



# BARGE "KIRBY 28107"

## 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	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
1 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
2 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8
3 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-5/8	- 02-5/8

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

LENGTH BETWEEN DRAFT MARKS: 242'-00"

June 25, 2009

PRECISION MEASUREMENT  
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<http://www.pmacorp.net>



# BARGE "KIRBY 28107"

## 1 PORT

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS			GAUGE HEIGHT 16'-06 1/2"																					
0 FT.			1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.					
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN				
0	0	0	0	4,914.81	0	4,487.26	0	4,151.85	0	3,793.28	0	3,426.70	0	3,060.11	0	2,693.53	0	2,326.95	0	1,960.37	0	1,593.79		
1/4	1/4	1/4	1/4	4,807.98	1/4	4,480.53	1/4	4,144.59	1/4	3,785.65	1/4	3,419.06	1/4	3,052.48	1/4	2,685.89	1/4	2,319.31	1/4	1,952.73	1/4	1,586.15		
1/2	1/2	1/2	1/2	4,801.14	1/2	4,473.31	1/2	4,137.33	1/2	3,778.01	1/2	3,411.42	1/2	3,044.84	1/2	2,678.25	1/2	2,311.67	1/2	1,945.09	1/2	1,578.51		
3/4	3/4	3/4	3/4	4,793.67	3/4	4,465.05	3/4	4,130.04	3/4	3,770.37	3/4	3,403.79	3/4	3,037.20	3/4	2,670.62	3/4	2,304.03	3/4	1,937.45	3/4	1,570.87		
1	1	1	1	4,786.19	1	4,460.28	1	4,122.74	1	3,762.74	1	3,396.15	1	3,029.56	1	2,662.98	1	2,296.39	1	1,929.81	1	1,563.23		
1/4	1/4	1/4	1/4	4,778.72	1/4	4,453.52	1/4	4,115.44	1/4	3,755.10	1/4	3,388.51	1/4	3,021.93	1/4	2,655.34	1/4	2,288.75	1/4	1,922.17	1/4	1,555.59		
1/2	1/2	1/2	1/2	4,771.25	1/2	4,446.76	1/2	4,108.12	1/2	3,749.46	1/2	3,382.87	1/2	3,016.29	1/2	2,649.70	1/2	2,282.11	1/2	1,915.53	1/2	1,548.37		
3/4	3/4	3/4	3/4	4,763.70	3/4	4,439.96	3/4	4,100.82	3/4	3,739.82	3/4	3,373.24	3/4	2,999.05	3/4	2,632.43	3/4	2,265.84	3/4	1,902.26	3/4	1,535.70		
2	2	2	2	4,756.14	2	4,433.16	2	4,093.49	2	3,732.19	2	3,365.60	2	2,999.02	2	2,632.43	2	2,265.84	2	1,902.26	2	1,535.70		
1/4	1/4	1/4	1/4	4,748.59	1/4	4,426.36	1/4	4,086.16	1/4	3,724.55	1/4	3,357.96	1/4	2,991.38	1/4	2,624.79	1/4	2,258.20	1/4	1,891.61	1/4	1,523.02		
1/2	1/2	1/2	1/2	4,741.04	1/2	4,419.56	1/2	4,078.83	1/2	3,716.91	1/2	3,350.33	1/2	2,983.74	1/2	2,617.16	1/2	2,250.57	1/2	1,884.03	1/2	1,510.44		
3/4	3/4	3/4	3/4	4,733.77	3/4	4,412.73	3/4	4,071.46	3/4	3,709.28	3/4	3,342.69	3/4	2,976.10	3/4	2,609.52	3/4	2,242.93	3/4	1,876.45	3/4	1,502.86		
3	3	3	3	4,726.49	3	4,405.89	3	4,064.10	3	3,701.64	3	3,335.05	3	2,968.47	3	2,601.88	3	2,235.29	3	1,863.76	3	1,490.18		
1/4	1/4	1/4	1/4	4,719.22	1/4	4,399.05	1/4	4,056.74	1/4	3,694.00	1/4	3,327.42	1/4	2,960.83	1/4	2,594.24	1/4	2,227.65	1/4	1,850.07	1/4	1,477.49		
1/2	1/2	1/2	1/2	4,711.95	1/2	4,392.22	1/2	4,049.37	1/2	3,686.36	1/2	3,319.78	1/2	2,953.19	1/2	2,586.61	1/2	2,215.02	1/2	1,837.44	1/2	1,464.86		
3/4	3/4	3/4	3/4	4,705.22	3/4	4,385.34	3/4	4,041.97	3/4	3,678.73	3/4	3,312.14	3/4	2,945.56	3/4	2,578.97	3/4	2,208.38	3/4	1,824.85	3/4	1,452.28		
4	4	4	4	4,698.50	4	4,378.47	4	4,034.58	4	3,671.09	4	3,304.50	4	2,937.92	4	2,571.33	4	2,201.79	4	1,818.20	4	1,439.70		
1/4	1/4	1/4	1/4	4,691.78	1/4	4,371.60	1/4	4,027.18	1/4	3,663.45	1/4	3,296.87	1/4	2,930.28	1/4	2,563.70	1/4	2,201.79	1/4	1,818.20	1/4	1,439.70		
1/2	1/2	1/2	1/2	4,685.05	1/2	4,364.72	1/2	4,019.78	1/2	3,655.82	1/2	3,289.23	1/2	2,922.64	1/2	2,556.06	1/2	2,201.79	1/2	1,818.20	1/2	1,439.70		
3/4	3/4	3/4	3/4	4,678.58	3/4	4,357.81	3/4	4,012.34	3/4	3,648.18	3/4	3,281.59	3/4	2,915.01	3/4	2,548.42	3/4	2,201.79	3/4	1,818.20	3/4	1,439.70		
5	5	5	5	4,672.11	5	4,350.90	5	4,004.91	5	3,640.54	5	3,273.96	5	2,907.37	5	2,540.78	5	2,184.19	5	1,811.60	5	1,432.11		
1/4	1/4	1/4	1/4	4,665.64	1/4	4,343.99	1/4	3,997.47	1/4	3,632.90	1/4	3,266.32	1/4	2,899.73	1/4	2,533.15	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,659.17	1/2	4,337.08	1/2	3,990.03	1/2	3,625.27	1/2	3,258.68	1/2	2,892.10	1/2	2,525.51	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,652.66	3/4	4,330.11	3/4	3,982.56	3/4	3,617.63	3/4	3,251.04	3/4	2,884.46	3/4	2,517.87	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
6	6	6	6	4,646.15	6	4,323.14	6	3,975.09	6	3,609.99	6	3,243.41	6	2,876.82	6	2,510.24	6	2,176.56	6	1,809.01	6	1,424.52		
1/4	1/4	1/4	1/4	4,639.64	1/4	4,316.16	1/4	3,967.61	1/4	3,602.35	1/4	3,235.77	1/4	2,868.18	1/4	2,506.60	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,633.13	1/2	4,309.19	1/2	3,960.14	1/2	3,594.72	1/2	3,228.13	1/2	2,861.55	1/2	2,494.96	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,626.59	3/4	4,302.15	3/4	3,952.63	3/4	3,587.08	3/4	3,220.49	3/4	2,853.91	3/4	2,487.32	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
7	7	7	7	4,620.04	7	4,295.10	7	3,945.12	7	3,579.44	7	3,212.86	7	2,846.27	7	2,479.69	7	2,176.56	7	1,809.01	7	1,424.52		
1/4	1/4	1/4	1/4	4,613.49	1/4	4,288.05	1/4	3,937.61	1/4	3,571.81	1/4	3,205.22	1/4	2,838.63	1/4	2,472.05	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,606.95	1/2	4,281.00	1/2	3,930.10	1/2	3,564.17	1/2	3,197.58	1/2	2,831.05	1/2	2,464.41	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,600.36	3/4	4,273.89	3/4	3,922.55	3/4	3,556.53	3/4	3,185.95	3/4	2,823.36	3/4	2,456.77	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
8	8	8	8	4,593.78	8	4,266.78	8	3,915.00	8	3,548.89	8	3,182.31	8	2,815.72	8	2,449.14	8	2,176.56	8	1,809.01	8	1,424.52		
1/4	1/4	1/4	1/4	4,587.19	1/4	4,259.67	1/4	3,907.45	1/4	3,541.26	1/4	3,174.67	1/4	2,808.09	1/4	2,441.50	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,580.61	1/2	4,252.56	1/2	3,899.90	1/2	3,533.62	1/2	3,167.03	1/2	2,800.45	1/2	2,433.86	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,573.99	3/4	4,245.42	3/4	3,892.32	3/4	3,525.98	3/4	3,159.40	3/4	2,792.81	3/4	2,426.23	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
9	9	9	9	4,567.37	9	4,238.27	9	3,884.73	9	3,518.35	9	3,151.76	9	2,785.17	9	2,418.59	9	2,176.56	9	1,809.01	9	1,424.52		
1/4	1/4	1/4	1/4	4,560.75	1/4	4,231.12	1/4	3,877.15	1/4	3,510.71	1/4	3,144.12	1/4	2,775.54	1/4	2,418.59	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,554.13	1/2	4,223.98	1/2	3,869.56	1/2	3,503.07	1/2	3,136.49	1/2	2,769.90	1/2	2,403.31	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,547.47	3/4	4,216.80	3/4	3,861.94	3/4	3,495.43	3/4	3,128.85	3/4	2,762.26	3/4	2,395.68	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
10	10	10	10	4,540.81	10	4,209.61	10	3,854.33	10	3,487.80	10	3,121.21	10	2,754.63	10	2,388.04	10	2,176.56	10	1,809.01	10	1,424.52		
1/4	1/4	1/4	1/4	4,534.15	1/4	4,202.43	1/4	3,846.71	1/4	3,480.16	1/4	3,113.57	1/4	2,746.99	1/4	2,388.04	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52		
1/2	1/2	1/2	1/2	4,527.49	1/2	4,195.25	1/2	3,839.09	1/2	3,472.52	1/2	3,105.94	1/2	2,739.35	1/2	2,377.77	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52		
3/4	3/4	3/4	3/4	4,520.80	3/4	4,188.03	3/4	3,831.46	3/4	3,464.89	3/4	3,098.30	3/4	2,731.71	3/4	2,365.13	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52		
11	11	11	11	4,839.77	11	4,514.10	11	4,180.80	11	3,823.83	11	3,457.25	11	3,090.66	11	2,724.08	11	2,357.49	11	2,176.56	11	1,809.01	11	1,424.52
1/4	1/4	1/4	1/4	4,834.13	1/4	4,507.41	1/4	4,173.58	1/4	3,816.19	1/4	3,449.61	1/4	3,083.03	1/4	2,716.44	1/4	2,349.85	1/4	2,176.56	1/4	1,809.01	1/4	1,424.52
1/2	1/2	1/2	1/2	4,828.48	1/2	4,500.71	1/2	4,166.36	1/2	3,808.56	1/2	3,441.97	1/2	3,075.39	1/2	2,708.80	1/2	2,342.22	1/2	2,176.56	1/2	1,809.01	1/2	1,424.52
3/4	3/4	3/4	3/4	4,821.65	3/4	4,493.99	3/4	4,159.11	3/4	3,800.92	3/4	3,434.34	3/4	3,067.75	3/4	2,701.17	3/4	2,334.58	3/4	2,176.56	3/4	1,809.01	3/4	1,424.52

PRECISION MEASUREMENT & ANALYSIS, INC.  
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CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.



# BARGE "KIRBY 28107"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,326.94	0	1,960.36	0	1,593.76	0	1,227.81	0	863.58	0	497.14	0	155.01	0		0		0	
1/4	2,319.31	1/4	1,952.72	1/4	1,586.12	1/4	1,220.17	1/4	855.98	1/4	489.53	1/4	148.40	1/4		1/4		1/4	
1/2	2,311.67	1/2	1,945.09	1/2	1,578.49	1/2	1,212.54	1/2	848.39	1/2	481.91	1/2	141.78	1/2		1/2		1/2	
3/4	2,304.03	3/4	1,937.45	3/4	1,570.85	3/4	1,204.91	3/4	840.76	3/4	474.36	3/4	135.26	3/4		3/4		3/4	
1	2,296.39	1	1,929.81	1	1,563.21	1	1,197.29	1	833.14	1	466.80	1	128.73	1		1		1	
1/4	2,288.76	1/4	1,922.17	1/4	1,555.57	1/4	1,189.67	1/4	825.52	1/4	459.25	1/4	122.21	1/4		1/4		1/4	
1/2	2,281.12	1/2	1,914.54	1/2	1,547.94	1/2	1,182.04	1/2	817.90	1/2	451.70	1/2	115.68	1/2		1/2		1/2	
3/4	2,273.48	3/4	1,906.90	3/4	1,540.30	3/4	1,174.45	3/4	810.26	3/4	444.23	3/4	109.26	3/4		3/4		3/4	
2	2,265.84	2	1,899.26	2	1,532.66	2	1,166.85	2	802.62	2	436.76	2	102.83	2		2		2	
1/4	2,258.21	1/4	1,891.62	1/4	1,525.02	1/4	1,159.25	1/4	794.98	1/4	429.29	1/4	96.40	1/4		1/4		1/4	
1/2	2,250.57	1/2	1,883.99	1/2	1,517.39	1/2	1,151.66	1/2	787.34	1/2	421.82	1/2	89.97	1/2		1/2		1/2	
3/4	2,242.93	3/4	1,876.35	3/4	1,509.75	3/4	1,144.08	3/4	779.71	3/4	414.44	3/4	83.65	3/4		3/4		3/4	
3	2,235.30	3	1,868.71	3	1,502.11	3	1,136.49	3	772.07	3	407.06	3	77.33	3		3		3	
1/4	2,227.66	1/4	1,861.07	1/4	1,494.47	1/4	1,128.91	1/4	764.43	1/4	399.67	1/4	71.01	1/4		1/4		1/4	
1/2	2,220.02	1/2	1,853.44	1/2	1,486.84	1/2	1,121.33	1/2	756.79	1/2	392.29	1/2	64.68	1/2		1/2		1/2	
3/4	2,212.38	3/4	1,845.80	3/4	1,479.21	3/4	1,113.75	3/4	749.16	3/4	384.99	3/4	58.48	3/4		3/4		3/4	
4	2,204.75	4	1,838.16	4	1,471.59	4	1,106.17	4	741.52	4	377.69	4	52.27	4		4		4	
1/4	2,197.11	1/4	1,830.52	1/4	1,463.96	1/4	1,098.59	1/4	733.88	1/4	370.39	1/4	46.07	1/4		1/4		1/4	
1/2	2,189.47	1/2	1,822.89	1/2	1,456.34	1/2	1,091.01	1/2	726.24	1/2	363.10	1/2	39.87	1/2		1/2		1/2	
3/4	2,181.84	3/4	1,815.25	3/4	1,448.73	3/4	1,083.43	3/4	718.60	3/4	355.88	3/4	34.36	3/4		3/4		3/4	
5	2,174.20	5	1,807.61	5	1,441.12	5	1,075.85	5	710.97	5	348.67	5	28.85	5		5		5	
1/4	2,166.56	1/4	1,799.97	1/4	1,433.51	1/4	1,068.27	1/4	703.33	1/4	341.45	1/4	23.34	1/4		1/4		1/4	
1/2	2,158.92	1/2	1,792.34	1/2	1,425.89	1/2	1,060.69	1/2	695.69	1/2	334.24	1/2	17.84	1/2		1/2		1/2	
3/4	2,151.29	3/4	1,784.70	3/4	1,418.29	3/4	1,053.11	3/4	688.05	3/4	327.11	3/4	14.27	3/4		3/4		3/4	
6	2,143.65	6	1,777.06	6	1,410.68	6	1,045.53	6	680.42	6	319.98	6	10.71	6		6		6	
1/4	2,136.01	1/4	1,769.42	1/4	1,403.07	1/4	1,037.95	1/4	672.78	1/4	312.85	1/4	7.15	1/4		1/4		1/4	
1/2	2,128.38	1/2	1,761.79	1/2	1,395.46	1/2	1,030.37	1/2	665.14	1/2	305.73	1/2	3.59	1/2		1/2		1/2	
3/4	2,120.74	3/4	1,754.15	3/4	1,387.85	3/4	1,022.79	3/4	657.50	3/4	298.68	3/4		3/4		3/4		3/4	
7	2,113.10	7	1,746.51	7	1,380.24	7	1,015.21	7	649.86	7	291.64	7		7		7		7	
1/4	2,105.46	1/4	1,738.87	1/4	1,372.63	1/4	1,007.63	1/4	642.23	1/4	284.59	1/4		1/4		1/4		1/4	
1/2	2,097.83	1/2	1,731.24	1/2	1,365.02	1/2	1,000.05	1/2	634.59	1/2	277.55	1/2		1/2		1/2		1/2	
3/4	2,090.19	3/4	1,723.60	3/4	1,357.41	3/4	992.48	3/4	626.95	3/4	270.59	3/4		3/4		3/4		3/4	
8	2,082.55	8	1,715.96	8	1,349.80	8	984.90	8	619.31	8	263.63	8		8		8		8	
1/4	2,074.91	1/4	1,708.32	1/4	1,342.19	1/4	977.32	1/4	611.67	1/4	256.67	1/4		1/4		1/4		1/4	
1/2	2,067.28	1/2	1,700.69	1/2	1,334.58	1/2	969.74	1/2	604.04	1/2	249.72	1/2		1/2		1/2		1/2	
3/4	2,059.64	3/4	1,693.05	3/4	1,326.97	3/4	962.16	3/4	596.40	3/4	242.84	3/4		3/4		3/4		3/4	
9	2,052.00	9	1,685.41	9	1,319.36	9	954.58	9	588.76	9	235.97	9		9		9		9	
1/4	2,044.37	1/4	1,677.77	1/4	1,311.75	1/4	947.00	1/4	581.12	1/4	229.09	1/4		1/4		1/4		1/4	
1/2	2,036.73	1/2	1,670.14	1/2	1,304.14	1/2	939.42	1/2	573.48	1/2	222.22	1/2		1/2		1/2		1/2	
3/4	2,029.09	3/4	1,662.50	3/4	1,296.51	3/4	931.84	3/4	565.85	3/4	215.43	3/4		3/4		3/4		3/4	
10	2,021.45	10	1,654.86	10	1,288.89	10	924.26	10	558.21	10	208.64	10		10		10		10	
1/4	2,013.82	1/4	1,647.22	1/4	1,281.27	1/4	916.68	1/4	550.57	1/4	201.85	1/4		1/4		1/4		1/4	
1/2	2,006.18	1/2	1,639.59	1/2	1,273.64	1/2	909.10	1/2	542.93	1/2	195.06	1/2		1/2		1/2		1/2	
3/4	1,998.54	3/4	1,631.95	3/4	1,266.00	3/4	901.52	3/4	535.29	3/4	188.36	3/4		3/4		3/4		3/4	
11	1,990.91	11	1,624.31	11	1,258.36	11	893.93	11	527.65	11	181.66	11		11		11		11	
1/4	1,983.27	1/4	1,616.67	1/4	1,250.73	1/4	886.35	1/4	520.02	1/4	174.95	1/4		1/4		1/4		1/4	
1/2	1,975.64	1/2	1,609.04	1/2	1,243.09	1/2	878.77	1/2	512.38	1/2	168.25	1/2		1/2		1/2		1/2	
3/4	1,968.00	3/4	1,601.40	3/4	1,235.45	3/4	871.18	3/4	504.76	3/4	161.63	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW  
 CALCULATED: 06/25/2009 CL  
 PRINTED: 06/25/2009 CL  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 06/2009

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



# BARGE "KIRBY 28107"

1 STBD

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS			GAUGE HEIGHT 16'-06 1/2"							
IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0										
1/4										
1/2										
3/4										
1										
1 1/4										
1 1/2										
1 3/4										
2										
2 1/4										
2 1/2										
2 3/4										
3										
3 1/4										
3 1/2										
3 3/4										
4										
4 1/4										
4 1/2										
4 3/4										
5										
5 1/4										
5 1/2										
5 3/4										
6										
6 1/4										
6 1/2										
6 3/4										
7										
7 1/4										
7 1/2										
7 3/4										
8										
8 1/4										
8 1/2										
8 3/4										
9										
9 1/4										
9 1/2										
9 3/4										
10										
10 1/4										
10 1/2										
10 3/4										
11										
11 1/4										
11 1/2										
11 3/4										

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 53'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.  
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 Pearland, Texas 77588  
<http://www.pma-corp.net>



BARGE "KIRBY 28107"

1 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

Table with 19 columns representing gauge heights from 10 FT. to 19 FT. and multiple rows of capacity data.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW
CALCULATED: 06/25/2009 CL
PRINTED: 06/25/2009 CL
CANCELS AND SUPERCEDES ALL PRIOR TO 06/2009

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

Signature of PMA representative



# BARGE "KIRBY 28107"

## 2 PORT

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPIMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 12"-09" OFF CENTERLINE AND 52"-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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http://www.pmacorp.net



# BARGE "KIRBY 28107"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
	IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,361.13	0	1,997.02	0	1,632.91	0	1,272.87	0	922.92	0	561.21	0	197.07	0		0		0		
1/4	2,353.55	1/4	1,989.44	1/4	1,625.32	1/4	1,265.09	1/4	915.64	1/4	553.63	1/4	189.48	1/4		1/4		1/4		
1/2	2,345.96	1/2	1,981.85	1/2	1,617.74	1/2	1,257.50	1/2	908.37	1/2	546.04	1/2	181.90	1/2		1/2		1/2		
3/4	2,338.38	3/4	1,974.27	3/4	1,610.15	3/4	1,250.07	3/4	901.09	3/4	538.45	3/4	174.32	3/4		3/4		3/4		
1	2,330.79	1	1,966.68	1	1,602.57	1	1,242.63	1	893.80	1	530.87	1	166.75	1		1		1		
1 1/4	2,323.20	1 1/4	1,959.09	1 1/4	1,594.98	1 1/4	1,235.19	1 1/4	886.52	1 1/4	523.28	1 1/4	159.17	1 1/4		1 1/4		1 1/4		
1 1/2	2,315.62	1 1/2	1,951.51	1 1/2	1,587.39	1 1/2	1,227.76	1 1/2	879.24	1 1/2	515.69	1 1/2	151.59	1 1/2		1 1/2		1 1/2		
3/4	2,308.03	3/4	1,943.92	3/4	1,579.81	3/4	1,220.49	3/4	871.80	3/4	508.11	3/4	144.03	3/4		3/4		3/4		
2	2,300.45	2	1,936.34	2	1,572.22	2	1,213.22	2	864.37	2	500.52	2	136.46	2		2		2		
1 1/4	2,292.86	1 1/4	1,928.75	1 1/4	1,564.64	1 1/4	1,205.94	1 1/4	856.93	1 1/4	492.94	1 1/4	128.90	1 1/4		1 1/4		1 1/4		
1 1/2	2,285.28	1 1/2	1,921.17	1 1/2	1,557.05	1 1/2	1,198.67	1 1/2	849.50	1 1/2	485.35	1 1/2	121.33	1 1/2		1 1/2		1 1/2		
3/4	2,277.69	3/4	1,913.58	3/4	1,549.55	3/4	1,191.41	3/4	841.91	3/4	477.76	3/4	113.79	3/4		3/4		3/4		
3	2,270.11	3	1,905.99	3	1,542.04	3	1,184.16	3	834.32	3	470.18	3	106.24	3		3		3		
1 1/4	2,262.52	1 1/4	1,898.41	1 1/4	1,534.54	1 1/4	1,176.90	1 1/4	826.74	1 1/4	462.59	1 1/4	98.70	1 1/4		1 1/4		1 1/4		
1 1/2	2,254.93	1 1/2	1,890.82	1 1/2	1,527.03	1 1/2	1,169.64	1 1/2	819.15	1 1/2	455.00	1 1/2	91.15	1 1/2		1 1/2		1 1/2		
3/4	2,247.35	3/4	1,883.24	3/4	1,519.61	3/4	1,162.39	3/4	811.57	3/4	447.42	3/4	83.64	3/4		3/4		3/4		
4	2,239.76	4	1,875.65	4	1,512.19	4	1,155.13	4	803.98	4	439.83	4	76.13	4		4		4		
1 1/4	2,232.18	1 1/4	1,868.07	1 1/4	1,504.76	1 1/4	1,147.88	1 1/4	796.39	1 1/4	432.24	1 1/4	68.62	1 1/4		1 1/4		1 1/4		
1 1/2	2,224.59	1 1/2	1,860.48	1 1/2	1,497.34	1 1/2	1,140.62	1 1/2	788.81	1 1/2	424.66	1 1/2	61.11	1 1/2		1 1/2		1 1/2		
3/4	2,217.01	3/4	1,852.89	3/4	1,489.92	3/4	1,133.36	3/4	781.22	3/4	417.07	3/4	54.20	3/4		3/4		3/4		
5	2,209.42	5	1,845.31	5	1,482.49	5	1,126.11	5	773.63	5	409.48	5	47.30	5		5		5		
1 1/4	2,201.84	1 1/4	1,837.72	1 1/4	1,475.07	1 1/4	1,118.85	1 1/4	766.05	1 1/4	401.90	1 1/4	40.39	1 1/4		1 1/4		1 1/4		
1 1/2	2,194.25	1 1/2	1,830.14	1 1/2	1,467.64	1 1/2	1,111.60	1 1/2	758.46	1 1/2	394.31	1 1/2	33.49	1 1/2		1 1/2		1 1/2		
3/4	2,186.67	3/4	1,822.55	3/4	1,460.22	3/4	1,104.34	3/4	750.88	3/4	386.72	3/4	28.43	3/4		3/4		3/4		
6	2,179.08	6	1,814.97	6	1,452.80	6	1,097.09	6	743.29	6	379.14	6	23.38	6		6		6		
1 1/4	2,171.49	1 1/4	1,807.38	1 1/4	1,445.37	1 1/4	1,089.83	1 1/4	735.70	1 1/4	371.55	1 1/4	16.32	1 1/4		1 1/4		1 1/4		
1 1/2	2,163.91	1 1/2	1,799.79	1 1/2	1,437.95	1 1/2	1,082.58	1 1/2	728.12	1 1/2	363.96	1 1/2	13.27	1 1/2		1 1/2		1 1/2		
3/4	2,156.32	3/4	1,792.21	3/4	1,430.53	3/4	1,075.32	3/4	720.53	3/4	356.38	3/4		3/4		3/4		3/4		
7	2,148.74	7	1,784.62	7	1,423.10	7	1,068.07	7	712.94	7	348.79	7		7		7		7		
1 1/4	2,141.15	1 1/4	1,777.04	1 1/4	1,415.68	1 1/4	1,060.81	1 1/4	705.36	1 1/4	341.21	1 1/4		1 1/4		1 1/4		1 1/4		
1 1/2	2,133.57	1 1/2	1,769.45	1 1/2	1,408.26	1 1/2	1,053.55	1 1/2	697.77	1 1/2	333.62	1 1/2		1 1/2		1 1/2		1 1/2		
3/4	2,125.98	3/4	1,761.87	3/4	1,400.83	3/4	1,046.30	3/4	690.19	3/4	326.03	3/4		3/4		3/4		3/4		
8	2,118.40	8	1,754.28	8	1,393.41	8	1,039.04	8	682.60	8	318.45	8		8		8		8		
1 1/4	2,110.81	1 1/4	1,746.69	1 1/4	1,385.98	1 1/4	1,031.79	1 1/4	675.01	1 1/4	310.86	1 1/4		1 1/4		1 1/4		1 1/4		
1 1/2	2,103.22	1 1/2	1,739.11	1 1/2	1,378.56	1 1/2	1,024.53	1 1/2	667.42	1 1/2	303.27	1 1/2		1 1/2		1 1/2		1 1/2		
3/4	2,095.64	3/4	1,731.52	3/4	1,371.05	3/4	1,017.28	3/4	659.84	3/4	295.69	3/4		3/4		3/4		3/4		
9	2,088.05	9	1,723.94	9	1,363.55	9	1,010.02	9	652.25	9	288.10	9		9		9		9		
1 1/4	2,080.47	1 1/4	1,716.35	1 1/4	1,356.04	1 1/4	1,002.77	1 1/4	644.67	1 1/4	280.51	1 1/4		1 1/4		1 1/4		1 1/4		
1 1/2	2,072.88	1 1/2	1,708.77	1 1/2	1,348.54	1 1/2	995.51	1 1/2	637.08	1 1/2	272.93	1 1/2		1 1/2		1 1/2		1 1/2		
3/4	2,065.30	3/4	1,701.18	3/4	1,340.95	3/4	988.26	3/4	629.49	3/4	265.34	3/4		3/4		3/4		3/4		
10	2,057.71	10	1,693.59	10	1,333.37	10	981.00	10	621.91	10	257.75	10		10		10		10		
1 1/4	2,050.13	1 1/4	1,686.01	1 1/4	1,325.78	1 1/4	973.75	1 1/4	614.32	1 1/4	250.17	1 1/4		1 1/4		1 1/4		1 1/4		
1 1/2	2,042.54	1 1/2	1,678.42	1 1/2	1,318.19	1 1/2	966.49	1 1/2	606.73	1 1/2	242.58	1 1/2		1 1/2		1 1/2		1 1/2		
3/4	2,034.95	3/4	1,670.84	3/4	1,310.61	3/4	959.23	3/4	599.15	3/4	234.99	3/4		3/4		3/4		3/4		
11	2,027.37	11	1,663.25	11	1,303.02	11	951.98	11	591.56	11	227.41	11		11		11		11		
1 1/4	2,019.78	1 1/4	1,655.67	1 1/4	1,295.43	1 1/4	944.72	1 1/4	583.97	1 1/4	219.82	1 1/4		1 1/4		1 1/4		1 1/4		
1 1/2	2,012.19	1 1/2	1,648.08	1 1/2	1,287.85	1 1/2	937.46	1 1/2	576.39	1 1/2	212.24	1 1/2		1 1/2		1 1/2		1 1/2		
3/4	2,004.61	3/4	1,640.49	3/4	1,280.26	3/4	930.19	3/4	568.80	3/4	204.65	3/4		3/4		3/4		3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW  
CALCULATED: 06/25/2009 CL  
PRINTED: 06/25/2009 CL  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2009

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



# BARGE "KIRBY 28107"

## 2 STBD

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
	0		0		0		0		0		0		0		0		0		0
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
1	1		1		1		1		1		1		1		1		1		1
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
2	2		2		2		2		2		2		2		2		2		2
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
3	3		3		3		3		3		3		3		3		3		3
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
4	4		4		4		4		4		4		4		4		4		4
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
5	5		5		5		5		5		5		5		5		5		5
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
6	6		6		6		6		6		6		6		6		6		6
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
7	7		7		7		7		7		7		7		7		7		7
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
8	8		8		8		8		8		8		8		8		8		8
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
9	9		9		9		9		9		9		9		9		9		9
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
10	10		10		10		10		10		10		10		10		10		10
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
11	11		11		11		11		11		11		11		11		11		11
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4
12	12		12		12		12		12		12		12		12		12		12
1/4	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4
1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-43" FORWARD OF AFT BULKHEAD.

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







# BARGE "KIRBY 28107"

## 2 STBD

### ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,399.01	0	2,034.99	0	1,670.96	0	1,310.81	0	947.81	0	583.83	0	219.77	0		0		0	
1/4	2,391.43	1/4	2,027.40	1/4	1,663.38	1/4	1,303.23	1/4	940.25	1/4	576.25	1/4	212.19	1/4		1/4		1/4	
1/2	2,383.84	1/2	2,019.82	1/2	1,655.79	1/2	1,295.64	1/2	932.68	1/2	568.67	1/2	204.60	1/2		1/2		1/2	
3/4	2,376.26	3/4	2,012.24	3/4	1,648.21	3/4	1,288.06	3/4	925.11	3/4	561.08	3/4	197.02	3/4		3/4		3/4	
1	2,368.68	1	2,004.65	1	1,640.63	1	1,280.47	1	917.54	1	553.50	1	189.44	1		1		1	
1/4	2,361.09	1/4	1,997.07	1/4	1,633.04	1/4	1,272.89	1/4	909.97	1/4	545.91	1/4	181.86	1/4		1/4		1/4	
1/2	2,353.51	1/2	1,989.48	1/2	1,625.46	1/2	1,265.31	1/2	902.38	1/2	538.33	1/2	174.28	1/2		1/2		1/2	
3/4	2,345.92	3/4	1,981.90	3/4	1,617.87	3/4	1,257.72	3/4	894.80	3/4	530.74	3/4	166.71	3/4		3/4		3/4	
2	2,338.34	2	1,974.32	2	1,610.29	2	1,250.14	2	887.21	2	523.16	2	159.13	2		2		2	
1/4	2,330.76	1/4	1,966.73	1/4	1,602.71	1/4	1,242.55	1/4	879.63	1/4	515.57	1/4	151.56	1/4		1/4		1/4	
1/2	2,323.17	1/2	1,959.15	1/2	1,595.12	1/2	1,234.98	1/2	872.05	1/2	507.99	1/2	143.99	1/2		1/2		1/2	
3/4	2,315.59	3/4	1,951.56	3/4	1,587.54	3/4	1,227.41	3/4	864.46	3/4	500.40	3/4	136.43	3/4		3/4		3/4	
3	2,308.01	3	1,943.98	3	1,579.95	3	1,219.84	3	856.88	3	492.82	3	128.87	3		3		3	
1/4	2,300.42	1/4	1,936.40	1/4	1,572.37	1/4	1,212.26	1/4	849.29	1/4	485.23	1/4	121.30	1/4		1/4		1/4	
1/2	2,292.84	1/2	1,928.81	1/2	1,564.87	1/2	1,204.71	1/2	841.71	1/2	477.65	1/2	113.76	1/2		1/2		1/2	
3/4	2,285.25	3/4	1,921.23	3/4	1,557.36	3/4	1,197.15	3/4	834.12	3/4	470.06	3/4	106.22	3/4		3/4		3/4	
4	2,277.67	4	1,913.65	4	1,549.86	4	1,189.59	4	826.54	4	462.48	4	98.67	4		4		4	
1/4	2,270.09	1/4	1,906.06	1/4	1,542.36	1/4	1,182.04	1/4	818.96	1/4	454.89	1/4	91.13	1/4		1/4		1/4	
1/2	2,262.50	1/2	1,898.48	1/2	1,534.94	1/2	1,174.48	1/2	811.37	1/2	447.31	1/2	83.62	1/2		1/2		1/2	
3/4	2,254.92	3/4	1,890.89	3/4	1,527.51	3/4	1,166.92	3/4	803.79	3/4	439.73	3/4	76.11	3/4		3/4		3/4	
5	2,247.34	5	1,883.31	5	1,520.09	5	1,159.37	5	796.20	5	432.14	5	68.60	5		5		5	
1/4	2,239.75	1/4	1,875.73	1/4	1,512.67	1/4	1,151.81	1/4	788.62	1/4	424.56	1/4	61.09	1/4		1/4		1/4	
1/2	2,232.17	1/2	1,868.14	1/2	1,505.25	1/2	1,144.26	1/2	781.03	1/2	416.97	1/2	54.19	1/2		1/2		1/2	
3/4	2,224.58	3/4	1,860.56	3/4	1,497.83	3/4	1,136.70	3/4	773.45	3/4	409.39	3/4	47.29	3/4		3/4		3/4	
6	2,217.00	6	1,852.97	6	1,490.41	6	1,129.15	6	765.87	6	401.80	6	40.38	6		6		6	
1/4	2,209.42	1/4	1,845.39	1/4	1,482.98	1/4	1,121.59	1/4	758.28	1/4	394.22	1/4	33.48	1/4		1/4		1/4	
1/2	2,201.83	1/2	1,837.81	1/2	1,475.56	1/2	1,114.04	1/2	750.70	1/2	386.63	1/2	28.43	1/2		1/2		1/2	
3/4	2,194.25	3/4	1,830.22	3/4	1,468.14	3/4	1,106.48	3/4	743.11	3/4	379.05	3/4	23.37	3/4		3/4		3/4	
7	2,186.67	7	1,822.64	7	1,460.72	7	1,098.93	7	735.53	7	371.46	7	18.32	7		7		7	
1/4	2,179.08	1/4	1,815.05	1/4	1,453.30	1/4	1,091.37	1/4	727.94	1/4	363.88	1/4	13.27	1/4		1/4		1/4	
1/2	2,171.50	1/2	1,807.47	1/2	1,445.88	1/2	1,083.81	1/2	720.36	1/2	356.29	1/2	8.22	1/2		1/2		1/2	
3/4	2,163.92	3/4	1,799.89	3/4	1,438.45	3/4	1,076.26	3/4	712.78	3/4	348.71	3/4	3.17	3/4		3/4		3/4	
8	2,156.33	8	1,792.30	8	1,431.03	8	1,068.70	8	705.19	8	341.12	8	8.12	8		8		8	
1/4	2,148.75	1/4	1,784.72	1/4	1,423.61	1/4	1,061.15	1/4	697.61	1/4	333.54	1/4	3.07	1/4		1/4		1/4	
1/2	2,141.16	1/2	1,777.14	1/2	1,416.19	1/2	1,053.59	1/2	690.02	1/2	325.95	1/2	2.02	1/2		1/2		1/2	
3/4	2,133.58	3/4	1,769.55	3/4	1,408.76	3/4	1,046.04	3/4	682.44	3/4	318.37	3/4	1.97	3/4		3/4		3/4	
9	2,126.00	9	1,761.97	9	1,401.34	9	1,038.48	9	674.85	9	310.79	9	1.92	9		9		9	
1/4	2,118.41	1/4	1,754.38	1/4	1,393.92	1/4	1,030.93	1/4	667.27	1/4	303.20	1/4	1.87	1/4		1/4		1/4	
1/2	2,110.83	1/2	1,746.80	1/2	1,386.42	1/2	1,023.37	1/2	659.68	1/2	295.62	1/2	1.82	1/2		1/2		1/2	
3/4	2,103.25	3/4	1,739.22	3/4	1,378.91	3/4	1,015.82	3/4	652.10	3/4	288.03	3/4	1.77	3/4		3/4		3/4	
10	2,095.66	10	1,731.63	10	1,371.41	10	1,008.26	10	644.51	10	280.45	10	1.72	10		10		10	
1/4	2,088.08	1/4	1,724.05	1/4	1,363.91	1/4	1,000.71	1/4	636.93	1/4	272.86	1/4	1.67	1/4		1/4		1/4	
1/2	2,080.49	1/2	1,716.46	1/2	1,356.32	1/2	993.15	1/2	629.34	1/2	265.28	1/2	1.62	1/2		1/2		1/2	
3/4	2,072.91	3/4	1,708.88	3/4	1,348.74	3/4	985.59	3/4	621.76	3/4	257.69	3/4	1.57	3/4		3/4		3/4	
11	2,065.33	11	1,701.30	11	1,341.15	11	978.04	11	614.17	11	250.11	11	1.52	11		11		11	
1/4	2,057.74	1/4	1,693.71	1/4	1,333.57	1/4	970.48	1/4	606.59	1/4	242.52	1/4	1.47	1/4		1/4		1/4	
1/2	2,050.16	1/2	1,686.13	1/2	1,325.98	1/2	962.93	1/2	599.00	1/2	234.94	1/2	1.42	1/2		1/2		1/2	
3/4	2,042.57	3/4	1,678.54	3/4	1,318.40	3/4	955.37	3/4	591.42	3/4	227.35	3/4	1.37	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW  
CALCULATED: 06/25/2009 CL  
PRINTED: 06/25/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/20/09

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 28107"

# 3 PORT

# ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-08" OFF CENTERLINE AND 52'-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 28107"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,283.66	0	1,920.03	0	1,556.54	0	1,197.42	0	843.51	0	486.09	0	122.72	0	0	0	0	0	0
1/4	2,276.08	1/4	1,912.46	1/4	1,548.99	1/4	1,189.86	1/4	836.13	1/4	478.49	1/4	116.39	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,268.51	1/2	1,904.88	1/2	1,541.44	1/2	1,182.30	1/2	828.76	1/2	470.90	1/2	110.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,260.93	3/4	1,897.31	3/4	1,533.88	3/4	1,174.74	3/4	821.39	3/4	463.30	3/4	103.74	3/4	3/4	3/4	3/4	3/4	3/4
1	2,253.36	1	1,889.73	1	1,526.33	1	1,167.18	1	814.02	1	455.70	1	97.41	1	1	1	1	1	1
1/4	2,245.78	1/4	1,882.16	1/4	1,518.78	1/4	1,159.72	1/4	806.63	1/4	448.11	1/4	92.35	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,238.21	1/2	1,874.58	1/2	1,511.23	1/2	1,152.27	1/2	799.24	1/2	440.51	1/2	87.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,230.63	3/4	1,867.00	3/4	1,503.68	3/4	1,144.81	3/4	791.86	3/4	432.91	3/4	82.23	3/4	3/4	3/4	3/4	3/4	3/4
2	2,223.06	2	1,859.43	2	1,496.12	2	1,137.35	2	784.47	2	425.32	2	77.18	2	2	2	2	2	2
1/4	2,215.48	1/4	1,851.85	1/4	1,488.57	1/4	1,130.01	1/4	777.09	1/4	417.72	1/4	73.40	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,207.90	1/2	1,844.28	1/2	1,481.02	1/2	1,122.66	1/2	769.70	1/2	410.12	1/2	69.61	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,200.33	3/4	1,836.70	3/4	1,473.47	3/4	1,115.32	3/4	762.32	3/4	402.53	3/4	65.83	3/4	3/4	3/4	3/4	3/4	3/4
3	2,192.75	3	1,829.13	3	1,465.91	3	1,107.97	3	754.93	3	394.93	3	62.05	3	3	3	3	3	3
1/4	2,185.18	1/4	1,821.55	1/4	1,458.44	1/4	1,100.63	1/4	747.54	1/4	387.34	1/4	59.56	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,177.60	1/2	1,813.97	1/2	1,450.97	1/2	1,093.29	1/2	740.16	1/2	379.74	1/2	57.06	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,170.03	3/4	1,806.40	3/4	1,443.50	3/4	1,085.95	3/4	732.77	3/4	372.14	3/4	54.56	3/4	3/4	3/4	3/4	3/4	3/4
4	2,162.45	4	1,798.82	4	1,436.03	4	1,078.61	4	725.39	4	364.55	4	52.07	4	4	4	4	4	4
1/4	2,154.88	1/4	1,791.25	1/4	1,428.63	1/4	1,071.27	1/4	718.00	1/4	356.95	1/4	50.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,147.30	1/2	1,783.67	1/2	1,421.23	1/2	1,063.93	1/2	710.61	1/2	349.35	1/2	49.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,139.73	3/4	1,776.10	3/4	1,413.82	3/4	1,056.59	3/4	703.23	3/4	341.76	3/4	48.47	3/4	3/4	3/4	3/4	3/4	3/4
5	2,132.15	5	1,768.52	5	1,406.42	5	1,049.25	5	695.84	5	334.16	5	47.27	5	5	5	5	5	5
1/4	2,124.57	1/4	1,760.94	1/4	1,399.01	1/4	1,041.91	1/4	688.46	1/4	326.56	1/4	46.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,117.00	1/2	1,753.37	1/2	1,391.59	1/2	1,034.58	1/2	681.07	1/2	318.97	1/2	44.87	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,109.42	3/4	1,745.79	3/4	1,384.18	3/4	1,027.24	3/4	673.69	3/4	311.37	3/4	43.67	3/4	3/4	3/4	3/4	3/4	3/4
6	2,101.85	6	1,738.22	6	1,376.76	6	1,019.90	6	666.30	6	303.77	6	42.47	6	6	6	6	6	6
1/4	2,094.27	1/4	1,730.64	1/4	1,369.35	1/4	1,012.56	1/4	658.91	1/4	296.18	1/4	41.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,086.70	1/2	1,723.07	1/2	1,361.93	1/2	1,005.22	1/2	651.53	1/2	288.58	1/2	40.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,079.12	3/4	1,715.49	3/4	1,354.52	3/4	997.88	3/4	644.14	3/4	280.98	3/4	38.87	3/4	3/4	3/4	3/4	3/4	3/4
7	2,071.55	7	1,707.91	7	1,347.10	7	990.54	7	636.76	7	273.39	7	37.67	7	7	7	7	7	7
1/4	2,063.97	1/4	1,700.34	1/4	1,339.69	1/4	983.20	1/4	629.37	1/4	265.79	1/4	36.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,056.39	1/2	1,692.76	1/2	1,332.27	1/2	975.87	1/2	621.99	1/2	258.19	1/2	35.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,048.82	3/4	1,685.19	3/4	1,324.86	3/4	968.53	3/4	614.60	3/4	250.60	3/4	34.07	3/4	3/4	3/4	3/4	3/4	3/4
8	2,041.24	8	1,677.61	8	1,317.44	8	961.19	8	607.21	8	243.00	8	32.87	8	8	8	8	8	8
1/4	2,033.67	1/4	1,670.04	1/4	1,310.04	1/4	953.84	1/4	599.72	1/4	235.41	1/4	31.67	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,026.09	1/2	1,662.46	1/2	1,302.63	1/2	946.49	1/2	592.33	1/2	227.81	1/2	30.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,018.52	3/4	1,654.88	3/4	1,295.22	3/4	939.15	3/4	584.74	3/4	220.21	3/4	29.27	3/4	3/4	3/4	3/4	3/4	3/4
9	2,010.94	9	1,647.31	9	1,287.82	9	931.80	9	577.25	9	212.62	9	28.07	9	9	9	9	9	9
1/4	2,003.37	1/4	1,639.73	1/4	1,280.34	1/4	924.44	1/4	569.65	1/4	205.02	1/4	26.87	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,995.79	1/2	1,632.16	1/2	1,272.86	1/2	917.08	1/2	562.05	1/2	197.42	1/2	25.67	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,988.22	3/4	1,624.58	3/4	1,265.38	3/4	909.73	3/4	554.46	3/4	189.83	3/4	24.47	3/4	3/4	3/4	3/4	3/4	3/4
10	1,980.64	10	1,617.01	10	1,257.90	10	902.37	10	546.86	10	182.23	10	23.27	10	10	10	10	10	10
1/4	1,973.06	1/4	1,609.44	1/4	1,250.34	1/4	895.01	1/4	539.27	1/4	174.63	1/4	22.07	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,965.49	1/2	1,601.88	1/2	1,242.78	1/2	887.66	1/2	531.67	1/2	167.04	1/2	20.87	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,957.91	3/4	1,594.31	3/4	1,235.22	3/4	880.30	3/4	524.07	3/4	159.44	3/4	19.67	3/4	3/4	3/4	3/4	3/4	3/4
11	1,950.34	11	1,586.75	11	1,227.66	11	872.94	11	516.48	11	151.84	11	18.47	11	11	11	11	11	11
1/4	1,942.76	1/4	1,579.20	1/4	1,220.10	1/4	865.58	1/4	508.88	1/4	144.56	1/4	17.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,935.19	1/2	1,571.65	1/2	1,212.54	1/2	858.23	1/2	501.28	1/2	137.28	1/2	16.07	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,927.61	3/4	1,564.09	3/4	1,204.98	3/4	850.87	3/4	493.69	3/4	130.00	3/4	14.87	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW  
CALCULATED: 06/25/2009 CL  
PRINTED: 06/25/2009 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2009

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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





# BARGE "KIRBY 28107"

3 STBD

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	2,305.20	0	1,940.43	0	1,575.67	0	1,214.78	0	851.06	0	486.32	0	122.78	0	0	0	0	0	0
1/4	2,297.60	1/4	1,932.83	1/4	1,568.07	1/4	1,207.18	1/4	843.48	1/4	478.72	1/4	116.45	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,290.00	1/2	1,925.24	1/2	1,560.47	1/2	1,199.58	1/2	835.89	1/2	471.12	1/2	110.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,282.40	3/4	1,917.64	3/4	1,552.87	3/4	1,191.98	3/4	828.30	3/4	463.52	3/4	103.79	3/4	3/4	3/4	3/4	3/4	3/4
1	2,274.80	1	1,910.04	1	1,545.27	1	1,184.38	1	820.72	1	455.92	1	97.45	1	1	1	1	1	1
1 1/4	2,267.20	1 1/4	1,902.44	1 1/4	1,537.67	1 1/4	1,176.78	1 1/4	813.12	1 1/4	448.32	1 1/4	92.39	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,259.60	1 1/2	1,894.84	1 1/2	1,530.07	1 1/2	1,169.18	1 1/2	805.52	1 1/2	440.72	1 1/2	87.33	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,252.00	3/4	1,887.24	3/4	1,522.47	3/4	1,161.58	3/4	797.92	3/4	433.12	3/4	82.27	3/4	3/4	3/4	3/4	3/4	3/4
2	2,244.40	2	1,879.64	2	1,514.87	2	1,153.98	2	790.32	2	425.52	2	77.21	2	2	2	2	2	2
1 1/4	2,236.80	1 1/4	1,872.04	1 1/4	1,507.27	1 1/4	1,146.39	1 1/4	782.72	1 1/4	417.92	1 1/4	73.43	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,229.20	1 1/2	1,864.44	1 1/2	1,499.67	1 1/2	1,138.80	1 1/2	775.12	1 1/2	410.32	1 1/2	69.65	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,221.61	3/4	1,856.84	3/4	1,492.08	3/4	1,131.22	3/4	767.52	3/4	402.72	3/4	65.87	3/4	3/4	3/4	3/4	3/4	3/4
3	2,214.01	3	1,849.24	3	1,484.48	3	1,123.63	3	759.92	3	395.12	3	62.08	3	3	3	3	3	3
1 1/4	2,206.41	1 1/4	1,841.64	1 1/4	1,476.96	1 1/4	1,116.06	1 1/4	752.32	1 1/4	387.52	1 1/4	59.59	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,198.81	1 1/2	1,834.04	1 1/2	1,469.44	1 1/2	1,108.48	1 1/2	744.72	1 1/2	379.92	1 1/2	57.09	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,191.21	3/4	1,826.44	3/4	1,461.92	3/4	1,100.91	3/4	737.12	3/4	372.32	3/4	54.59	3/4	3/4	3/4	3/4	3/4	3/4
4	2,183.61	4	1,818.85	4	1,454.40	4	1,093.34	4	729.52	4	364.72	4	52.09	4	4	4	4	4	4
1 1/4	2,176.01	1 1/4	1,811.25	1 1/4	1,446.97	1 1/4	1,085.77	1 1/4	721.92	1 1/4	357.12	1 1/4	50.89	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,168.41	1 1/2	1,803.65	1 1/2	1,439.53	1 1/2	1,078.20	1 1/2	714.32	1 1/2	349.52	1 1/2	49.69	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,160.81	3/4	1,796.05	3/4	1,432.09	3/4	1,070.63	3/4	706.72	3/4	341.92	3/4	48.50	3/4	3/4	3/4	3/4	3/4	3/4
5	2,153.21	5	1,788.45	5	1,424.65	5	1,063.06	5	699.12	5	334.32	5	47.30	5	5	5	5	5	5
1 1/4	2,145.61	1 1/4	1,780.85	1 1/4	1,417.22	1 1/4	1,055.48	1 1/4	691.52	1 1/4	326.72	1 1/4	46.11	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,138.01	1 1/2	1,773.25	1 1/2	1,409.78	1 1/2	1,047.91	1 1/2	683.92	1 1/2	319.12	1 1/2	44.92	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,130.42	3/4	1,765.65	3/4	1,402.34	3/4	1,040.34	3/4	676.32	3/4	311.52	3/4	43.73	3/4	3/4	3/4	3/4	3/4	3/4
6	2,122.82	6	1,758.05	6	1,394.91	6	1,032.77	6	668.72	6	303.92	6	42.54	6	6	6	6	6	6
1 1/4	2,115.22	1 1/4	1,750.45	1 1/4	1,387.47	1 1/4	1,025.20	1 1/4	661.12	1 1/4	296.32	1 1/4	41.35	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,107.62	1 1/2	1,742.85	1 1/2	1,380.03	1 1/2	1,017.63	1 1/2	653.52	1 1/2	288.72	1 1/2	40.16	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,100.02	3/4	1,735.25	3/4	1,372.59	3/4	1,010.06	3/4	645.92	3/4	281.12	3/4	38.97	3/4	3/4	3/4	3/4	3/4	3/4
7	2,092.42	7	1,727.65	7	1,365.16	7	1,002.49	7	638.32	7	273.52	7	37.78	7	7	7	7	7	7
1 1/4	2,084.82	1 1/4	1,720.05	1 1/4	1,357.72	1 1/4	994.92	1 1/4	630.72	1 1/4	265.92	1 1/4	36.59	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,077.22	1 1/2	1,712.45	1 1/2	1,350.28	1 1/2	987.35	1 1/2	623.12	1 1/2	258.32	1 1/2	35.40	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,069.62	3/4	1,704.86	3/4	1,342.84	3/4	979.78	3/4	615.52	3/4	250.72	3/4	34.21	3/4	3/4	3/4	3/4	3/4	3/4
8	2,062.02	8	1,697.26	8	1,335.41	8	972.21	8	607.92	8	243.12	8	33.02	8	8	8	8	8	8
1 1/4	2,054.42	1 1/4	1,689.66	1 1/4	1,327.97	1 1/4	964.63	1 1/4	600.32	1 1/4	235.52	1 1/4	31.83	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,046.83	1 1/2	1,682.06	1 1/2	1,320.53	1 1/2	957.06	1 1/2	592.72	1 1/2	227.92	1 1/2	30.64	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,039.23	3/4	1,674.46	3/4	1,313.09	3/4	949.49	3/4	585.12	3/4	220.32	3/4	29.45	3/4	3/4	3/4	3/4	3/4	3/4
9	2,031.63	9	1,666.86	9	1,305.65	9	941.92	9	577.52	9	212.72	9	28.26	9	9	9	9	9	9
1 1/4	2,024.03	1 1/4	1,659.26	1 1/4	1,298.14	1 1/4	934.35	1 1/4	569.92	1 1/4	205.12	1 1/4	27.07	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	2,016.43	1 1/2	1,651.66	1 1/2	1,290.62	1 1/2	926.78	1 1/2	562.32	1 1/2	197.52	1 1/2	25.88	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	2,008.83	3/4	1,644.06	3/4	1,283.10	3/4	919.21	3/4	554.72	3/4	189.92	3/4	24.69	3/4	3/4	3/4	3/4	3/4	3/4
10	2,001.23	10	1,636.46	10	1,275.58	10	911.64	10	547.12	10	182.32	10	23.50	10	10	10	10	10	10
1 1/4	1,993.63	1 1/4	1,628.86	1 1/4	1,267.98	1 1/4	904.07	1 1/4	539.52	1 1/4	174.72	1 1/4	22.31	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,986.03	1 1/2	1,621.26	1 1/2	1,260.38	1 1/2	896.50	1 1/2	531.92	1 1/2	167.12	1 1/2	21.12	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,978.43	3/4	1,613.66	3/4	1,252.78	3/4	888.93	3/4	524.32	3/4	159.52	3/4	19.93	3/4	3/4	3/4	3/4	3/4	3/4
11	1,970.84	11	1,606.06	11	1,245.18	11	881.36	11	516.72	11	151.92	11	18.74	11	11	11	11	11	11
1 1/4	1,963.24	1 1/4	1,598.47	1 1/4	1,237.58	1 1/4	873.78	1 1/4	509.12	1 1/4	144.63	1 1/4	17.55	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,955.63	1 1/2	1,590.87	1 1/2	1,229.98	1 1/2	866.21	1 1/2	501.52	1 1/2	137.35	1 1/2	16.36	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,948.03	3/4	1,583.27	3/4	1,222.38	3/4	858.64	3/4	493.92	3/4	130.07	3/4	15.17	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2009 CL - SW  
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