



# BARGE "KIRBY 10210"

## 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 CENTER	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-7/8	- 00-7/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4
2 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

July 14, 2010

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

<http://www.pmacorp.net>



# BARGE "KIRBY 10210"

## 1 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	3,776.36	0	3,540.81	0	3,287.77	0	3,034.73	0	2,773.34	0	2,477.48	0	2,180.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,774.29	1/4	3,535.54	1/4	3,282.50	1/4	3,029.46	1/4	2,767.18	1/4	2,471.30	1/4	2,174.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,772.22	1/2	3,530.27	1/2	3,277.23	1/2	3,024.19	1/2	2,761.03	1/2	2,465.13	1/2	2,168.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,770.15	3/4	3,525.00	3/4	3,271.96	3/4	3,018.92	3/4	2,754.87	3/4	2,458.95	3/4	2,162.43		
1		1		1		1	3,766.02	1	3,519.73	1	3,266.69	1	3,013.64	1	2,748.71	1	2,452.77	1	2,156.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,761.88	1/4	3,514.46	1/4	3,261.41	1/4	3,008.37	1/4	2,742.55	1/4	2,446.59	1/4	2,150.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,757.75	1/2	3,509.18	1/2	3,256.14	1/2	3,003.10	1/2	2,736.39	1/2	2,440.42	1/2	2,143.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,753.61	3/4	3,503.91	3/4	3,250.87	3/4	2,997.83	3/4	2,730.23	3/4	2,434.24	3/4	2,137.72		
2		2		2		2	3,748.72	2	3,498.64	2	3,245.60	2	2,992.56	2	2,724.07	2	2,428.06	2	2,131.55		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,743.82	1/4	3,493.37	1/4	3,240.33	1/4	2,987.29	1/4	2,717.91	1/4	2,421.89	1/4	2,125.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,738.93	1/2	3,488.10	1/2	3,235.06	1/2	2,982.01	1/2	2,711.76	1/2	2,415.71	1/2	2,119.19		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,734.03	3/4	3,482.83	3/4	3,229.78	3/4	2,976.74	3/4	2,705.60	3/4	2,409.53	3/4	2,113.02		
3		3		3		3	3,728.88	3	3,477.55	3	3,224.51	3	2,971.47	3	2,699.44	3	2,403.35	3	2,106.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,723.72	1/4	3,472.28	1/4	3,219.24	1/4	2,966.20	1/4	2,693.28	1/4	2,397.18	1/4	2,100.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,718.56	1/2	3,467.01	1/2	3,213.97	1/2	2,960.93	1/2	2,687.12	1/2	2,391.00	1/2	2,094.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,713.40	3/4	3,461.74	3/4	3,208.70	3/4	2,955.66	3/4	2,680.96	3/4	2,384.82	3/4	2,088.31		
4		4		4		4	3,708.21	4	3,456.47	4	3,203.43	4	2,950.38	4	2,674.80	4	2,378.64	4	2,082.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,703.03	1/4	3,451.20	1/4	3,198.15	1/4	2,945.11	1/4	2,668.64	1/4	2,372.47	1/4	2,075.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,697.84	1/2	3,445.92	1/2	3,192.88	1/2	2,939.84	1/2	2,662.49	1/2	2,366.29	1/2	2,069.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,692.66	3/4	3,440.65	3/4	3,187.61	3/4	2,934.57	3/4	2,656.33	3/4	2,360.11	3/4	2,063.60		
5		5		5		5	3,687.47	5	3,435.38	5	3,182.34	5	2,929.30	5	2,650.17	5	2,353.93	5	2,057.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,682.28	1/4	3,430.11	1/4	3,177.07	1/4	2,924.03	1/4	2,644.01	1/4	2,347.76	1/4	2,051.24		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,677.10	1/2	3,424.84	1/2	3,171.80	1/2	2,918.75	1/2	2,637.85	1/2	2,341.58	1/2	2,045.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,671.91	3/4	3,419.57	3/4	3,166.52	3/4	2,913.48	3/4	2,631.69	3/4	2,335.40	3/4	2,038.89		
6		6		6		6	3,666.73	6	3,414.29	6	3,161.25	6	2,908.21	6	2,625.53	6	2,329.22	6	2,032.71		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,661.54	1/4	3,409.02	1/4	3,155.98	1/4	2,902.94	1/4	2,619.37	1/4	2,323.05	1/4	2,026.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,656.36	1/2	3,403.75	1/2	3,150.71	1/2	2,897.67	1/2	2,613.22	1/2	2,316.87	1/2	2,020.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,651.17	3/4	3,398.48	3/4	3,145.44	3/4	2,892.40	3/4	2,607.06	3/4	2,310.69	3/4	2,014.18		
7		7		7		7	3,645.99	7	3,393.21	7	3,140.17	7	2,887.12	7	2,600.90	7	2,304.51	7	2,008.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,640.80	1/4	3,387.94	1/4	3,134.89	1/4	2,881.85	1/4	2,594.74	1/4	2,298.34	1/4	2,001.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,635.62	1/2	3,382.66	1/2	3,129.62	1/2	2,876.58	1/2	2,588.58	1/2	2,292.16	1/2	1,995.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,630.43	3/4	3,377.39	3/4	3,124.35	3/4	2,871.31	3/4	2,582.42	3/4	2,285.98	3/4	1,989.47		
8		8		8		8	3,625.16	8	3,372.12	8	3,119.08	8	2,866.01	8	2,576.26	8	2,279.80	8	1,983.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,619.89	1/4	3,366.85	1/4	3,113.81	1/4	2,860.72	1/4	2,570.11	1/4	2,273.63	1/4	1,977.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,614.62	1/2	3,361.58	1/2	3,108.54	1/2	2,855.42	1/2	2,563.95	1/2	2,267.45	1/2	1,970.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,609.35	3/4	3,356.31	3/4	3,103.26	3/4	2,850.12	3/4	2,557.79	3/4	2,261.27	3/4	1,964.76		
9		9		9		9	3,604.08	9	3,351.03	9	3,097.99	9	2,844.83	9	2,551.61	9	2,255.10	9	1,958.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,598.80	1/4	3,345.76	1/4	3,092.72	1/4	2,839.53	1/4	2,545.43	1/4	2,248.92	1/4	1,952.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,593.53	1/2	3,340.49	1/2	3,087.45	1/2	2,834.23	1/2	2,539.26	1/2	2,242.74	1/2	1,946.23		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,588.26	3/4	3,335.22	3/4	3,082.18	3/4	2,828.94	3/4	2,533.08	3/4	2,236.56	3/4	1,940.05		
10		10		10		10	3,582.99	10	3,329.95	10	3,076.91	10	2,822.74	10	2,526.90	10	2,230.39	10	1,933.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,577.72	1/4	3,324.67	1/4	3,071.63	1/4	2,816.54	1/4	2,520.72	1/4	2,224.21	1/4	1,927.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,572.44	1/2	3,319.40	1/2	3,066.36	1/2	2,810.34	1/2	2,514.55	1/2	2,218.03	1/2	1,921.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,567.17	3/4	3,314.13	3/4	3,061.09	3/4	2,804.14	3/4	2,508.37	3/4	2,211.85	3/4	1,915.34		
11		11		11		11	3,561.90	11	3,308.86	11	3,055.82	11	2,797.98	11	2,502.19	11	2,205.68	11	1,909.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,779.46	1/4	3,556.63	1/4	3,303.59	1/4	3,050.55	1/4	2,791.82	1/4	2,496.01	1/4	2,199.50	1/4	1,902.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,778.94	1/2	3,551.36	1/2	3,298.32	1/2	3,045.27	1/2	2,785.66	1/2	2,489.84	1/2	2,193.32	1/2	1,896.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,778.42	3/4	3,546.09	3/4	3,293.04	3/4	3,040.00	3/4	2,779.50	3/4	2,483.66	3/4	2,187.14	3/4	1,890.63

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 ON CENTERLINE AND 32'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KIRBY 10210"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	1,884.45	0	1,587.69	0	1,290.77	0	993.84	0	702.97	0	405.89	0	108.80	0		0		0	
1/4	1,878.27	1/4	1,581.51	1/4	1,284.58	1/4	987.65	1/4	696.79	1/4	399.70	1/4	102.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,872.10	1/2	1,575.32	1/2	1,278.39	1/2	981.47	1/2	690.62	1/2	393.51	1/2	96.47	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,865.92	3/4	1,569.14	3/4	1,272.21	3/4	975.28	3/4	684.45	3/4	387.32	3/4	90.31	3/4	3/4	3/4	3/4	3/4	3/4
1	1,859.74	1	1,562.95	1	1,266.02	1	969.16	1	678.26	1	381.13	1	84.18	1		1		1	
1/4	1,853.56	1/4	1,556.76	1/4	1,259.84	1/4	963.03	1/4	672.07	1/4	374.94	1/4	78.05	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,847.39	1/2	1,550.58	1/2	1,253.65	1/2	956.91	1/2	665.88	1/2	368.75	1/2	71.92	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,841.21	3/4	1,544.39	3/4	1,247.46	3/4	950.79	3/4	659.69	3/4	362.56	3/4	65.79	3/4	3/4	3/4	3/4	3/4	3/4
2	1,835.03	2	1,538.21	2	1,241.28	2	944.73	2	653.50	2	356.37	2	59.71	2		2		2	
1/4	1,828.85	1/4	1,532.02	1/4	1,235.09	1/4	938.67	1/4	647.31	1/4	350.18	1/4	53.64	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,822.68	1/2	1,525.83	1/2	1,228.91	1/2	932.61	1/2	641.12	1/2	343.99	1/2	47.56	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,816.50	3/4	1,519.65	3/4	1,222.72	3/4	926.55	3/4	634.93	3/4	337.80	3/4	41.49	3/4	3/4	3/4	3/4	3/4	3/4
3	1,810.31	3	1,513.46	3	1,216.53	3	920.49	3	628.74	3	331.61	3	36.33	3		3		3	
1/4	1,804.13	1/4	1,507.28	1/4	1,210.35	1/4	914.43	1/4	622.55	1/4	325.42	1/4	31.17	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.94	1/2	1,501.09	1/2	1,204.16	1/2	908.37	1/2	616.36	1/2	319.23	1/2	26.01	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,791.76	3/4	1,494.90	3/4	1,197.98	3/4	902.31	3/4	610.17	3/4	313.04	3/4	20.85	3/4	3/4	3/4	3/4	3/4	3/4
4	1,785.57	4	1,488.72	4	1,191.79	4	896.27	4	603.98	4	306.85	4	17.75	4		4		4	
1/4	1,779.39	1/4	1,482.53	1/4	1,185.60	1/4	890.23	1/4	597.79	1/4	300.66	1/4	14.65	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,773.20	1/2	1,476.35	1/2	1,179.42	1/2	884.18	1/2	591.60	1/2	294.47	1/2	11.55	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,767.01	3/4	1,470.16	3/4	1,173.23	3/4	878.14	3/4	585.41	3/4	288.28	3/4	8.45	3/4	3/4	3/4	3/4	3/4	3/4
5	1,760.83	5	1,463.97	5	1,167.05	5	872.11	5	579.22	5	282.09	5	7.42	5		5		5	
1/4	1,754.64	1/4	1,457.79	1/4	1,160.86	1/4	866.09	1/4	573.03	1/4	275.90	1/4	6.38	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,748.46	1/2	1,451.60	1/2	1,154.67	1/2	860.06	1/2	566.84	1/2	269.71	1/2	5.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,742.27	3/4	1,445.42	3/4	1,148.49	3/4	854.03	3/4	560.65	3/4	263.52	3/4	4.32	3/4	3/4	3/4	3/4	3/4	3/4
6	1,736.09	6	1,439.23	6	1,142.30	6	848.01	6	554.46	6	257.33	6		6		6		6	
1/4	1,729.90	1/4	1,433.04	1/4	1,136.12	1/4	841.98	1/4	548.27	1/4	251.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,723.72	1/2	1,426.86	1/2	1,129.93	1/2	835.95	1/2	542.08	1/2	244.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,717.53	3/4	1,420.67	3/4	1,123.74	3/4	829.93	3/4	535.89	3/4	238.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,711.35	7	1,414.49	7	1,117.56	7	823.90	7	529.70	7	232.56	7		7		7		7	
1/4	1,705.17	1/4	1,408.30	1/4	1,111.37	1/4	817.87	1/4	523.51	1/4	226.37	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,698.98	1/2	1,402.11	1/2	1,105.19	1/2	811.85	1/2	517.32	1/2	220.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,692.80	3/4	1,395.93	3/4	1,099.00	3/4	805.82	3/4	511.13	3/4	213.99	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,686.62	8	1,389.74	8	1,092.81	8	799.79	8	504.94	8	207.80	8		8		8		8	
1/4	1,680.44	1/4	1,383.56	1/4	1,086.63	1/4	793.77	1/4	498.75	1/4	201.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,674.25	1/2	1,377.37	1/2	1,080.44	1/2	787.74	1/2	492.56	1/2	195.42	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,668.07	3/4	1,371.18	3/4	1,074.26	3/4	781.71	3/4	486.37	3/4	189.23	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,661.89	9	1,365.00	9	1,068.07	9	775.69	9	480.18	9	183.04	9		9		9		9	
1/4	1,655.71	1/4	1,358.81	1/4	1,061.88	1/4	769.66	1/4	473.99	1/4	176.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,649.52	1/2	1,352.63	1/2	1,055.70	1/2	763.63	1/2	467.80	1/2	170.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,643.34	3/4	1,346.44	3/4	1,049.51	3/4	757.61	3/4	461.61	3/4	164.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,637.16	10	1,340.25	10	1,043.33	10	751.58	10	455.42	10	158.28	10		10		10		10	
1/4	1,630.98	1/4	1,334.07	1/4	1,037.14	1/4	745.55	1/4	449.22	1/4	152.08	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,624.79	1/2	1,327.88	1/2	1,030.95	1/2	739.53	1/2	443.03	1/2	145.89	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,618.61	3/4	1,321.70	3/4	1,024.77	3/4	733.50	3/4	436.84	3/4	139.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,612.43	11	1,315.51	11	1,018.58	11	727.41	11	430.65	11	133.51	11		11		11		11	
1/4	1,606.25	1/4	1,309.32	1/4	1,012.40	1/4	721.32	1/4	424.46	1/4	127.32	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,600.06	1/2	1,303.14	1/2	1,006.21	1/2	715.23	1/2	418.27	1/2	121.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,593.88	3/4	1,296.95	3/4	1,000.02	3/4	709.14	3/4	412.08	3/4	114.96	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2010 CL - SW  
CALCULATED: 07/14/2010 CL  
PRINTED: 07/14/2010 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2010

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



# BARGE "KIRBY 10210"

## 2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	3,486.07	0	3,245.58	0	2,983.53	0	2,721.48	0	2,458.93	0	2,195.49	0	1,932.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,484.24	1/4	3,240.12	1/4	2,978.07	1/4	2,716.02	1/4	2,453.45	1/4	2,190.00	1/4	1,926.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,482.41	1/2	3,234.66	1/2	2,972.61	1/2	2,710.56	1/2	2,447.96	1/2	2,184.51	1/2	1,921.07		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,480.58	3/4	3,229.20	3/4	2,967.15	3/4	2,705.10	3/4	2,442.47	3/4	2,179.03	3/4	1,915.58		
1		1		1		1	3,476.92	1	3,223.74	1	2,961.69	1	2,699.64	1	2,436.98	1	2,173.54	1	1,910.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,473.26	1/4	3,218.28	1/4	2,956.23	1/4	2,694.18	1/4	2,431.49	1/4	2,168.05	1/4	1,904.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,469.60	1/2	3,212.83	1/2	2,950.77	1/2	2,688.72	1/2	2,426.00	1/2	2,162.56	1/2	1,899.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,465.93	3/4	3,207.37	3/4	2,945.31	3/4	2,683.26	3/4	2,420.52	3/4	2,157.07	3/4	1,893.63		
2		2		2		2	3,460.83	2	3,201.91	2	2,939.85	2	2,677.80	2	2,415.03	2	2,151.58	2	1,888.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,455.72	1/4	3,196.45	1/4	2,934.40	1/4	2,672.34	1/4	2,409.54	1/4	2,146.10	1/4	1,882.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,450.62	1/2	3,190.99	1/2	2,928.94	1/2	2,666.88	1/2	2,404.05	1/2	2,140.61	1/2	1,877.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,445.51	3/4	3,185.53	3/4	2,923.48	3/4	2,661.43	3/4	2,398.56	3/4	2,135.12	3/4	1,871.68		
3		3		3		3	3,440.17	3	3,180.07	3	2,918.02	3	2,655.97	3	2,393.07	3	2,129.63	3	1,866.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,434.84	1/4	3,174.61	1/4	2,912.56	1/4	2,650.51	1/4	2,387.59	1/4	2,124.14	1/4	1,860.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,429.50	1/2	3,169.15	1/2	2,907.10	1/2	2,645.05	1/2	2,382.10	1/2	2,118.65	1/2	1,855.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,424.16	3/4	3,163.69	3/4	2,901.64	3/4	2,639.59	3/4	2,376.61	3/4	2,113.17	3/4	1,849.72		
4		4		4		4	3,418.80	4	3,158.23	4	2,896.18	4	2,634.13	4	2,371.12	4	2,107.68	4	1,844.23		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,413.44	1/4	3,152.77	1/4	2,890.72	1/4	2,628.67	1/4	2,365.63	1/4	2,102.19	1/4	1,838.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,408.08	1/2	3,147.31	1/2	2,885.26	1/2	2,623.21	1/2	2,360.14	1/2	2,096.70	1/2	1,833.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,402.73	3/4	3,141.85	3/4	2,879.80	3/4	2,617.75	3/4	2,354.66	3/4	2,091.21	3/4	1,827.77		
5		5		5		5	3,397.36	5	3,136.39	5	2,874.34	5	2,612.29	5	2,349.17	5	2,085.72	5	1,822.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,392.00	1/4	3,130.93	1/4	2,868.88	1/4	2,606.83	1/4	2,343.68	1/4	2,080.24	1/4	1,816.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,386.64	1/2	3,125.47	1/2	2,863.42	1/2	2,601.37	1/2	2,338.19	1/2	2,074.75	1/2	1,811.30		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,381.27	3/4	3,120.02	3/4	2,857.96	3/4	2,595.91	3/4	2,332.70	3/4	2,069.26	3/4	1,805.82		
6		6		6		6	3,375.91	6	3,114.56	6	2,852.50	6	2,590.45	6	2,327.21	6	2,063.77	6	1,800.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,370.55	1/4	3,109.10	1/4	2,847.05	1/4	2,584.99	1/4	2,321.72	1/4	2,058.28	1/4	1,794.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,365.19	1/2	3,103.64	1/2	2,841.59	1/2	2,579.53	1/2	2,316.24	1/2	2,052.79	1/2	1,789.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,359.83	3/4	3,098.18	3/4	2,836.13	3/4	2,574.08	3/4	2,310.75	3/4	2,047.30	3/4	1,783.86		
7		7		7		7	3,354.47	7	3,092.72	7	2,830.67	7	2,568.62	7	2,305.26	7	2,041.82	7	1,778.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,349.11	1/4	3,087.26	1/4	2,825.21	1/4	2,563.16	1/4	2,299.77	1/4	2,036.33	1/4	1,772.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,343.75	1/2	3,081.80	1/2	2,819.75	1/2	2,557.70	1/2	2,294.28	1/2	2,030.84	1/2	1,767.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,338.39	3/4	3,076.34	3/4	2,814.29	3/4	2,552.24	3/4	2,288.79	3/4	2,025.35	3/4	1,761.91		
8		8		8		8	3,332.93	8	3,070.88	8	2,808.83	8	2,546.75	8	2,283.31	8	2,019.86	8	1,756.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,327.47	1/4	3,065.42	1/4	2,803.37	1/4	2,541.26	1/4	2,277.82	1/4	2,014.37	1/4	1,750.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,322.01	1/2	3,059.96	1/2	2,797.91	1/2	2,535.77	1/2	2,272.33	1/2	2,008.89	1/2	1,745.44		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,316.55	3/4	3,054.50	3/4	2,792.45	3/4	2,530.28	3/4	2,266.84	3/4	2,003.40	3/4	1,739.95		
9		9		9		9	3,311.09	9	3,049.04	9	2,786.99	9	2,524.80	9	2,261.35	9	1,997.91	9	1,734.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,305.63	1/4	3,043.58	1/4	2,781.53	1/4	2,519.31	1/4	2,255.86	1/4	1,992.42	1/4	1,728.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,300.18	1/2	3,038.12	1/2	2,776.07	1/2	2,513.82	1/2	2,250.38	1/2	1,986.93	1/2	1,723.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,294.72	3/4	3,032.66	3/4	2,770.61	3/4	2,508.33	3/4	2,244.89	3/4	1,981.44	3/4	1,718.00		
10		10		10		10	3,289.26	10	3,027.21	10	2,765.15	10	2,502.84	10	2,239.40	10	1,975.96	10	1,712.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,283.80	1/4	3,021.75	1/4	2,759.69	1/4	2,497.35	1/4	2,233.91	1/4	1,970.47	1/4	1,707.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,278.34	1/2	3,016.29	1/2	2,754.24	1/2	2,491.87	1/2	2,228.42	1/2	1,964.98	1/2	1,701.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,272.88	3/4	3,010.83	3/4	2,748.78	3/4	2,486.38	3/4	2,222.93	3/4	1,959.49	3/4	1,696.05		
11		11		11		11	3,267.42	11	3,005.37	11	2,743.32	11	2,480.89	11	2,217.45	11	1,954.00	11	1,690.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,488.82	1/4	3,261.96	1/4	2,999.91	1/4	2,737.86	1/4	2,475.40	1/4	2,211.96	1/4	1,948.51	1/4	1,685.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,488.36	1/2	3,256.50	1/2	2,994.45	1/2	2,732.40	1/2	2,469.91	1/2	2,206.47	1/2	1,943.03	1/2	1,679.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,487.90	3/4	3,251.04	3/4	2,988.99	3/4	2,726.94	3/4	2,464.42	3/4	2,200.98	3/4	1,937.54	3/4	1,674.09

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 ON CENTERLINE AND 27'-05" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 10210"

## 2 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,668.61	0	1,405.16	0	1,141.54	0	879.87	0	620.25	0	356.66	0	93.19	0		0		0	
1/4	1,663.12	1/4	1,399.67	1/4	1,136.05	1/4	874.46	1/4	614.76	1/4	351.17	1/4	87.73	1/4		1/4		1/4	
1/2	1,657.63	1/2	1,394.17	1/2	1,130.55	1/2	869.06	1/2	609.27	1/2	345.68	1/2	82.28	1/2		1/2		1/2	
3/4	1,652.14	3/4	1,388.68	3/4	1,125.06	3/4	863.65	3/4	603.78	3/4	340.19	3/4	76.82	3/4		3/4		3/4	
1	1,646.65	1	1,383.19	1	1,119.57	1	858.24	1	598.29	1	334.69	1	71.39	1		1		1	
1/4	1,641.16	1/4	1,377.70	1/4	1,114.08	1/4	852.84	1/4	592.80	1/4	329.20	1/4	65.96	1/4		1/4		1/4	
1/2	1,635.67	1/2	1,372.21	1/2	1,108.58	1/2	847.43	1/2	587.31	1/2	323.71	1/2	60.53	1/2		1/2		1/2	
3/4	1,630.19	3/4	1,366.71	3/4	1,103.09	3/4	842.02	3/4	581.82	3/4	318.22	3/4	55.11	3/4		3/4		3/4	
2	1,624.70	2	1,361.22	2	1,097.60	2	836.61	2	576.32	2	312.73	2	49.73	2		2		2	
1/4	1,619.21	1/4	1,355.73	1/4	1,092.11	1/4	831.21	1/4	570.83	1/4	307.24	1/4	44.35	1/4		1/4		1/4	
1/2	1,613.72	1/2	1,350.24	1/2	1,086.62	1/2	825.80	1/2	565.34	1/2	301.74	1/2	38.97	1/2		1/2		1/2	
3/4	1,608.23	3/4	1,344.75	3/4	1,081.12	3/4	820.39	3/4	559.85	3/4	296.25	3/4	33.59	3/4		3/4		3/4	
3	1,602.74	3	1,339.25	3	1,075.63	3	814.99	3	554.36	3	290.76	3	29.03	3		3		3	
1/4	1,597.26	1/4	1,333.76	1/4	1,070.14	1/4	809.59	1/4	548.87	1/4	285.27	1/4	24.46	1/4		1/4		1/4	
1/2	1,591.77	1/2	1,328.27	1/2	1,064.65	1/2	804.19	1/2	543.37	1/2	279.78	1/2	19.89	1/2		1/2		1/2	
3/4	1,586.28	3/4	1,322.78	3/4	1,059.16	3/4	798.78	3/4	537.88	3/4	274.29	3/4	15.32	3/4		3/4		3/4	
4	1,580.79	4	1,317.28	4	1,053.66	4	793.38	4	532.39	4	268.79	4	12.58	4		4		4	
1/4	1,575.30	1/4	1,311.79	1/4	1,048.17	1/4	787.98	1/4	526.90	1/4	263.30	1/4	9.83	1/4		1/4		1/4	
1/2	1,569.81	1/2	1,306.30	1/2	1,042.68	1/2	782.58	1/2	521.41	1/2	257.81	1/2	7.08	1/2		1/2		1/2	
3/4	1,564.33	3/4	1,300.81	3/4	1,037.19	3/4	777.18	3/4	515.92	3/4	252.32	3/4	4.34	3/4		3/4		3/4	
5	1,558.84	5	1,295.32	5	1,031.70	5	771.78	5	510.42	5	246.83	5	3.42	5		5		5	
1/4	1,553.35	1/4	1,289.82	1/4	1,026.20	1/4	766.37	1/4	504.93	1/4	241.34	1/4	2.51	1/4		1/4		1/4	
1/2	1,547.86	1/2	1,284.33	1/2	1,020.71	1/2	760.97	1/2	499.44	1/2	235.84	1/2	1.59	1/2		1/2		1/2	
3/4	1,542.37	3/4	1,278.84	3/4	1,015.22	3/4	755.57	3/4	493.95	3/4	230.35	3/4	0.68	3/4		3/4		3/4	
6	1,536.88	6	1,273.35	6	1,009.77	6	750.17	6	488.46	6	224.86	6		6		6		6	
1/4	1,531.40	1/4	1,267.86	1/4	1,004.32	1/4	744.77	1/4	482.97	1/4	219.37	1/4		1/4		1/4		1/4	
1/2	1,525.91	1/2	1,262.36	1/2	998.87	1/2	739.36	1/2	477.48	1/2	213.88	1/2		1/2		1/2		1/2	
3/4	1,520.42	3/4	1,256.87	3/4	993.42	3/4	733.96	3/4	471.98	3/4	208.39	3/4		3/4		3/4		3/4	
7	1,514.93	7	1,251.38	7	988.02	7	728.56	7	466.49	7	202.90	7		7		7		7	
1/4	1,509.44	1/4	1,245.89	1/4	982.61	1/4	723.16	1/4	461.00	1/4	197.40	1/4		1/4		1/4		1/4	
1/2	1,503.95	1/2	1,240.40	1/2	977.20	1/2	717.76	1/2	455.51	1/2	191.91	1/2		1/2		1/2		1/2	
3/4	1,498.46	3/4	1,234.90	3/4	971.79	3/4	712.36	3/4	450.02	3/4	186.42	3/4		3/4		3/4		3/4	
8	1,492.98	8	1,229.41	8	966.39	8	706.95	8	444.53	8	180.93	8		8		8		8	
1/4	1,487.49	1/4	1,223.92	1/4	960.98	1/4	701.55	1/4	439.03	1/4	175.44	1/4		1/4		1/4		1/4	
1/2	1,482.00	1/2	1,218.43	1/2	955.57	1/2	696.15	1/2	433.54	1/2	169.95	1/2		1/2		1/2		1/2	
3/4	1,476.51	3/4	1,212.93	3/4	950.16	3/4	690.75	3/4	428.05	3/4	164.45	3/4		3/4		3/4		3/4	
9	1,471.02	9	1,207.44	9	944.76	9	685.35	9	422.56	9	158.96	9		9		9		9	
1/4	1,465.53	1/4	1,201.95	1/4	939.35	1/4	679.95	1/4	417.07	1/4	153.47	1/4		1/4		1/4		1/4	
1/2	1,460.05	1/2	1,196.46	1/2	933.94	1/2	674.54	1/2	411.58	1/2	147.98	1/2		1/2		1/2		1/2	
3/4	1,454.56	3/4	1,190.97	3/4	928.54	3/4	669.14	3/4	406.08	3/4	142.49	3/4		3/4		3/4		3/4	
10	1,449.07	10	1,185.47	10	923.13	10	663.74	10	400.59	10	137.00	10		10		10		10	
1/4	1,443.58	1/4	1,179.98	1/4	917.72	1/4	658.34	1/4	395.10	1/4	131.52	1/4		1/4		1/4		1/4	
1/2	1,438.09	1/2	1,174.49	1/2	912.31	1/2	652.94	1/2	389.61	1/2	126.03	1/2		1/2		1/2		1/2	
3/4	1,432.60	3/4	1,169.00	3/4	906.91	3/4	647.54	3/4	384.12	3/4	120.55	3/4		3/4		3/4		3/4	
11	1,427.12	11	1,163.51	11	901.50	11	642.09	11	378.63	11	115.07	11		11		11		11	
1/4	1,421.63	1/4	1,158.01	1/4	896.09	1/4	636.64	1/4	373.13	1/4	109.60	1/4		1/4		1/4		1/4	
1/2	1,416.14	1/2	1,152.52	1/2	890.69	1/2	631.19	1/2	367.64	1/2	104.12	1/2		1/2		1/2		1/2	
3/4	1,410.65	3/4	1,147.03	3/4	885.28	3/4	625.75	3/4	362.15	3/4	98.65	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2010 CL - SW  
CALCULATED: 07/14/2010 CL  
PRINTED: 07/14/2010 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2010

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



# BARGE "KIRBY 10210"

## 3 CENTER ULLAGE TABLE

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

GAUGE HEIGHT 16'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	3,460.87	0	3,226.16	0	2,966.48	0	2,706.79	0	2,446.63	0	2,185.54	0	1,924.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,459.05	1/4	3,220.75	1/4	2,961.07	1/4	2,701.38	1/4	2,441.19	1/4	2,180.10	1/4	1,919.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,457.24	1/2	3,215.34	1/2	2,955.65	1/2	2,695.97	1/2	2,435.75	1/2	2,174.67	1/2	1,913.58		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,455.42	3/4	3,209.93	3/4	2,950.24	3/4	2,690.56	3/4	2,430.31	3/4	2,169.23	3/4	1,908.14		
1		1		1		1	3,453.61	1	3,204.52	1	2,944.83	1	2,685.14	1	2,424.87	1	2,163.79	1	1,902.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,449.98	1/4	3,199.11	1/4	2,939.42	1/4	2,679.73	1/4	2,419.43	1/4	2,158.35	1/4	1,897.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,446.35	1/2	3,193.70	1/2	2,934.01	1/2	2,674.32	1/2	2,413.99	1/2	2,152.91	1/2	1,891.82		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,442.72	3/4	3,188.29	3/4	2,928.60	3/4	2,668.91	3/4	2,408.56	3/4	2,147.47	3/4	1,886.38		
2		2		2		2	3,439.09	2	3,182.88	2	2,923.19	2	2,663.50	2	2,403.12	2	2,142.03	2	1,880.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,434.04	1/4	3,177.47	1/4	2,917.78	1/4	2,658.09	1/4	2,397.68	1/4	2,136.59	1/4	1,875.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,428.98	1/2	3,172.06	1/2	2,912.37	1/2	2,652.68	1/2	2,392.24	1/2	2,131.15	1/2	1,870.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,423.92	3/4	3,166.65	3/4	2,906.96	3/4	2,647.27	3/4	2,386.80	3/4	2,125.71	3/4	1,864.63		
3		3		3		3	3,418.86	3	3,161.24	3	2,901.55	3	2,641.86	3	2,381.36	3	2,120.27	3	1,859.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,413.57	1/4	3,155.83	1/4	2,896.14	1/4	2,636.45	1/4	2,375.92	1/4	2,114.83	1/4	1,853.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,408.28	1/2	3,150.42	1/2	2,890.73	1/2	2,631.04	1/2	2,370.48	1/2	2,109.39	1/2	1,848.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,402.99	3/4	3,145.01	3/4	2,885.32	3/4	2,625.63	3/4	2,365.04	3/4	2,103.95	3/4	1,842.87		
4		4		4		4	3,397.70	4	3,139.60	4	2,879.91	4	2,620.22	4	2,359.60	4	2,098.52	4	1,837.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,392.39	1/4	3,134.19	1/4	2,874.50	1/4	2,614.81	1/4	2,354.16	1/4	2,093.08	1/4	1,831.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,387.09	1/2	3,128.78	1/2	2,869.09	1/2	2,609.40	1/2	2,348.72	1/2	2,087.64	1/2	1,826.55		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,381.78	3/4	3,123.37	3/4	2,863.68	3/4	2,603.99	3/4	2,343.28	3/4	2,082.20	3/4	1,821.11		
5		5		5		5	3,376.48	5	3,117.96	5	2,858.27	5	2,598.58	5	2,337.84	5	2,076.76	5	1,815.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,371.16	1/4	3,112.55	1/4	2,852.86	1/4	2,593.17	1/4	2,332.41	1/4	2,071.32	1/4	1,810.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,365.85	1/2	3,107.14	1/2	2,847.45	1/2	2,587.76	1/2	2,326.97	1/2	2,065.88	1/2	1,804.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,360.53	3/4	3,101.73	3/4	2,842.04	3/4	2,582.35	3/4	2,321.53	3/4	2,060.44	3/4	1,799.35		
6		6		6		6	3,355.22	6	3,096.32	6	2,836.63	6	2,576.94	6	2,316.09	6	2,055.00	6	1,793.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,349.91	1/4	3,090.91	1/4	2,831.22	1/4	2,571.53	1/4	2,310.65	1/4	2,049.56	1/4	1,788.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,344.59	1/2	3,085.50	1/2	2,825.81	1/2	2,566.12	1/2	2,305.21	1/2	2,044.12	1/2	1,783.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,339.28	3/4	3,080.09	3/4	2,820.40	3/4	2,560.71	3/4	2,299.77	3/4	2,038.68	3/4	1,777.60		
7		7		7		7	3,333.97	7	3,074.68	7	2,814.99	7	2,555.30	7	2,294.33	7	2,033.24	7	1,772.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,328.66	1/4	3,069.27	1/4	2,809.58	1/4	2,549.89	1/4	2,288.89	1/4	2,027.80	1/4	1,766.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,323.35	1/2	3,063.86	1/2	2,804.17	1/2	2,544.48	1/2	2,283.45	1/2	2,022.37	1/2	1,761.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,318.04	3/4	3,058.45	3/4	2,798.76	3/4	2,539.07	3/4	2,278.01	3/4	2,016.93	3/4	1,755.84		
8		8		8		8	3,312.73	8	3,053.04	8	2,793.35	8	2,533.66	8	2,272.57	8	2,011.49	8	1,750.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,307.32	1/4	3,047.63	1/4	2,787.94	1/4	2,528.22	1/4	2,267.13	1/4	2,006.05	1/4	1,744.96		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,301.91	1/2	3,042.22	1/2	2,782.53	1/2	2,522.78	1/2	2,261.69	1/2	2,000.61	1/2	1,739.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,296.50	3/4	3,036.81	3/4	2,777.12	3/4	2,517.34	3/4	2,256.25	3/4	1,995.17	3/4	1,734.08		
9		9		9		9	3,291.09	9	3,031.40	9	2,771.71	9	2,511.90	9	2,250.82	9	1,989.73	9	1,728.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,285.68	1/4	3,025.99	1/4	2,766.30	1/4	2,506.46	1/4	2,245.38	1/4	1,984.29	1/4	1,723.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,280.27	1/2	3,020.58	1/2	2,760.89	1/2	2,501.02	1/2	2,239.94	1/2	1,978.85	1/2	1,717.76		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,274.86	3/4	3,015.17	3/4	2,755.48	3/4	2,495.58	3/4	2,234.50	3/4	1,973.41	3/4	1,712.32		
10		10		10		10	3,269.45	10	3,009.76	10	2,750.07	10	2,490.14	10	2,229.06	10	1,967.97	10	1,706.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,264.04	1/4	3,004.35	1/4	2,744.66	1/4	2,484.71	1/4	2,223.62	1/4	1,962.53	1/4	1,701.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,258.63	1/2	2,998.94	1/2	2,739.25	1/2	2,479.27	1/2	2,218.18	1/2	1,957.09	1/2	1,696.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,253.22	3/4	2,993.53	3/4	2,733.84	3/4	2,473.83	3/4	2,212.74	3/4	1,951.65	3/4	1,690.57		
11		11		11		11	3,247.81	11	2,988.12	11	2,728.43	11	2,468.39	11	2,207.30	11	1,946.21	11	1,685.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,242.40	1/4	2,982.71	1/4	2,723.02	1/4	2,462.95	1/4	2,201.86	1/4	1,940.78	1/4	1,679.69		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,461.77	1/2	3,236.99	1/2	2,977.30	1/2	2,717.61	1/2	2,457.51	1/2	2,196.42	1/2	1,935.34	1/2	1,674.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,461.32	3/4	3,231.58	3/4	2,971.89	3/4	2,712.20	3/4	2,452.07	3/4	2,190.98	3/4	1,929.90	3/4	1,668.81

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 ON CENTERLINE AND 27'-05" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 10210"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE 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	1,663.37	0	1,402.28	0	1,141.03	0	880.64	0	620.15	0	358.91	0	97.77	0		0		0	
1/4	1,657.93	1/4	1,396.84	1/4	1,135.58	1/4	875.24	1/4	614.70	1/4	353.47	1/4	92.36	1/4		1/4		1/4	
1/2	1,652.49	1/2	1,391.40	1/2	1,130.14	1/2	869.83	1/2	609.26	1/2	348.03	1/2	86.95	1/2		1/2		1/2	
3/4	1,647.05	3/4	1,385.96	3/4	1,124.70	3/4	864.42	3/4	603.82	3/4	342.59	3/4	81.54	3/4		3/4		3/4	
1	1,641.61	1	1,380.51	1	1,119.25	1	859.02	1	598.38	1	337.14	1	76.14	1		1		1	
1/4	1,636.17	1/4	1,375.07	1/4	1,113.81	1/4	853.61	1/4	592.94	1/4	331.70	1/4	70.76	1/4		1/4		1/4	
1/2	1,630.74	1/2	1,369.63	1/2	1,108.37	1/2	848.20	1/2	587.49	1/2	326.26	1/2	65.38	1/2		1/2		1/2	
3/4	1,625.30	3/4	1,364.18	3/4	1,102.93	3/4	842.80	3/4	582.05	3/4	320.82	3/4	60.00	3/4		3/4		3/4	
2	1,619.86	2	1,358.74	2	1,097.48	2	837.39	2	576.61	2	315.37	2	54.62	2		2		2	
1/4	1,614.42	1/4	1,353.30	1/4	1,092.04	1/4	831.98	1/4	571.17	1/4	309.93	1/4	49.29	1/4		1/4		1/4	
1/2	1,608.98	1/2	1,347.86	1/2	1,086.60	1/2	826.58	1/2	565.72	1/2	304.49	1/2	43.96	1/2		1/2		1/2	
3/4	1,603.54	3/4	1,342.41	3/4	1,081.15	3/4	821.17	3/4	560.28	3/4	299.05	3/4	38.63	3/4		3/4		3/4	
3	1,598.10	3	1,336.97	3	1,075.71	3	815.77	3	554.84	3	293.60	3	33.30	3		3		3	
1/4	1,592.66	1/4	1,331.53	1/4	1,070.27	1/4	810.36	1/4	549.40	1/4	288.16	1/4	28.77	1/4		1/4		1/4	
1/2	1,587.22	1/2	1,326.08	1/2	1,064.83	1/2	804.96	1/2	543.95	1/2	282.72	1/2	24.24	1/2		1/2		1/2	
3/4	1,581.78	3/4	1,320.64	3/4	1,059.38	3/4	799.56	3/4	538.51	3/4	277.28	3/4	19.72	3/4		3/4		3/4	
4	1,576.34	4	1,315.20	4	1,053.94	4	794.16	4	533.07	4	271.83	4	15.19	4		4		4	
1/4	1,570.90	1/4	1,309.76	1/4	1,048.50	1/4	788.72	1/4	527.63	1/4	266.39	1/4	12.47	1/4		1/4		1/4	
1/2	1,565.46	1/2	1,304.31	1/2	1,043.05	1/2	783.29	1/2	522.18	1/2	260.95	1/2	9.75	1/2		1/2		1/2	
3/4	1,560.02	3/4	1,298.87	3/4	1,037.61	3/4	777.85	3/4	516.74	3/4	255.51	3/4	7.03	3/4		3/4		3/4	
5	1,554.59	5	1,293.43	5	1,032.17	5	772.41	5	511.30	5	250.06	5	4.31	5		5		5	
1/4	1,549.15	1/4	1,287.98	1/4	1,026.72	1/4	766.97	1/4	505.86	1/4	244.62	1/4	3.40	1/4		1/4		1/4	
1/2	1,543.71	1/2	1,282.54	1/2	1,021.28	1/2	761.54	1/2	500.42	1/2	239.18	1/2	2.49	1/2		1/2		1/2	
3/4	1,538.27	3/4	1,277.10	3/4	1,015.84	3/4	756.10	3/4	494.97	3/4	233.74	3/4	1.59	3/4		3/4		3/4	
6	1,532.83	6	1,271.66	6	1,010.40	6	750.66	6	489.53	6	228.30	6	0.68	6		6		6	
1/4	1,527.39	1/4	1,266.21	1/4	1,004.99	1/4	745.22	1/4	484.09	1/4	222.85	1/4		1/4		1/4		1/4	
1/2	1,521.95	1/2	1,260.77	1/2	999.58	1/2	739.79	1/2	478.65	1/2	217.41	1/2		1/2		1/2		1/2	
3/4	1,516.51	3/4	1,255.33	3/4	994.18	3/4	734.35	3/4	473.20	3/4	211.97	3/4		3/4		3/4		3/4	
7	1,511.07	7	1,249.88	7	988.77	7	728.91	7	467.76	7	206.53	7		7		7		7	
1/4	1,505.63	1/4	1,244.44	1/4	983.36	1/4	723.47	1/4	462.32	1/4	201.08	1/4		1/4		1/4		1/4	
1/2	1,500.19	1/2	1,239.00	1/2	977.96	1/2	718.04	1/2	456.88	1/2	195.64	1/2		1/2		1/2		1/2	
3/4	1,494.75	3/4	1,233.55	3/4	972.55	3/4	712.60	3/4	451.43	3/4	190.20	3/4		3/4		3/4		3/4	
8	1,489.31	8	1,228.11	8	967.14	8	707.16	8	445.99	8	184.76	8		8		8		8	
1/4	1,483.87	1/4	1,222.67	1/4	961.74	1/4	701.72	1/4	440.55	1/4	179.31	1/4		1/4		1/4		1/4	
1/2	1,478.44	1/2	1,217.23	1/2	956.33	1/2	696.29	1/2	435.11	1/2	173.87	1/2		1/2		1/2		1/2	
3/4	1,473.00	3/4	1,211.78	3/4	950.93	3/4	690.85	3/4	429.66	3/4	168.43	3/4		3/4		3/4		3/4	
9	1,467.56	9	1,206.34	9	945.52	9	685.41	9	424.22	9	162.99	9		9		9		9	
1/4	1,462.12	1/4	1,200.90	1/4	940.11	1/4	679.97	1/4	418.78	1/4	157.54	1/4		1/4		1/4		1/4	
1/2	1,456.68	1/2	1,195.45	1/2	934.71	1/2	674.54	1/2	413.34	1/2	152.10	1/2		1/2		1/2		1/2	
3/4	1,451.24	3/4	1,190.01	3/4	929.30	3/4	669.10	3/4	407.89	3/4	146.66	3/4		3/4		3/4		3/4	
10	1,445.80	10	1,184.57	10	923.89	10	663.66	10	402.45	10	141.22	10		10		10		10	
1/4	1,440.36	1/4	1,179.13	1/4	918.49	1/4	658.23	1/4	397.01	1/4	135.78	1/4		1/4		1/4		1/4	
1/2	1,434.92	1/2	1,173.68	1/2	913.08	1/2	652.79	1/2	391.57	1/2	130.35	1/2		1/2		1/2		1/2	
3/4	1,429.48	3/4	1,168.24	3/4	907.67	3/4	647.35	3/4	386.12	3/4	124.91	3/4		3/4		3/4		3/4	
11	1,424.04	11	1,162.80	11	902.27	11	641.92	11	380.68	11	119.47	11		11		11		11	
1/4	1,418.60	1/4	1,157.35	1/4	896.86	1/4	636.47	1/4	375.24	1/4	114.05	1/4		1/4		1/4		1/4	
1/2	1,413.16	1/2	1,151.91	1/2	891.46	1/2	631.03	1/2	369.80	1/2	108.62	1/2		1/2		1/2		1/2	
3/4	1,407.72	3/4	1,146.47	3/4	886.05	3/4	625.59	3/4	364.36	3/4	103.19	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2010 CL - SW  
CALCULATED: 07/14/2010 CL  
PRINTED: 07/14/2010 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2010

PRECISION MEASUREMENT  
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