



# BARGE "KIRBY 28110"

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

(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: 241'-06"

August 19, 2024

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

<http://www.pmacorp.net>



# BARGE "KIRBY 28110"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,814.81	0	4,487.26	0	4,151.85	0	3,793.28	0	3,426.70	0	3,060.11	0	2,693.53
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
1/2		1/2		1/2		1/2	4,801.14	1/2	4,473.81	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
3/4		3/4		3/4		3/4	4,793.67	3/4	4,467.05	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
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
1/4		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
1/2		1/2		1/2		1/2	4,771.25	1/2	4,446.76	1/2	4,108.15	1/2	3,747.46	1/2	3,380.88	1/2	3,014.29	1/2	2,647.70
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	3,006.65	3/4	2,640.07
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
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
1/2		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
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		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
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
1/2		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
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
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
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
1/2		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
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
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
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
1/2		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
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
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
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	2,869.18	1/4	2,502.60
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
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
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
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
1/2		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	2,831.00	1/2	2,464.41
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	3,189.95	3/4	2,823.36	3/4	2,456.77
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
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
1/2		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
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
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
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	2,777.54	1/4	2,410.95
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
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
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
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	2,380.40
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	2,372.77
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
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
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
1/2		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
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

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "KIRBY 28110"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,326.94	0	1,960.36	0	1,593.76	0	1,227.81	0	863.58	0	497.14	0	155.01	0		0			
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			
1/2	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			
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			
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			
1/4	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			
1/2	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			
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			
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			
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			
1/2	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			
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	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			
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			
1/2	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			
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			
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			
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			
1/2	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			
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			
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			
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			
1/2	2,158.92	1/2	1,792.34	1/2	1,425.90	1/2	1,060.69	1/2	695.69	1/2	334.24	1/2	17.84	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			
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			
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			
1/2	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			
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			
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			
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			
1/2	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			
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			
8	2,082.55	8	1,715.96	8	1,349.80	8	984.90	8	619.31	8	263.63	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			
1/2	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			
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			
9	2,052.00	9	1,685.41	9	1,319.36	9	954.58	9	588.76	9	235.97	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			
1/2	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			
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			
10	2,021.45	10	1,654.86	10	1,288.89	10	924.26	10	558.21	10	208.64	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			
1/2	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			
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			
11	1,990.91	11	1,624.31	11	1,258.36	11	893.93	11	527.65	11	181.66	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			
1/2	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			
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			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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



# BARGE "KIRBY 28110"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,815.04	0	4,487.57	0	4,152.24	0	3,793.75	0	3,427.25	0	3,060.76	0	2,694.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.20	1/4	4,480.85	1/4	4,144.99	1/4	3,786.11	1/4	3,419.62	1/4	3,053.12	1/4	2,686.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,801.37	1/2	4,474.12	1/2	4,137.73	1/2	3,778.48	1/2	3,411.98	1/2	3,045.49	1/2	2,678.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.90	3/4	4,467.36	3/4	4,130.44	3/4	3,770.84	3/4	3,404.35	3/4	3,037.85	3/4	2,671.36		
1	1	1	1	1	1	1	4,786.43	1	4,460.60	1	4,123.14	1	3,763.21	1	3,396.71	1	3,030.22	1	2,663.72		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.96	1/4	4,453.84	1/4	4,115.85	1/4	3,755.57	1/4	3,389.08	1/4	3,022.58	1/4	2,656.09		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,771.49	1/2	4,447.08	1/2	4,108.55	1/2	3,747.94	1/2	3,381.44	1/2	3,014.95	1/2	2,648.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.94	3/4	4,440.29	3/4	4,101.23	3/4	3,740.30	3/4	3,373.81	3/4	3,007.31	3/4	2,640.82		
2	2	2	2	2	2	2	4,756.39	2	4,433.49	2	4,093.90	2	3,732.67	2	3,366.17	2	2,999.68	2	2,633.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,748.84	1/4	4,426.69	1/4	4,086.57	1/4	3,725.03	1/4	3,358.54	1/4	2,992.04	1/4	2,625.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.29	1/2	4,419.89	1/2	4,079.24	1/2	3,717.40	1/2	3,350.90	1/2	2,984.41	1/2	2,617.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,734.01	3/4	4,413.06	3/4	4,071.88	3/4	3,709.76	3/4	3,343.27	3/4	2,976.77	3/4	2,610.28		
3	3	3	3	3	3	3	4,726.74	3	4,406.22	3	4,064.52	3	3,702.12	3	3,335.63	3	2,969.14	3	2,602.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,719.47	1/4	4,399.39	1/4	4,057.15	1/4	3,694.49	1/4	3,328.00	1/4	2,961.50	1/4	2,595.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,712.20	1/2	4,392.55	1/2	4,049.79	1/2	3,686.85	1/2	3,320.36	1/2	2,953.87	1/2	2,587.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,705.48	3/4	4,385.68	3/4	4,042.40	3/4	3,679.22	3/4	3,312.72	3/4	2,946.23	3/4	2,579.74		
4	4	4	4	4	4	4	4,698.76	4	4,378.81	4	4,035.00	4	3,671.58	4	3,305.09	4	2,938.59	4	2,572.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,692.04	1/4	4,371.94	1/4	4,027.60	1/4	3,663.95	1/4	3,297.45	1/4	2,930.96	1/4	2,564.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,685.32	1/2	4,365.06	1/2	4,020.21	1/2	3,656.31	1/2	3,289.82	1/2	2,923.32	1/2	2,556.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.85	3/4	4,358.15	3/4	4,012.77	3/4	3,648.68	3/4	3,282.18	3/4	2,915.69	3/4	2,549.19		
5	5	5	5	5	5	5	4,672.38	5	4,351.24	5	4,005.34	5	3,641.04	5	3,274.55	5	2,908.05	5	2,541.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.91	1/4	4,344.33	1/4	3,997.90	1/4	3,633.41	1/4	3,266.91	1/4	2,900.42	1/4	2,533.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,659.44	1/2	4,337.42	1/2	3,990.47	1/2	3,625.77	1/2	3,259.28	1/2	2,892.78	1/2	2,526.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,652.93	3/4	4,330.46	3/4	3,983.00	3/4	3,618.14	3/4	3,251.64	3/4	2,885.15	3/4	2,518.65		
6	6	6	6	6	6	6	4,646.42	6	4,323.49	6	3,975.53	6	3,610.50	6	3,244.01	6	2,877.51	6	2,511.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.91	1/4	4,316.52	1/4	3,968.05	1/4	3,602.87	1/4	3,236.37	1/4	2,869.88	1/4	2,503.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,633.41	1/2	4,309.55	1/2	3,960.58	1/2	3,595.23	1/2	3,228.74	1/2	2,862.24	1/2	2,495.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,626.86	3/4	4,302.50	3/4	3,953.07	3/4	3,587.60	3/4	3,221.10	3/4	2,854.61	3/4	2,488.11		
7	7	7	7	7	7	7	4,620.32	7	4,295.46	7	3,945.56	7	3,579.96	7	3,213.47	7	2,846.97	7	2,480.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,613.77	1/4	4,288.41	1/4	3,938.06	1/4	3,572.32	1/4	3,205.83	1/4	2,839.34	1/4	2,472.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,607.23	1/2	4,281.36	1/2	3,930.55	1/2	3,564.69	1/2	3,198.20	1/2	2,831.70	1/2	2,465.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,600.64	3/4	4,274.25	3/4	3,923.00	3/4	3,557.05	3/4	3,190.56	3/4	2,824.07	3/4	2,457.57		
8	8	8	8	8	8	8	4,594.06	8	4,267.15	8	3,915.45	8	3,549.42	8	3,182.92	8	2,816.43	8	2,449.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,587.48	1/4	4,260.04	1/4	3,907.91	1/4	3,541.78	1/4	3,175.29	1/4	2,808.79	1/4	2,442.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,580.90	1/2	4,252.93	1/2	3,900.36	1/2	3,534.15	1/2	3,167.65	1/2	2,801.16	1/2	2,434.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,574.28	3/4	4,245.79	3/4	3,892.78	3/4	3,526.51	3/4	3,160.02	3/4	2,793.52	3/4	2,427.03		
9	9	9	9	9	9	9	4,567.66	9	4,238.64	9	3,885.19	9	3,518.88	9	3,152.38	9	2,785.89	9	2,419.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,561.04	1/4	4,231.50	1/4	3,877.61	1/4	3,511.24	1/4	3,144.75	1/4	2,778.25	1/4	2,411.76		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,554.42	1/2	4,224.36	1/2	3,870.03	1/2	3,503.61	1/2	3,137.11	1/2	2,770.62	1/2	2,404.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,547.76	3/4	4,217.17	3/4	3,862.41	3/4	3,495.97	3/4	3,129.48	3/4	2,762.98	3/4	2,396.49		
10	10	10	10	10	10	10	4,541.11	10	4,209.99	10	3,854.79	10	3,488.34	10	3,121.84	10	2,755.35	10	2,388.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,534.45	1/4	4,202.81	1/4	3,847.18	1/4	3,480.70	1/4	3,114.21	1/4	2,747.71	1/4	2,381.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,527.79	1/2	4,195.63	1/2	3,839.56	1/2	3,473.07	1/2	3,106.57	1/2	2,740.08	1/2	2,373.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.10	3/4	4,188.41	3/4	3,831.93	3/4	3,465.43	3/4	3,098.94	3/4	2,732.44	3/4	2,365.95		
11	11	11	11	11	11	11	4,514.41	11	4,181.19	11	3,824.29	11	3,457.80	11	3,091.30	11	2,724.81	11	2,358.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,507.71	1/4	4,173.97	1/4	3,816.66	1/4	3,450.16	1/4	3,083.67	1/4	2,717.17	1/4	2,350.68		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,828.71	1/2	4,501.02	1/2	4,166.75	1/2	3,809.02	1/2	3,442.52	1/2	3,076.03	1/2	2,709.54	1/2	2,343.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,821.87	3/4	4,494.30	3/4	4,159.50	3/4	3,801.38	3/4	3,434.89	3/4	3,068.39	3/4	2,701.90	3/4	2,335.41

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'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 28110"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,327.77	0	1,961.28	0	1,594.77	0	1,228.91	0	863.48	0	497.02	0	154.97	0		0			
1/4	2,320.14	1/4	1,953.64	1/4	1,587.13	1/4	1,221.27	1/4	855.86	1/4	489.40	1/4	148.36	1/4		1/4			
1/2	2,312.50	1/2	1,946.00	1/2	1,579.50	1/2	1,213.64	1/2	848.23	1/2	481.79	1/2	141.74	1/2		1/2			
3/4	2,304.86	3/4	1,938.37	3/4	1,571.86	3/4	1,206.00	3/4	840.60	3/4	474.24	3/4	135.22	3/4		3/4			
1	2,297.23	1	1,930.73	1	1,564.22	1	1,198.36	1	832.96	1	466.68	1	128.70	1		1			
1/4	2,289.59	1/4	1,923.10	1/4	1,556.59	1/4	1,190.73	1/4	825.33	1/4	459.13	1/4	122.17	1/4		1/4			
1/2	2,281.96	1/2	1,915.46	1/2	1,548.95	1/2	1,183.09	1/2	817.69	1/2	451.58	1/2	115.65	1/2		1/2			
3/4	2,274.32	3/4	1,907.83	3/4	1,541.32	3/4	1,175.47	3/4	810.05	3/4	444.11	3/4	109.23	3/4		3/4			
2	2,266.69	2	1,900.19	2	1,533.68	2	1,167.84	2	802.42	2	436.65	2	102.80	2		2			
1/4	2,259.05	1/4	1,892.55	1/4	1,526.05	1/4	1,160.22	1/4	794.78	1/4	429.18	1/4	96.37	1/4		1/4			
1/2	2,251.42	1/2	1,884.92	1/2	1,518.41	1/2	1,152.60	1/2	787.15	1/2	421.71	1/2	89.95	1/2		1/2			
3/4	2,243.78	3/4	1,877.28	3/4	1,510.77	3/4	1,144.99	3/4	779.51	3/4	414.33	3/4	83.63	3/4		3/4			
3	2,236.15	3	1,869.65	3	1,503.14	3	1,137.38	3	771.87	3	406.95	3	77.31	3		3			
1/4	2,228.51	1/4	1,862.01	1/4	1,495.50	1/4	1,129.77	1/4	764.24	1/4	399.57	1/4	70.98	1/4		1/4			
1/2	2,220.88	1/2	1,854.38	1/2	1,487.87	1/2	1,122.16	1/2	756.60	1/2	392.19	1/2	64.66	1/2		1/2			
3/4	2,213.24	3/4	1,846.74	3/4	1,480.25	3/4	1,114.55	3/4	748.97	3/4	384.89	3/4	58.46	3/4		3/4			
4	2,205.61	4	1,839.11	4	1,472.62	4	1,106.95	4	741.33	4	377.59	4	52.26	4		4			
1/4	2,197.97	1/4	1,831.47	1/4	1,465.00	1/4	1,099.34	1/4	733.70	1/4	370.30	1/4	46.06	1/4		1/4			
1/2	2,190.34	1/2	1,823.83	1/2	1,457.38	1/2	1,091.73	1/2	726.06	1/2	363.00	1/2	39.85	1/2		1/2			
3/4	2,182.70	3/4	1,816.20	3/4	1,449.77	3/4	1,084.13	3/4	718.42	3/4	355.79	3/4	34.35	3/4		3/4			
5	2,175.06	5	1,808.56	5	1,442.16	5	1,076.52	5	710.79	5	348.58	5	28.84	5		5			
1/4	2,167.43	1/4	1,800.93	1/4	1,434.56	1/4	1,068.91	1/4	703.15	1/4	341.37	1/4	23.34	1/4		1/4			
1/2	2,159.79	1/2	1,793.29	1/2	1,426.95	1/2	1,061.30	1/2	695.52	1/2	334.15	1/2	17.83	1/2		1/2			
3/4	2,152.16	3/4	1,785.66	3/4	1,419.34	3/4	1,053.70	3/4	687.88	3/4	327.03	3/4	14.27	3/4		3/4			
6	2,144.52	6	1,778.02	6	1,411.73	6	1,046.09	6	680.24	6	319.90	6	10.71	6		6			
1/4	2,136.89	1/4	1,770.39	1/4	1,404.12	1/4	1,038.48	1/4	672.61	1/4	312.77	1/4	7.15	1/4		1/4			
1/2	2,129.25	1/2	1,762.75	1/2	1,396.52	1/2	1,030.88	1/2	664.97	1/2	305.65	1/2	3.59	1/2		1/2			
3/4	2,121.62	3/4	1,755.11	3/4	1,388.91	3/4	1,023.27	3/4	657.34	3/4	298.60	3/4		3/4		3/4			
7	2,113.98	7	1,747.48	7	1,381.30	7	1,015.66	7	649.70	7	291.56	7		7		7			
1/4	2,106.35	1/4	1,739.84	1/4	1,373.69	1/4	1,008.06	1/4	642.06	1/4	284.52	1/4		1/4		1/4			
1/2	2,098.71	1/2	1,732.21	1/2	1,366.08	1/2	1,000.45	1/2	634.43	1/2	277.48	1/2		1/2		1/2			
3/4	2,091.08	3/4	1,724.57	3/4	1,358.47	3/4	992.84	3/4	626.79	3/4	270.52	3/4		3/4		3/4			
8	2,083.44	8	1,716.94	8	1,350.87	8	985.23	8	619.16	8	263.56	8		8		8			
1/4	2,075.81	1/4	1,709.30	1/4	1,343.26	1/4	977.63	1/4	611.52	1/4	256.61	1/4		1/4		1/4			
1/2	2,068.17	1/2	1,701.66	1/2	1,335.65	1/2	970.02	1/2	603.88	1/2	249.65	1/2		1/2		1/2			
3/4	2,060.54	3/4	1,694.03	3/4	1,328.04	3/4	962.41	3/4	596.25	3/4	242.78	3/4		3/4		3/4			
9	2,052.90	9	1,686.39	9	1,320.43	9	954.81	9	588.61	9	235.90	9		9		9			
1/4	2,045.26	1/4	1,678.76	1/4	1,312.82	1/4	947.20	1/4	580.97	1/4	229.03	1/4		1/4		1/4			
1/2	2,037.63	1/2	1,671.12	1/2	1,305.21	1/2	939.59	1/2	573.34	1/2	222.16	1/2		1/2		1/2			
3/4	2,029.99	3/4	1,663.49	3/4	1,297.59	3/4	931.99	3/4	565.70	3/4	215.37	3/4		3/4		3/4			
10	2,022.36	10	1,655.85	10	1,289.97	10	924.38	10	558.07	10	208.59	10		10		10			
1/4	2,014.72	1/4	1,648.22	1/4	1,282.35	1/4	916.77	1/4	550.43	1/4	201.80	1/4		1/4		1/4			
1/2	2,007.09	1/2	1,640.58	1/2	1,274.73	1/2	909.16	1/2	542.79	1/2	195.01	1/2		1/2		1/2			
3/4	1,999.45	3/4	1,632.94	3/4	1,267.09	3/4	901.56	3/4	535.16	3/4	188.31	3/4		3/4		3/4			
11	1,991.82	11	1,625.31	11	1,259.45	11	893.95	11	527.52	11	181.61	11		11		11			
1/4	1,984.18	1/4	1,617.67	1/4	1,251.82	1/4	886.34	1/4	519.88	1/4	174.90	1/4		1/4		1/4			
1/2	1,976.55	1/2	1,610.04	1/2	1,244.18	1/2	878.73	1/2	512.25	1/2	168.20	1/2		1/2		1/2			
3/4	1,968.91	3/4	1,602.40	3/4	1,236.54	3/4	871.10	3/4	504.63	3/4	161.59	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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



# BARGE "KIRBY 28110"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,846.14	0	4,521.99	0	4,190.78	0	3,836.19	0	3,472.48	0	3,108.76	0	2,745.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.54	1/4	4,515.35	1/4	4,183.62	1/4	3,828.61	1/4	3,464.90	1/4	3,101.18	1/4	2,737.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,833.76	1/2	4,508.67	1/2	4,176.42	1/2	3,821.04	1/2	3,457.32	1/2	3,093.61	1/2	2,729.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,826.97	3/4	4,502.00	3/4	4,169.22	3/4	3,813.46	3/4	3,449.74	3/4	3,086.03	3/4	2,722.31
1		1		1		1	4,820.19	1	4,495.33	1	4,162.02	1	3,805.88	1	3,442.17	1	3,078.45	1	2,714.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,813.41	1/4	4,488.65	1/4	4,154.81	1/4	3,798.30	1/4	3,434.59	1/4	3,070.87	1/4	2,707.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,806.00	1/2	4,481.94	1/2	4,147.58	1/2	3,790.73	1/2	3,427.01	1/2	3,063.30	1/2	2,699.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,798.58	3/4	4,475.24	3/4	4,140.34	3/4	3,783.15	3/4	3,419.43	3/4	3,055.72	3/4	2,692.00
2		2		2		2	4,791.17	2	4,468.53	2	4,133.10	2	3,775.57	2	3,411.86	2	3,048.14	2	2,684.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.75	1/4	4,461.82	1/4	4,125.86	1/4	3,767.99	1/4	3,404.28	1/4	3,040.56	1/4	2,676.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,776.26	1/2	4,455.07	1/2	4,118.59	1/2	3,760.42	1/2	3,396.70	1/2	3,032.99	1/2	2,669.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,768.77	3/4	4,448.33	3/4	4,111.31	3/4	3,752.84	3/4	3,389.12	3/4	3,025.41	3/4	2,661.69
3		3		3		3	4,761.27	3	4,441.58	3	4,104.04	3	3,745.26	3	3,381.55	3	3,017.83	3	2,654.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,753.78	1/4	4,434.84	1/4	4,096.77	1/4	3,737.68	1/4	3,373.97	1/4	3,010.25	1/4	2,646.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,746.57	1/2	4,428.05	1/2	4,089.46	1/2	3,730.11	1/2	3,366.39	1/2	3,002.68	1/2	2,638.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,739.35	3/4	4,421.27	3/4	4,082.15	3/4	3,722.53	3/4	3,358.81	3/4	2,995.10	3/4	2,631.38
4		4		4		4	4,732.14	4	4,414.49	4	4,074.85	4	3,714.95	4	3,351.24	4	2,987.52	4	2,623.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,724.92	1/4	4,407.70	1/4	4,067.54	1/4	3,707.37	1/4	3,343.66	1/4	2,979.94	1/4	2,616.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,718.25	1/2	4,400.88	1/2	4,060.20	1/2	3,699.80	1/2	3,336.08	1/2	2,972.37	1/2	2,608.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,711.58	3/4	4,394.06	3/4	4,052.86	3/4	3,692.22	3/4	3,328.50	3/4	2,964.79	3/4	2,601.07
5		5		5		5	4,704.91	5	4,387.24	5	4,045.52	5	3,684.64	5	3,320.93	5	2,957.21	5	2,593.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,698.24	1/4	4,380.43	1/4	4,038.18	1/4	3,677.06	1/4	3,313.35	1/4	2,949.63	1/4	2,585.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,691.82	1/2	4,373.57	1/2	4,030.80	1/2	3,669.49	1/2	3,305.77	1/2	2,942.06	1/2	2,578.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.40	3/4	4,366.71	3/4	4,023.42	3/4	3,661.91	3/4	3,298.19	3/4	2,934.48	3/4	2,570.76
6		6		6		6	4,678.98	6	4,359.85	6	4,016.05	6	3,654.33	6	3,290.62	6	2,926.90	6	2,563.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,672.56	1/4	4,353.00	1/4	4,008.67	1/4	3,646.76	1/4	3,283.04	1/4	2,919.32	1/4	2,555.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,666.10	1/2	4,346.08	1/2	4,001.25	1/2	3,639.18	1/2	3,275.46	1/2	2,911.75	1/2	2,548.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,659.64	3/4	4,339.17	3/4	3,993.84	3/4	3,631.60	3/4	3,267.89	3/4	2,904.17	3/4	2,540.45
7		7		7		7	4,653.18	7	4,332.25	7	3,986.42	7	3,624.02	7	3,260.31	7	2,896.59	7	2,532.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,646.72	1/4	4,325.34	1/4	3,979.01	1/4	3,616.45	1/4	3,252.73	1/4	2,889.02	1/4	2,525.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,640.23	1/2	4,318.34	1/2	3,971.56	1/2	3,608.87	1/2	3,245.15	1/2	2,881.44	1/2	2,517.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,633.73	3/4	4,311.35	3/4	3,964.11	3/4	3,601.29	3/4	3,237.58	3/4	2,873.86	3/4	2,510.15
8		8		8		8	4,627.24	8	4,304.35	8	3,956.65	8	3,593.71	8	3,230.00	8	2,866.28	8	2,502.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,620.74	1/4	4,297.36	1/4	3,949.20	1/4	3,586.14	1/4	3,222.42	1/4	2,858.71	1/4	2,494.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,614.21	1/2	4,290.30	1/2	3,941.71	1/2	3,578.56	1/2	3,214.84	1/2	2,851.13	1/2	2,487.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,607.68	3/4	4,283.25	3/4	3,934.22	3/4	3,570.98	3/4	3,207.27	3/4	2,843.55	3/4	2,479.84
9		9		9		9	4,601.15	9	4,276.20	9	3,926.73	9	3,563.40	9	3,199.69	9	2,835.97	9	2,472.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,594.62	1/4	4,269.15	1/4	3,919.24	1/4	3,555.83	1/4	3,192.11	1/4	2,828.40	1/4	2,464.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,588.05	1/2	4,262.06	1/2	3,911.72	1/2	3,548.25	1/2	3,184.53	1/2	2,820.82	1/2	2,457.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,581.48	3/4	4,254.97	3/4	3,904.19	3/4	3,540.67	3/4	3,176.96	3/4	2,813.24	3/4	2,449.53
10		10		10		10	4,574.91	10	4,247.88	10	3,896.67	10	3,533.09	10	3,169.38	10	2,805.66	10	2,441.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,568.34	1/4	4,240.79	1/4	3,889.14	1/4	3,525.52	1/4	3,161.80	1/4	2,798.09	1/4	2,434.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.73	1/2	4,233.66	1/2	3,881.58	1/2	3,517.94	1/2	3,154.22	1/2	2,790.51	1/2	2,426.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,555.13	3/4	4,226.53	3/4	3,874.02	3/4	3,510.36	3/4	3,146.65	3/4	2,782.93	3/4	2,419.22
11		11		11		11	4,548.52	11	4,219.40	11	3,866.47	11	3,502.78	11	3,139.07	11	2,775.35	11	2,411.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,541.91	1/4	4,212.28	1/4	3,858.91	1/4	3,495.21	1/4	3,131.49	1/4	2,767.78	1/4	2,404.06
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,535.27	1/2	4,205.11	1/2	3,851.33	1/2	3,487.63	1/2	3,123.91	1/2	2,760.20	1/2	2,396.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,528.63	3/4	4,197.95	3/4	3,843.76	3/4	3,480.05	3/4	3,116.34	3/4	2,752.62	3/4	2,388.91

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



# BARGE "KIRBY 28110"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,381.33	0	2,017.61	0	1,653.89	0	1,294.04	0	943.70	0	583.35	0	219.59	0		0			
1/4	2,373.75	1/4	2,010.03	1/4	1,646.31	1/4	1,286.46	1/4	936.45	1/4	575.77	1/4	212.01	1/4		1/4			
1/2	2,366.17	1/2	2,002.46	1/2	1,638.73	1/2	1,278.89	1/2	929.19	1/2	568.19	1/2	204.43	1/2		1/2			
3/4	2,358.60	3/4	1,994.88	3/4	1,631.15	3/4	1,271.31	3/4	921.93	3/4	560.61	3/4	196.86	3/4		3/4			
1	2,351.02	1	1,987.30	1	1,623.58	1	1,263.73	1	914.66	1	553.03	1	189.28	1		1			
1/4	2,343.44	1/4	1,979.72	1/4	1,616.00	1/4	1,256.15	1/4	907.40	1/4	545.46	1/4	181.70	1/4		1/4			
1/2	2,335.87	1/2	1,972.15	1/2	1,608.42	1/2	1,248.72	1/2	900.12	1/2	537.88	1/2	174.14	1/2		1/2			
3/4	2,328.29	3/4	1,964.57	3/4	1,600.84	3/4	1,241.30	3/4	892.84	3/4	530.30	3/4	166.57	3/4		3/4			
2	2,320.71	2	1,956.99	2	1,593.27	2	1,233.87	2	885.57	2	522.72	2	159.00	2		2			
1/4	2,313.13	1/4	1,949.41	1/4	1,585.69	1/4	1,226.44	1/4	878.29	1/4	515.14	1/4	151.43	1/4		1/4			
1/2	2,305.56	1/2	1,941.84	1/2	1,578.11	1/2	1,219.18	1/2	870.86	1/2	507.56	1/2	143.87	1/2		1/2			
3/4	2,297.98	3/4	1,934.26	3/4	1,570.53	3/4	1,211.91	3/4	863.44	3/4	499.99	3/4	136.32	3/4		3/4			
3	2,290.40	3	1,926.68	3	1,562.96	3	1,204.65	3	856.01	3	492.41	3	128.76	3		3			
1/4	2,282.82	1/4	1,919.10	1/4	1,555.38	1/4	1,197.38	1/4	848.58	1/4	484.83	1/4	121.20	1/4		1/4			
1/2	2,275.25	1/2	1,911.53	1/2	1,547.88	1/2	1,190.13	1/2	841.00	1/2	477.25	1/2	113.67	1/2		1/2			
3/4	2,267.67	3/4	1,903.95	3/4	1,540.39	3/4	1,182.88	3/4	833.43	3/4	469.67	3/4	106.13	3/4		3/4			
4	2,260.09	4	1,896.37	4	1,532.89	4	1,175.63	4	825.85	4	462.09	4	98.59	4		4			
1/4	2,252.51	1/4	1,888.79	1/4	1,525.39	1/4	1,168.38	1/4	818.27	1/4	454.52	1/4	91.06	1/4		1/4			
1/2	2,244.94	1/2	1,881.22	1/2	1,517.98	1/2	1,161.14	1/2	810.69	1/2	446.94	1/2	83.55	1/2		1/2			
3/4	2,237.36	3/4	1,873.64	3/4	1,510.56	3/4	1,153.89	3/4	803.11	3/4	439.36	3/4	76.05	3/4		3/4			
5	2,229.78	5	1,866.06	5	1,503.15	5	1,146.64	5	795.54	5	431.78	5	68.54	5		5			
1/4	2,222.20	1/4	1,858.48	1/4	1,495.73	1/4	1,139.39	1/4	787.96	1/4	424.20	1/4	61.04	1/4		1/4			
1/2	2,214.63	1/2	1,850.91	1/2	1,488.31	1/2	1,132.15	1/2	780.38	1/2	416.62	1/2	54.14	1/2		1/2			
3/4	2,207.05	3/4	1,843.33	3/4	1,480.90	3/4	1,124.90	3/4	772.80	3/4	409.04	3/4	47.25	3/4		3/4			
6	2,199.47	6	1,835.75	6	1,473.48	6	1,117.65	6	765.22	6	401.47	6	40.35	6		6			
1/4	2,191.89	1/4	1,828.17	1/4	1,466.07	1/4	1,110.40	1/4	757.65	1/4	393.89	1/4	33.45	1/4		1/4			
1/2	2,184.32	1/2	1,820.59	1/2	1,458.65	1/2	1,103.16	1/2	750.07	1/2	386.31	1/2	28.40	1/2		1/2			
3/4	2,176.74	3/4	1,813.02	3/4	1,451.24	3/4	1,095.91	3/4	742.49	3/4	378.73	3/4	23.35	3/4		3/4			
7	2,169.16	7	1,805.44	7	1,443.82	7	1,088.66	7	734.91	7	371.15	7	18.30	7		7			
1/4	2,161.58	1/4	1,797.86	1/4	1,436.41	1/4	1,081.41	1/4	727.33	1/4	363.57	1/4	13.25	1/4		1/4			
1/2	2,154.01	1/2	1,790.28	1/2	1,428.99	1/2	1,074.17	1/2	719.76	1/2	356.00	1/2		1/2		1/2			
3/4	2,146.43	3/4	1,782.71	3/4	1,421.57	3/4	1,066.92	3/4	712.18	3/4	348.42	3/4		3/4		3/4			
8	2,138.85	8	1,775.13	8	1,414.16	8	1,059.67	8	704.60	8	340.84	8		8		8			
1/4	2,131.28	1/4	1,767.55	1/4	1,406.74	1/4	1,052.42	1/4	697.02	1/4	333.26	1/4		1/4		1/4			
1/2	2,123.70	1/2	1,759.97	1/2	1,399.33	1/2	1,045.18	1/2	689.44	1/2	325.68	1/2		1/2		1/2			
3/4	2,116.12	3/4	1,752.40	3/4	1,391.91	3/4	1,037.93	3/4	681.87	3/4	318.10	3/4		3/4		3/4			
9	2,108.54	9	1,744.82	9	1,384.49	9	1,030.68	9	674.29	9	310.53	9		9		9			
1/4	2,100.97	1/4	1,737.24	1/4	1,377.08	1/4	1,023.43	1/4	666.71	1/4	302.95	1/4		1/4		1/4			
1/2	2,093.39	1/2	1,729.66	1/2	1,369.58	1/2	1,016.18	1/2	659.13	1/2	295.37	1/2		1/2		1/2			
3/4	2,085.81	3/4	1,722.09	3/4	1,362.08	3/4	1,008.94	3/4	651.55	3/4	287.79	3/4		3/4		3/4			
10	2,078.23	10	1,714.51	10	1,354.59	10	1,001.69	10	643.98	10	280.21	10		10		10			
1/4	2,070.66	1/4	1,706.93	1/4	1,347.09	1/4	994.44	1/4	636.40	1/4	272.63	1/4		1/4		1/4			
1/2	2,063.08	1/2	1,699.35	1/2	1,339.51	1/2	987.19	1/2	628.82	1/2	265.06	1/2		1/2		1/2			
3/4	2,055.50	3/4	1,691.78	3/4	1,331.93	3/4	979.95	3/4	621.24	3/4	257.48	3/4		3/4		3/4			
11	2,047.92	11	1,684.20	11	1,324.35	11	972.70	11	613.66	11	249.90	11		11		11			
1/4	2,040.35	1/4	1,676.62	1/4	1,316.78	1/4	965.45	1/4	606.08	1/4	242.32	1/4		1/4		1/4			
1/2	2,032.77	1/2	1,669.04	1/2	1,309.20	1/2	958.20	1/2	598.50	1/2	234.74	1/2		1/2		1/2			
3/4	2,025.19	3/4	1,661.47	3/4	1,301.62	3/4	950.95	3/4	590.93	3/4	227.16	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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





# BARGE "KIRBY 28110"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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	4,545.40	0	4,214.64	0	3,860.36	0	3,496.56	0	3,132.76	0	2,768.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,538.76	1/4	4,207.47	1/4	3,852.78	1/4	3,488.98	1/4	3,125.18	1/4	2,761.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,857.40	1/2	4,532.12	1/2	4,200.31	1/2	3,845.21	1/2	3,481.41	1/2	3,117.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,850.61	3/4	4,525.44	3/4	4,193.10	3/4	3,837.63	3/4	3,473.83	3/4	3,110.02
1		1		1		1		1	4,843.83	1	4,518.77	1	4,185.90	1	3,830.05	1	3,466.25	1	3,102.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,837.04	1/4	4,512.09	1/4	4,178.70	1/4	3,822.47	1/4	3,458.67	1/4	3,094.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,830.26	1/2	4,505.42	1/2	4,171.49	1/2	3,814.89	1/2	3,451.09	1/2	3,087.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,822.84	3/4	4,498.71	3/4	4,164.25	3/4	3,807.31	3/4	3,443.51	3/4	3,079.71
2		2		2		2		2	4,815.42	2	4,492.00	2	4,157.01	2	3,799.73	2	3,435.93	2	3,072.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,808.01	1/4	4,485.29	1/4	4,149.77	1/4	3,792.15	1/4	3,428.35	1/4	3,064.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,800.59	1/2	4,478.57	1/2	4,142.53	1/2	3,784.57	1/2	3,420.77	1/2	3,056.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,793.10	3/4	4,471.83	3/4	4,135.26	3/4	3,776.99	3/4	3,413.19	3/4	3,049.39
3		3		3		3		3	4,785.60	3	4,465.08	3	4,127.98	3	3,769.42	3	3,405.61	3	3,041.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.11	1/4	4,458.33	1/4	4,120.71	1/4	3,761.84	1/4	3,398.03	1/4	3,034.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.61	1/2	4,451.58	1/2	4,113.43	1/2	3,754.26	1/2	3,390.46	1/2	3,026.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.40	3/4	4,444.80	3/4	4,106.12	3/4	3,746.68	3/4	3,382.88	3/4	3,019.07
4		4		4		4		4	4,756.18	4	4,438.02	4	4,098.82	4	3,739.10	4	3,375.30	4	3,011.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,748.96	1/4	4,431.23	1/4	4,091.51	1/4	3,731.52	1/4	3,367.72	1/4	3,003.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.74	1/2	4,424.45	1/2	4,084.20	1/2	3,723.94	1/2	3,360.14	1/2	2,996.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,735.07	3/4	4,417.63	3/4	4,076.86	3/4	3,716.36	3/4	3,352.56	3/4	2,988.76
5		5		5		5		5	4,728.40	5	4,410.80	5	4,069.52	5	3,708.78	5	3,344.98	5	2,981.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,721.73	1/4	4,403.98	1/4	4,062.17	1/4	3,701.20	1/4	3,337.40	1/4	2,973.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,715.06	1/2	4,397.16	1/2	4,054.83	1/2	3,693.62	1/2	3,329.82	1/2	2,966.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,708.63	3/4	4,390.30	3/4	4,047.45	3/4	3,686.04	3/4	3,322.24	3/4	2,958.44
6		6		6		6		6	4,702.21	6	4,383.44	6	4,040.07	6	3,678.46	6	3,314.66	6	2,950.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,695.79	1/4	4,376.58	1/4	4,032.69	1/4	3,670.89	1/4	3,307.08	1/4	2,943.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,689.37	1/2	4,369.73	1/2	4,025.31	1/2	3,663.31	1/2	3,299.50	1/2	2,935.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,682.91	3/4	4,362.81	3/4	4,017.90	3/4	3,655.73	3/4	3,291.93	3/4	2,928.12
7		7		7		7		7	4,676.45	7	4,355.89	7	4,010.48	7	3,648.15	7	3,284.35	7	2,920.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,669.99	1/4	4,348.97	1/4	4,003.06	1/4	3,640.57	1/4	3,276.77	1/4	2,912.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.53	1/2	4,342.06	1/2	3,995.65	1/2	3,632.99	1/2	3,269.19	1/2	2,905.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,657.03	3/4	4,335.06	3/4	3,988.19	3/4	3,625.41	3/4	3,261.61	3/4	2,897.81
8		8		8		8		8	4,650.53	8	4,328.06	8	3,980.74	8	3,617.83	8	3,254.03	8	2,890.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,644.04	1/4	4,321.07	1/4	3,973.28	1/4	3,610.25	1/4	3,246.45	1/4	2,882.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,637.54	1/2	4,314.07	1/2	3,965.83	1/2	3,602.67	1/2	3,238.87	1/2	2,875.07
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,631.01	3/4	4,307.02	3/4	3,958.34	3/4	3,595.09	3/4	3,231.29	3/4	2,867.49
9		9		9		9		9	4,624.47	9	4,299.96	9	3,950.85	9	3,587.51	9	3,223.71	9	2,859.91
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,617.94	1/4	4,292.91	1/4	3,943.36	1/4	3,579.94	1/4	3,216.13	1/4	2,852.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,611.41	1/2	4,285.85	1/2	3,935.87	1/2	3,572.36	1/2	3,208.55	1/2	2,844.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,604.84	3/4	4,278.76	3/4	3,928.34	3/4	3,564.78	3/4	3,200.98	3/4	2,837.17
10		10		10		10		10	4,598.26	10	4,271.67	10	3,920.81	10	3,557.20	10	3,193.40	10	2,829.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,591.69	1/4	4,264.58	1/4	3,913.28	1/4	3,549.62	1/4	3,185.82	1/4	2,822.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,585.12	1/2	4,257.49	1/2	3,905.75	1/2	3,542.04	1/2	3,178.24	1/2	2,814.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,578.51	3/4	4,250.36	3/4	3,898.19	3/4	3,534.46	3/4	3,170.66	3/4	2,806.86
11		11		11		11		11	4,571.91	11	4,243.23	11	3,890.63	11	3,526.88	11	3,163.08	11	2,799.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,565.30	1/4	4,236.10	1/4	3,883.08	1/4	3,519.30	1/4	3,155.50	1/4	2,791.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.69	1/2	4,228.97	1/2	3,875.52	1/2	3,511.72	1/2	3,147.92	1/2	2,784.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,552.05	3/4	4,221.80	3/4	3,867.94	3/4	3,504.14	3/4	3,140.34	3/4	2,776.54

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'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 28110"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN 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	2,405.16	0	2,041.36	0	1,677.54	0	1,317.61	0	954.80	0	591.07	0	227.22	0		0			
1/4	2,397.58	1/4	2,033.78	1/4	1,669.96	1/4	1,310.03	1/4	947.25	1/4	583.49	1/4	219.64	1/4		1/4		1/4	
1/2	2,390.00	1/2	2,026.20	1/2	1,662.38	1/2	1,302.45	1/2	939.69	1/2	575.91	1/2	212.06	1/2		1/2		1/2	
3/4	2,382.42	3/4	2,018.62	3/4	1,654.81	3/4	1,294.87	3/4	932.13	3/4	568.33	3/4	204.48	3/4		3/4		3/4	
1	2,374.84	1	2,011.04	1	1,647.23	1	1,287.29	1	924.56	1	560.75	1	196.90	1		1		1	
1/4	2,367.26	1/4	2,003.46	1/4	1,639.65	1/4	1,279.71	1/4	916.99	1/4	553.17	1/4	189.33	1/4		1/4		1/4	
1/2	2,359.68	1/2	1,995.88	1/2	1,632.07	1/2	1,272.13	1/2	909.42	1/2	545.59	1/2	181.75	1/2		1/2		1/2	
3/4	2,352.10	3/4	1,988.30	3/4	1,624.49	3/4	1,264.55	3/4	901.84	3/4	538.01	3/4	174.18	3/4		3/4		3/4	
2	2,344.53	2	1,980.72	2	1,616.91	2	1,256.97	2	894.26	2	530.43	2	166.61	2		2		2	
1/4	2,336.95	1/4	1,973.14	1/4	1,609.33	1/4	1,249.39	1/4	886.68	1/4	522.85	1/4	159.04	1/4		1/4		1/4	
1/2	2,329.37	1/2	1,965.56	1/2	1,601.75	1/2	1,241.81	1/2	879.10	1/2	515.27	1/2	151.47	1/2		1/2		1/2	
3/4	2,321.79	3/4	1,957.98	3/4	1,594.17	3/4	1,234.24	3/4	871.52	3/4	507.69	3/4	143.91	3/4		3/4		3/4	
3	2,314.21	3	1,950.40	3	1,586.59	3	1,226.68	3	863.94	3	500.11	3	136.35	3		3		3	
1/4	2,306.63	1/4	1,942.82	1/4	1,579.01	1/4	1,219.11	1/4	856.36	1/4	492.53	1/4	128.79	1/4		1/4		1/4	
1/2	2,299.05	1/2	1,935.24	1/2	1,571.43	1/2	1,211.54	1/2	848.78	1/2	484.94	1/2	121.23	1/2		1/2		1/2	
3/4	2,291.47	3/4	1,927.66	3/4	1,563.85	3/4	1,203.99	3/4	841.21	3/4	477.36	3/4	113.69	3/4		3/4		3/4	
4	2,283.89	4	1,920.08	4	1,556.44	4	1,196.44	4	833.63	4	469.78	4	106.15	4		4		4	
1/4	2,276.31	1/4	1,912.51	1/4	1,548.94	1/4	1,188.88	1/4	826.05	1/4	462.20	1/4	98.62	1/4		1/4		1/4	
1/2	2,268.73	1/2	1,904.93	1/2	1,541.44	1/2	1,181.33	1/2	818.47	1/2	454.62	1/2	91.08	1/2		1/2		1/2	
3/4	2,261.15	3/4	1,897.35	3/4	1,534.02	3/4	1,173.78	3/4	810.89	3/4	447.04	3/4	83.57	3/4		3/4		3/4	
5	2,253.58	5	1,889.77	5	1,526.60	5	1,166.23	5	803.31	5	439.46	5	76.07	5		5		5	
1/4	2,246.00	1/4	1,882.19	1/4	1,519.19	1/4	1,158.68	1/4	795.73	1/4	431.88	1/4	68.56	1/4		1/4		1/4	
1/2	2,238.42	1/2	1,874.61	1/2	1,511.77	1/2	1,151.13	1/2	788.15	1/2	424.30	1/2	61.06	1/2		1/2		1/2	
3/4	2,230.84	3/4	1,867.03	3/4	1,504.35	3/4	1,143.58	3/4	780.57	3/4	416.72	3/4	54.16	3/4		3/4		3/4	
6	2,223.26	6	1,859.45	6	1,496.93	6	1,136.03	6	772.99	6	409.14	6	47.26	6		6		6	
1/4	2,215.68	1/4	1,851.87	1/4	1,489.52	1/4	1,128.47	1/4	765.41	1/4	401.56	1/4	40.36	1/4		1/4		1/4	
1/2	2,208.10	1/2	1,844.29	1/2	1,482.10	1/2	1,120.92	1/2	757.83	1/2	393.98	1/2	33.46	1/2		1/2		1/2	
3/4	2,200.52	3/4	1,836.71	3/4	1,474.68	3/4	1,113.37	3/4	750.25	3/4	386.40	3/4	28.41	3/4		3/4		3/4	
7	2,192.94	7	1,829.13	7	1,467.27	7	1,105.82	7	742.67	7	378.82	7	23.36	7		7		7	
1/4	2,185.36	1/4	1,821.55	1/4	1,459.85	1/4	1,098.27	1/4	735.09	1/4	371.24	1/4	18.31	1/4		1/4		1/4	
1/2	2,177.78	1/2	1,813.97	1/2	1,452.43	1/2	1,090.72	1/2	727.51	1/2	363.66	1/2	13.26	1/2		1/2		1/2	
3/4	2,170.20	3/4	1,806.39	3/4	1,445.01	3/4	1,083.17	3/4	719.93	3/4	356.08	3/4		3/4		3/4		3/4	
8	2,162.62	8	1,798.81	8	1,437.60	8	1,075.62	8	712.35	8	348.50	8		8		8		8	
1/4	2,155.05	1/4	1,791.23	1/4	1,430.18	1/4	1,068.07	1/4	704.77	1/4	340.92	1/4		1/4		1/4		1/4	
1/2	2,147.47	1/2	1,783.66	1/2	1,422.76	1/2	1,060.52	1/2	697.19	1/2	333.34	1/2		1/2		1/2		1/2	
3/4	2,139.89	3/4	1,776.08	3/4	1,415.34	3/4	1,052.97	3/4	689.61	3/4	325.76	3/4		3/4		3/4		3/4	
9	2,132.31	9	1,768.50	9	1,407.92	9	1,045.41	9	682.03	9	318.18	9		9		9		9	
1/4	2,124.73	1/4	1,760.92	1/4	1,400.51	1/4	1,037.86	1/4	674.45	1/4	310.60	1/4		1/4		1/4		1/4	
1/2	2,117.15	1/2	1,753.34	1/2	1,393.09	1/2	1,030.31	1/2	666.87	1/2	303.02	1/2		1/2		1/2		1/2	
3/4	2,109.57	3/4	1,745.76	3/4	1,385.59	3/4	1,022.76	3/4	659.29	3/4	295.44	3/4		3/4		3/4		3/4	
10	2,101.99	10	1,738.18	10	1,378.09	10	1,015.21	10	651.71	10	287.86	10		10		10		10	
1/4	2,094.41	1/4	1,730.60	1/4	1,370.59	1/4	1,007.66	1/4	644.13	1/4	280.28	1/4		1/4		1/4		1/4	
1/2	2,086.83	1/2	1,723.02	1/2	1,363.09	1/2	1,000.11	1/2	636.55	1/2	272.70	1/2		1/2		1/2		1/2	
3/4	2,079.25	3/4	1,715.44	3/4	1,355.51	3/4	992.56	3/4	628.97	3/4	265.12	3/4		3/4		3/4		3/4	
11	2,071.67	11	1,707.86	11	1,347.93	11	985.01	11	621.39	11	257.54	11		11		11		11	
1/4	2,064.10	1/4	1,700.28	1/4	1,340.35	1/4	977.46	1/4	613.81	1/4	249.96	1/4		1/4		1/4		1/4	
1/2	2,056.52	1/2	1,692.70	1/2	1,332.77	1/2	969.91	1/2	606.23	1/2	242.38	1/2		1/2		1/2		1/2	
3/4	2,048.94	3/4	1,685.12	3/4	1,325.19	3/4	962.35	3/4	598.65	3/4	234.80	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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



# BARGE "KIRBY 28110"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,462.31	0	4,212.63	0	3,951.74	0	3,676.94	0	3,395.92	0	3,034.35	0	2,670.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,462.31	1/4	4,207.34	1/4	3,946.12	1/4	3,671.11	1/4	3,389.21	1/4	3,026.78	1/4	2,663.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,457.58	1/2	4,202.04	1/2	3,940.51	1/2	3,665.27	1/2	3,382.49	1/2	3,019.20	1/2	2,655.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,452.85	3/4	4,196.75	3/4	3,934.90	3/4	3,659.44	3/4	3,375.77	3/4	3,011.62	3/4	2,647.91
1	1	1	1	1	1	1	4,447.81	1	4,191.44	1	3,929.26	1	3,653.60	1	3,368.18	1	3,004.04	1	2,640.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,442.77	1/4	4,186.13	1/4	3,923.63	1/4	3,647.76	1/4	3,360.58	1/4	2,996.47	1/4	2,632.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,437.73	1/2	4,180.82	1/2	3,917.99	1/2	3,641.93	1/2	3,352.98	1/2	2,988.89	1/2	2,625.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,432.69	3/4	4,175.50	3/4	3,912.36	3/4	3,636.09	3/4	3,345.38	3/4	2,981.31	3/4	2,617.60
2	2	2	2	2	2	2	4,427.01	2	4,170.17	2	3,906.70	2	3,630.26	2	3,337.79	2	2,973.74	2	2,610.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,421.34	1/4	4,164.84	1/4	3,901.05	1/4	3,624.42	1/4	3,330.19	1/4	2,966.16	1/4	2,602.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,415.67	1/2	4,159.51	1/2	3,895.40	1/2	3,618.58	1/2	3,322.59	1/2	2,958.58	1/2	2,594.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,409.99	3/4	4,154.18	3/4	3,889.74	3/4	3,612.75	3/4	3,314.99	3/4	2,951.00	3/4	2,587.29
3	3	3	3	3	3	3	4,404.24	3	4,148.83	3	3,884.07	3	3,606.91	3	3,307.40	3	2,943.43	3	2,579.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,398.49	1/4	4,143.48	1/4	3,878.40	1/4	3,601.07	1/4	3,299.80	1/4	2,935.85	1/4	2,572.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,392.74	1/2	4,138.13	1/2	3,872.72	1/2	3,595.24	1/2	3,292.20	1/2	2,928.27	1/2	2,564.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,386.99	3/4	4,132.78	3/4	3,867.05	3/4	3,589.40	3/4	3,284.60	3/4	2,920.69	3/4	2,556.98
4	4	4	4	4	4	4	4,381.38	4	4,127.41	4	3,861.36	4	3,583.57	4	3,277.01	4	2,913.12	4	2,549.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,375.78	1/4	4,122.04	1/4	3,855.67	1/4	3,577.73	1/4	3,269.41	1/4	2,905.54	1/4	2,541.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,370.18	1/2	4,116.67	1/2	3,849.98	1/2	3,571.89	1/2	3,261.81	1/2	2,897.96	1/2	2,534.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,364.58	3/4	4,111.30	3/4	3,844.29	3/4	3,566.06	3/4	3,254.22	3/4	2,890.39	3/4	2,526.67
5	5	5	5	5	5	5	4,359.27	5	4,105.91	5	3,838.58	5	3,560.22	5	3,246.62	5	2,882.81	5	2,519.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,353.96	1/4	4,100.52	1/4	3,832.87	1/4	3,554.38	1/4	3,239.02	1/4	2,875.23	1/4	2,511.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,348.65	1/2	4,095.13	1/2	3,827.16	1/2	3,548.55	1/2	3,231.42	1/2	2,867.65	1/2	2,503.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,343.34	3/4	4,089.74	3/4	3,821.45	3/4	3,542.71	3/4	3,223.83	3/4	2,860.08	3/4	2,496.37
6	6	6	6	6	6	6	4,338.16	6	4,084.33	6	3,815.72	6	3,536.87	6	3,216.24	6	2,852.50	6	2,488.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,332.99	1/4	4,078.92	1/4	3,810.00	1/4	3,531.04	1/4	3,208.65	1/4	2,844.92	1/4	2,481.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,327.81	1/2	4,073.51	1/2	3,804.27	1/2	3,525.20	1/2	3,201.06	1/2	2,837.34	1/2	2,473.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,322.63	3/4	4,068.10	3/4	3,798.54	3/4	3,519.37	3/4	3,193.48	3/4	2,829.77	3/4	2,466.06
7	7	7	7	7	7	7	4,317.44	7	4,062.65	7	3,792.79	7	3,513.53	7	3,185.90	7	2,822.19	7	2,458.48
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,312.24	1/4	4,057.20	1/4	3,787.04	1/4	3,507.69	1/4	3,178.32	1/4	2,814.61	1/4	2,450.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,307.05	1/2	4,051.75	1/2	3,781.29	1/2	3,501.86	1/2	3,170.75	1/2	2,807.03	1/2	2,443.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,301.85	3/4	4,046.30	3/4	3,775.54	3/4	3,496.02	3/4	3,163.17	3/4	2,799.46	3/4	2,435.75
8	8	8	8	8	8	8	4,296.64	8	4,040.78	8	3,769.77	8	3,490.18	8	3,155.59	8	2,791.88	8	2,428.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,291.42	1/4	4,035.27	1/4	3,764.00	1/4	3,484.35	1/4	3,148.01	1/4	2,784.30	1/4	2,420.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,286.21	1/2	4,029.76	1/2	3,758.23	1/2	3,478.51	1/2	3,140.44	1/2	2,776.73	1/2	2,413.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,280.99	3/4	4,024.24	3/4	3,752.47	3/4	3,472.68	3/4	3,132.86	3/4	2,769.15	3/4	2,405.44
9	9	9	9	9	9	9	4,275.76	9	4,018.69	9	3,746.68	9	3,466.84	9	3,125.28	9	2,761.57	9	2,397.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,270.52	1/4	4,013.14	1/4	3,740.89	1/4	3,461.00	1/4	3,117.70	1/4	2,753.99	1/4	2,390.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,265.29	1/2	4,007.58	1/2	3,735.10	1/2	3,455.17	1/2	3,110.13	1/2	2,746.42	1/2	2,382.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,260.05	3/4	4,002.03	3/4	3,729.31	3/4	3,449.33	3/4	3,102.55	3/4	2,738.84	3/4	2,375.13
10	10	10	10	10	10	10	4,254.79	10	3,996.45	10	3,723.50	10	3,443.49	10	3,094.97	10	2,731.26	10	2,367.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,249.54	1/4	3,990.88	1/4	3,717.69	1/4	3,437.66	1/4	3,087.40	1/4	2,723.68	1/4	2,359.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,244.28	1/2	3,985.30	1/2	3,711.88	1/2	3,431.82	1/2	3,079.82	1/2	2,716.11	1/2	2,352.40
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,239.03	3/4	3,979.73	3/4	3,706.08	3/4	3,425.99	3/4	3,072.24	3/4	2,708.53	3/4	2,344.82
11	11	11	11	11	11	11	4,233.75	11	3,974.13	11	3,700.25	11	3,420.15	11	3,064.66	11	2,700.95	11	2,337.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,228.48	1/4	3,968.54	1/4	3,694.42	1/4	3,414.31	1/4	3,057.09	1/4	2,693.38	1/4	2,329.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,223.20	1/2	3,962.95	1/2	3,688.60	1/2	3,408.48	1/2	3,049.51	1/2	2,685.80	1/2	2,322.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,217.93	3/4	3,957.35	3/4	3,682.77	3/4	3,402.64	3/4	3,041.93	3/4	2,678.22	3/4	2,314.51

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'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 28110"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,306.93	0	1,943.22	0	1,579.57	0	1,220.39	0	865.79	0	509.00	0	144.60	0		0			
1/4	2,299.36	1/4	1,935.64	1/4	1,572.02	1/4	1,212.83	1/4	858.43	1/4	501.40	1/4	137.32	1/4		1/4		1/4	
1/2	2,291.78	1/2	1,928.07	1/2	1,564.46	1/2	1,205.26	1/2	851.07	1/2	493.80	1/2	130.03	1/2		1/2		1/2	
3/4	2,284.20	3/4	1,920.49	3/4	1,556.91	3/4	1,197.70	3/4	843.71	3/4	486.20	3/4	122.75	3/4		3/4		3/4	
1	2,276.62	1	1,912.91	1	1,549.36	1	1,190.14	1	836.33	1	478.61	1	116.42	1		1		1	
1/4	2,269.05	1/4	1,905.33	1/4	1,541.80	1/4	1,182.58	1/4	828.96	1/4	471.01	1/4	110.09	1/4		1/4		1/4	
1/2	2,261.47	1/2	1,897.76	1/2	1,534.25	1/2	1,175.01	1/2	821.58	1/2	463.41	1/2	103.76	1/2		1/2		1/2	
3/4	2,253.89	3/4	1,890.18	3/4	1,526.69	3/4	1,167.45	3/4	814.21	3/4	455.81	3/4	97.43	3/4		3/4		3/4	
2	2,246.31	2	1,882.60	2	1,519.14	2	1,160.00	2	806.82	2	448.21	2	92.37	2		2		2	
1/4	2,238.74	1/4	1,875.02	1/4	1,511.59	1/4	1,152.54	1/4	799.43	1/4	440.62	1/4	87.31	1/4		1/4		1/4	
1/2	2,231.16	1/2	1,867.45	1/2	1,504.03	1/2	1,145.08	1/2	792.05	1/2	433.02	1/2	82.25	1/2		1/2		1/2	
3/4	2,223.58	3/4	1,859.87	3/4	1,496.48	3/4	1,137.62	3/4	784.66	3/4	425.42	3/4	77.19	3/4		3/4		3/4	
3	2,216.01	3	1,852.29	3	1,488.92	3	1,130.28	3	777.27	3	417.82	3	73.41	3		3		3	
1/4	2,208.43	1/4	1,844.71	1/4	1,481.37	1/4	1,122.93	1/4	769.88	1/4	410.22	1/4	69.63	1/4		1/4		1/4	
1/2	2,200.85	1/2	1,837.14	1/2	1,473.82	1/2	1,115.58	1/2	762.50	1/2	402.62	1/2	65.85	1/2		1/2		1/2	
3/4	2,193.27	3/4	1,829.56	3/4	1,466.26	3/4	1,108.23	3/4	755.11	3/4	395.03	3/4	62.07	3/4		3/4		3/4	
4	2,185.70	4	1,821.98	4	1,458.79	4	1,100.89	4	747.72	4	387.43	4	59.57	4		4		4	
1/4	2,178.12	1/4	1,814.40	1/4	1,451.32	1/4	1,093.55	1/4	740.33	1/4	379.83	1/4	57.07	1/4		1/4		1/4	
1/2	2,170.54	1/2	1,806.83	1/2	1,443.84	1/2	1,086.21	1/2	732.95	1/2	372.23	1/2	54.58	1/2		1/2		1/2	
3/4	2,162.96	3/4	1,799.25	3/4	1,436.37	3/4	1,078.86	3/4	725.56	3/4	364.63	3/4	52.08	3/4		3/4		3/4	
5	2,155.39	5	1,791.67	5	1,428.97	5	1,071.52	5	718.17	5	357.03	5	50.88	5		5		5	
1/4	2,147.81	1/4	1,784.09	1/4	1,421.56	1/4	1,064.18	1/4	710.78	1/4	349.44	1/4	49.68	1/4		1/4		1/4	
1/2	2,140.23	1/2	1,776.52	1/2	1,414.16	1/2	1,056.84	1/2	703.40	1/2	341.84	1/2	48.48	1/2		1/2		1/2	
3/4	2,132.66	3/4	1,768.94	3/4	1,406.75	3/4	1,049.50	3/4	696.01	3/4	334.24	3/4	47.29	3/4		3/4		3/4	
6	2,125.08	6	1,761.36	6	1,399.34	6	1,042.16	6	688.62	6	326.64	6		6		6		6	
1/4	2,117.50	1/4	1,753.78	1/4	1,391.92	1/4	1,034.82	1/4	681.23	1/4	319.04	1/4		1/4		1/4		1/4	
1/2	2,109.92	1/2	1,746.21	1/2	1,384.51	1/2	1,027.48	1/2	673.85	1/2	311.44	1/2		1/2		1/2		1/2	
3/4	2,102.35	3/4	1,738.63	3/4	1,377.09	3/4	1,020.14	3/4	666.46	3/4	303.85	3/4		3/4		3/4		3/4	
7	2,094.77	7	1,731.05	7	1,369.67	7	1,012.80	7	659.07	7	296.25	7		7		7		7	
1/4	2,087.19	1/4	1,723.47	1/4	1,362.26	1/4	1,005.46	1/4	651.68	1/4	288.65	1/4		1/4		1/4		1/4	
1/2	2,079.61	1/2	1,715.90	1/2	1,354.84	1/2	998.12	1/2	644.30	1/2	281.05	1/2		1/2		1/2		1/2	
3/4	2,072.04	3/4	1,708.32	3/4	1,347.42	3/4	990.78	3/4	636.91	3/4	273.45	3/4		3/4		3/4		3/4	
8	2,064.46	8	1,700.74	8	1,340.01	8	983.44	8	629.52	8	265.85	8		8		8		8	
1/4	2,056.88	1/4	1,693.16	1/4	1,332.59	1/4	976.10	1/4	622.13	1/4	258.26	1/4		1/4		1/4		1/4	
1/2	2,049.30	1/2	1,685.59	1/2	1,325.17	1/2	968.76	1/2	614.75	1/2	250.66	1/2		1/2		1/2		1/2	
3/4	2,041.73	3/4	1,678.01	3/4	1,317.76	3/4	961.42	3/4	607.36	3/4	243.06	3/4		3/4		3/4		3/4	
9	2,034.15	9	1,670.43	9	1,310.35	9	954.07	9	599.86	9	235.46	9		9		9		9	
1/4	2,026.57	1/4	1,662.85	1/4	1,302.94	1/4	946.72	1/4	592.37	1/4	227.86	1/4		1/4		1/4		1/4	
1/2	2,019.00	1/2	1,655.28	1/2	1,295.53	1/2	939.37	1/2	584.88	1/2	220.26	1/2		1/2		1/2		1/2	
3/4	2,011.42	3/4	1,647.70	3/4	1,288.12	3/4	932.02	3/4	577.38	3/4	212.67	3/4		3/4		3/4		3/4	
10	2,003.84	10	1,640.12	10	1,280.64	10	924.66	10	569.79	10	205.07	10		10		10		10	
1/4	1,996.26	1/4	1,632.54	1/4	1,273.16	1/4	917.30	1/4	562.19	1/4	197.47	1/4		1/4		1/4		1/4	
1/2	1,988.69	1/2	1,624.97	1/2	1,265.68	1/2	909.94	1/2	554.59	1/2	189.87	1/2		1/2		1/2		1/2	
3/4	1,981.11	3/4	1,617.39	3/4	1,258.20	3/4	902.58	3/4	546.99	3/4	182.27	3/4		3/4		3/4		3/4	
11	1,973.53	11	1,609.82	11	1,250.64	11	895.23	11	539.39	11	174.67	11		11		11		11	
1/4	1,965.95	1/4	1,602.26	1/4	1,243.07	1/4	887.87	1/4	531.79	1/4	167.08	1/4		1/4		1/4		1/4	
1/2	1,958.38	1/2	1,594.69	1/2	1,235.51	1/2	880.51	1/2	524.20	1/2	159.48	1/2		1/2		1/2		1/2	
3/4	1,950.80	3/4	1,587.13	3/4	1,227.95	3/4	873.15	3/4	516.60	3/4	151.88	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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



# BARGE "KIRBY 28110"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	4,494.66	0	4,240.81	0	3,980.24	0	3,705.66	0	3,425.53	0	3,064.37	0	2,699.70
1/4		1/4		1/4		1/4	4,489.93	1/4	4,235.52	1/4	3,974.62	1/4	3,699.83	1/4	3,418.81	1/4	3,056.78	1/4	2,692.11
1/2		1/2		1/2		1/2	4,485.20	1/2	4,230.23	1/2	3,969.01	1/2	3,693.99	1/2	3,412.09	1/2	3,049.18	1/2	2,684.51
3/4		3/4		3/4		3/4	4,480.46	3/4	4,224.93	3/4	3,963.40	3/4	3,688.16	3/4	3,405.37	3/4	3,041.58	3/4	2,676.91
1		1		1		1	4,475.73	1	4,219.64	1	3,957.78	1	3,682.32	1	3,398.65	1	3,033.98	1	2,669.31
1/4		1/4		1/4		1/4	4,470.69	1/4	4,214.33	1/4	3,952.15	1/4	3,676.49	1/4	3,391.06	1/4	3,026.39	1/4	2,661.72
1/2		1/2		1/2		1/2	4,465.65	1/2	4,209.01	1/2	3,946.51	1/2	3,670.65	1/2	3,383.46	1/2	3,018.79	1/2	2,654.12
3/4		3/4		3/4		3/4	4,460.61	3/4	4,203.70	3/4	3,940.88	3/4	3,664.81	3/4	3,375.86	3/4	3,011.19	3/4	2,646.52
2		2		2		2	4,455.57	2	4,198.39	2	3,935.24	2	3,658.98	2	3,368.27	2	3,003.60	2	2,638.92
1/4		1/4		1/4		1/4	4,449.90	1/4	4,193.06	1/4	3,929.59	1/4	3,653.14	1/4	3,360.67	1/4	2,996.00	1/4	2,631.33
1/2		1/2		1/2		1/2	4,444.23	1/2	4,187.73	1/2	3,923.94	1/2	3,647.31	1/2	3,353.07	1/2	2,988.40	1/2	2,623.73
3/4		3/4		3/4		3/4	4,438.55	3/4	4,182.40	3/4	3,918.28	3/4	3,641.47	3/4	3,345.47	3/4	2,980.80	3/4	2,616.13
3		3		3		3	4,432.88	3	4,177.07	3	3,912.63	3	3,635.63	3	3,337.88	3	2,973.21	3	2,608.54
1/4		1/4		1/4		1/4	4,427.13	1/4	4,171.72	1/4	3,906.96	1/4	3,629.80	1/4	3,330.28	1/4	2,965.61	1/4	2,600.94
1/2		1/2		1/2		1/2	4,421.38	1/2	4,166.37	1/2	3,901.28	1/2	3,623.96	1/2	3,322.68	1/2	2,958.01	1/2	2,593.34
3/4		3/4		3/4		3/4	4,415.62	3/4	4,161.02	3/4	3,895.61	3/4	3,618.12	3/4	3,315.08	3/4	2,950.41	3/4	2,585.74
4		4		4		4	4,409.87	4	4,155.67	4	3,889.94	4	3,612.29	4	3,307.49	4	2,942.82	4	2,578.15
1/4		1/4		1/4		1/4	4,404.27	1/4	4,150.30	1/4	3,884.25	1/4	3,606.45	1/4	3,299.89	1/4	2,935.22	1/4	2,570.55
1/2		1/2		1/2		1/2	4,398.67	1/2	4,144.93	1/2	3,878.56	1/2	3,600.62	1/2	3,292.29	1/2	2,927.62	1/2	2,562.95
3/4		3/4		3/4		3/4	4,393.06	3/4	4,139.56	3/4	3,872.87	3/4	3,594.78	3/4	3,284.70	3/4	2,920.02	3/4	2,555.35
5		5		5		5	4,387.46	5	4,134.19	5	3,867.18	5	3,588.94	5	3,277.10	5	2,912.43	5	2,547.76
1/4		1/4		1/4		1/4	4,382.15	1/4	4,128.80	1/4	3,861.47	1/4	3,583.11	1/4	3,269.50	1/4	2,904.83	1/4	2,540.16
1/2		1/2		1/2		1/2	4,376.84	1/2	4,123.41	1/2	3,855.76	1/2	3,577.27	1/2	3,261.90	1/2	2,897.23	1/2	2,532.56
3/4		3/4		3/4		3/4	4,371.53	3/4	4,118.02	3/4	3,850.05	3/4	3,571.43	3/4	3,254.31	3/4	2,889.64	3/4	2,524.97
6		6		6		6	4,366.22	6	4,112.63	6	3,844.34	6	3,565.60	6	3,246.71	6	2,882.04	6	2,517.37
1/4		1/4		1/4		1/4	4,361.05	1/4	4,107.22	1/4	3,838.61	1/4	3,559.76	1/4	3,239.11	1/4	2,874.44	1/4	2,509.77
1/2		1/2		1/2		1/2	4,355.87	1/2	4,101.81	1/2	3,832.88	1/2	3,553.93	1/2	3,231.51	1/2	2,866.84	1/2	2,502.17
3/4		3/4		3/4		3/4	4,350.70	3/4	4,096.40	3/4	3,827.15	3/4	3,548.09	3/4	3,223.92	3/4	2,859.25	3/4	2,494.58
7		7		7		7	4,345.52	7	4,090.99	7	3,821.42	7	3,542.25	7	3,216.32	7	2,851.65	7	2,486.98
1/4		1/4		1/4		1/4	4,340.33	1/4	4,085.54	1/4	3,815.67	1/4	3,536.42	1/4	3,208.72	1/4	2,844.05	1/4	2,479.38
1/2		1/2		1/2		1/2	4,335.13	1/2	4,080.09	1/2	3,809.93	1/2	3,530.58	1/2	3,201.13	1/2	2,836.45	1/2	2,471.78
3/4		3/4		3/4		3/4	4,329.93	3/4	4,074.64	3/4	3,804.18	3/4	3,524.74	3/4	3,193.53	3/4	2,828.86	3/4	2,464.19
8		8		8		8	4,324.74	8	4,069.18	8	3,798.43	8	3,518.91	8	3,185.93	8	2,821.26	8	2,456.59
1/4		1/4		1/4		1/4	4,319.52	1/4	4,063.67	1/4	3,792.66	1/4	3,513.07	1/4	3,178.33	1/4	2,813.66	1/4	2,448.99
1/2		1/2		1/2		1/2	4,314.31	1/2	4,058.16	1/2	3,786.89	1/2	3,507.23	1/2	3,170.74	1/2	2,806.07	1/2	2,441.40
3/4		3/4		3/4		3/4	4,309.09	3/4	4,052.64	3/4	3,781.12	3/4	3,501.40	3/4	3,163.14	3/4	2,798.47	3/4	2,433.80
9		9		9		9	4,303.88	9	4,047.13	9	3,775.35	9	3,495.56	9	3,155.54	9	2,790.87	9	2,426.20
1/4		1/4		1/4		1/4	4,298.64	1/4	4,041.58	1/4	3,769.56	1/4	3,489.73	1/4	3,147.94	1/4	2,783.27	1/4	2,418.60
1/2		1/2		1/2		1/2	4,293.41	1/2	4,036.02	1/2	3,763.77	1/2	3,483.89	1/2	3,140.35	1/2	2,775.68	1/2	2,411.01
3/4		3/4		3/4		3/4	4,288.17	3/4	4,030.47	3/4	3,757.99	3/4	3,478.05	3/4	3,132.75	3/4	2,768.08	3/4	2,403.41
10		10		10		10	4,282.94	10	4,024.91	10	3,752.20	10	3,472.22	10	3,125.15	10	2,760.48	10	2,395.81
1/4		1/4		1/4		1/4	4,277.68	1/4	4,019.34	1/4	3,746.39	1/4	3,466.38	1/4	3,117.55	1/4	2,752.88	1/4	2,388.21
1/2		1/2		1/2		1/2	4,272.43	1/2	4,013.76	1/2	3,740.58	1/2	3,460.54	1/2	3,109.96	1/2	2,745.29	1/2	2,380.62
3/4		3/4		3/4		3/4	4,267.17	3/4	4,008.19	3/4	3,734.77	3/4	3,454.71	3/4	3,102.36	3/4	2,737.69	3/4	2,373.02
11		11		11		11	4,261.91	11	4,002.62	11	3,728.96	11	3,448.87	11	3,094.76	11	2,730.09	11	2,365.42
1/4		1/4		1/4		1/4	4,256.64	1/4	3,997.02	1/4	3,723.14	1/4	3,443.04	1/4	3,087.17	1/4	2,722.50	1/4	2,357.82
1/2		1/2		1/2		1/2	4,251.36	1/2	3,991.43	1/2	3,717.31	1/2	3,437.20	1/2	3,079.57	1/2	2,714.90	1/2	2,350.23
3/4		3/4		3/4		3/4	4,246.09	3/4	3,985.83	3/4	3,711.48	3/4	3,431.36	3/4	3,071.97	3/4	2,707.30	3/4	2,342.63

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'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 28110"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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	2,335.03	0	1,970.36	0	1,605.68	0	1,244.88	0	881.14	0	516.60	0	151.88	0		0		0	
1/4	2,327.44	1/4	1,962.76	1/4	1,598.08	1/4	1,237.28	1/4	873.57	1/4	509.00	1/4	144.60	1/4		1/4		1/4	
1/2	2,319.84	1/2	1,955.17	1/2	1,590.48	1/2	1,229.68	1/2	866.00	1/2	501.40	1/2	137.32	1/2		1/2		1/2	
3/4	2,312.24	3/4	1,947.57	3/4	1,582.89	3/4	1,222.09	3/4	858.43	3/4	493.80	3/4	130.03	3/4		3/4		3/4	
1	2,304.64	1	1,939.97	1	1,575.29	1	1,214.49	1	850.86	1	486.20	1	122.75	1		1		1	
1/4	2,297.05	1/4	1,932.37	1/4	1,567.69	1/4	1,206.89	1/4	843.28	1/4	478.61	1/4	116.42	1/4		1/4		1/4	
1/2	2,289.45	1/2	1,924.77	1/2	1,560.09	1/2	1,199.29	1/2	835.69	1/2	471.01	1/2	110.09	1/2		1/2		1/2	
3/4	2,281.85	3/4	1,917.18	3/4	1,552.50	3/4	1,191.69	3/4	828.10	3/4	463.41	3/4	103.76	3/4		3/4		3/4	
2	2,274.25	2	1,909.58	2	1,544.90	2	1,184.09	2	820.52	2	455.81	2	97.43	2		2		2	
1/4	2,266.66	1/4	1,901.98	1/4	1,537.30	1/4	1,176.50	1/4	812.92	1/4	448.21	1/4	92.37	1/4		1/4		1/4	
1/2	2,259.06	1/2	1,894.38	1/2	1,529.70	1/2	1,168.90	1/2	805.32	1/2	440.62	1/2	87.31	1/2		1/2		1/2	
3/4	2,251.46	3/4	1,886.79	3/4	1,522.11	3/4	1,161.30	3/4	797.73	3/4	433.02	3/4	82.25	3/4		3/4		3/4	
3	2,243.87	3	1,879.19	3	1,514.51	3	1,153.70	3	790.13	3	425.42	3	77.19	3		3		3	
1/4	2,236.27	1/4	1,871.59	1/4	1,506.91	1/4	1,146.12	1/4	782.53	1/4	417.82	1/4	73.41	1/4		1/4		1/4	
1/2	2,228.67	1/2	1,863.99	1/2	1,499.31	1/2	1,138.53	1/2	774.93	1/2	410.22	1/2	69.63	1/2		1/2		1/2	
3/4	2,221.07	3/4	1,856.40	3/4	1,491.72	3/4	1,130.94	3/4	767.33	3/4	402.62	3/4	65.85	3/4		3/4		3/4	
4	2,213.48	4	1,848.80	4	1,484.12	4	1,123.36	4	759.74	4	395.03	4	62.07	4		4		4	
1/4	2,205.88	1/4	1,841.20	1/4	1,476.60	1/4	1,115.79	1/4	752.14	1/4	387.43	1/4	59.57	1/4		1/4		1/4	
1/2	2,198.28	1/2	1,833.60	1/2	1,469.09	1/2	1,108.22	1/2	744.54	1/2	379.83	1/2	57.07	1/2		1/2		1/2	
3/4	2,190.68	3/4	1,826.01	3/4	1,461.57	3/4	1,100.65	3/4	736.94	3/4	372.23	3/4	54.58	3/4		3/4		3/4	
5	2,183.09	5	1,818.41	5	1,454.05	5	1,093.08	5	729.34	5	364.63	5	52.08	5		5		5	
1/4	2,175.49	1/4	1,810.81	1/4	1,446.62	1/4	1,085.51	1/4	721.75	1/4	357.03	1/4	50.88	1/4		1/4		1/4	
1/2	2,167.89	1/2	1,803.21	1/2	1,439.18	1/2	1,077.94	1/2	714.15	1/2	349.44	1/2	49.68	1/2		1/2		1/2	
3/4	2,160.29	3/4	1,795.62	3/4	1,431.75	3/4	1,070.37	3/4	706.55	3/4	341.84	3/4	48.48	3/4		3/4		3/4	
6	2,152.70	6	1,788.02	6	1,424.31	6	1,062.80	6	698.95	6	334.24	6	47.29	6		6		6	
1/4	2,145.10	1/4	1,780.42	1/4	1,416.88	1/4	1,055.23	1/4	691.36	1/4	326.64	1/4		1/4		1/4		1/4	
1/2	2,137.50	1/2	1,772.82	1/2	1,409.44	1/2	1,047.66	1/2	683.76	1/2	319.04	1/2		1/2		1/2		1/2	
3/4	2,129.91	3/4	1,765.23	3/4	1,402.01	3/4	1,040.09	3/4	676.16	3/4	311.44	3/4		3/4		3/4		3/4	
7	2,122.31	7	1,757.63	7	1,394.57	7	1,032.52	7	668.56	7	303.85	7		7		7		7	
1/4	2,114.71	1/4	1,750.03	1/4	1,387.13	1/4	1,024.96	1/4	660.96	1/4	296.25	1/4		1/4		1/4		1/4	
1/2	2,107.11	1/2	1,742.43	1/2	1,379.70	1/2	1,017.39	1/2	653.37	1/2	288.65	1/2		1/2		1/2		1/2	
3/4	2,099.52	3/4	1,734.84	3/4	1,372.26	3/4	1,009.82	3/4	645.77	3/4	281.05	3/4		3/4		3/4		3/4	
8	2,091.92	8	1,727.24	8	1,364.83	8	1,002.25	8	638.17	8	273.45	8		8		8		8	
1/4	2,084.32	1/4	1,719.64	1/4	1,357.39	1/4	994.68	1/4	630.57	1/4	265.85	1/4		1/4		1/4		1/4	
1/2	2,076.72	1/2	1,712.04	1/2	1,349.96	1/2	987.11	1/2	622.97	1/2	258.26	1/2		1/2		1/2		1/2	
3/4	2,069.13	3/4	1,704.45	3/4	1,342.52	3/4	979.54	3/4	615.38	3/4	250.66	3/4		3/4		3/4		3/4	
9	2,061.53	9	1,696.85	9	1,335.09	9	971.97	9	607.78	9	243.06	9		9		9		9	
1/4	2,053.93	1/4	1,689.25	1/4	1,327.65	1/4	964.40	1/4	600.18	1/4	235.46	1/4		1/4		1/4		1/4	
1/2	2,046.34	1/2	1,681.65	1/2	1,320.21	1/2	956.83	1/2	592.58	1/2	227.86	1/2		1/2		1/2		1/2	
3/4	2,038.74	3/4	1,674.06	3/4	1,312.78	3/4	949.27	3/4	584.98	3/4	220.26	3/4		3/4		3/4		3/4	
10	2,031.14	10	1,666.46	10	1,305.34	10	941.70	10	577.38	10	212.67	10		10		10		10	
1/4	2,023.54	1/4	1,658.86	1/4	1,297.82	1/4	934.13	1/4	569.79	1/4	205.07	1/4		1/4		1/4		1/4	
1/2	2,015.95	1/2	1,651.26	1/2	1,290.31	1/2	926.56	1/2	562.19	1/2	197.47	1/2		1/2		1/2		1/2	
3/4	2,008.35	3/4	1,643.67	3/4	1,282.79	3/4	918.99	3/4	554.59	3/4	189.87	3/4		3/4		3/4		3/4	
11	2,000.75	11	1,636.07	11	1,275.27	11	911.42	11	546.99	11	182.27	11		11		11		11	
1/4	1,993.15	1/4	1,628.47	1/4	1,267.67	1/4	903.85	1/4	539.39	1/4	174.67	1/4		1/4		1/4		1/4	
1/2	1,985.56	1/2	1,620.87	1/2	1,260.08	1/2	896.28	1/2	531.79	1/2	167.08	1/2		1/2		1/2		1/2	
3/4	1,977.96	3/4	1,613.28	3/4	1,252.48	3/4	888.71	3/4	524.20	3/4	159.48	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/17/2009 CL - SW  
CALCULATED: 07/21/2009 CL  
VERIFIED: 08/19/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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