3,850.74	3/4	3,485.29	3/4	3,119.77	3/4	2,754.25	3/4	2,388.73
11		11		11		11	4,527.64	11	4,197.40	11	3,843.15	11	3,477.67	11	3,112.15	11	2,746.63	11	2,381.11
1/4		1/4		1/4		1/4	4,521.00	1/4	4,190.24	1/4	3,835.55	1/4	3,470.06	1/4	3,104.54	1/4	2,739.02	1/4	2,373.50
1/2		1/2		1/2		1/2	4,514.36	1/2	4,183.08	1/2	3,827.96	1/2	3,462.44	1/2	3,096.92	1/2	2,731.40	1/2	2,365.88
3/4		3/4		3/4		3/4	4,507.68	3/4	4,175.88	3/4	3,820.34	3/4	3,454.83	3/4	3,089.31	3/4	2,723.79	3/4	2,358.27

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-10" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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# BARGE "KIRBY 28069"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,350.65	0	1,985.13	0	1,619.60	0	1,254.71	0	891.34	0	526.12	0	181.13	0		0		0	
1/4	2,343.04	1/4	1,977.52	1/4	1,611.98	1/4	1,247.10	1/4	883.78	1/4	518.51	1/4	174.44	1/4		1/4		1/4	
1/2	2,335.42	1/2	1,969.90	1/2	1,604.37	1/2	1,239.48	1/2	876.22	1/2	510.89	1/2	167.76	1/2		1/2		1/2	
3/4	2,327.81	3/4	1,962.29	3/4	1,596.75	3/4	1,231.87	3/4	868.65	3/4	503.30	3/4	161.16	3/4		3/4		3/4	
1	2,320.19	1	1,954.67	1	1,589.14	1	1,224.25	1	861.07	1	495.70	1	154.57	1		1		1	
1/4	2,312.58	1/4	1,947.06	1/4	1,581.52	1/4	1,216.64	1/4	853.50	1/4	488.11	1/4	147.97	1/4		1/4		1/4	
1/2	2,304.96	1/2	1,939.44	1/2	1,573.91	1/2	1,209.02	1/2	845.93	1/2	480.51	1/2	141.37	1/2		1/2		1/2	
3/4	2,297.35	3/4	1,931.83	3/4	1,566.29	3/4	1,201.42	3/4	838.33	3/4	472.98	3/4	134.87	3/4		3/4		3/4	
2	2,289.73	2	1,924.21	2	1,558.68	2	1,193.82	2	830.72	2	465.45	2	128.36	2		2		2	
1/4	2,282.12	1/4	1,916.59	1/4	1,551.06	1/4	1,186.22	1/4	823.12	1/4	457.92	1/4	121.85	1/4		1/4		1/4	
1/2	2,274.50	1/2	1,908.98	1/2	1,543.44	1/2	1,178.61	1/2	815.52	1/2	450.39	1/2	115.35	1/2		1/2		1/2	
3/4	2,266.89	3/4	1,901.36	3/4	1,535.83	3/4	1,171.04	3/4	807.91	3/4	442.94	3/4	108.94	3/4		3/4		3/4	
3	2,259.27	3	1,893.75	3	1,528.21	3	1,163.47	3	800.29	3	435.49	3	102.53	3		3		3	
1/4	2,251.66	1/4	1,886.13	1/4	1,520.60	1/4	1,155.89	1/4	792.68	1/4	428.05	1/4	96.12	1/4		1/4		1/4	
1/2	2,244.04	1/2	1,878.52	1/2	1,512.98	1/2	1,148.32	1/2	785.06	1/2	420.60	1/2	89.71	1/2		1/2		1/2	
3/4	2,236.43	3/4	1,870.90	3/4	1,505.37	3/4	1,140.76	3/4	777.44	3/4	413.24	3/4	83.41	3/4		3/4		3/4	
4	2,228.81	4	1,863.29	4	1,497.75	4	1,133.20	4	769.83	4	405.88	4	77.10	4		4		4	
1/4	2,221.20	1/4	1,855.67	1/4	1,490.14	1/4	1,125.64	1/4	762.21	1/4	398.51	1/4	70.80	1/4		1/4		1/4	
1/2	2,213.58	1/2	1,848.06	1/2	1,482.52	1/2	1,118.08	1/2	754.60	1/2	391.15	1/2	64.49	1/2		1/2		1/2	
3/4	2,205.97	3/4	1,840.44	3/4	1,474.92	3/4	1,110.52	3/4	746.98	3/4	383.87	3/4	58.31	3/4		3/4		3/4	
5	2,198.35	5	1,832.83	5	1,467.32	5	1,102.96	5	739.37	5	376.60	5	52.12	5		5		5	
1/4	2,190.74	1/4	1,825.21	1/4	1,459.72	1/4	1,095.40	1/4	731.75	1/4	369.32	1/4	45.94	1/4		1/4		1/4	
1/2	2,183.12	1/2	1,817.60	1/2	1,452.12	1/2	1,087.85	1/2	724.13	1/2	362.04	1/2	39.75	1/2		1/2		1/2	
3/4	2,175.51	3/4	1,809.98	3/4	1,444.53	3/4	1,080.29	3/4	716.52	3/4	354.85	3/4	34.26	3/4		3/4		3/4	
6	2,167.89	6	1,802.37	6	1,436.94	6	1,072.73	6	708.90	6	347.66	6	28.77	6		6		6	
1/4	2,160.28	1/4	1,794.75	1/4	1,429.35	1/4	1,065.17	1/4	701.29	1/4	340.46	1/4	23.28	1/4		1/4		1/4	
1/2	2,152.66	1/2	1,787.13	1/2	1,421.77	1/2	1,057.62	1/2	693.67	1/2	333.27	1/2	17.78	1/2		1/2		1/2	
3/4	2,145.05	3/4	1,779.52	3/4	1,414.18	3/4	1,050.06	3/4	686.06	3/4	326.16	3/4	14.23	3/4		3/4		3/4	
7	2,137.43	7	1,771.90	7	1,406.59	7	1,042.50	7	678.44	7	319.06	7	10.68	7		7		7	
1/4	2,129.82	1/4	1,764.29	1/4	1,399.00	1/4	1,034.94	1/4	670.83	1/4	311.95	1/4	7.13	1/4		1/4		1/4	
1/2	2,122.20	1/2	1,756.67	1/2	1,391.41	1/2	1,027.38	1/2	663.21	1/2	304.84	1/2	3.58	1/2		1/2		1/2	
3/4	2,114.59	3/4	1,749.06	3/4	1,383.83	3/4	1,019.83	3/4	655.59	3/4	297.82	3/4		3/4		3/4		3/4	
8	2,106.97	8	1,741.44	8	1,376.24	8	1,012.27	8	647.98	8	290.79	8		8		8		8	
1/4	2,099.36	1/4	1,733.83	1/4	1,368.65	1/4	1,004.71	1/4	640.36	1/4	283.77	1/4		1/4		1/4		1/4	
1/2	2,091.74	1/2	1,726.21	1/2	1,361.06	1/2	997.15	1/2	632.75	1/2	276.75	1/2		1/2		1/2		1/2	
3/4	2,084.13	3/4	1,718.60	3/4	1,353.47	3/4	989.60	3/4	625.13	3/4	269.81	3/4		3/4		3/4		3/4	
9	2,076.51	9	1,710.98	9	1,345.89	9	982.04	9	617.52	9	262.87	9		9		9		9	
1/4	2,068.90	1/4	1,703.37	1/4	1,338.30	1/4	974.48	1/4	609.90	1/4	255.93	1/4		1/4		1/4		1/4	
1/2	2,061.28	1/2	1,695.75	1/2	1,330.71	1/2	966.92	1/2	602.28	1/2	248.99	1/2		1/2		1/2		1/2	
3/4	2,053.67	3/4	1,688.14	3/4	1,323.12	3/4	959.37	3/4	594.67	3/4	242.14	3/4		3/4		3/4		3/4	
10	2,046.05	10	1,680.52	10	1,315.53	10	951.81	10	587.05	10	235.28	10		10		10		10	
1/4	2,038.44	1/4	1,672.90	1/4	1,307.94	1/4	944.25	1/4	579.44	1/4	228.43	1/4		1/4		1/4		1/4	
1/2	2,030.82	1/2	1,665.29	1/2	1,300.35	1/2	936.69	1/2	571.82	1/2	221.57	1/2		1/2		1/2		1/2	
3/4	2,023.21	3/4	1,657.67	3/4	1,292.75	3/4	929.13	3/4	564.20	3/4	214.81	3/4		3/4		3/4		3/4	
11	2,015.59	11	1,650.06	11	1,285.15	11	921.58	11	556.59	11	208.04	11		11		11		11	
1/4	2,007.98	1/4	1,642.44	1/4	1,277.55	1/4	914.02	1/4	548.97	1/4	201.27	1/4		1/4		1/4		1/4	
1/2	2,000.36	1/2	1,634.83	1/2	1,269.95	1/2	906.46	1/2	541.36	1/2	194.50	1/2		1/2		1/2		1/2	
3/4	1,992.75	3/4	1,627.21	3/4	1,262.33	3/4	898.90	3/4	533.74	3/4	187.81	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "KIRBY 28069"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 7/8"

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	0	0	4,512.40	0	4,180.86	0	3,825.54	0	3,460.02	0	3,094.50	0	2,728.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,505.73	1/4	4,173.66	1/4	3,817.92	1/4	3,452.40	1/4	3,086.88	1/4	2,721.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,499.05	1/2	4,166.46	1/2	3,810.31	1/2	3,444.79	1/2	3,079.27	1/2	2,713.75		
3/4	3/4	3/4	3/4	7/8			4,815.85	3/4	4,492.38	3/4	4,159.26	3/4	3,802.70	3/4	3,437.17	3/4	3,071.65	3/4	2,706.13
1	1	1	1	1	1	1	4,812.44	1	4,485.69	1	4,152.05	1	3,795.08	1	3,429.56	1	3,064.04	1	2,698.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.63	1/4	4,478.98	1/4	4,144.81	1/4	3,787.46	1/4	3,421.94	1/4	3,056.42	1/4	2,690.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.81	1/2	4,472.27	1/2	4,137.57	1/2	3,779.85	1/2	3,414.33	1/2	3,048.81	1/2	2,683.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,792.00	3/4	4,465.57	3/4	4,130.33	3/4	3,772.23	3/4	3,406.71	3/4	3,041.19	3/4	2,675.67
2	2	2	2	2	2	2	4,784.86	2	4,458.84	2	4,123.08	2	3,764.62	2	3,399.10	2	3,033.58	2	2,668.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,777.41	1/4	4,452.10	1/4	4,115.80	1/4	3,757.00	1/4	3,391.48	1/4	3,025.96	1/4	2,660.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.96	1/2	4,445.36	1/2	4,108.53	1/2	3,749.39	1/2	3,383.87	1/2	3,018.35	1/2	2,652.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,762.51	3/4	4,438.62	3/4	4,101.26	3/4	3,741.77	3/4	3,376.25	3/4	3,010.73	3/4	2,645.21
3	3	3	3	3	3	3	4,755.02	3	4,431.86	3	4,093.96	3	3,734.16	3	3,368.64	3	3,003.12	3	2,637.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,747.49	1/4	4,425.08	1/4	4,086.65	1/4	3,726.54	1/4	3,361.02	1/4	2,995.50	1/4	2,629.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,739.96	1/2	4,418.30	1/2	4,079.35	1/2	3,718.93	1/2	3,353.41	1/2	2,987.89	1/2	2,622.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,732.43	3/4	4,411.52	3/4	4,072.04	3/4	3,711.31	3/4	3,345.79	3/4	2,980.27	3/4	2,614.75
4	4	4	4	4	4	4	4,725.04	4	4,404.72	4	4,064.71	4	3,703.70	4	3,338.18	4	2,972.66	4	2,607.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,717.79	1/4	4,397.90	1/4	4,057.37	1/4	3,696.08	1/4	3,330.56	1/4	2,965.04	1/4	2,599.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,710.54	1/2	4,391.09	1/2	4,050.03	1/2	3,688.47	1/2	3,322.95	1/2	2,957.43	1/2	2,591.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,703.28	3/4	4,384.27	3/4	4,042.68	3/4	3,680.85	3/4	3,315.33	3/4	2,949.81	3/4	2,584.29
5	5	5	5	5	5	5	4,696.31	5	4,377.43	5	4,035.32	5	3,673.24	5	3,307.72	5	2,942.20	5	2,576.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,689.60	1/4	4,370.58	1/4	4,027.95	1/4	3,665.62	1/4	3,300.10	1/4	2,934.58	1/4	2,569.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,682.90	1/2	4,363.73	1/2	4,020.57	1/2	3,658.01	1/2	3,292.49	1/2	2,926.97	1/2	2,561.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,676.20	3/4	4,356.87	3/4	4,013.19	3/4	3,650.39	3/4	3,284.87	3/4	2,919.35	3/4	2,553.83
6	6	6	6	6	6	6	4,669.62	6	4,350.00	6	4,005.80	6	3,642.78	6	3,277.26	6	2,911.74	6	2,546.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,663.16	1/4	4,343.11	1/4	3,998.38	1/4	3,635.16	1/4	3,269.64	1/4	2,904.12	1/4	2,538.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.71	1/2	4,336.22	1/2	3,990.97	1/2	3,627.55	1/2	3,262.03	1/2	2,896.51	1/2	2,530.99
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.26	3/4	4,329.33	3/4	3,983.55	3/4	3,619.93	3/4	3,254.41	3/4	2,888.89	3/4	2,523.37
7	7	7	7	7	7	7	4,643.79	7	4,322.40	7	3,976.12	7	3,612.32	7	3,246.80	7	2,881.28	7	2,515.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.30	1/4	4,315.45	1/4	3,968.67	1/4	3,604.70	1/4	3,239.18	1/4	2,873.66	1/4	2,508.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.81	1/2	4,308.50	1/2	3,961.22	1/2	3,597.09	1/2	3,231.57	1/2	2,866.05	1/2	2,500.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.32	3/4	4,301.55	3/4	3,953.77	3/4	3,589.47	3/4	3,223.95	3/4	2,858.43	3/4	2,492.91
8	8	8	8	8	8	8	4,617.81	8	4,294.57	8	3,946.30	8	3,581.86	8	3,216.34	8	2,850.82	8	2,485.30
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,611.28	1/4	4,287.54	1/4	3,938.81	1/4	3,574.24	1/4	3,208.72	1/4	2,843.20	1/4	2,477.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,604.75	1/2	4,280.51	1/2	3,931.32	1/2	3,566.63	1/2	3,201.11	1/2	2,835.59	1/2	2,470.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,598.23	3/4	4,273.48	3/4	3,923.83	3/4	3,559.01	3/4	3,193.49	3/4	2,827.97	3/4	2,462.45
9	9	9	9	9	9	9	4,591.68	9	4,266.42	9	3,916.32	9	3,551.40	9	3,185.88	9	2,820.36	9	2,454.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,585.12	1/4	4,259.33	1/4	3,908.79	1/4	3,543.78	1/4	3,178.26	1/4	2,812.74	1/4	2,447.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,578.55	1/2	4,252.24	1/2	3,901.27	1/2	3,536.17	1/2	3,170.65	1/2	2,805.13	1/2	2,439.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,571.99	3/4	4,245.16	3/4	3,893.74	3/4	3,528.55	3/4	3,163.03	3/4	2,797.51	3/4	2,431.99
10	10	10	10	10	10	10	4,565.40	10	4,238.05	10	3,886.20	10	3,520.94	10	3,155.42	10	2,789.90	10	2,424.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,558.80	1/4	4,230.92	1/4	3,878.63	1/4	3,513.32	1/4	3,147.80	1/4	2,782.28	1/4	2,416.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,552.20	1/2	4,223.80	1/2	3,871.07	1/2	3,505.71	1/2	3,140.19	1/2	2,774.67	1/2	2,409.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,545.60	3/4	4,216.67	3/4	3,863.51	3/4	3,498.09	3/4	3,132.57	3/4	2,767.05	3/4	2,401.53
11	11	11	11	11	11	11	4,538.98	11	4,209.53	11	3,855.93	11	3,490.48	11	3,124.96	11	2,759.44	11	2,393.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,532.34	1/4	4,202.37	1/4	3,848.33	1/4	3,482.86	1/4	3,117.34	1/4	2,751.82	1/4	2,386.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,525.70	1/2	4,195.21	1/2	3,840.74	1/2	3,475.25	1/2	3,109.73	1/2	2,744.21	1/2	2,378.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,519.06	3/4	4,188.04	3/4	3,833.14	3/4	3,467.63	3/4	3,102.11	3/4	2,736.59	3/4	2,371.07

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-11" 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 28069"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 7/8"

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	2,363.46	0	1,997.94	0	1,632.41	0	1,267.52	0	902.95	0	537.54	0	191.15	0		0		0	
1/4	2,355.84	1/4	1,990.32	1/4	1,624.79	1/4	1,259.91	1/4	895.36	1/4	529.92	1/4	184.46	1/4		1/4		1/4	
1/2	2,348.23	1/2	1,982.71	1/2	1,617.18	1/2	1,252.29	1/2	887.77	1/2	522.31	1/2	177.78	1/2		1/2		1/2	
3/4	2,340.61	3/4	1,975.10	3/4	1,609.56	3/4	1,244.68	3/4	880.18	3/4	514.69	3/4	171.10	3/4		3/4		3/4	
1	2,333.00	1	1,967.48	1	1,601.94	1	1,237.06	1	872.59	1	507.09	1	164.46	1		1		1	
1/4	2,325.38	1/4	1,959.86	1/4	1,594.33	1/4	1,229.44	1/4	864.98	1/4	499.49	1/4	157.86	1/4		1/4		1/4	
1/2	2,317.77	1/2	1,952.25	1/2	1,586.71	1/2	1,221.83	1/2	857.38	1/2	491.90	1/2	151.26	1/2		1/2		1/2	
3/4	2,310.15	3/4	1,944.63	3/4	1,579.10	3/4	1,214.21	3/4	849.78	3/4	484.30	3/4	144.66	3/4		3/4		3/4	
2	2,302.54	2	1,937.02	2	1,571.48	2	1,206.60	2	842.17	2	476.74	2	138.11	2		2		2	
1/4	2,294.92	1/4	1,929.40	1/4	1,563.87	1/4	1,198.98	1/4	834.55	1/4	469.21	1/4	131.61	1/4		1/4		1/4	
1/2	2,287.31	1/2	1,921.79	1/2	1,556.25	1/2	1,191.36	1/2	826.94	1/2	461.68	1/2	125.10	1/2		1/2		1/2	
3/4	2,279.69	3/4	1,914.17	3/4	1,548.64	3/4	1,183.75	3/4	819.32	3/4	454.14	3/4	118.60	3/4		3/4		3/4	
3	2,272.08	3	1,906.56	3	1,541.02	3	1,176.14	3	811.71	3	446.66	3	112.14	3		3		3	
1/4	2,264.46	1/4	1,898.94	1/4	1,533.41	1/4	1,168.54	1/4	804.09	1/4	439.21	1/4	105.73	1/4		1/4		1/4	
1/2	2,256.85	1/2	1,891.33	1/2	1,525.79	1/2	1,160.93	1/2	796.48	1/2	431.76	1/2	99.32	1/2		1/2		1/2	
3/4	2,249.23	3/4	1,883.71	3/4	1,518.18	3/4	1,153.33	3/4	788.86	3/4	424.32	3/4	92.91	3/4		3/4		3/4	
4	2,241.62	4	1,876.10	4	1,510.56	4	1,145.73	4	781.24	4	416.91	4	86.56	4		4		4	
1/4	2,234.00	1/4	1,868.48	1/4	1,502.95	1/4	1,138.14	1/4	773.63	1/4	409.55	1/4	80.25	1/4		1/4		1/4	
1/2	2,226.39	1/2	1,860.86	1/2	1,495.33	1/2	1,130.56	1/2	766.01	1/2	402.19	1/2	73.95	1/2		1/2		1/2	
3/4	2,218.77	3/4	1,853.25	3/4	1,487.72	3/4	1,122.97	3/4	758.40	3/4	394.83	3/4	67.64	3/4		3/4		3/4	
5	2,211.16	5	1,845.63	5	1,480.11	5	1,115.38	5	750.78	5	387.51	5	61.40	5		5		5	
1/4	2,203.54	1/4	1,838.02	1/4	1,472.51	1/4	1,107.79	1/4	743.17	1/4	380.23	1/4	55.21	1/4		1/4		1/4	
1/2	2,195.93	1/2	1,830.40	1/2	1,464.90	1/2	1,100.21	1/2	735.55	1/2	372.95	1/2	49.03	1/2		1/2		1/2	
3/4	2,188.31	3/4	1,822.79	3/4	1,457.30	3/4	1,092.62	3/4	727.93	3/4	365.67	3/4	42.84	3/4		3/4		3/4	
6	2,180.70	6	1,815.17	6	1,449.71	6	1,085.03	6	720.32	6	358.44	6	37.00	6		6		6	
1/4	2,173.08	1/4	1,807.56	1/4	1,442.12	1/4	1,077.45	1/4	712.70	1/4	351.25	1/4	31.51	1/4		1/4		1/4	
1/2	2,165.47	1/2	1,799.94	1/2	1,434.53	1/2	1,069.86	1/2	705.09	1/2	344.05	1/2	26.02	1/2		1/2		1/2	
3/4	2,157.85	3/4	1,792.33	3/4	1,426.94	3/4	1,062.27	3/4	697.47	3/4	336.86	3/4	20.53	3/4		3/4		3/4	
7	2,150.24	7	1,784.71	7	1,419.36	7	1,054.69	7	689.86	7	329.71	7	16.01	7		7		7	
1/4	2,142.62	1/4	1,777.10	1/4	1,411.77	1/4	1,047.10	1/4	682.24	1/4	322.60	1/4	12.46	1/4		1/4		1/4	
1/2	2,135.01	1/2	1,769.48	1/2	1,404.18	1/2	1,039.51	1/2	674.63	1/2	315.49	1/2	8.90	1/2		1/2		1/2	
3/4	2,127.39	3/4	1,761.87	3/4	1,396.59	3/4	1,031.93	3/4	667.01	3/4	308.39	3/4	5.35	3/4		3/4		3/4	
8	2,119.78	8	1,754.25	8	1,389.01	8	1,024.34	8	659.39	8	301.32	7 7/8	3.58	8		8		8	
1/4	2,112.16	1/4	1,746.64	1/4	1,381.42	1/4	1,016.75	1/4	651.78	1/4	294.30	1/4		1/4		1/4		1/4	
1/2	2,104.55	1/2	1,739.02	1/2	1,373.83	1/2	1,009.17	1/2	644.16	1/2	287.27	1/2		1/2		1/2		1/2	
3/4	2,096.93	3/4	1,731.40	3/4	1,366.24	3/4	1,001.58	3/4	636.55	3/4	280.25	3/4		3/4		3/4		3/4	
9	2,089.32	9	1,723.79	9	1,358.65	9	993.99	9	628.93	9	273.27	9		9		9		9	
1/4	2,081.70	1/4	1,716.17	1/4	1,351.06	1/4	986.41	1/4	621.32	1/4	266.33	1/4		1/4		1/4		1/4	
1/2	2,074.09	1/2	1,708.56	1/2	1,343.48	1/2	978.82	1/2	613.70	1/2	259.39	1/2		1/2		1/2		1/2	
3/4	2,066.47	3/4	1,700.94	3/4	1,335.89	3/4	971.23	3/4	606.08	3/4	252.45	3/4		3/4		3/4		3/4	
10	2,058.86	10	1,693.33	10	1,328.30	10	963.65	10	598.47	10	245.56	10		10		10		10	
1/4	2,051.24	1/4	1,685.71	1/4	1,320.71	1/4	956.06	1/4	590.85	1/4	238.70	1/4		1/4		1/4		1/4	
1/2	2,043.63	1/2	1,678.10	1/2	1,313.12	1/2	948.47	1/2	583.24	1/2	231.85	1/2		1/2		1/2		1/2	
3/4	2,036.01	3/4	1,670.48	3/4	1,305.53	3/4	940.88	3/4	575.62	3/4	225.00	3/4		3/4		3/4		3/4	
11	2,028.40	11	1,662.87	11	1,297.94	11	933.30	11	568.00	11	218.18	11		11		11		11	
1/4	2,020.78	1/4	1,655.25	1/4	1,290.34	1/4	925.71	1/4	560.39	1/4	211.41	1/4		1/4		1/4		1/4	
1/2	2,013.17	1/2	1,647.64	1/2	1,282.73	1/2	918.12	1/2	552.77	1/2	204.65	1/2		1/2		1/2		1/2	
3/4	2,005.55	3/4	1,640.02	3/4	1,275.13	3/4	910.54	3/4	545.16	3/4	197.88	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

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





# BARGE "KIRBY 28069"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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		0		0		0		0		0		0	
1/4		1/4		1/4	1/4	1/4	4,837.84	1/4	4,514.25	1/4	4,183.61	1/4	3,829.61	1/4	3,466.52	1/4	3,111.00	1/4	2,747.91
1/2		1/2		1/2	1/2	1/2	4,832.25	1/2	4,507.62	1/2	4,176.46	1/2	3,822.05	1/2	3,458.96	1/2	3,095.87	1/2	2,732.78
3/4		3/4		3/4	3/4	3/4	4,825.48	3/4	4,500.95	3/4	4,169.27	3/4	3,814.49	3/4	3,451.40	3/4	3,088.30	3/4	2,725.21
1		1		1		1	4,818.71	1	4,494.29	1	4,162.08	1	3,806.92	1	3,443.83	1	3,080.74	1	2,717.65
1/4		1/4		1/4	1/4	1/4	4,811.94	1/4	4,487.63	1/4	4,154.89	1/4	3,799.36	1/4	3,436.27	1/4	3,073.18	1/4	2,710.08
1/2		1/2		1/2	1/2	1/2	4,805.17	1/2	4,480.97	1/2	4,147.70	1/2	3,791.79	1/2	3,428.70	1/2	3,065.61	1/2	2,702.52
3/4		3/4		3/4	3/4	3/4	4,797.77	3/4	4,474.27	3/4	4,140.47	3/4	3,784.23	3/4	3,421.14	3/4	3,058.05	3/4	2,694.96
2		2		2		2	4,790.36	2	4,467.57	2	4,133.25	2	3,776.66	2	3,413.57	2	3,050.48	2	2,687.39
1/4		1/4		1/4	1/4	1/4	4,782.96	1/4	4,460.88	1/4	4,126.02	1/4	3,769.10	1/4	3,406.01	1/4	3,042.92	1/4	2,679.83
1/2		1/2		1/2	1/2	1/2	4,775.56	1/2	4,454.18	1/2	4,118.79	1/2	3,761.54	1/2	3,398.44	1/2	3,035.35	1/2	2,672.26
3/4		3/4		3/4	3/4	3/4	4,768.08	3/4	4,447.44	3/4	4,111.53	3/4	3,753.97	3/4	3,390.88	3/4	3,027.79	3/4	2,664.70
3		3		3		3	4,760.60	3	4,440.71	3	4,104.27	3	3,746.41	3	3,383.32	3	3,020.22	3	2,657.13
1/4		1/4		1/4	1/4	1/4	4,753.12	1/4	4,433.98	1/4	4,097.01	1/4	3,738.84	1/4	3,375.75	1/4	3,012.66	1/4	2,649.57
1/2		1/2		1/2	1/2	1/2	4,745.64	1/2	4,427.24	1/2	4,089.75	1/2	3,731.28	1/2	3,368.19	1/2	3,005.10	1/2	2,642.00
3/4		3/4		3/4	3/4	3/4	4,738.44	3/4	4,420.47	3/4	4,082.46	3/4	3,723.71	3/4	3,360.62	3/4	2,997.53	3/4	2,634.44
4		4		4		4	4,731.24	4	4,413.70	4	4,075.16	4	3,716.15	4	3,353.06	4	2,989.97	4	2,626.88
1/4		1/4		1/4	1/4	1/4	4,724.03	1/4	4,406.93	1/4	4,067.87	1/4	3,708.59	1/4	3,345.49	1/4	2,982.40	1/4	2,619.31
1/2		1/2		1/2	1/2	1/2	4,716.83	1/2	4,400.16	1/2	4,060.58	1/2	3,701.02	1/2	3,337.93	1/2	2,974.84	1/2	2,611.75
3/4		3/4		3/4	3/4	3/4	4,710.17	3/4	4,393.35	3/4	4,053.25	3/4	3,693.46	3/4	3,330.37	3/4	2,967.27	3/4	2,604.18
5		5		5		5	4,703.51	5	4,386.54	5	4,045.92	5	3,685.89	5	3,322.80	5	2,959.71	5	2,596.62
1/4		1/4		1/4	1/4	1/4	4,696.85	1/4	4,379.73	1/4	4,038.59	1/4	3,678.33	1/4	3,315.24	1/4	2,952.15	1/4	2,589.05
1/2		1/2		1/2	1/2	1/2	4,690.19	1/2	4,372.92	1/2	4,031.27	1/2	3,670.76	1/2	3,307.67	1/2	2,944.58	1/2	2,581.49
3/4		3/4		3/4	3/4	3/4	4,683.78	3/4	4,366.08	3/4	4,023.90	3/4	3,663.20	3/4	3,300.11	3/4	2,937.02	3/4	2,573.93
6		6		6		6	4,677.37	6	4,359.23	6	4,016.54	6	3,655.63	6	3,292.54	6	2,929.45	6	2,566.36
1/4		1/4		1/4	1/4	1/4	4,670.96	1/4	4,352.39	1/4	4,009.17	1/4	3,648.07	1/4	3,284.98	1/4	2,921.89	1/4	2,558.80
1/2		1/2		1/2	1/2	1/2	4,664.55	1/2	4,345.54	1/2	4,001.80	1/2	3,640.51	1/2	3,277.41	1/2	2,914.32	1/2	2,551.23
3/4		3/4		3/4	3/4	3/4	4,658.11	3/4	4,338.64	3/4	3,994.40	3/4	3,632.94	3/4	3,269.85	3/4	2,906.76	3/4	2,543.67
7		7		7		7	4,651.66	7	4,331.74	7	3,987.00	7	3,625.38	7	3,262.29	7	2,899.19	7	2,536.10
1/4		1/4		1/4	1/4	1/4	4,645.21	1/4	4,324.83	1/4	3,979.60	1/4	3,617.81	1/4	3,254.72	1/4	2,891.63	1/4	2,528.54
1/2		1/2		1/2	1/2	1/2	4,638.77	1/2	4,317.93	1/2	3,972.20	1/2	3,610.25	1/2	3,247.16	1/2	2,884.07	1/2	2,520.97
3/4		3/4		3/4	3/4	3/4	4,632.28	3/4	4,310.95	3/4	3,964.76	3/4	3,602.68	3/4	3,239.59	3/4	2,876.50	3/4	2,513.41
8		8		8		8	4,625.80	8	4,303.96	8	3,957.32	8	3,595.12	8	3,232.03	8	2,868.94	8	2,505.85
1/4		1/4		1/4	1/4	1/4	4,619.32	1/4	4,296.98	1/4	3,949.88	1/4	3,587.55	1/4	3,224.46	1/4	2,861.37	1/4	2,498.28
1/2		1/2		1/2	1/2	1/2	4,612.83	1/2	4,290.00	1/2	3,942.44	1/2	3,579.99	1/2	3,216.90	1/2	2,853.81	1/2	2,490.72
3/4		3/4		3/4	3/4	3/4	4,606.31	3/4	4,282.96	3/4	3,934.96	3/4	3,572.43	3/4	3,209.33	3/4	2,846.24	3/4	2,483.15
9		9		9		9	4,599.79	9	4,275.92	9	3,927.49	9	3,564.86	9	3,201.77	9	2,838.68	9	2,475.59
1/4		1/4		1/4	1/4	1/4	4,593.27	1/4	4,268.88	1/4	3,920.01	1/4	3,557.30	1/4	3,194.21	1/4	2,831.11	1/4	2,468.02
1/2		1/2		1/2	1/2	1/2	4,586.75	1/2	4,261.83	1/2	3,912.53	1/2	3,549.73	1/2	3,186.64	1/2	2,823.55	1/2	2,460.46
3/4		3/4		3/4	3/4	3/4	4,580.19	3/4	4,254.76	3/4	3,905.02	3/4	3,542.17	3/4	3,179.08	3/4	2,815.99	3/4	2,452.89
10		10		10		10	4,573.63	10	4,247.68	10	3,897.51	10	3,534.60	10	3,171.51	10	2,808.42	10	2,445.33
1/4		1/4		1/4	1/4	1/4	4,567.07	1/4	4,240.60	1/4	3,889.99	1/4	3,527.04	1/4	3,163.95	1/4	2,800.86	1/4	2,437.77
1/2		1/2		1/2	1/2	1/2	4,560.52	1/2	4,233.52	1/2	3,882.48	1/2	3,519.48	1/2	3,156.38	1/2	2,793.29	1/2	2,430.20
3/4		3/4		3/4	3/4	3/4	4,553.92	3/4	4,226.41	3/4	3,874.93	3/4	3,511.91	3/4	3,148.82	3/4	2,785.73	3/4	2,422.64
11		11		11		11	4,547.33	11	4,219.29	11	3,867.39	11	3,504.35	11	3,141.26	11	2,778.16	11	2,415.07
1/4		1/4		1/4	1/4	1/4	4,540.73	1/4	4,212.18	1/4	3,859.85	1/4	3,496.78	1/4	3,133.69	1/4	2,770.60	1/4	2,407.51
1/2		1/2		1/2	1/2	1/2	4,534.14	1/2	4,205.06	1/2	3,852.30	1/2	3,489.22	1/2	3,126.13	1/2	2,763.04	1/2	2,399.94
3/4		3/4		3/4	3/4	3/4	4,527.51	3/4	4,197.91	3/4	3,844.74	3/4	3,481.65	3/4	3,118.56	3/4	2,755.47	3/4	2,392.38

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-05" 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 28069"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,384.82	0	2,021.72	0	1,658.62	0	1,299.39	0	949.32	0	589.91	0	226.77	0		0		0	
1/4	2,377.25	1/4	2,014.16	1/4	1,651.06	1/4	1,291.83	1/4	942.09	1/4	582.35	1/4	219.21	1/4		1/4		1/4	
1/2	2,369.69	1/2	2,006.59	1/2	1,643.49	1/2	1,284.26	1/2	934.85	1/2	574.78	1/2	211.64	1/2		1/2		1/2	
3/4	2,362.12	3/4	1,999.03	3/4	1,635.93	3/4	1,276.70	3/4	927.60	3/4	567.22	3/4	204.08	3/4		3/4		3/4	
1	2,354.56	1	1,991.46	1	1,628.36	1	1,269.13	1	920.35	1	559.65	1	196.52	1		1		1	
1/4	2,346.99	1/4	1,983.90	1/4	1,620.80	1/4	1,261.56	1/4	913.09	1/4	552.09	1/4	188.96	1/4		1/4		1/4	
1/2	2,339.43	1/2	1,976.33	1/2	1,613.23	1/2	1,254.00	1/2	905.84	1/2	544.52	1/2	181.39	1/2		1/2		1/2	
3/4	2,331.86	3/4	1,968.77	3/4	1,605.67	3/4	1,246.58	3/4	898.58	3/4	536.96	3/4	173.84	3/4		3/4		3/4	
2	2,324.30	2	1,961.20	2	1,598.10	2	1,239.17	2	891.32	2	529.39	2	166.28	2		2		2	
1/4	2,316.74	1/4	1,953.64	1/4	1,590.54	1/4	1,231.76	1/4	884.05	1/4	521.82	1/4	158.73	1/4		1/4		1/4	
1/2	2,309.17	1/2	1,946.07	1/2	1,582.97	1/2	1,224.34	1/2	876.79	1/2	514.26	1/2	151.17	1/2		1/2		1/2	
3/4	2,301.61	3/4	1,938.51	3/4	1,575.41	3/4	1,217.09	3/4	869.37	3/4	506.69	3/4	143.63	3/4		3/4		3/4	
3	2,294.04	3	1,930.95	3	1,567.84	3	1,209.84	3	861.96	3	499.13	3	136.08	3		3		3	
1/4	2,286.48	1/4	1,923.38	1/4	1,560.28	1/4	1,202.59	1/4	854.54	1/4	491.56	1/4	128.54	1/4		1/4		1/4	
1/2	2,278.91	1/2	1,915.82	1/2	1,552.72	1/2	1,195.33	1/2	847.13	1/2	484.00	1/2	121.00	1/2		1/2		1/2	
3/4	2,271.35	3/4	1,908.25	3/4	1,545.23	3/4	1,188.10	3/4	839.56	3/4	476.43	3/4	113.47	3/4		3/4		3/4	
4	2,263.78	4	1,900.69	4	1,537.75	4	1,180.86	4	832.00	4	468.87	4	105.95	4		4		4	
1/4	2,256.22	1/4	1,893.12	1/4	1,530.26	1/4	1,173.62	1/4	824.43	1/4	461.30	1/4	98.42	1/4		1/4		1/4	
1/2	2,248.66	1/2	1,885.56	1/2	1,522.78	1/2	1,166.38	1/2	816.87	1/2	453.74	1/2	90.90	1/2		1/2		1/2	
3/4	2,241.09	3/4	1,877.99	3/4	1,515.38	3/4	1,159.15	3/4	809.30	3/4	446.17	3/4	83.41	3/4		3/4		3/4	
5	2,233.53	5	1,870.43	5	1,507.97	5	1,151.91	5	801.74	5	438.61	5	75.92	5		5		5	
1/4	2,225.96	1/4	1,862.86	1/4	1,500.57	1/4	1,144.68	1/4	794.17	1/4	431.04	1/4	68.43	1/4		1/4		1/4	
1/2	2,218.40	1/2	1,855.30	1/2	1,493.17	1/2	1,137.44	1/2	786.61	1/2	423.47	1/2	60.94	1/2		1/2		1/2	
3/4	2,210.83	3/4	1,847.73	3/4	1,485.77	3/4	1,130.21	3/4	779.04	3/4	415.91	3/4	54.05	3/4		3/4		3/4	
6	2,203.27	6	1,840.17	6	1,478.36	6	1,122.97	6	771.48	6	408.34	6	47.17	6		6		6	
1/4	2,195.71	1/4	1,832.61	1/4	1,470.96	1/4	1,115.74	1/4	763.91	1/4	400.78	1/4	40.28	1/4		1/4		1/4	
1/2	2,188.14	1/2	1,825.04	1/2	1,463.56	1/2	1,108.50	1/2	756.35	1/2	393.21	1/2	33.40	1/2		1/2		1/2	
3/4	2,180.58	3/4	1,817.48	3/4	1,456.16	3/4	1,101.27	3/4	748.78	3/4	385.65	3/4	28.36	3/4		3/4		3/4	
7	2,173.01	7	1,809.91	7	1,448.75	7	1,094.03	7	741.22	7	378.08	7	23.31	7		7		7	
1/4	2,165.45	1/4	1,802.35	1/4	1,441.35	1/4	1,086.80	1/4	733.65	1/4	370.52	1/4	18.27	1/4		1/4		1/4	
1/2	2,157.88	1/2	1,794.78	1/2	1,433.95	1/2	1,079.56	1/2	726.09	1/2	362.95	1/2	13.23	1/2		1/2		1/2	
3/4	2,150.32	3/4	1,787.22	3/4	1,426.54	3/4	1,072.33	3/4	718.52	3/4	355.39	3/4		3/4		3/4		3/4	
8	2,142.75	8	1,779.65	8	1,419.14	8	1,065.09	8	710.96	8	347.82	8		8		8		8	
1/4	2,135.19	1/4	1,772.09	1/4	1,411.74	1/4	1,057.86	1/4	703.39	1/4	340.26	1/4		1/4		1/4		1/4	
1/2	2,127.63	1/2	1,764.52	1/2	1,404.33	1/2	1,050.62	1/2	695.83	1/2	332.69	1/2		1/2		1/2		1/2	
3/4	2,120.06	3/4	1,756.96	3/4	1,396.93	3/4	1,043.39	3/4	688.26	3/4	325.12	3/4		3/4		3/4		3/4	
9	2,112.50	9	1,749.40	9	1,389.53	9	1,036.15	9	680.70	9	317.56	9		9		9		9	
1/4	2,104.93	1/4	1,741.83	1/4	1,382.12	1/4	1,028.92	1/4	673.13	1/4	309.99	1/4		1/4		1/4		1/4	
1/2	2,097.37	1/2	1,734.27	1/2	1,374.72	1/2	1,021.68	1/2	665.57	1/2	302.43	1/2		1/2		1/2		1/2	
3/4	2,089.80	3/4	1,726.70	3/4	1,367.24	3/4	1,014.45	3/4	658.00	3/4	294.86	3/4		3/4		3/4		3/4	
10	2,082.24	10	1,719.14	10	1,359.75	10	1,007.21	10	650.44	10	287.30	10		10		10		10	
1/4	2,074.67	1/4	1,711.57	1/4	1,352.27	1/4	999.97	1/4	642.87	1/4	279.73	1/4		1/4		1/4		1/4	
1/2	2,067.11	1/2	1,704.01	1/2	1,344.78	1/2	992.74	1/2	635.31	1/2	272.17	1/2		1/2		1/2		1/2	
3/4	2,059.55	3/4	1,696.44	3/4	1,337.22	3/4	985.50	3/4	627.74	3/4	264.60	3/4		3/4		3/4		3/4	
11	2,051.98	11	1,688.88	11	1,329.65	11	978.27	11	620.18	11	257.04	11		11		11		11	
1/4	2,044.42	1/4	1,681.31	1/4	1,322.09	1/4	971.03	1/4	612.61	1/4	249.47	1/4		1/4		1/4		1/4	
1/2	2,036.85	1/2	1,673.75	1/2	1,314.52	1/2	963.80	1/2	605.04	1/2	241.91	1/2		1/2		1/2		1/2	
3/4	2,029.29	3/4	1,666.18	3/4	1,306.96	3/4	956.56	3/4	597.48	3/4	234.34	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

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





# BARGE "KIRBY 28069"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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		0	4,535.98	0	4,205.90	0	3,852.36	0	3,489.32	0	3,126.27	0	2,763.22		
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,529.35	1/4	4,198.75	1/4	3,844.80	1/4	3,481.76	1/4	3,118.71	1/4	2,755.66		
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,847.33	1/2	4,522.73	1/2	4,191.60	1/2	3,837.24	1/2	3,474.19	1/2	3,111.14	1/2	2,748.10
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,840.56	3/4	4,516.06	3/4	4,184.41	3/4	3,829.68	3/4	3,466.63	3/4	3,103.58	3/4	2,740.53
1		1		1		1		1	4,833.79	1	4,509.40	1	4,177.22	1	3,822.11	1	3,459.06	1	3,096.02	1	2,732.97
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,827.02	1/4	4,502.74	1/4	4,170.04	1/4	3,814.55	1/4	3,451.50	1/4	3,088.45	1/4	2,725.41
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,820.25	1/2	4,496.08	1/2	4,162.85	1/2	3,806.99	1/2	3,443.94	1/2	3,080.89	1/2	2,717.84
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,812.85	3/4	4,489.38	3/4	4,155.62	3/4	3,799.42	3/4	3,436.37	3/4	3,073.33	3/4	2,710.28
2		2		2		2		2	4,805.44	2	4,482.69	2	4,148.40	2	3,791.86	2	3,428.81	2	3,065.76	2	2,702.71
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,798.04	1/4	4,475.99	1/4	4,141.17	1/4	3,784.30	1/4	3,421.25	1/4	3,058.20	1/4	2,695.15
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,790.64	1/2	4,469.29	1/2	4,133.95	1/2	3,776.73	1/2	3,413.68	1/2	3,050.64	1/2	2,687.59
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.16	3/4	4,462.56	3/4	4,126.69	3/4	3,769.17	3/4	3,406.12	3/4	3,043.07	3/4	2,680.02
3		3		3		3		3	4,775.68	3	4,455.83	3	4,119.43	3	3,761.60	3	3,398.56	3	3,035.51	3	2,672.46
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,768.21	1/4	4,449.09	1/4	4,112.17	1/4	3,754.04	1/4	3,390.99	1/4	3,027.95	1/4	2,664.90
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,760.73	1/2	4,442.36	1/2	4,104.91	1/2	3,746.48	1/2	3,383.43	1/2	3,020.38	1/2	2,657.33
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,753.52	3/4	4,435.59	3/4	4,097.61	3/4	3,738.91	3/4	3,375.87	3/4	3,012.82	3/4	2,649.77
4		4		4		4		4	4,746.32	4	4,428.82	4	4,090.32	4	3,731.35	4	3,368.30	4	3,005.25	4	2,642.21
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,739.12	1/4	4,422.05	1/4	4,083.03	1/4	3,723.79	1/4	3,360.74	1/4	2,997.69	1/4	2,634.64
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,731.92	1/2	4,415.28	1/2	4,075.74	1/2	3,716.22	1/2	3,353.18	1/2	2,990.13	1/2	2,627.08
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,725.26	3/4	4,408.47	3/4	4,068.41	3/4	3,708.66	3/4	3,345.61	3/4	2,982.56	3/4	2,619.52
5		5		5		5		5	4,718.60	5	4,401.66	5	4,061.08	5	3,701.10	5	3,338.05	5	2,975.00	5	2,611.95
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,711.94	1/4	4,394.85	1/4	4,053.75	1/4	3,693.53	1/4	3,330.49	1/4	2,967.44	1/4	2,604.39
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,705.28	1/2	4,388.05	1/2	4,046.43	1/2	3,685.97	1/2	3,322.92	1/2	2,959.87	1/2	2,596.83
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,698.88	3/4	4,381.20	3/4	4,039.06	3/4	3,678.41	3/4	3,315.36	3/4	2,952.31	3/4	2,589.26
6		6		6		6		6	4,692.47	6	4,374.36	6	4,031.70	6	3,670.84	6	3,307.79	6	2,944.75	6	2,581.70
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,686.06	1/4	4,367.51	1/4	4,024.33	1/4	3,663.28	1/4	3,300.23	1/4	2,937.18	1/4	2,574.14
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,679.65	1/2	4,360.67	1/2	4,016.97	1/2	3,655.72	1/2	3,292.67	1/2	2,929.62	1/2	2,566.57
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.20	3/4	4,353.77	3/4	4,009.57	3/4	3,648.15	3/4	3,285.10	3/4	2,922.06	3/4	2,559.01
7		7		7		7		7	4,666.76	7	4,346.86	7	4,002.17	7	3,640.59	7	3,277.54	7	2,914.49	7	2,551.44
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,660.31	1/4	4,339.96	1/4	3,994.77	1/4	3,633.03	1/4	3,269.98	1/4	2,906.93	1/4	2,543.88
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,653.86	1/2	4,333.06	1/2	3,987.36	1/2	3,625.46	1/2	3,262.41	1/2	2,899.37	1/2	2,536.32
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.38	3/4	4,326.08	3/4	3,979.93	3/4	3,617.90	3/4	3,254.85	3/4	2,891.80	3/4	2,528.75
8		8		8		8		8	4,640.90	8	4,319.09	8	3,972.49	8	3,610.33	8	3,247.29	8	2,884.24	8	2,521.19
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,634.41	1/4	4,312.11	1/4	3,965.05	1/4	3,602.77	1/4	3,239.72	1/4	2,876.68	1/4	2,513.63
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,627.93	1/2	4,305.13	1/2	3,957.61	1/2	3,595.21	1/2	3,232.16	1/2	2,869.11	1/2	2,506.06
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,621.41	3/4	4,298.09	3/4	3,950.14	3/4	3,587.64	3/4	3,224.60	3/4	2,861.55	3/4	2,498.50
9		9		9		9		9	4,614.89	9	4,291.05	9	3,942.66	9	3,580.08	9	3,217.03	9	2,853.98	9	2,490.94
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.37	1/4	4,284.01	1/4	3,935.18	1/4	3,572.52	1/4	3,209.47	1/4	2,846.42	1/4	2,483.37
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,601.85	1/2	4,276.97	1/2	3,927.71	1/2	3,564.95	1/2	3,201.91	1/2	2,838.86	1/2	2,475.81
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,595.29	3/4	4,269.89	3/4	3,920.20	3/4	3,557.39	3/4	3,194.34	3/4	2,831.29	3/4	2,468.25
10		10		10		10		10	4,588.73	10	4,262.82	10	3,912.68	10	3,549.83	10	3,186.78	10	2,823.73	10	2,460.68
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,582.18	1/4	4,255.74	1/4	3,905.17	1/4	3,542.26	1/4	3,179.22	1/4	2,816.17	1/4	2,453.12
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,575.62	1/2	4,248.66	1/2	3,897.66	1/2	3,534.70	1/2	3,171.65	1/2	2,808.60	1/2	2,445.56
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,569.03	3/4	4,241.55	3/4	3,890.12	3/4	3,527.14	3/4	3,164.09	3/4	2,801.04	3/4	2,437.99
11		11		11		11		11	4,562.43	11	4,234.43	11	3,882.57	11	3,519.57	11	3,156.52	11	2,793.48	11	2,430.43
1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,555.84	1/4	4,227.32	1/4	3,875.03	1/4	3,512.01	1/4	3,148.96	1/4	2,785.91	1/4	2,422.87
1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,549.24	1/2	4,220.21	1/2	3,867.48	1/2	3,504.45	1/2	3,141.40	1/2	2,778.35	1/2	2,415.30
3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,542.61	3/4	4,213.05	3/4	3,859.92	3/4	3,496.88	3/4	3,133.83	3/4	2,770.79	3/4	2,407.74

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-04" 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 28069"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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	2,400.17	0	2,037.13	0	1,674.07	0	1,314.88	0	952.82	0	589.84	0	226.75	0		0		0	
1/4	2,392.61	1/4	2,029.56	1/4	1,666.50	1/4	1,307.32	1/4	945.28	1/4	582.28	1/4	219.18	1/4		1/4		1/4	
1/2	2,385.05	1/2	2,022.00	1/2	1,658.94	1/2	1,299.75	1/2	937.75	1/2	574.71	1/2	211.62	1/2		1/2		1/2	
3/4	2,377.48	3/4	2,014.43	3/4	1,651.38	3/4	1,292.19	3/4	930.19	3/4	567.15	3/4	204.06	3/4		3/4		3/4	
1	2,369.92	1	2,006.87	1	1,643.81	1	1,284.62	1	922.64	1	559.59	1	196.50	1		1		1	
1/4	2,362.36	1/4	1,999.31	1/4	1,636.25	1/4	1,277.06	1/4	915.09	1/4	552.02	1/4	188.93	1/4		1/4		1/4	
1/2	2,354.79	1/2	1,991.74	1/2	1,628.68	1/2	1,269.49	1/2	907.54	1/2	544.46	1/2	181.37	1/2		1/2		1/2	
3/4	2,347.23	3/4	1,984.18	3/4	1,621.12	3/4	1,261.93	3/4	899.97	3/4	536.89	3/4	173.82	3/4		3/4		3/4	
2	2,339.67	2	1,976.61	2	1,613.56	2	1,254.37	2	892.41	2	529.33	2	166.26	2		2		2	
1/4	2,332.10	1/4	1,969.05	1/4	1,605.99	1/4	1,246.80	1/4	884.85	1/4	521.76	1/4	158.71	1/4		1/4		1/4	
1/2	2,324.54	1/2	1,961.49	1/2	1,598.43	1/2	1,239.24	1/2	877.28	1/2	514.20	1/2	151.15	1/2		1/2		1/2	
3/4	2,316.98	3/4	1,953.92	3/4	1,590.87	3/4	1,231.69	3/4	869.72	3/4	506.63	3/4	143.61	3/4		3/4		3/4	
3	2,309.41	3	1,946.36	3	1,583.30	3	1,224.13	3	862.15	3	499.07	3	136.07	3		3		3	
1/4	2,301.85	1/4	1,938.80	1/4	1,575.74	1/4	1,216.58	1/4	854.59	1/4	491.50	1/4	128.52	1/4		1/4		1/4	
1/2	2,294.29	1/2	1,931.23	1/2	1,568.17	1/2	1,209.03	1/2	847.03	1/2	483.94	1/2	120.98	1/2		1/2		1/2	
3/4	2,286.72	3/4	1,923.67	3/4	1,560.69	3/4	1,201.49	3/4	839.46	3/4	476.38	3/4	113.46	3/4		3/4		3/4	
4	2,279.16	4	1,916.11	4	1,553.21	4	1,193.96	4	831.90	4	468.81	4	105.93	4		4		4	
1/4	2,271.60	1/4	1,908.54	1/4	1,545.73	1/4	1,186.42	1/4	824.33	1/4	461.25	1/4	98.41	1/4		1/4		1/4	
1/2	2,264.03	1/2	1,900.98	1/2	1,538.24	1/2	1,178.88	1/2	816.77	1/2	453.68	1/2	90.89	1/2		1/2		1/2	
3/4	2,256.47	3/4	1,893.41	3/4	1,530.84	3/4	1,171.35	3/4	809.21	3/4	446.12	3/4	83.40	3/4		3/4		3/4	
5	2,248.90	5	1,885.85	5	1,523.44	5	1,163.81	5	801.64	5	438.55	5	75.91	5		5		5	
1/4	2,241.34	1/4	1,878.29	1/4	1,516.04	1/4	1,156.28	1/4	794.08	1/4	430.99	1/4	68.42	1/4		1/4		1/4	
1/2	2,233.78	1/2	1,870.72	1/2	1,508.64	1/2	1,148.74	1/2	786.51	1/2	423.42	1/2	60.93	1/2		1/2		1/2	
3/4	2,226.21	3/4	1,863.16	3/4	1,501.23	3/4	1,141.21	3/4	778.95	3/4	415.86	3/4	54.05	3/4		3/4		3/4	
6	2,218.65	6	1,855.60	6	1,493.83	6	1,133.67	6	771.39	6	408.30	6	47.16	6		6		6	
1/4	2,211.09	1/4	1,848.03	1/4	1,486.43	1/4	1,126.14	1/4	763.82	1/4	400.73	1/4	40.28	1/4		1/4		1/4	
1/2	2,203.52	1/2	1,840.47	1/2	1,479.03	1/2	1,118.60	1/2	756.26	1/2	393.17	1/2	33.39	1/2		1/2		1/2	
3/4	2,195.96	3/4	1,832.90	3/4	1,471.63	3/4	1,111.07	3/4	748.69	3/4	385.60	3/4	28.35	3/4		3/4		3/4	
7	2,188.40	7	1,825.34	7	1,464.22	7	1,103.53	7	741.13	7	378.04	7	23.31	7		7		7	
1/4	2,180.83	1/4	1,817.78	1/4	1,456.82	1/4	1,096.00	1/4	733.57	1/4	370.47	1/4	18.27	1/4		1/4		1/4	
1/2	2,173.27	1/2	1,810.21	1/2	1,449.42	1/2	1,088.46	1/2	726.00	1/2	362.91	1/2	13.23	1/2		1/2		1/2	
3/4	2,165.71	3/4	1,802.65	3/4	1,442.02	3/4	1,080.92	3/4	718.44	3/4	355.34	3/4		3/4		3/4		3/4	
8	2,158.14	8	1,795.09	8	1,434.62	8	1,073.39	8	710.87	8	347.78	8		8		8		8	
1/4	2,150.58	1/4	1,787.52	1/4	1,427.21	1/4	1,065.85	1/4	703.31	1/4	340.21	1/4		1/4		1/4		1/4	
1/2	2,143.02	1/2	1,779.96	1/2	1,419.81	1/2	1,058.32	1/2	695.75	1/2	332.65	1/2		1/2		1/2		1/2	
3/4	2,135.45	3/4	1,772.39	3/4	1,412.41	3/4	1,050.78	3/4	688.18	3/4	325.09	3/4		3/4		3/4		3/4	
9	2,127.89	9	1,764.83	9	1,405.01	9	1,043.25	9	680.62	9	317.52	9		9		9		9	
1/4	2,120.33	1/4	1,757.27	1/4	1,397.60	1/4	1,035.71	1/4	673.05	1/4	309.96	1/4		1/4		1/4		1/4	
1/2	2,112.76	1/2	1,749.70	1/2	1,390.20	1/2	1,028.18	1/2	665.49	1/2	302.39	1/2		1/2		1/2		1/2	
3/4	2,105.20	3/4	1,742.14	3/4	1,382.72	3/4	1,020.64	3/4	657.92	3/4	294.83	3/4		3/4		3/4		3/4	
10	2,097.63	10	1,734.58	10	1,375.23	10	1,013.11	10	650.36	10	287.26	10		10		10		10	
1/4	2,090.07	1/4	1,727.01	1/4	1,367.75	1/4	1,005.57	1/4	642.79	1/4	279.70	1/4		1/4		1/4		1/4	
1/2	2,082.51	1/2	1,719.45	1/2	1,360.27	1/2	998.04	1/2	635.23	1/2	272.13	1/2		1/2		1/2		1/2	
3/4	2,074.94	3/4	1,711.89	3/4	1,352.70	3/4	990.50	3/4	627.67	3/4	264.57	3/4		3/4		3/4		3/4	
11	2,067.38	11	1,704.32	11	1,345.14	11	982.97	11	620.10	11	257.01	11		11		11		11	
1/4	2,059.82	1/4	1,696.76	1/4	1,337.57	1/4	975.43	1/4	612.54	1/4	249.44	1/4		1/4		1/4		1/4	
1/2	2,052.25	1/2	1,689.19	1/2	1,330.01	1/2	967.89	1/2	604.97	1/2	241.88	1/2		1/2		1/2		1/2	
3/4	2,044.69	3/4	1,681.63	3/4	1,322.45	3/4	960.36	3/4	597.41	3/4	234.31	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

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



# BARGE "KIRBY 28069"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,450.95	0	4,196.62	0	3,936.07	0	3,661.76	0	3,380.58	0	3,019.07	0	2,656.28
1/4		1/4		1/4		1/4	4,446.23	1/4	4,191.34	1/4	3,930.47	1/4	3,655.94	1/4	3,373.88	1/4	3,017.51	1/4	2,648.73
1/2		1/2		1/2		1/2	4,441.51	1/2	4,186.06	1/2	3,924.87	1/2	3,650.12	1/2	3,367.18	1/2	3,003.95	1/2	2,641.17
3/4		3/4		3/4		3/4	4,436.48	3/4	4,180.77	3/4	3,919.26	3/4	3,644.30	3/4	3,359.60	3/4	2,996.39	3/4	2,633.61
1		1		1		1	4,431.45	1	4,175.47	1	3,913.64	1	3,638.47	1	3,352.02	1	2,988.84	1	2,626.05
1/4		1/4		1/4		1/4	4,426.42	1/4	4,170.17	1/4	3,908.02	1/4	3,632.65	1/4	3,344.44	1/4	2,981.28	1/4	2,618.49
1/2		1/2		1/2		1/2	4,421.40	1/2	4,164.87	1/2	3,902.40	1/2	3,626.83	1/2	3,336.86	1/2	2,973.72	1/2	2,610.94
3/4		3/4		3/4		3/4	4,415.74	3/4	4,159.55	3/4	3,896.76	3/4	3,621.01	3/4	3,329.29	3/4	2,966.16	3/4	2,603.38
2		2		2		2	4,410.08	2	4,154.24	2	3,891.12	2	3,615.19	2	3,321.71	2	2,958.60	2	2,595.82
1/4		1/4		1/4		1/4	4,404.42	1/4	4,148.92	1/4	3,885.48	1/4	3,609.37	1/4	3,314.13	1/4	2,951.05	1/4	2,588.26
1/2		1/2		1/2		1/2	4,398.76	1/2	4,143.60	1/2	3,879.84	1/2	3,603.55	1/2	3,306.55	1/2	2,943.49	1/2	2,580.70
3/4		3/4		3/4		3/4	4,393.03	3/4	4,138.27	3/4	3,874.18	3/4	3,597.72	3/4	3,298.97	3/4	2,935.93	3/4	2,573.15
3		3		3		3	4,387.29	3	4,132.93	3	3,868.52	3	3,591.90	3	3,291.40	3	2,928.37	3	2,565.59
1/4		1/4		1/4		1/4	4,381.55	1/4	4,127.60	1/4	3,862.86	1/4	3,586.08	1/4	3,283.82	1/4	2,920.81	1/4	2,558.03
1/2		1/2		1/2		1/2	4,375.81	1/2	4,122.26	1/2	3,857.20	1/2	3,580.26	1/2	3,276.24	1/2	2,913.26	1/2	2,550.47
3/4		3/4		3/4		3/4	4,370.23	3/4	4,116.90	3/4	3,851.53	3/4	3,574.44	3/4	3,268.66	3/4	2,905.70	3/4	2,542.91
4		4		4		4	4,364.64	4	4,111.55	4	3,845.85	4	3,568.62	4	3,261.08	4	2,898.14	4	2,535.36
1/4		1/4		1/4		1/4	4,359.05	1/4	4,106.19	1/4	3,840.18	1/4	3,562.80	1/4	3,253.51	1/4	2,890.58	1/4	2,527.80
1/2		1/2		1/2		1/2	4,353.46	1/2	4,100.83	1/2	3,834.50	1/2	3,556.97	1/2	3,245.93	1/2	2,883.02	1/2	2,520.24
3/4		3/4		3/4		3/4	4,348.17	3/4	4,095.46	3/4	3,828.81	3/4	3,551.15	3/4	3,238.35	3/4	2,875.47	3/4	2,512.68
5		5		5		5	4,342.87	5	4,090.08	5	3,823.11	5	3,545.33	5	3,230.77	5	2,867.91	5	2,505.12
1/4		1/4		1/4		1/4	4,337.57	1/4	4,084.70	1/4	3,817.42	1/4	3,539.51	1/4	3,223.19	1/4	2,860.35	1/4	2,497.57
1/2		1/2		1/2		1/2	4,332.28	1/2	4,079.33	1/2	3,811.72	1/2	3,533.69	1/2	3,215.62	1/2	2,852.79	1/2	2,490.01
3/4		3/4		3/4		3/4	4,327.11	3/4	4,073.93	3/4	3,806.01	3/4	3,527.87	3/4	3,208.05	3/4	2,845.23	3/4	2,482.45
6		6		6		6	4,321.95	6	4,068.53	6	3,800.29	6	3,522.05	6	3,200.48	6	2,837.68	6	2,474.89
1/4		1/4		1/4		1/4	4,316.79	1/4	4,063.14	1/4	3,794.58	1/4	3,516.22	1/4	3,192.91	1/4	2,830.12	1/4	2,467.33
1/2		1/2		1/2		1/2	4,311.63	1/2	4,057.74	1/2	3,788.86	1/2	3,510.40	1/2	3,185.34	1/2	2,822.56	1/2	2,459.78
3/4		3/4		3/4		3/4	4,306.44	3/4	4,052.31	3/4	3,783.13	3/4	3,504.58	3/4	3,177.79	3/4	2,815.00	3/4	2,452.22
7		7		7		7	4,301.26	7	4,046.87	7	3,777.40	7	3,498.76	7	3,170.23	7	2,807.44	7	2,444.66
1/4		1/4		1/4		1/4	4,296.08	1/4	4,041.43	1/4	3,771.66	1/4	3,492.94	1/4	3,162.67	1/4	2,799.89	1/4	2,437.10
1/2		1/2		1/2		1/2	4,290.90	1/2	4,035.99	1/2	3,765.93	1/2	3,487.12	1/2	3,155.11	1/2	2,792.33	1/2	2,429.54
3/4		3/4		3/4		3/4	4,285.70	3/4	4,030.49	3/4	3,760.17	3/4	3,481.30	3/4	3,147.55	3/4	2,784.77	3/4	2,421.99
8		8		8		8	4,280.49	8	4,025.00	8	3,754.42	8	3,475.47	8	3,140.00	8	2,777.21	8	2,414.43
1/4		1/4		1/4		1/4	4,275.29	1/4	4,019.50	1/4	3,748.66	1/4	3,469.65	1/4	3,132.44	1/4	2,769.65	1/4	2,406.87
1/2		1/2		1/2		1/2	4,270.09	1/2	4,014.00	1/2	3,742.91	1/2	3,463.83	1/2	3,124.88	1/2	2,762.10	1/2	2,399.31
3/4		3/4		3/4		3/4	4,264.87	3/4	4,008.46	3/4	3,737.14	3/4	3,458.01	3/4	3,117.32	3/4	2,754.54	3/4	2,391.75
9		9		9		9	4,259.65	9	4,002.92	9	3,731.36	9	3,452.19	9	3,109.76	9	2,746.98	9	2,384.20
1/4		1/4		1/4		1/4	4,254.42	1/4	3,997.38	1/4	3,725.59	1/4	3,446.37	1/4	3,102.21	1/4	2,739.42	1/4	2,376.64
1/2		1/2		1/2		1/2	4,249.20	1/2	3,991.84	1/2	3,719.81	1/2	3,440.55	1/2	3,094.65	1/2	2,731.86	1/2	2,369.08
3/4		3/4		3/4		3/4	4,243.96	3/4	3,986.28	3/4	3,714.02	3/4	3,434.73	3/4	3,087.09	3/4	2,724.31	3/4	2,361.52
10		10		10		10	4,238.72	10	3,980.72	10	3,708.23	10	3,428.90	10	3,079.53	10	2,716.75	10	2,353.96
1/4		1/4		1/4		1/4	4,233.48	1/4	3,975.16	1/4	3,702.43	1/4	3,423.08	1/4	3,071.97	1/4	2,709.19	1/4	2,346.41
1/2		1/2		1/2		1/2	4,228.23	1/2	3,969.59	1/2	3,696.64	1/2	3,417.26	1/2	3,064.42	1/2	2,701.63	1/2	2,338.85
3/4		3/4		3/4		3/4	4,222.97	3/4	3,964.01	3/4	3,690.83	3/4	3,411.44	3/4	3,056.86	3/4	2,694.07	3/4	2,331.29
11		11		11		11	4,217.71	11	3,958.43	11	3,685.02	11	3,405.62	11	3,049.30	11	2,686.52	11	2,323.73
1/4		1/4		1/4		1/4	4,212.45	1/4	3,952.85	1/4	3,679.21	1/4	3,399.80	1/4	3,041.74	1/4	2,678.96	1/4	2,316.17
1/2		1/2		1/2		1/2	4,207.19	1/2	3,947.27	1/2	3,673.39	1/2	3,393.98	1/2	3,034.18	1/2	2,671.40	1/2	2,308.62
3/4		3/4		3/4		3/4	4,201.91	3/4	3,941.67	3/4	3,667.58	3/4	3,387.28	3/4	3,026.63	3/4	2,663.84	3/4	2,301.06

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-06" 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 28069"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,293.50	0	1,930.72	0	1,568.02	0	1,209.74	0	856.24	0	500.13	0	136.97	0		0		0	
1/4	2,285.94	1/4	1,923.16	1/4	1,560.48	1/4	1,202.19	1/4	848.90	1/4	492.55	1/4	129.70	1/4		1/4		1/4	
1/2	2,278.38	1/2	1,915.60	1/2	1,552.95	1/2	1,194.65	1/2	841.56	1/2	484.97	1/2	122.44	1/2		1/2		1/2	
3/4	2,270.83	3/4	1,908.04	3/4	1,545.41	3/4	1,187.11	3/4	834.20	3/4	477.39	3/4	116.13	3/4		3/4		3/4	
1	2,263.27	1	1,900.48	1	1,537.88	1	1,179.57	1	826.85	1	469.81	1	109.81	1		1		1	
1/4	2,255.71	1/4	1,892.92	1/4	1,530.34	1/4	1,172.02	1/4	819.49	1/4	462.23	1/4	103.50	1/4		1/4		1/4	
1/2	2,248.15	1/2	1,885.37	1/2	1,522.81	1/2	1,164.48	1/2	812.13	1/2	454.65	1/2	97.18	1/2		1/2		1/2	
3/4	2,240.59	3/4	1,877.81	3/4	1,515.27	3/4	1,157.04	3/4	804.77	3/4	447.07	3/4	92.14	3/4		3/4		3/4	
2	2,233.04	2	1,870.25	2	1,507.74	2	1,149.60	2	797.40	2	439.49	2	87.09	2		2		2	
1/4	2,225.48	1/4	1,862.69	1/4	1,500.20	1/4	1,142.17	1/4	790.03	1/4	431.92	1/4	82.04	1/4		1/4		1/4	
1/2	2,217.92	1/2	1,855.13	1/2	1,492.67	1/2	1,134.73	1/2	782.66	1/2	424.34	1/2	77.00	1/2		1/2		1/2	
3/4	2,210.36	3/4	1,847.58	3/4	1,485.13	3/4	1,127.40	3/4	775.29	3/4	416.76	3/4	73.23	3/4		3/4		3/4	
3	2,202.80	3	1,840.02	3	1,477.60	3	1,120.07	3	767.92	3	409.18	3	69.45	3		3		3	
1/4	2,195.25	1/4	1,832.46	1/4	1,470.06	1/4	1,112.74	1/4	760.55	1/4	401.60	1/4	65.68	1/4		1/4		1/4	
1/2	2,187.69	1/2	1,824.90	1/2	1,462.53	1/2	1,105.41	1/2	753.18	1/2	394.02	1/2	61.91	1/2		1/2		1/2	
3/4	2,180.13	3/4	1,817.34	3/4	1,455.07	3/4	1,098.09	3/4	745.82	3/4	386.44	3/4	59.42	3/4		3/4		3/4	
4	2,172.57	4	1,809.78	4	1,447.62	4	1,090.76	4	738.45	4	378.86	4	56.93	4		4		4	
1/4	2,165.01	1/4	1,802.23	1/4	1,440.17	1/4	1,083.44	1/4	731.08	1/4	371.28	1/4	54.44	1/4		1/4		1/4	
1/2	2,157.46	1/2	1,794.67	1/2	1,432.71	1/2	1,076.12	1/2	723.71	1/2	363.70	1/2	51.95	1/2		1/2		1/2	
3/4	2,149.90	3/4	1,787.11	3/4	1,425.33	3/4	1,068.79	3/4	716.34	3/4	356.13	3/4	50.75	3/4		3/4		3/4	
5	2,142.34	5	1,779.55	5	1,417.94	5	1,061.47	5	708.97	5	348.55	5	49.56	5		5		5	
1/4	2,134.78	1/4	1,771.99	1/4	1,410.56	1/4	1,054.15	1/4	701.60	1/4	340.97	1/4	48.36	1/4		1/4		1/4	
1/2	2,127.22	1/2	1,764.43	1/2	1,403.17	1/2	1,046.83	1/2	694.24	1/2	333.39	1/2	47.17	1/2		1/2		1/2	
3/4	2,119.67	3/4	1,756.88	3/4	1,395.77	3/4	1,039.51	3/4	686.87	3/4	325.81	3/4		3/4		3/4		3/4	
6	2,112.11	6	1,749.32	6	1,388.38	6	1,032.19	6	679.50	6	318.23	6		6		6		6	
1/4	2,104.55	1/4	1,741.76	1/4	1,380.98	1/4	1,024.86	1/4	672.13	1/4	310.65	1/4		1/4		1/4		1/4	
1/2	2,096.99	1/2	1,734.20	1/2	1,373.58	1/2	1,017.54	1/2	664.76	1/2	303.07	1/2		1/2		1/2		1/2	
3/4	2,089.43	3/4	1,726.64	3/4	1,366.18	3/4	1,010.22	3/4	657.39	3/4	295.49	3/4		3/4		3/4		3/4	
7	2,081.88	7	1,719.09	7	1,358.79	7	1,002.90	7	650.02	7	287.91	7		7		7		7	
1/4	2,074.32	1/4	1,711.53	1/4	1,351.39	1/4	995.58	1/4	642.65	1/4	280.34	1/4		1/4		1/4		1/4	
1/2	2,066.76	1/2	1,703.97	1/2	1,343.99	1/2	988.26	1/2	635.29	1/2	272.76	1/2		1/2		1/2		1/2	
3/4	2,059.20	3/4	1,696.41	3/4	1,336.59	3/4	980.93	3/4	627.92	3/4	265.18	3/4		3/4		3/4		3/4	
8	2,051.64	8	1,688.85	8	1,329.20	8	973.61	8	620.55	8	257.60	8		8		8		8	
1/4	2,044.09	1/4	1,681.29	1/4	1,321.80	1/4	966.29	1/4	613.18	1/4	250.02	1/4		1/4		1/4		1/4	
1/2	2,036.53	1/2	1,673.74	1/2	1,314.40	1/2	958.97	1/2	605.81	1/2	242.44	1/2		1/2		1/2		1/2	
3/4	2,028.97	3/4	1,666.18	3/4	1,307.01	3/4	951.64	3/4	598.34	3/4	234.86	3/4		3/4		3/4		3/4	
9	2,021.41	9	1,658.62	9	1,299.62	9	944.31	9	590.86	9	227.28	9		9		9		9	
1/4	2,013.85	1/4	1,651.06	1/4	1,292.23	1/4	936.98	1/4	583.39	1/4	219.70	1/4		1/4		1/4		1/4	
1/2	2,006.30	1/2	1,643.50	1/2	1,284.84	1/2	929.65	1/2	575.92	1/2	212.12	1/2		1/2		1/2		1/2	
3/4	1,998.74	3/4	1,635.95	3/4	1,277.38	3/4	922.31	3/4	568.34	3/4	204.55	3/4		3/4		3/4		3/4	
10	1,991.18	10	1,628.39	10	1,269.92	10	914.97	10	560.76	10	196.97	10		10		10		10	
1/4	1,983.62	1/4	1,620.83	1/4	1,262.46	1/4	907.63	1/4	553.18	1/4	189.39	1/4		1/4		1/4		1/4	
1/2	1,976.06	1/2	1,613.27	1/2	1,254.99	1/2	900.29	1/2	545.60	1/2	181.81	1/2		1/2		1/2		1/2	
3/4	1,968.51	3/4	1,605.72	3/4	1,247.45	3/4	892.95	3/4	538.02	3/4	174.23	3/4		3/4		3/4		3/4	
11	1,960.95	11	1,598.18	11	1,239.91	11	885.61	11	530.44	11	166.65	11		11		11		11	
1/4	1,953.39	1/4	1,590.63	1/4	1,232.37	1/4	878.27	1/4	522.86	1/4	159.07	1/4		1/4		1/4		1/4	
1/2	1,945.83	1/2	1,583.09	1/2	1,224.82	1/2	870.93	1/2	515.28	1/2	151.49	1/2		1/2		1/2		1/2	
3/4	1,938.27	3/4	1,575.55	3/4	1,217.28	3/4	863.58	3/4	507.71	3/4	144.23	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

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



# BARGE "KIRBY 28069"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/8"

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	4,471.95	0	4,217.32	0	3,956.57	0	3,682.11	0	3,400.46	0	3,037.99	0	2,674.21		
1/4		1/4		1/4		1/4	4,467.23	1/4	4,212.03	1/4	3,950.97	1/4	3,676.29	1/4	3,393.76	1/4	3,030.41	1/4	2,666.63		
1/2		1/2		1/2		1/2	4,462.35	1/2	4,206.74	1/2	3,945.36	1/2	3,670.47	1/2	3,386.62	1/2	3,022.84	1/2	2,659.05		
3/4		3/4		3/4		3/4	4,457.33	3/4	4,201.45	3/4	3,939.74	3/4	3,664.65	3/4	3,379.04	3/4	3,015.26	3/4	2,651.47		
1		1		1		1	4,452.30	1	4,196.15	1	3,934.12	1	3,658.83	1	3,371.47	1	3,007.68	1	2,643.89		
1/4		1/4		1/4		1/4	4,447.27	1/4	4,190.85	1/4	3,928.50	1/4	3,653.01	1/4	3,363.89	1/4	3,000.10	1/4	2,636.31		
1/2		1/2		1/2		1/2	4,441.93	1/2	4,185.54	1/2	3,922.87	1/2	3,647.18	1/2	3,356.31	1/2	2,992.52	1/2	2,628.73		
3/4		3/4		3/4		3/4	4,436.27	3/4	4,180.22	3/4	3,917.23	3/4	3,641.36	3/4	3,348.73	3/4	2,984.94	3/4	2,621.15		
2		2		2		2	4,430.61	2	4,174.91	2	3,911.59	2	3,635.54	2	3,341.15	2	2,977.36	2	2,613.58		
1/4		1/4		1/4		1/4	4,424.95	1/4	4,169.59	1/4	3,905.95	1/4	3,629.72	1/4	3,333.57	1/4	2,969.78	1/4	2,606.00		
1/2		1/2		1/2		1/2	4,419.25	1/2	4,164.26	1/2	3,900.30	1/2	3,623.90	1/2	3,325.99	1/2	2,962.20	1/2	2,598.42		
3/4		3/4		3/4		3/4	4,413.51	3/4	4,158.92	3/4	3,894.64	3/4	3,618.07	3/4	3,318.41	3/4	2,954.63	3/4	2,590.84		
3		3		3		3	4,407.77	3	4,153.59	3	3,888.98	3	3,612.25	3	3,310.83	3	2,947.05	3	2,583.26		
1/4		1/4		1/4		1/4	4,402.04	1/4	4,148.25	1/4	3,883.32	1/4	3,606.43	1/4	3,303.26	1/4	2,939.47	1/4	2,575.68		
1/2		1/2		1/2		1/2	4,396.37	1/2	4,142.90	1/2	3,877.66	1/2	3,600.61	1/2	3,295.68	1/2	2,931.89	1/2	2,568.10		
3/4		3/4		3/4		3/4	4,390.78	3/4	4,137.55	3/4	3,871.98	3/4	3,594.78	3/4	3,288.10	3/4	2,924.31	3/4	2,560.52		
4		4		4		4	4,385.19	4	4,132.19	4	3,866.30	4	3,588.96	4	3,280.52	4	2,916.73	4	2,552.94		
1/4		1/4		1/4		1/4	4,379.61	1/4	4,126.83	1/4	3,860.63	1/4	3,583.14	1/4	3,272.94	1/4	2,909.15	1/4	2,545.37		
1/2		1/2		1/2		1/2	4,374.16	1/2	4,121.46	1/2	3,854.94	1/2	3,577.32	1/2	3,265.36	1/2	2,901.57	1/2	2,537.79		
3/4		3/4		3/4		3/4	4,368.87	3/4	4,116.09	3/4	3,849.25	3/4	3,571.50	3/4	3,257.78	3/4	2,893.99	3/4	2,530.21		
5		5		5		5	4,363.57	5	4,110.71	5	3,843.55	5	3,565.67	5	3,250.20	5	2,886.42	5	2,522.63		
1/4		1/4		1/4		1/4	4,358.27	1/4	4,105.33	1/4	3,837.85	1/4	3,559.85	1/4	3,242.62	1/4	2,878.84	1/4	2,515.05		
1/2		1/2		1/2		1/2	4,353.04	1/2	4,099.95	1/2	3,832.15	1/2	3,554.03	1/2	3,235.04	1/2	2,871.26	1/2	2,507.47		
3/4		3/4		3/4		3/4	4,347.88	3/4	4,094.55	3/4	3,826.43	3/4	3,548.21	3/4	3,227.47	3/4	2,863.68	3/4	2,499.89		
6		6		6		6	4,342.72	6	4,089.15	6	3,820.72	6	3,542.39	6	3,219.89	6	2,856.10	6	2,492.31		
1/4		1/4		1/4		1/4	4,337.55	1/4	4,083.76	1/4	3,815.00	1/4	3,536.56	1/4	3,212.31	1/4	2,848.52	1/4	2,484.73		
1/2		1/2		1/2		1/2	4,332.38	1/2	4,078.34	1/2	3,809.28	1/2	3,530.74	1/2	3,204.73	1/2	2,840.94	1/2	2,477.15		
3/4		3/4		3/4		3/4	4,327.20	3/4	4,072.90	3/4	3,803.54	3/4	3,524.92	3/4	3,197.15	3/4	2,833.36	3/4	2,469.58		
7		7		7		7	4,322.01	7	4,067.46	7	3,797.81	7	3,519.10	7	3,189.57	7	2,825.78	7	2,462.00		
1/4		1/4		1/4		1/4	4,316.83	1/4	4,062.02	1/4	3,792.07	1/4	3,513.28	1/4	3,181.99	1/4	2,818.21	1/4	2,454.42		
1/2		1/2		1/2		1/2	4,311.64	1/2	4,056.56	1/2	3,786.33	1/2	3,507.45	1/2	3,174.41	1/2	2,810.63	1/2	2,446.84		
3/4		3/4		3/4		3/4	4,306.44	3/4	4,051.06	3/4	3,780.57	3/4	3,501.63	3/4	3,166.83	3/4	2,803.05	3/4	2,439.26		
8		8		8		8	4,301.23	8	4,045.56	8	3,774.82	8	3,495.81	8	3,159.26	8	2,795.47	8	2,431.68		
1/4		1/4		1/4		1/4	4,296.03	1/4	4,040.06	1/4	3,769.06	1/4	3,489.99	1/4	3,151.68	1/4	2,787.89	1/4	2,424.10		
1/2		1/2		1/2		1/2	4,290.82	1/2	4,034.54	1/2	3,763.30	1/2	3,484.16	1/2	3,144.10	1/2	2,780.31	1/2	2,416.52		
3/4		3/4		3/4		3/4	4,285.60	3/4	4,028.99	3/4	3,757.52	3/4	3,478.34	3/4	3,136.52	3/4	2,772.73	3/4	2,408.94		
9		9		9		9	4,280.37	9	4,023.45	9	3,751.75	9	3,472.52	9	3,128.94	9	2,765.15	9	2,401.37		
1/4		1/4		1/4		1/4	4,275.15	1/4	4,017.91	1/4	3,745.98	1/4	3,466.70	1/4	3,121.36	1/4	2,757.57	1/4	2,393.79		
1/2		1/2		1/2		1/2	4,269.92	1/2	4,012.36	1/2	3,740.19	1/2	3,460.88	1/2	3,113.78	1/2	2,750.00	1/2	2,386.21		
3/4		3/4		3/4		3/4	4,264.68	3/4	4,006.80	3/4	3,734.40	3/4	3,455.05	3/4	3,106.20	3/4	2,742.42	3/4	2,378.63		
10		10		10		10	4,259.43	10	4,001.24	10	3,728.60	10	3,449.23	10	3,098.62	10	2,734.84	10	2,371.05		
1/4		1/4		1/4		1/4	4,254.19	1/4	3,995.68	1/4	3,722.81	1/4	3,443.41	1/4	3,091.05	1/4	2,727.26	1/4	2,363.47		
1/2		1/2		1/2		1/2	4,248.94	1/2	3,990.11	1/2	3,717.00	1/2	3,437.59	1/2	3,083.47	1/2	2,719.68	1/2	2,355.89		
3/4		3/4		3/4		3/4	4,243.67	3/4	3,984.53	3/4	3,711.19	3/4	3,431.77	3/4	3,075.89	3/4	2,712.10	3/4	2,348.31		
11		11		11		11	4,238.41	11	3,978.95	11	3,705.38	11	3,425.94	11	3,068.31	11	2,704.52	11	2,340.73		
1/4		1/4		3/8		1/4	4,483.75	1/4	4,233.15	1/4	3,973.37	1/4	3,699.57	1/4	3,420.12	1/4	3,060.73	1/4	2,696.94	1/4	2,333.16
1/2		1/2		1/2		1/2	4,481.39	1/2	4,227.88	1/2	3,967.78	1/2	3,693.75	1/2	3,413.86	1/2	3,053.15	1/2	2,689.36	1/2	2,325.58
3/4		3/4		3/4		3/4	4,476.67	3/4	4,222.60	3/4	3,962.18	3/4	3,687.93	3/4	3,407.16	3/4	3,045.57	3/4	2,681.79	3/4	2,318.00

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API 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 OBSERVED WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 54'-06" 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 28069"

**3 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/8"

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	2,310.42	0	1,946.63	0	1,582.83	0	1,222.91	0	860.12	0	496.40	0	133.35	0		0		0	
1/4	2,302.84	1/4	1,939.05	1/4	1,575.26	1/4	1,215.33	1/4	852.57	1/4	488.82	1/4	126.09	1/4		1/4		1/4	
1/2	2,295.26	1/2	1,931.47	1/2	1,567.68	1/2	1,207.75	1/2	845.01	1/2	481.24	1/2	119.30	1/2		1/2		1/2	
3/4	2,287.68	3/4	1,923.89	3/4	1,560.10	3/4	1,200.17	3/4	837.44	3/4	473.66	3/4	112.98	3/4		3/4		3/4	
1	2,280.10	1	1,916.32	1	1,552.52	1	1,192.59	1	829.88	1	466.08	1	106.67	1		1		1	
1/4	2,272.52	1/4	1,908.74	1/4	1,544.94	1/4	1,185.01	1/4	822.31	1/4	458.50	1/4	100.35	1/4		1/4		1/4	
1/2	2,264.95	1/2	1,901.16	1/2	1,537.36	1/2	1,177.43	1/2	814.74	1/2	450.92	1/2	94.67	1/2		1/2		1/2	
3/4	2,257.37	3/4	1,893.58	3/4	1,529.78	3/4	1,169.85	3/4	807.16	3/4	443.34	3/4	89.62	3/4		3/4		3/4	
2	2,249.79	2	1,886.00	2	1,522.20	2	1,162.27	2	799.58	2	435.76	2	84.58	2		2		2	
1/4	2,242.21	1/4	1,878.42	1/4	1,514.62	1/4	1,154.69	1/4	792.00	1/4	428.18	1/4	79.53	1/4		1/4		1/4	
1/2	2,234.63	1/2	1,870.84	1/2	1,507.04	1/2	1,147.12	1/2	784.42	1/2	420.60	1/2	75.12	1/2		1/2		1/2	
3/4	2,227.05	3/4	1,863.26	3/4	1,499.46	3/4	1,139.55	3/4	776.84	3/4	413.02	3/4	71.35	3/4		3/4		3/4	
3	2,219.47	3	1,855.68	3	1,491.89	3	1,131.98	3	769.26	3	405.44	3	67.58	3		3		3	
1/4	2,211.89	1/4	1,848.10	1/4	1,484.31	1/4	1,124.42	1/4	761.68	1/4	397.86	1/4	63.80	1/4		1/4		1/4	
1/2	2,204.31	1/2	1,840.52	1/2	1,476.77	1/2	1,116.86	1/2	754.10	1/2	390.28	1/2	60.67	1/2		1/2		1/2	
3/4	2,196.74	3/4	1,832.94	3/4	1,469.27	3/4	1,109.30	3/4	746.52	3/4	382.70	3/4	58.18	3/4		3/4		3/4	
4	2,189.16	4	1,825.37	4	1,461.77	4	1,101.75	4	738.94	4	375.12	4	55.69	4		4		4	
1/4	2,181.58	1/4	1,817.79	1/4	1,454.27	1/4	1,094.20	1/4	731.36	1/4	367.54	1/4	53.20	1/4		1/4		1/4	
1/2	2,174.00	1/2	1,810.21	1/2	1,446.82	1/2	1,086.65	1/2	723.79	1/2	359.96	1/2	51.36	1/2		1/2		1/2	
3/4	2,166.42	3/4	1,802.63	3/4	1,439.40	3/4	1,079.10	3/4	716.21	3/4	352.38	3/4	50.16	3/4		3/4		3/4	
5	2,158.84	5	1,795.05	5	1,431.98	5	1,071.55	5	708.63	5	344.80	5	48.96	5		5		5	
1/4	2,151.26	1/4	1,787.47	1/4	1,424.56	1/4	1,064.00	1/4	701.05	1/4	337.22	1/4	47.77	1/4		1/4		1/4	
1/2	2,143.68	1/2	1,779.89	1/2	1,417.15	1/2	1,056.44	1/2	693.47	1/2	329.64	1/2	47.17	1/2		1/2		1/2	
3/4	2,136.10	3/4	1,772.31	3/4	1,409.73	3/4	1,048.89	3/4	685.89	3/4	322.06	3/4		3/4		3/4		3/4	
6	2,128.53	6	1,764.73	6	1,402.31	6	1,041.34	6	678.31	6	314.48	6		6		6		6	
1/4	2,120.95	1/4	1,757.15	1/4	1,394.89	1/4	1,033.79	1/4	670.73	1/4	306.90	1/4		1/4		1/4		1/4	
1/2	2,113.37	1/2	1,749.57	1/2	1,387.48	1/2	1,026.24	1/2	663.15	1/2	299.32	1/2		1/2		1/2		1/2	
3/4	2,105.79	3/4	1,742.00	3/4	1,380.06	3/4	1,018.69	3/4	655.57	3/4	291.74	3/4		3/4		3/4		3/4	
7	2,098.21	7	1,734.42	7	1,372.64	7	1,011.14	7	647.99	7	284.16	7		7		7		7	
1/4	2,090.63	1/4	1,726.84	1/4	1,365.22	1/4	1,003.59	1/4	640.41	1/4	276.58	1/4		1/4		1/4		1/4	
1/2	2,083.05	1/2	1,719.26	1/2	1,357.81	1/2	996.04	1/2	632.83	1/2	269.00	1/2		1/2		1/2		1/2	
3/4	2,075.47	3/4	1,711.68	3/4	1,350.39	3/4	988.49	3/4	625.25	3/4	261.42	3/4		3/4		3/4		3/4	
8	2,067.89	8	1,704.10	8	1,342.97	8	980.94	8	617.67	8	253.84	8		8		8		8	
1/4	2,060.32	1/4	1,696.52	1/4	1,335.55	1/4	973.39	1/4	610.09	1/4	246.26	1/4		1/4		1/4		1/4	
1/2	2,052.74	1/2	1,688.94	1/2	1,328.14	1/2	965.84	1/2	602.51	1/2	238.68	1/2		1/2		1/2		1/2	
3/4	2,045.16	3/4	1,681.36	3/4	1,320.72	3/4	958.29	3/4	594.93	3/4	231.10	3/4		3/4		3/4		3/4	
9	2,037.58	9	1,673.78	9	1,313.30	9	950.74	9	587.35	9	223.52	9		9		9		9	
1/4	2,030.00	1/4	1,666.20	1/4	1,305.88	1/4	943.19	1/4	579.77	1/4	215.94	1/4		1/4		1/4		1/4	
1/2	2,022.42	1/2	1,658.63	1/2	1,298.42	1/2	935.63	1/2	572.20	1/2	208.36	1/2		1/2		1/2		1/2	
3/4	2,014.84	3/4	1,651.05	3/4	1,290.92	3/4	928.08	3/4	564.62	3/4	200.78	3/4		3/4		3/4		3/4	
10	2,007.26	10	1,643.47	10	1,283.43	10	920.53	10	557.04	10	193.20	10		10		10		10	
1/4	1,999.68	1/4	1,635.89	1/4	1,275.93	1/4	912.98	1/4	549.46	1/4	185.62	1/4		1/4		1/4		1/4	
1/2	1,992.11	1/2	1,628.31	1/2	1,268.39	1/2	905.43	1/2	541.88	1/2	178.04	1/2		1/2		1/2		1/2	
3/4	1,984.53	3/4	1,620.73	3/4	1,260.81	3/4	897.88	3/4	534.30	3/4	170.46	3/4		3/4		3/4		3/4	
11	1,976.95	11	1,613.15	11	1,253.23	11	890.33	11	526.72	11	162.88	11		11		11		11	
1/4	1,969.37	1/4	1,605.57	1/4	1,245.65	1/4	882.78	1/4	519.14	1/4	155.30	1/4		1/4		1/4		1/4	
1/2	1,961.79	1/2	1,597.99	1/2	1,238.07	1/2	875.23	1/2	511.56	1/2	147.88	1/2		1/2		1/2		1/2	
3/4	1,954.21	3/4	1,590.41	3/4	1,230.49	3/4	867.68	3/4	503.98	3/4	140.61	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/05/2005 CL - SW  
CALCULATED: 01/06/2005 CL  
PRINTED: 01/06/2005 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2005

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