



# BARGE "KIRBY 29098"

## 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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 7'-00"  
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 2 STBD IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 5'-00" ON 2 STBD THE TRIM CORRECTED ULLAGE IS 4'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

June 6, 2024

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29098"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,958.04	0	4,629.55	0	4,280.80	0	3,915.64	0	3,549.28	0	3,182.39	0	2,815.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.95	1/4	4,622.49	1/4	4,273.30	1/4	3,908.01	1/4	3,541.64	1/4	3,174.75	1/4	2,807.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,943.85	1/2	4,615.43	1/2	4,265.80	1/2	3,900.37	1/2	3,534.00	1/2	3,167.11	1/2	2,800.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,936.75	3/4	4,608.37	3/4	4,258.31	3/4	3,892.74	3/4	3,526.36	3/4	3,159.46	3/4	2,792.43		
1	1	1	1	1	1	1	4,930.12	1	4,601.28	1	4,250.77	1	3,885.11	1	3,518.72	1	3,151.82	1	2,784.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,923.48	1/4	4,594.18	1/4	4,243.23	1/4	3,877.48	1/4	3,511.08	1/4	3,144.17	1/4	2,777.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,916.84	1/2	4,587.09	1/2	4,235.70	1/2	3,869.84	1/2	3,503.43	1/2	3,136.53	1/2	2,769.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,910.21	3/4	4,580.00	3/4	4,228.16	3/4	3,862.21	3/4	3,495.79	3/4	3,128.89	3/4	2,761.84		
2	2	2	2	2	2	2	4,903.54	2	4,572.87	2	4,220.59	2	3,854.58	2	3,488.14	2	3,121.24	2	2,754.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,896.87	1/4	4,565.74	1/4	4,213.02	1/4	3,846.95	1/4	3,480.50	1/4	3,113.60	1/4	2,746.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,890.20	1/2	4,558.62	1/2	4,205.45	1/2	3,839.32	1/2	3,472.86	1/2	3,105.95	1/2	2,738.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,883.54	3/4	4,551.49	3/4	4,197.89	3/4	3,831.68	3/4	3,465.21	3/4	3,098.31	3/4	2,731.25		
3	3	3	3	3	3	3	4,876.83	3	4,544.33	3	4,190.28	3	3,824.05	3	3,457.57	3	3,090.67	3	2,723.60		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.13	1/4	4,537.17	1/4	4,182.68	1/4	3,816.42	1/4	3,449.93	1/4	3,083.02	1/4	2,715.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,863.42	1/2	4,530.01	1/2	4,175.08	1/2	3,808.79	1/2	3,442.28	1/2	3,075.38	1/2	2,708.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,856.72	3/4	4,522.85	3/4	4,167.47	3/4	3,801.15	3/4	3,434.64	3/4	3,067.74	3/4	2,700.66		
4	4	4	4	4	4	4	4,849.98	4	4,515.66	4	4,159.85	4	3,793.52	4	3,426.99	4	3,060.09	4	2,693.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,843.24	1/4	4,508.46	1/4	4,152.22	1/4	3,785.89	1/4	3,419.35	1/4	3,052.45	1/4	2,685.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,836.49	1/2	4,501.27	1/2	4,144.60	1/2	3,778.26	1/2	3,411.71	1/2	3,044.80	1/2	2,677.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,829.75	3/4	4,494.08	3/4	4,136.98	3/4	3,770.62	3/4	3,404.06	3/4	3,037.16	3/4	2,670.07		
5	5	5	5	5	5	5	4,822.98	5	4,486.85	5	4,129.34	5	3,762.99	5	3,396.42	5	3,029.52	5	2,662.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.20	1/4	4,479.62	1/4	4,121.71	1/4	3,755.36	1/4	3,388.78	1/4	3,021.87	1/4	2,654.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,809.43	1/2	4,472.39	1/2	4,114.08	1/2	3,747.73	1/2	3,381.13	1/2	3,014.23	1/2	2,647.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,802.65	3/4	4,465.16	3/4	4,106.45	3/4	3,740.10	3/4	3,373.49	3/4	3,006.59	3/4	2,639.48		
6	6	6	6	6	6	6	4,795.84	6	4,457.90	6	4,098.81	6	3,732.46	6	3,365.84	6	2,998.93	6	2,631.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,789.03	1/4	4,450.63	1/4	4,091.18	1/4	3,724.83	1/4	3,358.20	1/4	2,991.28	1/4	2,624.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,782.22	1/2	4,443.37	1/2	4,083.55	1/2	3,717.20	1/2	3,350.56	1/2	2,983.63	1/2	2,616.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,775.41	3/4	4,436.10	3/4	4,075.92	3/4	3,709.57	3/4	3,342.91	3/4	2,975.98	3/4	2,608.89		
7	7	7	7	7	7	7	4,768.57	7	4,428.79	7	4,068.28	7	3,701.93	7	3,335.27	7	2,968.33	7	2,601.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,096.91	1/4	4,761.73	1/4	4,421.47	1/4	4,060.65	1/4	3,694.30	1/4	3,327.62	1/4	2,960.69	1/4	2,593.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,090.86	1/2	4,754.89	1/2	4,414.16	1/2	4,053.02	1/2	3,686.67	1/2	3,319.98	1/2	2,953.04	1/2	2,585.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,084.81	3/4	4,748.04	3/4	4,406.84	3/4	4,045.39	3/4	3,679.04	3/4	3,312.34	3/4	2,945.39	3/4	2,578.30
8	8	8	8	8	8	8	5,077.62	8	4,741.15	8	4,399.49	8	4,037.76	8	3,671.41	8	3,304.69	8	2,937.74	8	2,570.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,070.43	1/4	4,734.25	1/4	4,392.13	1/4	4,030.12	1/4	3,663.77	1/4	3,297.05	1/4	2,930.09	1/4	2,563.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,063.23	1/2	4,727.36	1/2	4,384.77	1/2	4,022.49	1/2	3,656.14	1/2	3,289.41	1/2	2,922.45	1/2	2,555.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,056.04	3/4	4,720.46	3/4	4,377.41	3/4	4,014.86	3/4	3,648.51	3/4	3,281.76	3/4	2,914.80	3/4	2,547.70
9	9	9	9	9	9	9	5,048.46	9	4,713.51	9	4,370.02	9	4,007.23	9	3,640.88	9	3,274.12	9	2,907.15	9	2,540.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,040.89	1/4	4,706.56	1/4	4,362.62	1/4	3,999.59	1/4	3,633.24	1/4	3,266.47	1/4	2,899.50	1/4	2,532.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,033.31	1/2	4,699.61	1/2	4,355.23	1/2	3,991.96	1/2	3,625.61	1/2	3,258.83	1/2	2,891.86	1/2	2,524.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,025.74	3/4	4,692.66	3/4	4,347.84	3/4	3,984.33	3/4	3,617.98	3/4	3,251.19	3/4	2,884.21	3/4	2,517.11
10	10	10	10	10	10	10	5,018.16	10	4,685.67	10	4,340.41	10	3,976.70	10	3,610.35	10	3,243.54	10	2,876.56	10	2,509.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,010.59	1/4	4,678.68	1/4	4,332.99	1/4	3,969.06	1/4	3,602.71	1/4	3,235.90	1/4	2,868.91	1/4	2,501.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,003.01	1/2	4,671.70	1/2	4,325.56	1/2	3,961.43	1/2	3,595.08	1/2	3,228.26	1/2	2,861.26	1/2	2,494.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.44	3/4	4,664.71	3/4	4,318.13	3/4	3,953.80	3/4	3,587.45	3/4	3,220.61	3/4	2,853.62	3/4	2,486.52
11	11	11	11	11	11	11	4,987.87	11	4,657.68	11	4,310.68	11	3,946.17	11	3,579.82	11	3,212.97	11	2,845.97	11	2,478.87
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,980.29	1/4	4,650.66	1/4	4,303.22	1/4	3,938.54	1/4	3,572.19	1/4	3,205.32	1/4	2,838.32	1/4	2,471.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,972.72	1/2	4,643.63	1/2	4,295.76	1/2	3,930.90	1/2	3,564.55	1/2	3,197.68	1/2	2,830.67	1/2	2,463.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,965.14	3/4	4,636.61	3/4	4,288.30	3/4	3,923.27	3/4	3,556.92	3/4	3,190.04	3/4	2,823.03	3/4	2,455.93

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "KIRBY 29098"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 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	2,448.28	0	2,081.19	0	1,714.09	0	1,347.00	0	980.84	0	615.02	0	263.59	0		0			
1/4	2,440.64	1/4	2,073.54	1/4	1,706.45	1/4	1,339.35	1/4	973.25	1/4	607.38	1/4	256.81	1/4		1/4			
1/2	2,432.99	1/2	2,065.89	1/2	1,698.80	1/2	1,331.70	1/2	965.65	1/2	599.73	1/2	250.02	1/2		1/2			
3/4	2,425.34	3/4	2,058.25	3/4	1,691.15	3/4	1,324.06	3/4	958.05	3/4	592.08	3/4	243.23	3/4		3/4			
1	2,417.69	1	2,050.60	1	1,683.50	1	1,316.41	1	950.46	1	584.43	1	236.54	1		1			
1/4	2,410.04	1/4	2,042.95	1/4	1,675.86	1/4	1,308.76	1/4	942.86	1/4	576.79	1/4	229.85	1/4		1/4			
1/2	2,402.40	1/2	2,035.30	1/2	1,668.21	1/2	1,301.11	1/2	935.26	1/2	569.14	1/2	223.15	1/2		1/2			
3/4	2,394.75	3/4	2,027.65	3/4	1,660.56	3/4	1,293.47	3/4	927.67	3/4	561.49	3/4	216.46	3/4		3/4			
2	2,387.10	2	2,020.01	2	1,652.91	2	1,285.82	2	920.07	2	553.85	2	209.85	2		2			
1/4	2,379.45	1/4	2,012.36	1/4	1,645.26	1/4	1,278.17	1/4	912.47	1/4	546.22	1/4	203.25	1/4		1/4			
1/2	2,371.81	1/2	2,004.71	1/2	1,637.62	1/2	1,270.52	1/2	904.87	1/2	538.58	1/2	196.64	1/2		1/2			
3/4	2,364.16	3/4	1,997.06	3/4	1,629.97	3/4	1,262.87	3/4	897.28	3/4	530.94	3/4	190.04	3/4		3/4			
3	2,356.51	3	1,989.42	3	1,622.32	3	1,255.23	3	889.68	3	523.35	3	183.53	3		3			
1/4	2,348.86	1/4	1,981.77	1/4	1,614.67	1/4	1,247.58	1/4	882.08	1/4	515.76	1/4	177.01	1/4		1/4			
1/2	2,341.21	1/2	1,974.12	1/2	1,607.03	1/2	1,239.93	1/2	874.49	1/2	508.17	1/2	170.50	1/2		1/2			
3/4	2,333.57	3/4	1,966.47	3/4	1,599.38	3/4	1,232.28	3/4	866.89	3/4	500.58	3/4	163.99	3/4		3/4			
4	2,325.92	4	1,958.82	4	1,591.73	4	1,224.64	4	859.29	4	493.07	4	157.57	4		4			
1/4	2,318.27	1/4	1,951.18	1/4	1,584.08	1/4	1,216.99	1/4	851.70	1/4	485.56	1/4	151.15	1/4		1/4			
1/2	2,310.62	1/2	1,943.53	1/2	1,576.43	1/2	1,209.34	1/2	844.10	1/2	478.05	1/2	144.73	1/2		1/2			
3/4	2,302.98	3/4	1,935.88	3/4	1,568.79	3/4	1,201.69	3/4	836.50	3/4	470.54	3/4	138.31	3/4		3/4			
5	2,295.33	5	1,928.23	5	1,561.14	5	1,194.04	5	828.90	5	463.11	5	131.99	5		5			
1/4	2,287.68	1/4	1,920.59	1/4	1,553.49	1/4	1,186.40	1/4	821.31	1/4	455.69	1/4	125.66	1/4		1/4			
1/2	2,280.03	1/2	1,912.94	1/2	1,545.84	1/2	1,178.75	1/2	813.71	1/2	448.27	1/2	119.34	1/2		1/2			
3/4	2,272.38	3/4	1,905.29	3/4	1,538.20	3/4	1,171.10	3/4	806.11	3/4	440.85	3/4	113.02	3/4		3/4			
6	2,264.74	6	1,897.64	6	1,530.55	6	1,163.47	6	798.49	6	433.52	6	106.80	6		6			
1/4	2,257.09	1/4	1,889.99	1/4	1,522.90	1/4	1,155.83	1/4	790.87	1/4	426.19	1/4	100.57	1/4		1/4			
1/2	2,249.44	1/2	1,882.35	1/2	1,515.25	1/2	1,148.20	1/2	783.25	1/2	418.86	1/2	94.35	1/2		1/2			
3/4	2,241.79	3/4	1,874.70	3/4	1,507.60	3/4	1,140.57	3/4	775.62	3/4	411.53	3/4	88.13	3/4		3/4			
7	2,234.15	7	1,867.05	7	1,499.96	7	1,132.95	7	767.98	7	404.29	7	82.01	7		7			
1/4	2,226.50	1/4	1,859.40	1/4	1,492.31	1/4	1,125.33	1/4	760.33	1/4	397.05	1/4	75.90	1/4		1/4			
1/2	2,218.85	1/2	1,851.76	1/2	1,484.66	1/2	1,117.71	1/2	752.68	1/2	389.81	1/2	69.78	1/2		1/2			
3/4	2,211.20	3/4	1,844.11	3/4	1,477.01	3/4	1,110.10	3/4	745.03	3/4	382.57	3/4	63.67	3/4		3/4			
8	2,203.55	8	1,836.46	8	1,469.37	8	1,102.48	8	737.38	8	375.43	8	58.12	8		8			
1/4	2,195.91	1/4	1,828.81	1/4	1,461.72	1/4	1,094.87	1/4	729.74	1/4	368.28	1/4	52.57	1/4		1/4			
1/2	2,188.26	1/2	1,821.16	1/2	1,454.07	1/2	1,087.26	1/2	722.09	1/2	361.13	1/2	47.01	1/2		1/2			
3/4	2,180.61	3/4	1,813.52	3/4	1,446.42	3/4	1,079.65	3/4	714.44	3/4	353.98	3/4	41.46	3/4		3/4			
9	2,172.96	9	1,805.87	9	1,438.77	9	1,072.05	9	706.79	9	346.92	9	36.97	9		9			
1/4	2,165.31	1/4	1,798.22	1/4	1,431.13	1/4	1,064.44	1/4	699.15	1/4	339.87	1/4	32.48	1/4		1/4			
1/2	2,157.67	1/2	1,790.57	1/2	1,423.48	1/2	1,056.84	1/2	691.50	1/2	332.81	1/2	27.99	1/2		1/2			
3/4	2,150.02	3/4	1,782.92	3/4	1,415.83	3/4	1,049.23	3/4	683.85	3/4	325.75	3/4	23.50	3/4		3/4			
10	2,142.37	10	1,775.28	10	1,408.18	10	1,041.63	10	676.20	10	318.78	10		10		10			
1/4	2,134.72	1/4	1,767.63	1/4	1,400.53	1/4	1,034.03	1/4	668.56	1/4	311.82	1/4		1/4		1/4			
1/2	2,127.08	1/2	1,759.98	1/2	1,392.89	1/2	1,026.43	1/2	660.91	1/2	304.85	1/2		1/2		1/2			
3/4	2,119.43	3/4	1,752.33	3/4	1,385.24	3/4	1,018.83	3/4	653.26	3/4	297.88	3/4		3/4		3/4			
11	2,111.78	11	1,744.69	11	1,377.59	11	1,011.23	11	645.61	11	291.01	11		11		11			
1/4	2,104.13	1/4	1,737.04	1/4	1,369.94	1/4	1,003.64	1/4	637.97	1/4	284.13	1/4		1/4		1/4			
1/2	2,096.48	1/2	1,729.39	1/2	1,362.30	1/2	996.04	1/2	630.32	1/2	277.25	1/2		1/2		1/2			
3/4	2,088.84	3/4	1,721.74	3/4	1,354.65	3/4	988.44	3/4	622.67	3/4	270.38	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

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



# BARGE "KIRBY 29098"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,954.41	0	4,625.91	0	4,277.17	0	3,912.01	0	3,545.67	0	3,179.33	0	2,812.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,947.31	1/4	4,618.85	1/4	4,269.67	1/4	3,904.38	1/4	3,538.04	1/4	3,171.69	1/4	2,805.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,940.21	1/2	4,611.79	1/2	4,262.17	1/2	3,896.74	1/2	3,530.40	1/2	3,164.06	1/2	2,797.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,933.12	3/4	4,604.73	3/4	4,254.67	3/4	3,889.11	3/4	3,522.77	3/4	3,156.43	3/4	2,789.98		
1	1	1	1	1	1	1	4,926.48	1	4,597.64	1	4,247.14	1	3,881.48	1	3,515.14	1	3,148.80	1	2,782.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,919.84	1/4	4,590.55	1/4	4,239.60	1/4	3,873.85	1/4	3,507.51	1/4	3,141.17	1/4	2,774.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,913.21	1/2	4,583.46	1/2	4,232.07	1/2	3,866.22	1/2	3,499.87	1/2	3,133.53	1/2	2,767.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,906.57	3/4	4,576.36	3/4	4,224.53	3/4	3,858.58	3/4	3,492.24	3/4	3,125.90	3/4	2,759.44		
2	2	2	2	2	2	2	4,899.90	2	4,569.24	2	4,216.96	2	3,850.95	2	3,484.61	2	3,118.27	2	2,751.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.23	1/4	4,562.11	1/4	4,209.39	1/4	3,843.32	1/4	3,476.98	1/4	3,110.64	1/4	2,744.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,886.57	1/2	4,554.98	1/2	4,201.82	1/2	3,835.69	1/2	3,469.35	1/2	3,103.01	1/2	2,736.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,879.90	3/4	4,547.86	3/4	4,194.25	3/4	3,828.06	3/4	3,461.71	3/4	3,095.37	3/4	2,728.89		
3	3	3	3	3	3	3	4,873.19	3	4,540.70	3	4,186.65	3	3,820.42	3	3,454.08	3	3,087.74	3	2,721.25		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,866.49	1/4	4,533.54	1/4	4,179.05	1/4	3,812.79	1/4	3,446.45	1/4	3,080.11	1/4	2,713.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,859.79	1/2	4,526.38	1/2	4,171.45	1/2	3,805.16	1/2	3,438.82	1/2	3,072.48	1/2	2,705.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,853.08	3/4	4,519.22	3/4	4,163.84	3/4	3,797.53	3/4	3,431.19	3/4	3,064.85	3/4	2,698.35		
4	4	4	4	4	4	4	4,846.34	4	4,512.02	4	4,156.22	4	3,789.89	4	3,423.55	4	3,057.21	4	2,690.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,839.60	1/4	4,504.83	1/4	4,148.59	1/4	3,782.26	1/4	3,415.92	1/4	3,049.58	1/4	2,683.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,832.86	1/2	4,497.63	1/2	4,140.97	1/2	3,774.63	1/2	3,408.29	1/2	3,041.95	1/2	2,675.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,826.12	3/4	4,490.44	3/4	4,133.34	3/4	3,767.00	3/4	3,400.66	3/4	3,034.32	3/4	2,667.80		
5	5	5	5	5	5	5	4,819.34	5	4,483.21	5	4,125.71	5	3,759.37	5	3,393.03	5	3,026.68	5	2,660.17		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,812.57	1/4	4,475.99	1/4	4,118.07	1/4	3,751.73	1/4	3,385.39	1/4	3,019.05	1/4	2,652.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,805.79	1/2	4,468.76	1/2	4,110.44	1/2	3,744.10	1/2	3,377.76	1/2	3,011.42	1/2	2,644.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,799.01	3/4	4,461.53	3/4	4,102.81	3/4	3,736.47	3/4	3,370.13	3/4	3,003.79	3/4	2,637.26		
6	6	6	6	6	6	6	4,792.21	6	4,454.26	6	4,095.18	6	3,728.84	6	3,362.50	6	2,996.15	6	2,629.62		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.40	1/4	4,447.00	1/4	4,087.55	1/4	3,721.21	1/4	3,354.86	1/4	2,988.52	1/4	2,621.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.59	1/2	4,439.73	1/2	4,079.91	1/2	3,713.57	1/2	3,347.23	1/2	2,980.88	1/2	2,614.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,771.78	3/4	4,432.47	3/4	4,072.28	3/4	3,705.94	3/4	3,339.60	3/4	2,973.25	3/4	2,606.71		
7	7	7	7	7	7	7	4,764.94	7	4,425.15	7	4,064.65	7	3,698.31	7	3,331.97	7	2,965.61	7	2,599.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,093.26	1/4	4,758.09	1/4	4,417.84	1/4	4,057.02	1/4	3,690.68	1/4	3,324.34	1/4	2,957.97	1/4	2,591.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,087.21	1/2	4,751.25	1/2	4,410.52	1/2	4,049.39	1/2	3,683.05	1/2	3,316.70	1/2	2,950.34	1/2	2,583.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,081.17	3/4	4,744.41	3/4	4,403.21	3/4	4,041.75	3/4	3,675.41	3/4	3,309.07	3/4	2,942.70	3/4	2,576.17
8	8	8	8	8	8	8	5,073.98	8	4,737.51	8	4,395.85	8	4,034.12	8	3,667.78	8	3,301.44	8	2,935.07	8	2,568.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,066.78	1/4	4,730.61	1/4	4,388.49	1/4	4,026.49	1/4	3,660.15	1/4	3,293.81	1/4	2,927.43	1/4	2,560.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,059.59	1/2	4,723.72	1/2	4,381.13	1/2	4,018.86	1/2	3,652.52	1/2	3,286.18	1/2	2,919.79	1/2	2,553.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.40	3/4	4,716.82	3/4	4,373.78	3/4	4,011.23	3/4	3,644.88	3/4	3,278.54	3/4	2,912.16	3/4	2,545.62
9	9	9	9	9	9	9	5,044.83	9	4,709.87	9	4,366.38	9	4,003.59	9	3,637.25	9	3,270.91	9	2,904.52	9	2,537.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,037.25	1/4	4,702.92	1/4	4,358.99	1/4	3,995.96	1/4	3,629.62	1/4	3,263.28	1/4	2,896.88	1/4	2,530.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,029.68	1/2	4,695.97	1/2	4,351.60	1/2	3,988.33	1/2	3,621.99	1/2	3,255.65	1/2	2,889.25	1/2	2,522.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,022.10	3/4	4,689.02	3/4	4,344.21	3/4	3,980.70	3/4	3,614.36	3/4	3,248.02	3/4	2,881.61	3/4	2,515.08
10	10	10	10	10	10	10	5,014.53	10	4,682.04	10	4,336.78	10	3,973.07	10	3,606.72	10	3,240.38	10	2,873.98	10	2,507.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,006.95	1/4	4,675.05	1/4	4,329.35	1/4	3,965.43	1/4	3,599.09	1/4	3,232.75	1/4	2,866.34	1/4	2,499.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,999.38	1/2	4,668.06	1/2	4,321.93	1/2	3,957.80	1/2	3,591.46	1/2	3,225.12	1/2	2,858.70	1/2	2,492.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.80	3/4	4,661.07	3/4	4,314.50	3/4	3,950.17	3/4	3,583.83	3/4	3,217.49	3/4	2,851.07	3/4	2,484.54
11	11	11	11	11	11	11	4,984.23	11	4,654.05	11	4,307.04	11	3,942.54	11	3,576.20	11	3,209.86	11	2,843.43	11	2,476.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,976.65	1/4	4,647.02	1/4	4,299.58	1/4	3,934.90	1/4	3,568.56	1/4	3,202.22	1/4	2,835.80	1/4	2,469.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,969.08	1/2	4,640.00	1/2	4,292.12	1/2	3,927.27	1/2	3,560.93	1/2	3,194.59	1/2	2,828.16	1/2	2,461.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,961.50	3/4	4,632.97	3/4	4,284.66	3/4	3,919.64	3/4	3,553.30	3/4	3,186.96	3/4	2,820.52	3/4	2,453.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29098"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 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	2,446.36	0	2,079.82	0	1,713.29	0	1,346.76	0	980.37	0	614.19	0	263.38	0		0			
1/4	2,438.72	1/4	2,072.19	1/4	1,705.65	1/4	1,339.12	1/4	972.75	1/4	606.55	1/4	256.60	1/4		1/4			
1/2	2,431.08	1/2	2,064.55	1/2	1,698.02	1/2	1,331.48	1/2	965.13	1/2	598.92	1/2	249.83	1/2		1/2			
3/4	2,423.45	3/4	2,056.91	3/4	1,690.38	3/4	1,323.85	3/4	957.50	3/4	591.28	3/4	243.05	3/4		3/4			
1	2,415.81	1	2,049.28	1	1,682.75	1	1,316.21	1	949.88	1	583.65	1	236.37	1		1			
1/4	2,408.17	1/4	2,041.64	1/4	1,675.11	1/4	1,308.58	1/4	942.26	1/4	576.02	1/4	229.69	1/4		1/4			
1/2	2,400.54	1/2	2,034.01	1/2	1,667.47	1/2	1,300.94	1/2	934.64	1/2	568.39	1/2	223.00	1/2		1/2			
3/4	2,392.90	3/4	2,026.37	3/4	1,659.84	3/4	1,293.30	3/4	927.02	3/4	560.75	3/4	216.32	3/4		3/4			
2	2,385.27	2	2,018.73	2	1,652.20	2	1,285.67	2	919.39	2	553.14	2	209.73	2		2			
1/4	2,377.63	1/4	2,011.10	1/4	1,644.56	1/4	1,278.03	1/4	911.77	1/4	545.52	1/4	203.14	1/4		1/4			
1/2	2,369.99	1/2	2,003.46	1/2	1,636.93	1/2	1,270.40	1/2	904.15	1/2	537.90	1/2	196.54	1/2		1/2			
3/4	2,362.36	3/4	1,995.83	3/4	1,629.29	3/4	1,262.76	3/4	896.53	3/4	530.29	3/4	189.95	3/4		3/4			
3	2,354.72	3	1,988.19	3	1,621.66	3	1,255.12	3	888.90	3	522.71	3	183.45	3		3			
1/4	2,347.09	1/4	1,980.55	1/4	1,614.02	1/4	1,247.49	1/4	881.28	1/4	515.13	1/4	176.95	1/4		1/4			
1/2	2,339.45	1/2	1,972.92	1/2	1,606.38	1/2	1,239.85	1/2	873.66	1/2	507.56	1/2	170.45	1/2		1/2			
3/4	2,331.81	3/4	1,965.28	3/4	1,598.75	3/4	1,232.22	3/4	866.04	3/4	499.98	3/4	163.94	3/4		3/4			
4	2,324.18	4	1,957.64	4	1,591.11	4	1,224.58	4	858.42	4	492.48	4	157.53	4		4			
1/4	2,316.54	1/4	1,950.01	1/4	1,583.48	1/4	1,216.94	1/4	850.79	1/4	484.98	1/4	151.12	1/4		1/4			
1/2	2,308.91	1/2	1,942.37	1/2	1,575.84	1/2	1,209.31	1/2	843.17	1/2	477.48	1/2	144.71	1/2		1/2			
3/4	2,301.27	3/4	1,934.74	3/4	1,568.20	3/4	1,201.67	3/4	835.55	3/4	469.98	3/4	138.30	3/4		3/4			
5	2,293.63	5	1,927.10	5	1,560.57	5	1,194.03	5	827.93	5	462.57	5	131.98	5		5			
1/4	2,286.00	1/4	1,919.46	1/4	1,552.93	1/4	1,186.40	1/4	820.30	1/4	455.17	1/4	125.66	1/4		1/4			
1/2	2,278.36	1/2	1,911.83	1/2	1,545.30	1/2	1,178.76	1/2	812.68	1/2	447.76	1/2	119.34	1/2		1/2			
3/4	2,270.72	3/4	1,904.19	3/4	1,537.66	3/4	1,171.13	3/4	805.06	3/4	440.35	3/4	113.02	3/4		3/4			
6	2,263.09	6	1,896.56	6	1,530.02	6	1,163.49	6	797.43	6	433.03	6	106.80	6		6			
1/4	2,255.45	1/4	1,888.92	1/4	1,522.39	1/4	1,155.85	1/4	789.80	1/4	425.71	1/4	100.58	1/4		1/4			
1/2	2,247.82	1/2	1,881.28	1/2	1,514.75	1/2	1,148.22	1/2	782.17	1/2	418.39	1/2	94.35	1/2		1/2			
3/4	2,240.18	3/4	1,873.65	3/4	1,507.11	3/4	1,140.58	3/4	774.54	3/4	411.07	3/4	88.13	3/4		3/4			
7	2,232.54	7	1,866.01	7	1,499.48	7	1,132.95	7	766.91	7	403.85	7	82.01	7		7			
1/4	2,224.91	1/4	1,858.38	1/4	1,491.84	1/4	1,125.31	1/4	759.27	1/4	396.62	1/4	75.90	1/4		1/4			
1/2	2,217.27	1/2	1,850.74	1/2	1,484.21	1/2	1,117.67	1/2	751.64	1/2	389.39	1/2	69.78	1/2		1/2			
3/4	2,209.64	3/4	1,843.10	3/4	1,476.57	3/4	1,110.04	3/4	744.00	3/4	382.16	3/4	63.67	3/4		3/4			
8	2,202.00	8	1,835.47	8	1,468.93	8	1,102.40	8	736.36	8	375.03	8	58.12	8		8			
1/4	2,194.36	1/4	1,827.83	1/4	1,461.30	1/4	1,094.77	1/4	728.73	1/4	367.89	1/4	52.57	1/4		1/4			
1/2	2,186.73	1/2	1,820.19	1/2	1,453.66	1/2	1,087.14	1/2	721.09	1/2	360.75	1/2	47.01	1/2		1/2			
3/4	2,179.09	3/4	1,812.56	3/4	1,446.03	3/4	1,079.51	3/4	713.46	3/4	353.62	3/4	41.46	3/4		3/4			
9	2,171.46	9	1,804.92	9	1,438.39	9	1,071.88	9	705.82	9	346.57	9	36.97	9		9			
1/4	2,163.82	1/4	1,797.29	1/4	1,430.75	1/4	1,064.25	1/4	698.18	1/4	339.52	1/4	32.48	1/4		1/4			
1/2	2,156.18	1/2	1,789.65	1/2	1,423.12	1/2	1,056.62	1/2	690.55	1/2	332.48	1/2	27.99	1/2		1/2			
3/4	2,148.55	3/4	1,782.01	3/4	1,415.48	3/4	1,048.99	3/4	682.91	3/4	325.43	3/4	23.50	3/4		3/4			
10	2,140.91	10	1,774.38	10	1,407.85	10	1,041.36	10	675.28	10	318.47	10		10		10			
1/4	2,133.27	1/4	1,766.74	1/4	1,400.21	1/4	1,033.73	1/4	667.64	1/4	311.52	1/4		1/4		1/4			
1/2	2,125.64	1/2	1,759.11	1/2	1,392.57	1/2	1,026.11	1/2	660.01	1/2	304.56	1/2		1/2		1/2			
3/4	2,118.00	3/4	1,751.47	3/4	1,384.94	3/4	1,018.48	3/4	652.37	3/4	297.61	3/4		3/4		3/4			
11	2,110.37	11	1,743.83	11	1,377.30	11	1,010.86	11	644.73	11	290.74	11		11		11			
1/4	2,102.73	1/4	1,736.20	1/4	1,369.66	1/4	1,003.24	1/4	637.10	1/4	283.88	1/4		1/4		1/4			
1/2	2,095.09	1/2	1,728.56	1/2	1,362.03	1/2	995.62	1/2	629.46	1/2	277.01	1/2		1/2		1/2			
3/4	2,087.46	3/4	1,720.93	3/4	1,354.39	3/4	987.99	3/4	621.83	3/4	270.15	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

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



# BARGE "KIRBY 29098"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	4,728.18	0	4,418.32	0	4,091.60	0	3,748.62	0	3,404.08	0	3,059.54	0	2,714.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,721.06	1/4	4,411.71	1/4	4,084.58	1/4	3,741.44	1/4	3,396.90	1/4	3,052.36	1/4	2,707.74		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,713.94	1/2	4,405.11	1/2	4,077.57	1/2	3,734.26	1/2	3,389.72	1/2	3,045.18	1/2	2,700.56		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,707.27	3/4	4,398.47	3/4	4,070.52	3/4	3,727.08	3/4	3,382.54	3/4	3,038.00	3/4	2,693.38		
1	1	1	1	1	1	1	4,700.60	1	4,391.83	1	4,063.47	1	3,719.91	1	3,375.37	1	3,030.83	1	2,686.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,693.93	1/4	4,385.19	1/4	4,056.41	1/4	3,712.73	1/4	3,368.19	1/4	3,023.65	1/4	2,679.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,687.26	1/2	4,378.56	1/2	4,049.36	1/2	3,705.55	1/2	3,361.01	1/2	3,016.47	1/2	2,671.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,681.02	3/4	4,371.89	3/4	4,042.28	3/4	3,698.37	3/4	3,353.83	3/4	3,009.29	3/4	2,664.65		
2	2	2	2	2	2	2	4,674.78	2	4,365.22	2	4,035.19	2	3,691.19	2	3,346.65	2	3,002.12	2	2,657.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,668.54	1/4	4,358.55	1/4	4,028.10	1/4	3,684.02	1/4	3,339.48	1/4	2,994.94	1/4	2,650.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,662.31	1/2	4,351.88	1/2	4,021.01	1/2	3,676.84	1/2	3,332.30	1/2	2,987.76	1/2	2,643.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,656.04	3/4	4,345.18	3/4	4,013.90	3/4	3,669.66	3/4	3,325.12	3/4	2,980.58	3/4	2,635.92		
3	3	3	3	3	3	3	4,649.77	3	4,338.48	3	4,006.78	3	3,662.48	3	3,317.94	3	2,973.40	3	2,628.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,643.50	1/4	4,331.78	1/4	3,999.66	1/4	3,655.30	1/4	3,310.76	1/4	2,966.23	1/4	2,621.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,637.24	1/2	4,325.07	1/2	3,992.54	1/2	3,648.13	1/2	3,303.59	1/2	2,959.05	1/2	2,614.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,630.94	3/4	4,318.34	3/4	3,985.39	3/4	3,640.95	3/4	3,296.41	3/4	2,951.87	3/4	2,607.19		
4	4	4	4	4	4	4	4,624.63	4	4,311.61	4	3,978.24	4	3,633.77	4	3,289.23	4	2,944.69	4	2,600.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,618.33	1/4	4,304.88	1/4	3,971.09	1/4	3,626.59	1/4	3,282.05	1/4	2,937.51	1/4	2,592.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,612.03	1/2	4,298.14	1/2	3,963.94	1/2	3,619.41	1/2	3,274.88	1/2	2,930.34	1/2	2,585.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,605.70	3/4	4,291.38	3/4	3,956.76	3/4	3,612.24	3/4	3,267.70	3/4	2,923.16	3/4	2,578.47		
5	5	5	5	5	5	5	4,599.36	5	4,284.61	5	3,949.59	5	3,605.06	5	3,260.52	5	2,915.98	5	2,571.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,593.02	1/4	4,277.85	1/4	3,942.42	1/4	3,597.88	1/4	3,253.34	1/4	2,908.80	1/4	2,564.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,586.69	1/2	4,271.09	1/2	3,935.24	1/2	3,590.70	1/2	3,246.16	1/2	2,901.62	1/2	2,556.92		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,580.32	3/4	4,264.29	3/4	3,928.06	3/4	3,583.53	3/4	3,238.99	3/4	2,894.45	3/4	2,549.74		
6	6	6	6	6	6	6	4,573.95	6	4,257.49	6	3,920.89	6	3,576.35	6	3,231.81	6	2,887.27	6	2,542.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,567.58	1/4	4,250.70	1/4	3,913.71	1/4	3,569.17	1/4	3,224.63	1/4	2,880.09	1/4	2,535.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.21	1/2	4,243.90	1/2	3,906.53	1/2	3,561.99	1/2	3,217.45	1/2	2,872.91	1/2	2,528.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,554.81	3/4	4,237.07	3/4	3,899.35	3/4	3,554.81	3/4	3,210.27	3/4	2,865.73	3/4	2,521.01		
7	7	7	7	7	7	7	4,548.41	7	4,230.24	7	3,892.17	7	3,547.64	7	3,203.10	7	2,858.56	7	2,513.83		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,542.01	1/4	4,223.41	1/4	3,885.00	1/4	3,540.46	1/4	3,195.92	1/4	2,851.38	1/4	2,506.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,535.61	1/2	4,216.57	1/2	3,877.82	1/2	3,533.28	1/2	3,188.74	1/2	2,844.20	1/2	2,499.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,529.18	3/4	4,209.70	3/4	3,870.64	3/4	3,526.10	3/4	3,181.56	3/4	2,837.02	3/4	2,492.28		
8	8	8	8	8	8	8	4,837.81	8	4,522.75	8	4,202.82	8	3,863.46	8	3,518.92	8	3,174.38	8	2,829.84	8	2,485.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,832.12	1/4	4,516.32	1/4	4,195.94	1/4	3,856.29	1/4	3,511.75	1/4	3,167.21	1/4	2,822.65	1/4	2,477.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,826.44	1/2	4,509.89	1/2	4,189.06	1/2	3,849.11	1/2	3,504.57	1/2	3,160.03	1/2	2,815.47	1/2	2,470.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,819.67	3/4	4,503.40	3/4	4,182.14	3/4	3,841.93	3/4	3,497.39	3/4	3,152.85	3/4	2,808.29	3/4	2,463.55
9	9	9	9	9	9	9	4,812.91	9	4,496.92	9	4,175.22	9	3,834.75	9	3,490.21	9	3,145.67	9	2,801.11	9	2,456.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,806.15	1/4	4,490.44	1/4	4,168.30	1/4	3,827.57	1/4	3,483.03	1/4	3,138.50	1/4	2,793.93	1/4	2,449.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,799.39	1/2	4,483.95	1/2	4,161.38	1/2	3,820.40	1/2	3,475.86	1/2	3,131.32	1/2	2,786.74	1/2	2,442.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,792.27	3/4	4,477.42	3/4	4,154.42	3/4	3,813.22	3/4	3,468.68	3/4	3,124.14	3/4	2,779.56	3/4	2,434.83
10	10	10	10	10	10	10	4,785.15	10	4,470.88	10	4,147.47	10	3,806.04	10	3,461.50	10	3,116.96	10	2,772.38	10	2,427.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.03	1/4	4,464.35	1/4	4,140.52	1/4	3,798.86	1/4	3,454.32	1/4	3,109.78	1/4	2,765.20	1/4	2,420.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,770.91	1/2	4,457.81	1/2	4,133.57	1/2	3,791.68	1/2	3,447.14	1/2	3,102.61	1/2	2,758.02	1/2	2,413.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,763.79	3/4	4,451.24	3/4	4,126.58	3/4	3,784.51	3/4	3,439.97	3/4	3,095.43	3/4	2,750.83	3/4	2,406.10
11	11	11	11	11	11	11	4,756.66	11	4,444.67	11	4,119.60	11	3,777.33	11	3,432.79	11	3,088.25	11	2,743.65	11	2,398.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,749.54	1/4	4,438.10	1/4	4,112.62	1/4	3,770.15	1/4	3,425.61	1/4	3,081.07	1/4	2,736.47	1/4	2,391.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,742.42	1/2	4,431.53	1/2	4,105.63	1/2	3,762.97	1/2	3,418.43	1/2	3,073.89	1/2	2,729.29	1/2	2,384.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,735.30	3/4	4,424.93	3/4	4,098.62	3/4	3,755.79	3/4	3,411.26	3/4	3,066.72	3/4	2,722.11	3/4	2,377.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29098"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,370.19	0	2,025.45	0	1,680.72	0	1,335.98	0	997.10	0	660.89	0	316.17	0		0			
1/4	2,363.01	1/4	2,018.27	1/4	1,673.53	1/4	1,328.80	1/4	990.23	1/4	653.71	1/4	308.99	1/4		1/4		1/4	
1/2	2,355.82	1/2	2,011.09	1/2	1,666.35	1/2	1,321.62	1/2	983.35	1/2	646.53	1/2	301.81	1/2		1/2		1/2	
3/4	2,348.64	3/4	2,003.91	3/4	1,659.17	3/4	1,314.43	3/4	976.47	3/4	639.35	3/4	294.63	3/4		3/4		3/4	
1	2,341.46	1	1,996.72	1	1,651.99	1	1,307.25	1	969.59	1	632.17	1	287.44	1		1		1	
1/4	2,334.28	1/4	1,989.54	1/4	1,644.81	1/4	1,300.07	1/4	962.72	1/4	624.98	1/4	280.26	1/4		1/4		1/4	
1/2	2,327.10	1/2	1,982.36	1/2	1,637.62	1/2	1,292.89	1/2	955.84	1/2	617.80	1/2	273.08	1/2		1/2		1/2	
3/4	2,319.91	3/4	1,975.18	3/4	1,630.44	3/4	1,285.71	3/4	948.96	3/4	610.62	3/4	265.90	3/4		3/4		3/4	
2	2,312.73	2	1,968.00	2	1,623.26	2	1,278.52	2	942.08	2	603.44	2	258.72	2		2		2	
1/4	2,305.55	1/4	1,960.81	1/4	1,616.08	1/4	1,271.34	1/4	935.21	1/4	596.26	1/4	251.54	1/4		1/4		1/4	
1/2	2,298.37	1/2	1,953.63	1/2	1,608.90	1/2	1,264.16	1/2	928.33	1/2	589.08	1/2	244.35	1/2		1/2		1/2	
3/4	2,291.19	3/4	1,946.45	3/4	1,601.71	3/4	1,256.98	3/4	921.45	3/4	581.89	3/4	237.17	3/4		3/4		3/4	
3	2,284.00	3	1,939.27	3	1,594.53	3	1,249.80	3	914.57	3	574.71	3	229.99	3		3		3	
1/4	2,276.82	1/4	1,932.09	1/4	1,587.35	1/4	1,242.61	1/4	907.70	1/4	567.53	1/4	222.81	1/4		1/4		1/4	
1/2	2,269.64	1/2	1,924.90	1/2	1,580.17	1/2	1,235.43	1/2	900.82	1/2	560.35	1/2	215.63	1/2		1/2		1/2	
3/4	2,262.46	3/4	1,917.72	3/4	1,572.99	3/4	1,228.25	3/4	893.94	3/4	553.17	3/4	208.45	3/4		3/4		3/4	
4	2,255.28	4	1,910.54	4	1,565.80	4	1,221.07	4	887.06	4	545.99	4	201.26	4		4		4	
1/4	2,248.09	1/4	1,903.36	1/4	1,558.62	1/4	1,213.89	1/4	880.18	1/4	538.80	1/4	194.08	1/4		1/4		1/4	
1/2	2,240.91	1/2	1,896.18	1/2	1,551.44	1/2	1,206.70	1/2	873.31	1/2	531.62	1/2	186.90	1/2		1/2		1/2	
3/4	2,233.73	3/4	1,888.99	3/4	1,544.26	3/4	1,199.52	3/4	866.43	3/4	524.44	3/4	179.72	3/4		3/4		3/4	
5	2,226.55	5	1,881.81	5	1,537.08	5	1,192.34	5	859.55	5	517.26	5	172.54	5		5		5	
1/4	2,219.37	1/4	1,874.63	1/4	1,529.89	1/4	1,185.16	1/4	852.67	1/4	510.08	1/4	165.36	1/4		1/4		1/4	
1/2	2,212.18	1/2	1,867.45	1/2	1,522.71	1/2	1,177.98	1/2	845.80	1/2	502.90	1/2	158.17	1/2		1/2		1/2	
3/4	2,205.00	3/4	1,860.27	3/4	1,515.53	3/4	1,170.79	3/4	838.92	3/4	495.71	3/4	150.99	3/4		3/4		3/4	
6	2,197.82	6	1,853.08	6	1,508.35	6	1,163.61	6	832.04	6	488.53	6	143.81	6		6		6	
1/4	2,190.64	1/4	1,845.90	1/4	1,501.17	1/4	1,156.43	1/4	825.16	1/4	481.35	1/4	136.63	1/4		1/4		1/4	
1/2	2,183.46	1/2	1,838.72	1/2	1,493.98	1/2	1,149.25	1/2	818.29	1/2	474.17	1/2	129.45	1/2		1/2		1/2	
3/4	2,176.27	3/4	1,831.54	3/4	1,486.80	3/4	1,142.21	3/4	811.26	3/4	466.99	3/4	122.27	3/4		3/4		3/4	
7	2,169.09	7	1,824.36	7	1,479.62	7	1,135.17	7	804.22	7	459.81	7	115.10	7		7		7	
1/4	2,161.91	1/4	1,817.17	1/4	1,472.44	1/4	1,128.13	1/4	797.19	1/4	452.62	1/4	107.92	1/4		1/4		1/4	
1/2	2,154.73	1/2	1,809.99	1/2	1,465.26	1/2	1,121.09	1/2	790.16	1/2	445.44	1/2	100.75	1/2		1/2		1/2	
3/4	2,147.55	3/4	1,802.81	3/4	1,458.07	3/4	1,114.19	3/4	782.98	3/4	438.26	3/4	93.59	3/4		3/4		3/4	
8	2,140.36	8	1,795.63	8	1,450.89	8	1,107.29	8	775.80	8	431.08	8	86.43	8		8		8	
1/4	2,133.18	1/4	1,788.45	1/4	1,443.71	1/4	1,100.39	1/4	768.62	1/4	423.90	1/4	79.27	1/4		1/4		1/4	
1/2	2,126.00	1/2	1,781.26	1/2	1,436.53	1/2	1,093.49	1/2	761.44	1/2	416.72	1/2	72.11	1/2		1/2		1/2	
3/4	2,118.82	3/4	1,774.08	3/4	1,429.35	3/4	1,086.60	3/4	754.25	3/4	409.53	3/4	65.39	3/4		3/4		3/4	
9	2,111.64	9	1,766.90	9	1,422.16	9	1,079.71	9	747.07	9	402.35	9	58.68	9		9		9	
1/4	2,104.45	1/4	1,759.72	1/4	1,414.98	1/4	1,072.81	1/4	739.89	1/4	395.17	1/4	51.96	1/4		1/4		1/4	
1/2	2,097.27	1/2	1,752.54	1/2	1,407.80	1/2	1,065.92	1/2	732.71	1/2	387.99	1/2	45.25	1/2		1/2		1/2	
3/4	2,090.09	3/4	1,745.35	3/4	1,400.62	3/4	1,059.04	3/4	725.53	3/4	380.81	3/4	39.86	3/4		3/4		3/4	
10	2,082.91	10	1,738.17	10	1,393.44	10	1,052.15	10	718.35	10	373.62	10	34.48	10		10		10	
1/4	2,075.73	1/4	1,730.99	1/4	1,386.25	1/4	1,045.27	1/4	711.16	1/4	366.44	1/4	29.09	1/4		1/4		1/4	
1/2	2,068.54	1/2	1,723.81	1/2	1,379.07	1/2	1,038.38	1/2	703.98	1/2	359.26	1/2	23.71	1/2		1/2		1/2	
3/4	2,061.36	3/4	1,716.63	3/4	1,371.89	3/4	1,031.50	3/4	696.80	3/4	352.08	3/4		3/4		3/4		3/4	
11	2,054.18	11	1,709.44	11	1,364.71	11	1,024.62	11	689.62	11	344.90	11		11		11		11	
1/4	2,047.00	1/4	1,702.26	1/4	1,357.53	1/4	1,017.74	1/4	682.44	1/4	337.72	1/4		1/4		1/4		1/4	
1/2	2,039.82	1/2	1,695.08	1/2	1,350.34	1/2	1,010.86	1/2	675.26	1/2	330.53	1/2		1/2		1/2		1/2	
3/4	2,032.63	3/4	1,687.90	3/4	1,343.16	3/4	1,003.98	3/4	668.07	3/4	323.35	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

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



# BARGE "KIRBY 29098"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	4,740.31	0	4,430.56	0	4,103.97	0	3,761.12	0	3,416.71	0	3,072.30	0	2,727.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,733.19	1/4	4,423.96	1/4	4,096.95	1/4	3,753.94	1/4	3,409.53	1/4	3,065.12	1/4	2,720.64		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,726.07	1/2	4,417.35	1/2	4,089.94	1/2	3,746.76	1/2	3,402.36	1/2	3,057.95	1/2	2,713.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,719.40	3/4	4,410.72	3/4	4,082.89	3/4	3,739.59	3/4	3,395.18	3/4	3,050.77	3/4	2,706.28		
1	1	1	1	1	1	1	4,712.73	1	4,404.08	1	4,075.84	1	3,732.41	1	3,388.00	1	3,043.60	1	2,699.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,706.06	1/4	4,397.45	1/4	4,068.79	1/4	3,725.24	1/4	3,380.83	1/4	3,036.42	1/4	2,691.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,699.40	1/2	4,390.81	1/2	4,061.74	1/2	3,718.06	1/2	3,373.65	1/2	3,029.24	1/2	2,684.74		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,693.16	3/4	4,384.15	3/4	4,054.66	3/4	3,710.89	3/4	3,366.48	3/4	3,022.07	3/4	2,677.56		
2	2	2	2	2	2	2	4,686.93	2	4,377.48	2	4,047.58	2	3,703.71	2	3,359.30	2	3,014.89	2	2,670.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,680.69	1/4	4,370.81	1/4	4,040.49	1/4	3,696.54	1/4	3,352.13	1/4	3,007.72	1/4	2,663.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,674.45	1/2	4,364.14	1/2	4,033.41	1/2	3,689.36	1/2	3,344.95	1/2	3,000.54	1/2	2,656.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,668.19	3/4	4,357.45	3/4	4,026.29	3/4	3,682.19	3/4	3,337.78	3/4	2,993.37	3/4	2,648.84		
3	3	3	3	3	3	3	4,661.92	3	4,350.75	3	4,019.17	3	3,675.01	3	3,330.60	3	2,986.19	3	2,641.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,655.66	1/4	4,344.05	1/4	4,012.06	1/4	3,667.84	1/4	3,323.43	1/4	2,979.02	1/4	2,634.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,649.39	1/2	4,337.35	1/2	4,004.94	1/2	3,660.66	1/2	3,316.25	1/2	2,971.84	1/2	2,627.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,643.10	3/4	4,330.62	3/4	3,997.79	3/4	3,653.49	3/4	3,309.08	3/4	2,964.67	3/4	2,620.13		
4	4	4	4	4	4	4	4,636.80	4	4,323.89	4	3,990.65	4	3,646.31	4	3,301.90	4	2,957.49	4	2,612.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,630.50	1/4	4,317.16	1/4	3,983.50	1/4	3,639.14	1/4	3,294.73	1/4	2,950.32	1/4	2,605.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,624.20	1/2	4,310.43	1/2	3,976.35	1/2	3,631.96	1/2	3,287.55	1/2	2,943.14	1/2	2,598.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,617.87	3/4	4,303.67	3/4	3,969.18	3/4	3,624.79	3/4	3,280.38	3/4	2,935.97	3/4	2,591.41		
5	5	5	5	5	5	5	4,611.53	5	4,296.91	5	3,962.01	5	3,617.61	5	3,273.20	5	2,928.79	5	2,584.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,605.20	1/4	4,290.14	1/4	3,954.84	1/4	3,610.44	1/4	3,266.03	1/4	2,921.62	1/4	2,577.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,598.86	1/2	4,283.38	1/2	3,947.67	1/2	3,603.26	1/2	3,258.85	1/2	2,914.44	1/2	2,569.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,592.50	3/4	4,276.59	3/4	3,940.50	3/4	3,596.09	3/4	3,251.68	3/4	2,907.27	3/4	2,562.69		
6	6	6	6	6	6	6	4,586.13	6	4,269.80	6	3,933.32	6	3,588.91	6	3,244.50	6	2,900.09	6	2,555.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,579.76	1/4	4,263.00	1/4	3,926.14	1/4	3,581.74	1/4	3,237.33	1/4	2,892.92	1/4	2,548.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,573.40	1/2	4,256.21	1/2	3,918.97	1/2	3,574.56	1/2	3,230.15	1/2	2,885.74	1/2	2,541.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,567.00	3/4	4,249.38	3/4	3,911.79	3/4	3,567.38	3/4	3,222.98	3/4	2,878.57	3/4	2,533.98		
7	7	7	7	7	7	7	4,560.60	7	4,242.55	7	3,904.62	7	3,560.21	7	3,215.80	7	2,871.39	7	2,526.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,554.21	1/4	4,235.72	1/4	3,897.44	1/4	3,553.03	1/4	3,208.62	1/4	2,864.22	1/4	2,519.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,547.81	1/2	4,228.89	1/2	3,890.27	1/2	3,545.86	1/2	3,201.45	1/2	2,857.04	1/2	2,512.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,541.38	3/4	4,222.02	3/4	3,883.09	3/4	3,538.68	3/4	3,194.27	3/4	2,849.86	3/4	2,505.26		
8	8	8	8	8	8	8	4,849.89	8	4,534.95	8	4,215.14	8	3,875.92	8	3,531.51	8	3,187.10	8	2,842.69	8	2,498.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,844.20	1/4	4,528.52	1/4	4,208.26	1/4	3,868.74	1/4	3,524.33	1/4	3,179.92	1/4	2,835.51	1/4	2,490.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,838.52	1/2	4,522.09	1/2	4,201.39	1/2	3,861.57	1/2	3,517.16	1/2	3,172.75	1/2	2,828.33	1/2	2,483.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,831.76	3/4	4,515.61	3/4	4,194.47	3/4	3,854.39	3/4	3,509.98	3/4	3,165.57	3/4	2,821.15	3/4	2,476.54
9	9	9	9	9	9	9	4,825.00	9	4,509.13	9	4,187.55	9	3,847.22	9	3,502.81	9	3,158.40	9	2,813.97	9	2,469.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,818.24	1/4	4,502.65	1/4	4,180.63	1/4	3,840.04	1/4	3,495.63	1/4	3,151.22	1/4	2,806.79	1/4	2,462.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,811.48	1/2	4,496.17	1/2	4,173.72	1/2	3,832.87	1/2	3,488.46	1/2	3,144.05	1/2	2,799.61	1/2	2,455.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,804.37	3/4	4,489.64	3/4	4,166.77	3/4	3,825.69	3/4	3,481.28	3/4	3,136.87	3/4	2,792.43	3/4	2,447.82
10	10	10	10	10	10	10	4,797.25	10	4,483.10	10	4,159.82	10	3,818.52	10	3,474.11	10	3,129.70	10	2,785.25	10	2,440.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,790.13	1/4	4,476.57	1/4	4,152.87	1/4	3,811.34	1/4	3,466.93	1/4	3,122.52	1/4	2,778.07	1/4	2,433.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,783.01	1/2	4,470.04	1/2	4,145.92	1/2	3,804.17	1/2	3,459.76	1/2	3,115.35	1/2	2,770.89	1/2	2,426.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,775.90	3/4	4,463.47	3/4	4,138.94	3/4	3,796.99	3/4	3,452.58	3/4	3,108.17	3/4	2,763.71	3/4	2,419.11
11	11	11	11	11	11	11	4,768.78	11	4,456.90	11	4,131.95	11	3,789.82	11	3,445.41	11	3,101.00	11	2,756.53	11	2,411.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,761.66	1/4	4,450.34	1/4	4,124.97	1/4	3,782.64	1/4	3,438.23	1/4	3,093.82	1/4	2,749.35	1/4	2,404.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,754.54	1/2	4,443.77	1/2	4,117.99	1/2	3,775.47	1/2	3,431.06	1/2	3,086.65	1/2	2,742.18	1/2	2,397.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,747.42	3/4	4,437.16	3/4	4,110.98	3/4	3,768.29	3/4	3,423.88	3/4	3,079.47	3/4	2,735.00	3/4	2,390.39

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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





# BARGE "KIRBY 29098"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,383.21	0	2,038.60	0	1,694.00	0	1,349.39	0	1,004.88	0	660.64	0	316.05	0		0			
1/4	2,376.03	1/4	2,031.42	1/4	1,686.82	1/4	1,342.21	1/4	997.72	1/4	653.46	1/4	308.87	1/4		1/4			
1/2	2,368.85	1/2	2,024.25	1/2	1,679.64	1/2	1,335.03	1/2	990.55	1/2	646.29	1/2	301.69	1/2		1/2			
3/4	2,361.67	3/4	2,017.07	3/4	1,672.46	3/4	1,327.85	3/4	983.38	3/4	639.11	3/4	294.51	3/4		3/4			
1	2,354.49	1	2,009.89	1	1,665.28	1	1,320.67	1	976.22	1	631.93	1	287.34	1		1			
1/4	2,347.31	1/4	2,002.71	1/4	1,658.10	1/4	1,313.49	1/4	969.05	1/4	624.75	1/4	280.16	1/4		1/4			
1/2	2,340.13	1/2	1,995.53	1/2	1,650.92	1/2	1,306.32	1/2	961.88	1/2	617.57	1/2	272.98	1/2		1/2			
3/4	2,332.96	3/4	1,988.35	3/4	1,643.74	3/4	1,299.14	3/4	954.72	3/4	610.39	3/4	265.80	3/4		3/4			
2	2,325.78	2	1,981.17	2	1,636.56	2	1,291.96	2	947.55	2	603.21	2	258.62	2		2			
1/4	2,318.60	1/4	1,973.99	1/4	1,629.38	1/4	1,284.78	1/4	940.39	1/4	596.03	1/4	251.44	1/4		1/4			
1/2	2,311.42	1/2	1,966.81	1/2	1,622.20	1/2	1,277.60	1/2	933.22	1/2	588.85	1/2	244.26	1/2		1/2			
3/4	2,304.24	3/4	1,959.63	3/4	1,615.03	3/4	1,270.42	3/4	926.05	3/4	581.67	3/4	237.08	3/4		3/4			
3	2,297.06	3	1,952.45	3	1,607.85	3	1,263.24	3	918.89	3	574.50	3	229.90	3		3			
1/4	2,289.88	1/4	1,945.27	1/4	1,600.67	1/4	1,256.06	1/4	911.72	1/4	567.32	1/4	222.72	1/4		1/4			
1/2	2,282.70	1/2	1,938.09	1/2	1,593.49	1/2	1,248.88	1/2	904.55	1/2	560.14	1/2	215.55	1/2		1/2			
3/4	2,275.52	3/4	1,930.91	3/4	1,586.31	3/4	1,241.70	3/4	897.39	3/4	552.96	3/4	208.37	3/4		3/4			
4	2,268.34	4	1,923.74	4	1,579.13	4	1,234.52	4	890.22	4	545.78	4	201.19	4		4			
1/4	2,261.16	1/4	1,916.56	1/4	1,571.95	1/4	1,227.34	1/4	883.06	1/4	538.60	1/4	194.01	1/4		1/4			
1/2	2,253.98	1/2	1,909.38	1/2	1,564.77	1/2	1,220.16	1/2	875.89	1/2	531.42	1/2	186.83	1/2		1/2			
3/4	2,246.80	3/4	1,902.20	3/4	1,557.59	3/4	1,212.98	3/4	868.72	3/4	524.24	3/4	179.65	3/4		3/4			
5	2,239.62	5	1,895.02	5	1,550.41	5	1,205.81	5	861.56	5	517.06	5	172.47	5		5			
1/4	2,232.44	1/4	1,887.84	1/4	1,543.23	1/4	1,198.63	1/4	854.39	1/4	509.88	1/4	165.29	1/4		1/4			
1/2	2,225.27	1/2	1,880.66	1/2	1,536.05	1/2	1,191.45	1/2	847.22	1/2	502.71	1/2	158.11	1/2		1/2			
3/4	2,218.09	3/4	1,873.48	3/4	1,528.87	3/4	1,184.27	3/4	840.06	3/4	495.53	3/4	150.94	3/4		3/4			
6	2,210.91	6	1,866.30	6	1,521.69	6	1,177.09	6	832.89	6	488.35	6	143.76	6		6			
1/4	2,203.73	1/4	1,859.12	1/4	1,514.51	1/4	1,169.91	1/4	825.72	1/4	481.17	1/4	136.58	1/4		1/4			
1/2	2,196.55	1/2	1,851.94	1/2	1,507.34	1/2	1,162.73	1/2	818.56	1/2	473.99	1/2	129.40	1/2		1/2			
3/4	2,189.37	3/4	1,844.76	3/4	1,500.16	3/4	1,155.55	3/4	811.39	3/4	466.81	3/4	122.23	3/4		3/4			
7	2,182.19	7	1,837.58	7	1,492.98	7	1,148.37	7	804.21	7	459.63	7	115.05	7		7			
1/4	2,175.01	1/4	1,830.40	1/4	1,485.80	1/4	1,141.19	1/4	797.04	1/4	452.45	1/4	107.88	1/4		1/4			
1/2	2,167.83	1/2	1,823.22	1/2	1,478.62	1/2	1,134.01	1/2	789.87	1/2	445.27	1/2	100.71	1/2		1/2			
3/4	2,160.65	3/4	1,816.05	3/4	1,471.44	3/4	1,126.83	3/4	782.69	3/4	438.09	3/4	93.55	3/4		3/4			
8	2,153.47	8	1,808.87	8	1,464.26	8	1,119.65	8	775.51	8	430.92	8	86.39	8		8			
1/4	2,146.29	1/4	1,801.69	1/4	1,457.08	1/4	1,112.47	1/4	768.33	1/4	423.74	1/4	79.24	1/4		1/4			
1/2	2,139.11	1/2	1,794.51	1/2	1,449.90	1/2	1,105.29	1/2	761.15	1/2	416.56	1/2	72.08	1/2		1/2			
3/4	2,131.93	3/4	1,787.33	3/4	1,442.72	3/4	1,098.12	3/4	753.97	3/4	409.38	3/4	65.37	3/4		3/4			
9	2,124.76	9	1,780.15	9	1,435.54	9	1,090.94	9	746.79	9	402.20	9	58.66	9		9			
1/4	2,117.58	1/4	1,772.97	1/4	1,428.36	1/4	1,083.77	1/4	739.61	1/4	395.02	1/4	51.94	1/4		1/4			
1/2	2,110.40	1/2	1,765.79	1/2	1,421.18	1/2	1,076.59	1/2	732.43	1/2	387.84	1/2	45.23	1/2		1/2			
3/4	2,103.22	3/4	1,758.61	3/4	1,414.00	3/4	1,069.42	3/4	725.25	3/4	380.66	3/4	39.85	3/4		3/4			
10	2,096.04	10	1,751.43	10	1,406.83	10	1,062.24	10	718.08	10	373.48	10	34.46	10		10			
1/4	2,088.86	1/4	1,744.25	1/4	1,399.65	1/4	1,055.07	1/4	710.90	1/4	366.30	1/4	29.08	1/4		1/4			
1/2	2,081.68	1/2	1,737.07	1/2	1,392.47	1/2	1,047.89	1/2	703.72	1/2	359.13	1/2	23.70	1/2		1/2			
3/4	2,074.50	3/4	1,729.89	3/4	1,385.29	3/4	1,040.72	3/4	696.54	3/4	351.95	3/4		3/4		3/4			
11	2,067.32	11	1,722.71	11	1,378.11	11	1,033.55	11	689.36	11	344.77	11		11		11			
1/4	2,060.14	1/4	1,715.54	1/4	1,370.93	1/4	1,026.38	1/4	682.18	1/4	337.59	1/4		1/4		1/4			
1/2	2,052.96	1/2	1,708.36	1/2	1,363.75	1/2	1,019.21	1/2	675.00	1/2	330.41	1/2		1/2		1/2			
3/4	2,045.78	3/4	1,701.18	3/4	1,356.57	3/4	1,012.05	3/4	667.82	3/4	323.23	3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

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



# BARGE "KIRBY 29098"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,568.18	0	4,341.94	0	4,101.76	0	3,850.30	0	3,577.06	0	3,213.58	0	2,849.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,563.29	1/4	4,337.08	1/4	4,096.60	1/4	3,845.04	1/4	3,569.49	1/4	3,205.99	1/4	2,841.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.41	1/2	4,332.22	1/2	4,091.44	1/2	3,839.78	1/2	3,561.92	1/2	3,198.41	1/2	2,834.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,553.52	3/4	4,327.36	3/4	4,086.27	3/4	3,834.53	3/4	3,554.35	3/4	3,190.82	3/4	2,826.60		
1	1	1	1	1	1	1	4,548.95	1	4,322.47	1	4,081.08	1	3,829.27	1	3,546.78	1	3,183.23	1	2,819.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,544.38	1/4	4,317.59	1/4	4,075.89	1/4	3,824.02	1/4	3,539.22	1/4	3,175.65	1/4	2,811.42		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,539.81	1/2	4,312.70	1/2	4,070.70	1/2	3,818.76	1/2	3,531.65	1/2	3,168.06	1/2	2,803.83		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,535.24	3/4	4,307.82	3/4	4,065.51	3/4	3,813.50	3/4	3,524.09	3/4	3,160.47	3/4	2,796.25		
2	2	2	2	2	2	2	4,530.64	2	4,302.91	2	4,060.30	2	3,808.25	2	3,516.52	2	3,152.89	2	2,788.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,526.05	1/4	4,298.00	1/4	4,055.09	1/4	3,802.99	1/4	3,508.95	1/4	3,145.30	1/4	2,781.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,521.46	1/2	4,293.09	1/2	4,049.88	1/2	3,797.74	1/2	3,501.39	1/2	3,137.72	1/2	2,773.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,516.87	3/4	4,288.18	3/4	4,044.66	3/4	3,792.48	3/4	3,493.82	3/4	3,130.13	3/4	2,765.89		
3	3	3	3	3	3	3	4,512.25	3	4,283.25	3	4,039.43	3	3,787.22	3	3,486.26	3	3,122.54	3	2,758.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,507.63	1/4	4,278.32	1/4	4,034.19	1/4	3,781.97	1/4	3,478.69	1/4	3,114.96	1/4	2,750.71		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,503.02	1/2	4,273.39	1/2	4,028.96	1/2	3,776.71	1/2	3,471.13	1/2	3,107.37	1/2	2,743.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,498.40	3/4	4,268.46	3/4	4,023.72	3/4	3,771.46	3/4	3,463.56	3/4	3,099.78	3/4	2,735.53		
4	4	4	4	4	4	4	4,493.76	4	4,263.50	4	4,018.47	4	3,766.20	4	3,455.99	4	3,092.20	4	2,727.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,489.11	1/4	4,258.55	1/4	4,013.22	1/4	3,760.94	1/4	3,448.43	1/4	3,084.61	1/4	2,720.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,484.47	1/2	4,253.59	1/2	4,007.97	1/2	3,755.69	1/2	3,440.86	1/2	3,077.02	1/2	2,712.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,479.83	3/4	4,248.64	3/4	4,002.72	3/4	3,750.43	3/4	3,433.30	3/4	3,069.44	3/4	2,705.18		
5	5	5	5	5	5	5	4,475.16	5	4,243.66	5	3,997.46	5	3,745.18	5	3,425.73	5	3,061.85	5	2,697.59		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,470.49	1/4	4,238.68	1/4	3,992.21	1/4	3,739.92	1/4	3,418.17	1/4	3,054.27	1/4	2,690.00		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,465.83	1/2	4,233.71	1/2	3,986.95	1/2	3,734.66	1/2	3,410.60	1/2	3,046.68	1/2	2,682.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,461.16	3/4	4,228.73	3/4	3,981.70	3/4	3,729.41	3/4	3,403.03	3/4	3,039.09	3/4	2,674.82		
6	6	6	6	6	6	6	4,456.47	6	4,223.72	6	3,976.44	6	3,724.15	6	3,395.47	6	3,031.50	6	2,667.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,451.78	1/4	4,218.72	1/4	3,971.18	1/4	3,718.90	1/4	3,387.90	1/4	3,023.92	1/4	2,659.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.09	1/2	4,213.72	1/2	3,965.93	1/2	3,713.64	1/2	3,380.34	1/2	3,016.33	1/2	2,652.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,442.40	3/4	4,208.71	3/4	3,960.67	3/4	3,708.38	3/4	3,372.77	3/4	3,008.74	3/4	2,644.45		
7	7	7	7	7	7	7	4,437.69	7	4,203.68	7	3,955.42	7	3,703.13	7	3,365.21	7	3,001.15	7	2,636.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,662.40	1/4	4,432.98	1/4	4,198.64	1/4	3,950.16	1/4	3,697.87	1/4	3,357.64	1/4	2,993.56	1/4	2,629.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.70	1/2	4,428.27	1/2	4,193.60	1/2	3,944.90	1/2	3,692.62	1/2	3,350.07	1/2	2,985.97	1/2	2,621.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,655.01	3/4	4,423.55	3/4	4,188.56	3/4	3,939.65	3/4	3,687.36	3/4	3,342.51	3/4	2,978.38	3/4	2,614.06
8	8	8	8	8	8	8	4,650.17	8	4,418.80	8	4,183.50	8	3,934.39	8	3,682.10	8	3,334.93	8	2,970.80	8	2,606.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,645.34	1/4	4,414.05	1/4	4,178.43	1/4	3,929.14	1/4	3,676.85	1/4	3,327.36	1/4	2,963.21	1/4	2,598.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,640.50	1/2	4,409.30	1/2	4,173.36	1/2	3,923.88	1/2	3,671.59	1/2	3,319.78	1/2	2,955.62	1/2	2,591.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,635.67	3/4	4,404.55	3/4	4,168.29	3/4	3,918.62	3/4	3,666.34	3/4	3,312.20	3/4	2,948.03	3/4	2,583.68
9	9	9	9	9	9	9	4,630.45	9	4,399.77	9	4,163.20	9	3,913.37	9	3,660.49	9	3,304.62	9	2,940.44	9	2,576.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,625.24	1/4	4,394.98	1/4	4,158.11	1/4	3,908.11	1/4	3,654.65	1/4	3,297.03	1/4	2,932.85	1/4	2,568.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,620.02	1/2	4,390.20	1/2	4,153.02	1/2	3,902.86	1/2	3,648.80	1/2	3,289.44	1/2	2,925.26	1/2	2,560.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,614.80	3/4	4,385.41	3/4	4,147.93	3/4	3,897.60	3/4	3,642.96	3/4	3,281.86	3/4	2,917.67	3/4	2,553.29
10	10	10	10	10	10	10	4,609.59	10	4,380.60	10	4,142.82	10	3,892.34	10	3,635.96	10	3,274.27	10	2,910.08	10	2,545.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,604.37	1/4	4,375.78	1/4	4,137.70	1/4	3,887.09	1/4	3,628.95	1/4	3,266.68	1/4	2,902.49	1/4	2,538.14
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,599.15	1/2	4,370.97	1/2	4,132.59	1/2	3,881.83	1/2	3,621.95	1/2	3,259.10	1/2	2,894.90	1/2	2,530.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,593.94	3/4	4,366.16	3/4	4,127.47	3/4	3,876.58	3/4	3,614.94	3/4	3,251.51	3/4	2,887.32	3/4	2,522.98
11	11	11	11	11	11	11	4,588.72	11	4,361.32	11	4,122.34	11	3,871.32	11	3,607.36	11	3,243.93	11	2,879.73	11	2,515.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,583.50	1/4	4,356.48	1/4	4,117.20	1/4	3,866.06	1/4	3,599.79	1/4	3,236.34	1/4	2,872.14	1/4	2,507.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,578.28	1/2	4,351.64	1/2	4,112.06	1/2	3,860.81	1/2	3,592.21	1/2	3,228.75	1/2	2,864.55	1/2	2,500.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.07	3/4	4,346.80	3/4	4,106.93	3/4	3,855.55	3/4	3,584.63	3/4	3,221.17	3/4	2,856.96	3/4	2,492.75

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29098"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 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	2,485.19	0	2,122.98	0	1,759.92	0	1,395.29	0	1,035.73	0	676.76	0	311.96	0		0		0	
1/4	2,477.64	1/4	2,115.44	1/4	1,752.32	1/4	1,387.69	1/4	1,028.37	1/4	669.16	1/4	304.36	1/4		1/4		1/4	
1/2	2,470.08	1/2	2,107.91	1/2	1,744.73	1/2	1,380.10	1/2	1,021.00	1/2	661.56	1/2	296.76	1/2		1/2		1/2	
3/4	2,462.52	3/4	2,100.38	3/4	1,737.13	3/4	1,372.50	3/4	1,013.63	3/4	653.96	3/4	289.16	3/4		3/4		3/4	
1	2,454.96	1	2,092.84	1	1,729.53	1	1,364.90	1	1,006.27	1	646.36	1	281.56	1		1		1	
1/4	2,447.40	1/4	2,085.31	1/4	1,721.94	1/4	1,357.31	1/4	998.90	1/4	638.76	1/4	273.96	1/4		1/4		1/4	
1/2	2,439.85	1/2	2,077.77	1/2	1,714.34	1/2	1,349.71	1/2	991.53	1/2	631.16	1/2	266.36	1/2		1/2		1/2	
3/4	2,432.29	3/4	2,070.24	3/4	1,706.75	3/4	1,342.11	3/4	984.17	3/4	623.55	3/4	258.76	3/4		3/4		3/4	
2	2,424.73	2	2,062.71	2	1,699.15	2	1,334.52	2	976.80	2	615.95	2	251.16	2		2		2	
1/4	2,417.17	1/4	2,055.17	1/4	1,691.55	1/4	1,326.92	1/4	969.44	1/4	608.35	1/4	243.56	1/4		1/4		1/4	
1/2	2,409.61	1/2	2,047.64	1/2	1,683.96	1/2	1,319.32	1/2	962.07	1/2	600.75	1/2	235.96	1/2		1/2		1/2	
3/4	2,402.06	3/4	2,040.11	3/4	1,676.36	3/4	1,311.73	3/4	954.70	3/4	593.15	3/4	228.36	3/4		3/4		3/4	
3	2,394.50	3	2,032.57	3	1,668.76	3	1,304.13	3	947.34	3	585.55	3	220.76	3		3		3	
1/4	2,386.94	1/4	2,025.04	1/4	1,661.17	1/4	1,296.53	1/4	939.97	1/4	577.95	1/4	213.16	1/4		1/4		1/4	
1/2	2,379.38	1/2	2,017.51	1/2	1,653.57	1/2	1,288.94	1/2	932.60	1/2	570.35	1/2	205.56	1/2		1/2		1/2	
3/4	2,371.83	3/4	2,009.97	3/4	1,645.97	3/4	1,281.34	3/4	925.24	3/4	562.75	3/4	197.96	3/4		3/4		3/4	
4	2,364.27	4	2,002.44	4	1,638.38	4	1,273.74	4	917.87	4	555.15	4	190.36	4		4		4	
1/4	2,356.71	1/4	1,994.91	1/4	1,630.78	1/4	1,266.15	1/4	910.50	1/4	547.55	1/4	182.76	1/4		1/4		1/4	
1/2	2,349.15	1/2	1,987.37	1/2	1,623.18	1/2	1,258.55	1/2	903.14	1/2	539.95	1/2	175.16	1/2		1/2		1/2	
3/4	2,341.59	3/4	1,979.84	3/4	1,615.59	3/4	1,250.95	3/4	895.77	3/4	532.35	3/4	167.56	3/4		3/4		3/4	
5	2,334.04	5	1,972.31	5	1,607.99	5	1,243.36	5	888.41	5	524.75	5	159.95	5		5		5	
1/4	2,326.48	1/4	1,964.77	1/4	1,600.39	1/4	1,235.76	1/4	881.04	1/4	517.15	1/4	152.35	1/4		1/4		1/4	
1/2	2,318.92	1/2	1,957.24	1/2	1,592.80	1/2	1,228.17	1/2	873.67	1/2	509.54	1/2	144.75	1/2		1/2		1/2	
3/4	2,311.36	3/4	1,949.71	3/4	1,585.20	3/4	1,220.57	3/4	866.31	3/4	501.94	3/4	137.15	3/4		3/4		3/4	
6	2,303.82	6	1,942.14	6	1,577.60	6	1,213.08	6	858.82	6	494.34	6	129.55	6		6		6	
1/4	2,296.27	1/4	1,934.58	1/4	1,570.01	1/4	1,205.59	1/4	851.34	1/4	486.74	1/4	121.95	1/4		1/4		1/4	
1/2	2,288.72	1/2	1,927.01	1/2	1,562.41	1/2	1,198.10	1/2	843.86	1/2	479.14	1/2	114.35	1/2		1/2		1/2	
3/4	2,281.18	3/4	1,919.45	3/4	1,554.81	3/4	1,190.60	3/4	836.37	3/4	471.55	3/4	106.75	3/4		3/4		3/4	
7	2,273.65	7	1,911.85	7	1,547.22	7	1,183.22	7	828.77	7	463.95	7	99.17	7		7		7	
1/4	2,266.11	1/4	1,904.25	1/4	1,539.62	1/4	1,175.83	1/4	821.17	1/4	456.35	1/4	91.58	1/4		1/4		1/4	
1/2	2,258.58	1/2	1,896.66	1/2	1,532.03	1/2	1,168.45	1/2	813.57	1/2	448.75	1/2	84.00	1/2		1/2		1/2	
3/4	2,251.05	3/4	1,889.06	3/4	1,524.43	3/4	1,161.06	3/4	805.97	3/4	441.15	3/4	76.41	3/4		3/4		3/4	
8	2,243.51	8	1,881.46	8	1,516.83	8	1,153.68	8	798.37	8	433.55	8	69.29	8		8		8	
1/4	2,235.98	1/4	1,873.87	1/4	1,509.24	1/4	1,146.30	1/4	790.77	1/4	425.95	1/4	62.18	1/4		1/4		1/4	
1/2	2,228.44	1/2	1,866.27	1/2	1,501.64	1/2	1,138.92	1/2	783.17	1/2	418.35	1/2	55.06	1/2		1/2		1/2	
3/4	2,220.91	3/4	1,858.68	3/4	1,494.04	3/4	1,131.54	3/4	775.57	3/4	410.75	3/4	47.94	3/4		3/4		3/4	
9	2,213.38	9	1,851.08	9	1,486.45	9	1,124.17	9	767.97	9	403.15	9	42.23	9		9		9	
1/4	2,205.84	1/4	1,843.48	1/4	1,478.85	1/4	1,116.79	1/4	760.37	1/4	395.55	1/4	36.52	1/4		1/4		1/4	
1/2	2,198.31	1/2	1,835.89	1/2	1,471.25	1/2	1,109.42	1/2	752.77	1/2	387.95	1/2	30.82	1/2		1/2		1/2	
3/4	2,190.78	3/4	1,828.29	3/4	1,463.66	3/4	1,102.05	3/4	745.17	3/4	380.35	3/4	25.11	3/4		3/4		3/4	
10	2,183.24	10	1,820.69	10	1,456.06	10	1,094.68	10	737.57	10	372.75	10		10		10		10	
1/4	2,175.71	1/4	1,813.10	1/4	1,448.46	1/4	1,087.30	1/4	729.96	1/4	365.15	1/4		1/4		1/4		1/4	
1/2	2,168.18	1/2	1,805.50	1/2	1,440.87	1/2	1,079.93	1/2	722.36	1/2	357.55	1/2		1/2		1/2		1/2	
3/4	2,160.64	3/4	1,797.90	3/4	1,433.27	3/4	1,072.56	3/4	714.76	3/4	349.95	3/4		3/4		3/4		3/4	
11	2,153.11	11	1,790.31	11	1,425.67	11	1,065.20	11	707.16	11	342.36	11		11		11		11	
1/4	2,145.58	1/4	1,782.71	1/4	1,418.08	1/4	1,057.83	1/4	699.56	1/4	334.76	1/4		1/4		1/4		1/4	
1/2	2,138.04	1/2	1,775.11	1/2	1,410.48	1/2	1,050.46	1/2	691.96	1/2	327.16	1/2		1/2		1/2		1/2	
3/4	2,130.51	3/4	1,767.52	3/4	1,402.88	3/4	1,043.10	3/4	684.36	3/4	319.56	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

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



# BARGE "KIRBY 29098"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,591.35	0	4,365.05	0	4,124.80	0	3,873.25	0	3,599.90	0	3,235.52	0	2,870.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.46	1/4	4,360.18	1/4	4,119.63	1/4	3,868.00	1/4	3,592.31	1/4	3,227.92	1/4	2,862.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,581.57	1/2	4,355.32	1/2	4,114.47	1/2	3,862.74	1/2	3,584.73	1/2	3,220.31	1/2	2,855.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.68	3/4	4,350.46	3/4	4,109.30	3/4	3,857.48	3/4	3,577.14	3/4	3,212.71	3/4	2,847.58		
1	1	1	1	1	1	1	4,572.11	1	4,345.57	1	4,104.11	1	3,852.22	1	3,569.56	1	3,205.10	1	2,839.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,567.54	1/4	4,340.68	1/4	4,098.92	1/4	3,846.97	1/4	3,561.97	1/4	3,197.49	1/4	2,832.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,562.97	1/2	4,335.80	1/2	4,093.73	1/2	3,841.71	1/2	3,554.39	1/2	3,189.89	1/2	2,824.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,558.40	3/4	4,330.91	3/4	4,088.54	3/4	3,836.45	3/4	3,546.80	3/4	3,182.28	3/4	2,817.14		
2	2	2	2	2	2	2	4,553.80	2	4,326.00	2	4,083.33	2	3,831.19	2	3,539.22	2	3,174.68	2	2,809.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,549.21	1/4	4,321.09	1/4	4,078.11	1/4	3,825.94	1/4	3,531.63	1/4	3,167.07	1/4	2,801.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,544.61	1/2	4,316.18	1/2	4,072.90	1/2	3,820.68	1/2	3,524.05	1/2	3,159.47	1/2	2,794.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,540.02	3/4	4,311.27	3/4	4,067.68	3/4	3,815.42	3/4	3,516.47	3/4	3,151.86	3/4	2,786.71		
3	3	3	3	3	3	3	4,535.40	3	4,306.34	3	4,062.45	3	3,810.16	3	3,508.88	3	3,144.26	3	2,779.10		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,530.78	1/4	4,301.41	1/4	4,057.21	1/4	3,804.91	1/4	3,501.30	1/4	3,136.65	1/4	2,771.49		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,526.17	1/2	4,296.48	1/2	4,051.97	1/2	3,799.65	1/2	3,493.71	1/2	3,129.05	1/2	2,763.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.55	3/4	4,291.54	3/4	4,046.73	3/4	3,794.39	3/4	3,486.13	3/4	3,121.44	3/4	2,756.28		
4	4	4	4	4	4	4	4,516.90	4	4,286.59	4	4,041.48	4	3,789.13	4	3,478.54	4	3,113.84	4	2,748.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,512.26	1/4	4,281.63	1/4	4,036.23	1/4	3,783.88	1/4	3,470.96	1/4	3,106.23	1/4	2,741.06		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,507.61	1/2	4,276.67	1/2	4,030.97	1/2	3,778.62	1/2	3,463.37	1/2	3,098.62	1/2	2,733.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,502.97	3/4	4,271.72	3/4	4,025.72	3/4	3,773.36	3/4	3,455.79	3/4	3,091.02	3/4	2,725.85		
5	5	5	5	5	5	5	4,498.30	5	4,266.74	5	4,020.46	5	3,768.10	5	3,448.20	5	3,083.41	5	2,718.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,493.64	1/4	4,261.76	1/4	4,015.21	1/4	3,762.85	1/4	3,440.62	1/4	3,075.81	1/4	2,710.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,488.97	1/2	4,256.78	1/2	4,009.95	1/2	3,757.59	1/2	3,433.03	1/2	3,068.20	1/2	2,703.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.30	3/4	4,251.80	3/4	4,004.69	3/4	3,752.33	3/4	3,425.45	3/4	3,060.60	3/4	2,695.41		
6	6	6	6	6	6	6	4,479.61	6	4,246.80	6	3,999.43	6	3,747.07	6	3,417.87	6	3,052.99	6	2,687.80		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.92	1/4	4,241.79	1/4	3,994.18	1/4	3,741.82	1/4	3,410.28	1/4	3,045.38	1/4	2,680.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,470.23	1/2	4,236.79	1/2	3,988.92	1/2	3,736.56	1/2	3,402.70	1/2	3,037.78	1/2	2,672.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,465.54	3/4	4,231.78	3/4	3,983.66	3/4	3,731.30	3/4	3,395.11	3/4	3,030.17	3/4	2,664.97		
7	7	7	7	7	7	7	4,460.82	7	4,226.74	7	3,978.40	7	3,726.04	7	3,387.53	7	3,022.56	7	2,657.36		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,685.60	1/4	4,456.11	1/4	4,221.70	1/4	3,973.15	1/4	3,720.79	1/4	3,379.94	1/4	3,014.95	1/4	2,649.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,681.91	1/2	4,451.39	1/2	4,216.66	1/2	3,967.89	1/2	3,715.53	1/2	3,372.36	1/2	3,007.35	1/2	2,642.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,678.21	3/4	4,446.68	3/4	4,211.62	3/4	3,962.63	3/4	3,710.27	3/4	3,364.77	3/4	2,999.74	3/4	2,634.51
8	8	8	8	8	8	8	4,673.37	8	4,441.93	8	4,206.56	8	3,957.37	8	3,705.01	8	3,357.18	8	2,992.13	8	2,626.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,668.53	1/4	4,437.18	1/4	4,201.49	1/4	3,952.12	1/4	3,699.76	1/4	3,349.58	1/4	2,984.52	1/4	2,619.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,663.70	1/2	4,432.43	1/2	4,196.42	1/2	3,946.86	1/2	3,694.50	1/2	3,341.99	1/2	2,976.91	1/2	2,611.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,658.86	3/4	4,427.68	3/4	4,191.35	3/4	3,941.60	3/4	3,689.24	3/4	3,334.39	3/4	2,969.31	3/4	2,604.05
9	9	9	9	9	9	9	4,653.64	9	4,422.89	9	4,186.26	9	3,936.34	9	3,683.39	9	3,326.79	9	2,961.70	9	2,596.43
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,648.42	1/4	4,418.10	1/4	4,181.16	1/4	3,931.09	1/4	3,677.55	1/4	3,319.18	1/4	2,954.09	1/4	2,588.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,643.20	1/2	4,413.31	1/2	4,176.07	1/2	3,925.83	1/2	3,671.70	1/2	3,311.58	1/2	2,946.48	1/2	2,581.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,637.98	3/4	4,408.53	3/4	4,170.98	3/4	3,920.57	3/4	3,665.86	3/4	3,303.97	3/4	2,938.87	3/4	2,573.59
10	10	10	10	10	10	10	4,632.77	10	4,403.71	10	4,165.86	10	3,915.31	10	3,658.85	10	3,296.37	10	2,931.26	10	2,565.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,627.55	1/4	4,398.90	1/4	4,160.75	1/4	3,910.06	1/4	3,651.84	1/4	3,288.76	1/4	2,923.66	1/4	2,558.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,622.33	1/2	4,394.08	1/2	4,155.63	1/2	3,904.80	1/2	3,644.83	1/2	3,281.15	1/2	2,916.05	1/2	2,550.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,617.11	3/4	4,389.27	3/4	4,150.52	3/4	3,899.54	3/4	3,637.82	3/4	3,273.55	3/4	2,908.44	3/4	2,543.13
11	11	11	11	11	11	11	4,611.89	11	4,384.43	11	4,145.38	11	3,894.28	11	3,630.23	11	3,265.94	11	2,900.83	11	2,535.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,606.67	1/4	4,379.59	1/4	4,140.24	1/4	3,889.03	1/4	3,622.65	1/4	3,258.34	1/4	2,893.22	1/4	2,527.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,601.46	1/2	4,374.75	1/2	4,135.10	1/2	3,883.77	1/2	3,615.07	1/2	3,250.73	1/2	2,885.62	1/2	2,520.28
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,596.24	3/4	4,369.91	3/4	4,129.96	3/4	3,878.51	3/4	3,607.48	3/4	3,243.13	3/4	2,878.01	3/4	2,512.66

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 29098"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-09 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	2,505.05	0	2,139.51	0	1,773.97	0	1,408.43	0	1,043.06	0	677.91	0	312.38	0		0		0	
1/4	2,497.43	1/4	2,131.89	1/4	1,766.35	1/4	1,400.82	1/4	1,035.46	1/4	670.29	1/4	304.77	1/4		1/4		1/4	
1/2	2,489.82	1/2	2,124.28	1/2	1,758.74	1/2	1,393.20	1/2	1,027.86	1/2	662.68	1/2	297.15	1/2		1/2		1/2	
3/4	2,482.20	3/4	2,116.66	3/4	1,751.12	3/4	1,385.58	3/4	1,020.26	3/4	655.06	3/4	289.54	3/4		3/4		3/4	
1	2,474.59	1	2,109.05	1	1,743.51	1	1,377.97	1	1,012.66	1	647.45	1	281.92	1		1		1	
1/4	2,466.97	1/4	2,101.43	1/4	1,735.89	1/4	1,370.35	1/4	1,005.06	1/4	639.83	1/4	274.31	1/4		1/4		1/4	
1/2	2,459.36	1/2	2,093.82	1/2	1,728.28	1/2	1,362.74	1/2	997.46	1/2	632.22	1/2	266.69	1/2		1/2		1/2	
3/4	2,451.74	3/4	2,086.20	3/4	1,720.66	3/4	1,355.12	3/4	989.86	3/4	624.60	3/4	259.08	3/4		3/4		3/4	
2	2,444.13	2	2,078.59	2	1,713.05	2	1,347.51	2	982.26	2	616.99	2	251.46	2		2		2	
1/4	2,436.51	1/4	2,070.97	1/4	1,705.43	1/4	1,339.89	1/4	974.66	1/4	609.37	1/4	243.85	1/4		1/4		1/4	
1/2	2,428.89	1/2	2,063.36	1/2	1,697.82	1/2	1,332.28	1/2	967.06	1/2	601.76	1/2	236.23	1/2		1/2		1/2	
3/4	2,421.28	3/4	2,055.74	3/4	1,690.20	3/4	1,324.66	3/4	959.46	3/4	594.14	3/4	228.62	3/4		3/4		3/4	
3	2,413.66	3	2,048.12	3	1,682.59	3	1,317.05	3	951.86	3	586.53	3	221.00	3		3		3	
1/4	2,406.05	1/4	2,040.51	1/4	1,674.97	1/4	1,309.43	1/4	944.26	1/4	578.91	1/4	213.39	1/4		1/4		1/4	
1/2	2,398.43	1/2	2,032.89	1/2	1,667.35	1/2	1,301.82	1/2	936.66	1/2	571.30	1/2	205.77	1/2		1/2		1/2	
3/4	2,390.82	3/4	2,025.28	3/4	1,659.74	3/4	1,294.20	3/4	929.06	3/4	563.68	3/4	198.16	3/4		3/4		3/4	
4	2,383.20	4	2,017.66	4	1,652.12	4	1,286.58	4	921.46	4	556.07	4	190.54	4		4		4	
1/4	2,375.59	1/4	2,010.05	1/4	1,644.51	1/4	1,278.97	1/4	913.86	1/4	548.45	1/4	182.93	1/4		1/4		1/4	
1/2	2,367.97	1/2	2,002.43	1/2	1,636.89	1/2	1,271.35	1/2	906.26	1/2	540.84	1/2	175.31	1/2		1/2		1/2	
3/4	2,360.36	3/4	1,994.82	3/4	1,629.28	3/4	1,263.74	3/4	898.66	3/4	533.22	3/4	167.70	3/4		3/4		3/4	
5	2,352.74	5	1,987.20	5	1,621.66	5	1,256.12	5	891.06	5	525.61	5	160.08	5		5		5	
1/4	2,345.12	1/4	1,979.59	1/4	1,614.05	1/4	1,248.51	1/4	883.46	1/4	517.99	1/4	152.47	1/4		1/4		1/4	
1/2	2,337.51	1/2	1,971.97	1/2	1,606.43	1/2	1,240.89	1/2	875.86	1/2	510.38	1/2	144.85	1/2		1/2		1/2	
3/4	2,329.89	3/4	1,964.35	3/4	1,598.82	3/4	1,233.28	3/4	868.26	3/4	502.76	3/4	137.24	3/4		3/4		3/4	
6	2,322.28	6	1,956.74	6	1,591.20	6	1,225.66	6	860.65	6	495.15	6	129.63	6		6		6	
1/4	2,314.66	1/4	1,949.12	1/4	1,583.58	1/4	1,218.05	1/4	853.04	1/4	487.53	1/4	122.02	1/4		1/4		1/4	
1/2	2,307.05	1/2	1,941.51	1/2	1,575.97	1/2	1,210.43	1/2	845.43	1/2	479.92	1/2	114.41	1/2		1/2		1/2	
3/4	2,299.43	3/4	1,933.89	3/4	1,568.35	3/4	1,202.81	3/4	837.83	3/4	472.30	3/4	106.80	3/4		3/4		3/4	
7	2,291.82	7	1,926.28	7	1,560.74	7	1,195.20	7	830.21	7	464.69	7	99.21	7		7		7	
1/4	2,284.20	1/4	1,918.66	1/4	1,553.12	1/4	1,187.58	1/4	822.60	1/4	457.07	1/4	91.62	1/4		1/4		1/4	
1/2	2,276.59	1/2	1,911.05	1/2	1,545.51	1/2	1,179.97	1/2	814.98	1/2	449.46	1/2	84.03	1/2		1/2		1/2	
3/4	2,268.97	3/4	1,903.43	3/4	1,537.89	3/4	1,172.35	3/4	807.37	3/4	441.84	3/4	76.44	3/4		3/4		3/4	
8	2,261.36	8	1,895.82	8	1,530.28	8	1,164.74	8	799.75	8	434.23	8	69.32	8		8		8	
1/4	2,253.74	1/4	1,888.20	1/4	1,522.66	1/4	1,157.13	1/4	792.14	1/4	426.61	1/4	62.20	1/4		1/4		1/4	
1/2	2,246.12	1/2	1,880.59	1/2	1,515.05	1/2	1,149.52	1/2	784.52	1/2	419.00	1/2	55.08	1/2		1/2		1/2	
3/4	2,238.51	3/4	1,872.97	3/4	1,507.43	3/4	1,141.91	3/4	776.91	3/4	411.38	3/4	47.96	3/4		3/4		3/4	
9	2,230.89	9	1,865.35	9	1,499.82	9	1,134.30	9	769.29	9	403.77	9	42.25	9		9		9	
1/4	2,223.28	1/4	1,857.74	1/4	1,492.20	1/4	1,126.69	1/4	761.68	1/4	396.15	1/4	36.54	1/4		1/4		1/4	
1/2	2,215.66	1/2	1,850.12	1/2	1,484.58	1/2	1,119.09	1/2	754.06	1/2	388.54	1/2	30.83	1/2		1/2		1/2	
3/4	2,208.05	3/4	1,842.51	3/4	1,476.97	3/4	1,111.48	3/4	746.44	3/4	380.92	3/4	25.12	3/4		3/4		3/4	
10	2,200.43	10	1,834.89	10	1,469.35	10	1,103.87	10	738.83	10	373.30	10		10		10		10	
1/4	2,192.82	1/4	1,827.28	1/4	1,461.74	1/4	1,096.27	1/4	731.21	1/4	365.69	1/4		1/4		1/4		1/4	
1/2	2,185.20	1/2	1,819.66	1/2	1,454.12	1/2	1,088.67	1/2	723.60	1/2	358.07	1/2		1/2		1/2		1/2	
3/4	2,177.59	3/4	1,812.05	3/4	1,446.51	3/4	1,081.06	3/4	715.98	3/4	350.46	3/4		3/4		3/4		3/4	
11	2,169.97	11	1,804.43	11	1,438.89	11	1,073.46	11	708.37	11	342.84	11		11		11		11	
1/4	2,162.36	1/4	1,796.82	1/4	1,431.28	1/4	1,065.86	1/4	700.75	1/4	335.23	1/4		1/4		1/4		1/4	
1/2	2,154.74	1/2	1,789.20	1/2	1,423.66	1/2	1,058.26	1/2	693.14	1/2	327.61	1/2		1/2		1/2		1/2	
3/4	2,147.12	3/4	1,781.59	3/4	1,416.05	3/4	1,050.66	3/4	685.52	3/4	320.00	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "KIRBY 29098"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,182	0	4,074	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,202	1/4	4,091	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,222	1/2	4,108	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,242	3/4	4,125	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,261	1	4,142	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,281	1/4	4,159	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,301	1/2	4,176	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,320	3/4	4,193	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,340	2	4,210	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,359	1/4	3,359	1/4	4,226	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,379	1/2	4,243	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,398	3/4	4,259	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,426	3	3,417	3	4,276	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,448	1/4	3,437	1/4	4,292	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,470	1/2	3,456	1/2	4,309	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,492	3/4	3,475	3/4	4,325	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,514	4	3,494	4	4,342	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,535	1/4	3,513	1/4	4,358	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,557	1/2	3,532	1/2	4,374	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,579	3/4	3,551	3/4	4,390	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,601	5	3,570	5	4,406	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,622	1/4	3,588	1/4	4,422	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,644	1/2	3,607	1/2	4,438	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,665	3/4	3,626	3/4	4,454	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,686	6	3,645	6	4,470	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,708	1/4	3,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,729	1/2	3,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,750	3/4	3,700	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,772	7	3,718	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,793	1/4	3,737	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,814	1/2	3,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,835	3/4	3,773	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,856	8	3,791	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,876	1/4	3,809	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,897	1/2	3,828	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,918	3/4	3,846	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,939	9	3,864	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,959	1/4	3,881	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,980	1/2	3,899	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,000	3/4	3,917	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,021	10	3,935	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,041	1/4	3,952	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,061	1/2	3,970	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,082	3/4	3,987	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,102	11	4,005	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,122	1/4	4,022	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,142	1/2	4,040	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,162	3/4	4,057	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

STRAPPED: 06/06/2024 JS  
 CALCULATED: 06/06/2024 CL  
 PRINTED: 06/06/2024 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 06/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

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 Pearland, Texas 77588  
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# BARGE "KIRBY 29098"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,182	0	4,074	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,202	1/4	4,091	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,222	1/2	4,108	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,242	3/4	4,125	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,261	1	4,142	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,281	1/4	4,159	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,301	1/2	4,176	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,320	3/4	4,193	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,340	2	4,210	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,359	1/4	3,359	1/4	4,226	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,379	1/2	4,243	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,398	3/4	4,259	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,426	3	3,417	3	4,276	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,448	1/4	3,437	1/4	4,292	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,470	1/2	3,456	1/2	4,309	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,492	3/4	3,475	3/4	4,325	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,514	4	3,494	4	4,342	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,535	1/4	3,513	1/4	4,358	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,557	1/2	3,532	1/2	4,374	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,579	3/4	3,551	3/4	4,390	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,601	5	3,570	5	4,406	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,622	1/4	3,588	1/4	4,422	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,644	1/2	3,607	1/2	4,438	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,665	3/4	3,626	3/4	4,454	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,686	6	3,645	6	4,470	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,708	1/4	3,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,729	1/2	3,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,750	3/4	3,700	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,772	7	3,718	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,793	1/4	3,737	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,814	1/2	3,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,835	3/4	3,773	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,856	8	3,791	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,876	1/4	3,809	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,897	1/2	3,828	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,918	3/4	3,846	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,939	9	3,864	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,959	1/4	3,881	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,980	1/2	3,899	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,000	3/4	3,917	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,021	10	3,935	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,041	1/4	3,952	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,061	1/2	3,970	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,082	3/4	3,987	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,102	11	4,005	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,122	1/4	4,022	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,142	1/2	4,040	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,162	3/4	4,057	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

STRAPPED: 06/06/2024 JS  
 CALCULATED: 06/06/2024 CL  
 PRINTED: 06/06/2024 CL

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



# BARGE "KIRBY 29098"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 05'-02 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	171	0	342	0	513	0	684	0		0		0		0		0	
1/4	4	1/4	174	1/4	345	1/4	516	1/4	687	1/4		1/4		1/4		1/4		1/4	
1/2	7	1/2	178	1/2	349	1/2	520	1/2	691	1/2		1/2		1/2		1/2		1/2	
3/4	11	3/4	182	3/4	352	3/4	523	3/4	694	3/4		3/4		3/4		3/4		3/4	
1	14	1	185	1	356	1	527	1	698	1	1	1	1	1	1	1	1	1	1
1/4	18	1/4	189	1/4	360	1/4	531	1/4	701	1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	192	1/2	363	1/2	534	1/2	705	1/2		1/2		1/2		1/2		1/2	
3/4	25	3/4	196	3/4	367	3/4	538	3/4	709	3/4		3/4		3/4		3/4		3/4	
2	28	2	199	2	370	2	541	2	712	2	2	2	2	2	2	2	2	2	2
1/4	32	1/4	203	1/4	374	1/4	545	1/4	716	1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	207	1/2	377	1/2	548	1/2	719	1/2		1/2		1/2		1/2		1/2	
3/4	39	3/4	210	3/4	381	3/4	552	3/4	723	3/4		3/4		3/4		3/4		3/4	
3	43	3	214	3	385	3	555	3	726	3	3	3	3	3	3	3	3	3	3
1/4	46	1/4	217	1/4	388	1/4	559	1/4	730	1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	221	1/2	392	1/2	563	1/2	733	1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	224	3/4	395	3/4	566	3/4	737	3/4		3/4		3/4		3/4		3/4	
4	57	4	228	4	399	4	570	4	741	4	4	4	4	4	4	4	4	4	4
1/4	61	1/4	231	1/4	402	1/4	573	1/4	744	1/4		1/4		1/4		1/4		1/4	
1/2	64	1/2	235	1/2	406	1/2	577	1/2	748	1/2		1/2		1/2		1/2		1/2	
3/4	68	3/4	239	3/4	409	3/4	580	3/4	751	3/4		3/4		3/4		3/4		3/4	
5	71	5	242	5	413	5	584	5	755	5	5	5	5	5	5	5	5	5	5
1/4	75	1/4	246	1/4	417	1/4	587	1/4	758	1/4		1/4		1/4		1/4		1/4	
1/2	78	1/2	249	1/2	420	1/2	591	1/2	762	1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	253	3/4	424	3/4	595	3/4	766	3/4		3/4		3/4		3/4		3/4	
6	85	6	256	6	427	6	598	6	769	6	6	6	6	6	6	6	6	6	6
1/4	89	1/4	260	1/4	431	1/4	602	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	93	1/2	263	1/2	434	1/2	605	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	96	3/4	267	3/4	438	3/4	609	3/4		3/4		3/4		3/4		3/4		3/4	
7	100	7	271	7	442	7	612	7	7	7	7	7	7	7	7	7	7	7	7
1/4	103	1/4	274	1/4	445	1/4	616	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	107	1/2	278	1/2	449	1/2	620	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	110	3/4	281	3/4	452	3/4	623	3/4		3/4		3/4		3/4		3/4		3/4	
8	114	8	285	8	456	8	627	8	8	8	8	8	8	8	8	8	8	8	8
1/4	117	1/4	288	1/4	459	1/4	630	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121	1/2	292	1/2	463	1/2	634	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125	3/4	296	3/4	466	3/4	637	3/4		3/4		3/4		3/4		3/4		3/4	
9	128	9	299	9	470	9	641	9	9	9	9	9	9	9	9	9	9	9	9
1/4	132	1/4	303	1/4	474	1/4	644	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	306	1/2	477	1/2	648	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139	3/4	310	3/4	481	3/4	652	3/4		3/4		3/4		3/4		3/4		3/4	
10	142	10	313	10	484	10	655	10	10	10	10	10	10	10	10	10	10	10	10
1/4	146	1/4	317	1/4	488	1/4	659	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150	1/2	320	1/2	491	1/2	662	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153	3/4	324	3/4	495	3/4	666	3/4		3/4		3/4		3/4		3/4		3/4	
11	157	11	328	11	498	11	669	11	11	11	11	11	11	11	11	11	11	11	11
1/4	160	1/4	331	1/4	502	1/4	673	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164	1/2	335	1/2	506	1/2	676	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167	3/4	338	3/4	509	3/4	680	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 05/12/2014 SW  
CALCULATED: 05/12/2014 CL  
VERIFIED: 06/06/2024 JS

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