



BARGE "KIRBY 28048"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-00"

September 8, 2006

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28048"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.				
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT			
0		0		0		0		4,209.55	0	3,920.95	0	3,618.06	0	3,301.26	0	2,972.15	0	2,640.85	0	2,309.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,203.64	1/4	3,914.79	1/4	3,611.59	1/4	3,294.51	1/4	2,965.25	1/4	2,633.95	1/4	2,302.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,197.73	1/2	3,908.64	1/2	3,605.12	1/2	3,287.76	1/2	2,958.35	1/2	2,627.05	1/2	2,295.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,191.82	3/4	3,902.49	3/4	3,598.65	3/4	3,281.00	3/4	2,951.45	3/4	2,620.15	3/4	2,288.82		
1		1		1		1		4,185.91	1	3,896.33	1	3,592.18	1	3,274.25	1	2,944.54	1	2,613.24	1	2,281.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,179.98	1/4	3,890.15	1/4	3,585.68	1/4	3,267.47	1/4	2,937.64	1/4	2,606.34	1/4	2,275.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,174.05	1/2	3,883.97	1/2	3,579.19	1/2	3,260.69	1/2	2,930.74	1/2	2,599.44	1/2	2,268.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,168.12	3/4	3,877.79	3/4	3,572.69	3/4	3,253.91	3/4	2,923.84	3/4	2,592.54	3/4	2,261.20		
2		2		2		2		4,162.19	2	3,871.61	2	3,566.20	2	3,247.13	2	2,916.94	2	2,585.64	2	2,254.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,156.23	1/4	3,865.41	1/4	3,559.69	1/4	3,240.33	1/4	2,910.03	1/4	2,578.73	1/4	2,247.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,150.27	1/2	3,859.21	1/2	3,553.17	1/2	3,233.53	1/2	2,903.13	1/2	2,571.83	1/2	2,240.49		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,144.31	3/4	3,853.00	3/4	3,546.65	3/4	3,226.73	3/4	2,896.23	3/4	2,564.93	3/4	2,233.59		
3		3		3		3		4,138.36	3	3,846.80	3	3,540.14	3	3,219.93	3	2,889.33	3	2,558.03	3	2,226.68		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,132.41	1/4	3,840.55	1/4	3,533.60	1/4	3,213.11	1/4	2,882.43	1/4	2,551.13	1/4	2,219.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,126.47	1/2	3,834.29	1/2	3,527.06	1/2	3,206.28	1/2	2,875.52	1/2	2,544.22	1/2	2,212.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,120.52	3/4	3,828.03	3/4	3,520.51	3/4	3,199.46	3/4	2,868.62	3/4	2,537.32	3/4	2,205.97		
4		4		4		4		4,114.58	4	3,821.77	4	3,513.97	4	3,192.64	4	2,861.72	4	2,530.42	4	2,199.07		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,108.61	1/4	3,815.49	1/4	3,507.41	1/4	3,185.79	1/4	2,854.82	1/4	2,523.52	1/4	2,192.17		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,102.64	1/2	3,809.20	1/2	3,500.84	1/2	3,178.94	1/2	2,847.92	1/2	2,516.61	1/2	2,185.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,096.67	3/4	3,802.92	3/4	3,494.28	3/4	3,172.09	3/4	2,841.01	3/4	2,509.71	3/4	2,178.36		
5		5		5		5		4,090.71	5	3,796.64	5	3,487.72	5	3,165.24	5	2,834.11	5	2,502.81	5	2,171.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,084.71	1/4	3,790.33	1/4	3,481.12	1/4	3,158.37	1/4	2,827.21	1/4	2,495.91	1/4	2,164.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,078.72	1/2	3,784.03	1/2	3,474.53	1/2	3,151.50	1/2	2,820.31	1/2	2,489.01	1/2	2,157.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,072.73	3/4	3,777.72	3/4	3,467.94	3/4	3,144.63	3/4	2,813.41	3/4	2,482.10	3/4	2,150.75		
6		6		6		6		4,066.73	6	3,771.41	6	3,461.35	6	3,137.76	6	2,806.50	6	2,475.20	6	2,143.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,359.09	1/4	4,060.72	1/4	3,765.08	1/4	3,454.73	1/4	3,130.87	1/4	2,799.60	1/4	2,468.30	1/4	2,136.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,353.92	1/2	4,054.71	1/2	3,758.74	1/2	3,448.12	1/2	3,123.98	1/2	2,792.70	1/2	2,461.40	1/2	2,130.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,348.74	3/4	4,048.69	3/4	3,752.41	3/4	3,441.51	3/4	3,117.09	3/4	2,785.80	3/4	2,454.50	3/4	2,123.13
7		7		7		7		4,343.56	7	4,042.68	7	3,746.07	7	3,434.90	7	3,110.20	7	2,778.89	7	2,447.59	7	2,116.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,336.65	1/4	4,036.63	1/4	3,739.72	1/4	3,428.27	1/4	3,103.29	1/4	2,771.99	1/4	2,440.69	1/4	2,109.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,329.75	1/2	4,030.59	1/2	3,733.37	1/2	3,421.63	1/2	3,096.39	1/2	2,765.09	1/2	2,433.79	1/2	2,102.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,322.85	3/4	4,024.55	3/4	3,727.01	3/4	3,415.00	3/4	3,089.49	3/4	2,758.19	3/4	2,426.88	3/4	2,095.52
8		8		8		8		4,315.94	8	4,018.50	8	3,720.66	8	3,408.37	8	3,082.59	8	2,751.29	8	2,419.98	8	2,088.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,309.04	1/4	4,012.44	1/4	3,714.28	1/4	3,401.70	1/4	3,075.68	1/4	2,744.38	1/4	2,413.08	1/4	2,081.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,302.14	1/2	4,006.38	1/2	3,707.91	1/2	3,395.04	1/2	3,068.78	1/2	2,737.48	1/2	2,406.17	1/2	2,074.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,295.23	3/4	4,000.32	3/4	3,701.53	3/4	3,388.38	3/4	3,061.88	3/4	2,730.58	3/4	2,399.27	3/4	2,067.91
9		9		9		9		4,288.33	9	3,994.26	9	3,695.16	9	3,381.72	9	3,054.98	9	2,723.68	9	2,392.37	9	2,061.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,281.43	1/4	3,988.17	1/4	3,688.75	1/4	3,375.04	1/4	3,048.08	1/4	2,716.78	1/4	2,385.46	1/4	2,054.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,274.52	1/2	3,982.09	1/2	3,682.35	1/2	3,368.36	1/2	3,041.17	1/2	2,709.87	1/2	2,378.56	1/2	2,047.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,267.62	3/4	3,976.00	3/4	3,675.95	3/4	3,361.67	3/4	3,034.27	3/4	2,702.97	3/4	2,371.66	3/4	2,040.29
10		10		10		10		4,260.72	10	3,969.92	10	3,669.54	10	3,354.99	10	3,027.37	10	2,696.07	10	2,364.75	10	2,033.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,253.81	1/4	3,963.81	1/4	3,663.12	1/4	3,348.29	1/4	3,020.47	1/4	2,689.17	1/4	2,357.85	1/4	2,026.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,246.91	1/2	3,957.70	1/2	3,656.69	1/2	3,341.59	1/2	3,013.57	1/2	2,682.27	1/2	2,350.95	1/2	2,019.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,240.01	3/4	3,951.59	3/4	3,650.27	3/4	3,334.88	3/4	3,006.66	3/4	2,675.36	3/4	2,344.04	3/4	2,012.68
11		11		11		11		4,233.10	11	3,945.47	11	3,643.85	11	3,328.18	11	2,999.76	11	2,668.46	11	2,337.14	11	2,005.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,227.21	1/4	3,939.34	1/4	3,637.40	1/4	3,321.45	1/4	2,992.86	1/4	2,661.56	1/4	2,330.24	1/4	1,998.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,221.33	1/2	3,933.21	1/2	3,630.96	1/2	3,314.72	1/2	2,985.96	1/2	2,654.66	1/2	2,323.33	1/2	1,991.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,215.44	3/4	3,927.08	3/4	3,624.51	3/4	3,307.99	3/4	2,979.06	3/4	2,647.75	3/4	2,316.43	3/4	1,985.07

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 28048"

1 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05"

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	1,978.16	0	1,646.80	0	1,315.44	0	984.41	0	668.22	0	375.12	0	105.61	0		0		0	
1/4	1,971.26	1/4	1,639.90	1/4	1,308.53	1/4	977.59	1/4	661.89	1/4	369.28	1/4	100.26	1/4		1/4		1/4	
1/2	1,964.36	1/2	1,632.99	1/2	1,301.63	1/2	970.76	1/2	655.56	1/2	363.44	1/2	94.91	1/2		1/2		1/2	
3/4	1,957.45	3/4	1,626.09	3/4	1,294.73	3/4	963.94	3/4	649.23	3/4	357.60	3/4	89.56	3/4		3/4		3/4	
1	1,950.55	1	1,619.19	1	1,287.82	1	957.12	1	642.90	1	351.76	1	84.21	1		1		1	
1/4	1,943.65	1/4	1,612.28	1/4	1,280.92	1/4	950.35	1/4	636.61	1/4	345.96	1/4	78.91	1/4		1/4		1/4	
1/2	1,936.74	1/2	1,605.38	1/2	1,274.02	1/2	943.59	1/2	630.32	1/2	340.16	1/2	73.60	1/2		1/2		1/2	
3/4	1,929.84	3/4	1,598.48	3/4	1,267.11	3/4	936.82	3/4	624.03	3/4	334.36	3/4	68.30	3/4		3/4		3/4	
2	1,922.94	2	1,591.57	2	1,260.21	2	930.06	2	617.74	2	328.56	2	63.00	2		2		2	
1/4	1,916.03	1/4	1,584.67	1/4	1,253.31	1/4	923.33	1/4	611.48	1/4	322.81	1/4	57.73	1/4		1/4		1/4	
1/2	1,909.13	1/2	1,577.77	1/2	1,246.40	1/2	916.60	1/2	605.23	1/2	317.05	1/2	52.47	1/2		1/2		1/2	
3/4	1,902.23	3/4	1,570.86	3/4	1,239.50	3/4	909.88	3/4	598.98	3/4	311.29	3/4	47.20	3/4		3/4		3/4	
3	1,895.32	3	1,563.96	3	1,232.60	3	903.15	3	592.73	3	305.53	3	41.94	3		3		3	
1/4	1,888.42	1/4	1,557.06	1/4	1,225.69	1/4	896.47	1/4	586.53	1/4	299.81	1/4	37.58	1/4		1/4		1/4	
1/2	1,881.51	1/2	1,550.15	1/2	1,218.79	1/2	889.79	1/2	580.32	1/2	294.09	1/2	33.22	1/2		1/2		1/2	
3/4	1,874.61	3/4	1,543.25	3/4	1,211.89	3/4	883.10	3/4	574.11	3/4	288.38	3/4	28.86	3/4		3/4		3/4	
4	1,867.71	4	1,536.34	4	1,204.98	4	876.42	4	567.90	4	282.66	4	24.50	4		4		4	
1/4	1,860.80	1/4	1,529.44	1/4	1,198.08	1/4	869.77	1/4	561.73	1/4	276.98	1/4	21.91	1/4		1/4		1/4	
1/2	1,853.90	1/2	1,522.54	1/2	1,191.17	1/2	863.13	1/2	555.56	1/2	271.31	1/2	19.32	1/2		1/2		1/2	
3/4	1,847.00	3/4	1,515.63	3/4	1,184.27	3/4	856.49	3/4	549.40	3/4	265.63	3/4	16.72	3/4		3/4		3/4	
5	1,840.09	5	1,508.73	5	1,177.37	5	849.84	5	543.23	5	259.95	5	14.13	5		5		5	
1/4	1,833.19	1/4	1,501.83	1/4	1,170.46	1/4	843.24	1/4	537.10	1/4	254.32	1/4		1/4		1/4		1/4	
1/2	1,826.29	1/2	1,494.92	1/2	1,163.56	1/2	836.64	1/2	530.98	1/2	248.68	1/2		1/2		1/2		1/2	
3/4	1,819.38	3/4	1,488.02	3/4	1,156.66	3/4	830.04	3/4	524.85	3/4	243.05	3/4		3/4		3/4		3/4	
6	1,812.48	6	1,481.12	6	1,149.75	6	823.43	6	518.72	6	237.42	6		6		6		6	
1/4	1,805.58	1/4	1,474.21	1/4	1,142.85	1/4	816.87	1/4	512.64	1/4	231.82	1/4		1/4		1/4		1/4	
1/2	1,798.67	1/2	1,467.31	1/2	1,135.95	1/2	810.31	1/2	506.55	1/2	226.22	1/2		1/2		1/2		1/2	
3/4	1,791.77	3/4	1,460.41	3/4	1,129.04	3/4	803.75	3/4	500.46	3/4	220.63	3/4		3/4		3/4		3/4	
7	1,784.87	7	1,453.50	7	1,122.14	7	797.19	7	494.38	7	215.03	7		7		7		7	
1/4	1,777.96	1/4	1,446.60	1/4	1,115.24	1/4	790.67	1/4	488.33	1/4	209.48	1/4		1/4		1/4		1/4	
1/2	1,771.06	1/2	1,439.70	1/2	1,108.33	1/2	784.15	1/2	482.29	1/2	203.93	1/2		1/2		1/2		1/2	
3/4	1,764.16	3/4	1,432.79	3/4	1,101.43	3/4	777.63	3/4	476.24	3/4	198.38	3/4		3/4		3/4		3/4	
8	1,757.25	8	1,425.89	8	1,094.53	8	771.11	8	470.20	8	192.82	8		8		8		8	
1/4	1,750.35	1/4	1,418.99	1/4	1,087.63	1/4	764.63	1/4	464.20	1/4	187.31	1/4		1/4		1/4		1/4	
1/2	1,743.45	1/2	1,412.08	1/2	1,080.72	1/2	758.15	1/2	458.19	1/2	181.79	1/2		1/2		1/2		1/2	
3/4	1,736.54	3/4	1,405.18	3/4	1,073.82	3/4	751.67	3/4	452.19	3/4	176.28	3/4		3/4		3/4		3/4	
9	1,729.64	9	1,398.28	9	1,066.92	9	745.18	9	446.18	9	170.76	9		9		9		9	
1/4	1,722.74	1/4	1,391.37	1/4	1,060.02	1/4	738.73	1/4	440.22	1/4	165.30	1/4		1/4		1/4		1/4	
1/2	1,715.83	1/2	1,384.47	1/2	1,053.13	1/2	732.28	1/2	434.26	1/2	159.83	1/2		1/2		1/2		1/2	
3/4	1,708.93	3/4	1,377.57	3/4	1,046.24	3/4	725.82	3/4	428.30	3/4	154.36	3/4		3/4		3/4		3/4	
10	1,702.03	10	1,370.66	10	1,039.34	10	719.37	10	422.33	10	148.89	10		10		10		10	
1/4	1,695.12	1/4	1,363.76	1/4	1,032.46	1/4	712.95	1/4	416.41	1/4	143.45	1/4		1/4		1/4		1/4	
1/2	1,688.22	1/2	1,356.86	1/2	1,025.58	1/2	706.54	1/2	410.49	1/2	138.02	1/2		1/2		1/2		1/2	
3/4	1,681.32	3/4	1,349.95	3/4	1,018.71	3/4	700.13	3/4	404.56	3/4	132.58	3/4		3/4		3/4		3/4	
11	1,674.41	11	1,343.05	11	1,011.83	11	693.71	11	398.64	11	127.15	11		11		11		11	
1/4	1,667.51	1/4	1,336.15	1/4	1,004.97	1/4	687.34	1/4	392.76	1/4	121.76	1/4		1/4		1/4		1/4	
1/2	1,660.61	1/2	1,329.24	1/2	998.12	1/2	680.97	1/2	386.88	1/2	116.38	1/2		1/2		1/2		1/2	
3/4	1,653.70	3/4	1,322.34	3/4	991.26	3/4	674.60	3/4	381.00	3/4	110.99	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/07/2006 CL - SW
CALCULATED: 09/08/2006 CL
PRINTED: 09/08/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 28048"

**1 STBD
ULLAGE TABLE**

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

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,981.99	0	1,650.85	0	1,319.70	0	988.93	0	674.14	0	380.74	0	110.92	0		0		0	
1/4	1,975.09	1/4	1,643.95	1/4	1,312.80	1/4	982.11	1/4	667.77	1/4	374.87	1/4	105.53	1/4	1/4	1/4		1/4	
1/2	1,968.20	1/2	1,637.05	1/2	1,305.90	1/2	975.32	1/2	661.45	1/2	369.03	1/2	100.19	1/2	1/2	1/2		1/2	
3/4	1,961.30	3/4	1,630.15	3/4	1,299.00	3/4	968.54	3/4	655.12	3/4	363.19	3/4	94.84	3/4	3/4	3/4		3/4	
1	1,954.40	1	1,623.25	1	1,292.10	1	961.76	1	648.79	1	357.36	1	89.50	1		1		1	
1/4	1,947.50	1/4	1,616.35	1/4	1,285.20	1/4	954.98	1/4	642.46	1/4	351.52	1/4	84.15	1/4	1/4	1/4		1/4	
1/2	1,940.60	1/2	1,609.45	1/2	1,278.31	1/2	948.26	1/2	636.18	1/2	345.72	1/2	78.85	1/2	1/2	1/2		1/2	
3/4	1,933.70	3/4	1,602.55	3/4	1,271.41	3/4	941.54	3/4	629.89	3/4	339.93	3/4	73.55	3/4	3/4	3/4		3/4	
2	1,926.80	2	1,595.65	2	1,264.51	2	934.81	2	623.60	2	334.14	2	68.25	2		2		2	
1/4	1,919.90	1/4	1,588.76	1/4	1,257.61	1/4	928.09	1/4	617.32	1/4	328.34	1/4	62.95	1/4	1/4	1/4		1/4	
1/2	1,913.00	1/2	1,581.86	1/2	1,250.71	1/2	921.41	1/2	611.07	1/2	322.59	1/2	57.69	1/2	1/2	1/2		1/2	
3/4	1,906.11	3/4	1,574.96	3/4	1,243.81	3/4	914.72	3/4	604.83	3/4	316.83	3/4	52.43	3/4	3/4	3/4		3/4	
3	1,899.21	3	1,568.06	3	1,236.91	3	908.04	3	598.58	3	311.08	3	47.17	3		3		3	
1/4	1,892.31	1/4	1,561.16	1/4	1,230.01	1/4	901.36	1/4	592.33	1/4	305.32	1/4	41.91	1/4	1/4	1/4		1/4	
1/2	1,885.41	1/2	1,554.26	1/2	1,223.11	1/2	894.72	1/2	586.13	1/2	299.61	1/2	37.55	1/2	1/2	1/2		1/2	
3/4	1,878.51	3/4	1,547.36	3/4	1,216.22	3/4	888.08	3/4	579.93	3/4	293.90	3/4	33.20	3/4	3/4	3/4		3/4	
4	1,871.61	4	1,540.46	4	1,209.32	4	881.44	4	573.72	4	288.18	4	28.84	4		4		4	
1/4	1,864.71	1/4	1,533.56	1/4	1,202.42	1/4	874.80	1/4	567.52	1/4	282.47	1/4	24.49	1/4	1/4	1/4		1/4	
1/2	1,857.81	1/2	1,526.67	1/2	1,195.52	1/2	868.19	1/2	561.35	1/2	276.80	1/2	21.90	1/2	1/2	1/2		1/2	
3/4	1,850.91	3/4	1,519.77	3/4	1,188.62	3/4	861.59	3/4	555.19	3/4	271.12	3/4	19.30	3/4	3/4	3/4		3/4	
5	1,844.01	5	1,512.87	5	1,181.72	5	854.99	5	549.03	5	265.45	5	16.71	5		5		5	
1/4	1,837.12	1/4	1,505.97	1/4	1,174.82	1/4	848.39	1/4	542.86	1/4	259.78	1/4	14.12	1/4	1/4	1/4		1/4	
1/2	1,830.22	1/2	1,499.07	1/2	1,167.92	1/2	841.83	1/2	536.74	1/2	254.15	1/2		1/2	1/2	1/2		1/2	
3/4	1,823.32	3/4	1,492.17	3/4	1,161.02	3/4	835.27	3/4	530.62	3/4	248.52	3/4		3/4	3/4	3/4		3/4	
6	1,816.42	6	1,485.27	6	1,154.13	6	828.72	6	524.50	6	242.89	6	6	6		6		6	
1/4	1,809.52	1/4	1,478.37	1/4	1,147.23	1/4	822.16	1/4	518.37	1/4	237.26	1/4		1/4	1/4	1/4		1/4	
1/2	1,802.62	1/2	1,471.47	1/2	1,140.33	1/2	815.64	1/2	512.29	1/2	231.66	1/2		1/2	1/2	1/2		1/2	
3/4	1,795.72	3/4	1,464.58	3/4	1,133.43	3/4	809.12	3/4	506.21	3/4	226.07	3/4		3/4	3/4	3/4		3/4	
7	1,788.82	7	1,457.68	7	1,126.53	7	802.60	7	500.13	7	220.48	7	7	7		7		7	
1/4	1,781.92	1/4	1,450.78	1/4	1,119.63	1/4	796.08	1/4	494.04	1/4	214.88	1/4		1/4	1/4	1/4		1/4	
1/2	1,775.03	1/2	1,443.88	1/2	1,112.73	1/2	789.60	1/2	488.00	1/2	209.34	1/2		1/2	1/2	1/2		1/2	
3/4	1,768.13	3/4	1,436.98	3/4	1,105.83	3/4	783.12	3/4	481.96	3/4	203.79	3/4		3/4	3/4	3/4		3/4	
8	1,761.23	8	1,430.08	8	1,098.93	8	776.65	8	475.92	8	198.24	8	8	8		8		8	
1/4	1,754.33	1/4	1,423.18	1/4	1,092.03	1/4	770.17	1/4	469.88	1/4	192.69	1/4		1/4	1/4	1/4		1/4	
1/2	1,747.43	1/2	1,416.28	1/2	1,085.14	1/2	763.73	1/2	463.88	1/2	187.18	1/2		1/2	1/2	1/2		1/2	
3/4	1,740.53	3/4	1,409.38	3/4	1,078.24	3/4	757.29	3/4	457.88	3/4	181.67	3/4		3/4	3/4	3/4		3/4	
9	1,733.63	9	1,402.49	9	1,071.34	9	750.86	9	451.88	9	176.16	9	9	9		9		9	
1/4	1,726.73	1/4	1,395.59	1/4	1,064.44	1/4	744.42	1/4	445.88	1/4	170.65	1/4		1/4	1/4	1/4		1/4	
1/2	1,719.83	1/2	1,388.69	1/2	1,057.55	1/2	738.01	1/2	439.92	1/2	165.18	1/2		1/2	1/2	1/2		1/2	
3/4	1,712.94	3/4	1,381.79	3/4	1,050.66	3/4	731.59	3/4	433.96	3/4	159.72	3/4		3/4	3/4	3/4		3/4	
10	1,706.04	10	1,374.89	10	1,043.77	10	725.18	10	428.01	10	154.25	10	10	10		10		10	
1/4	1,699.14	1/4	1,367.99	1/4	1,036.88	1/4	718.77	1/4	422.05	1/4	148.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,692.24	1/2	1,361.09	1/2	1,030.01	1/2	712.39	1/2	416.13	1/2	143.36	1/2		1/2	1/2	1/2		1/2	
3/4	1,685.34	3/4	1,354.19	3/4	1,023.14	3/4	706.01	3/4	410.21	3/4	137.93	3/4		3/4	3/4	3/4		3/4	
11	1,678.44	11	1,347.29	11	1,016.26	11	699.63	11	404.29	11	132.49	11	11	11		11		11	
1/4	1,671.54	1/4	1,340.40	1/4	1,009.39	1/4	693.24	1/4	398.37	1/4	127.06	1/4		1/4	1/4	1/4		1/4	
1/2	1,664.64	1/2	1,333.50	1/2	1,002.57	1/2	686.88	1/2	392.50	1/2	121.68	1/2		1/2	1/2	1/2		1/2	
3/4	1,657.74	3/4	1,326.60	3/4	995.75	3/4	680.51	3/4	386.62	3/4	116.30	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006



BARGE "KIRBY 28048"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

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	5,101.92	0	4,765.66	0	4,412.12	0	4,041.85	0	3,657.05	0	3,269.50	0	2,881.89
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,095.03	1/4	4,758.52	1/4	4,404.58	1/4	4,033.98	1/4	3,648.98	1/4	3,261.42	1/4	2,873.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,088.12	1/2	4,751.35	1/2	4,397.01	1/2	4,026.08	1/2	3,640.91	1/2	3,253.35	1/2	2,865.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,081.20	3/4	4,744.18	3/4	4,389.44	3/4	4,018.18	3/4	3,632.83	3/4	3,245.28	3/4	2,857.66
1		1		1		1	5,074.29	1	4,737.02	1	4,381.87	1	4,010.28	1	3,624.76	1	3,237.20	1	2,849.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,067.38	1/4	4,729.85	1/4	4,374.29	1/4	4,002.38	1/4	3,616.68	1/4	3,229.13	1/4	2,841.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,060.44	1/2	4,722.65	1/2	4,366.70	1/2	3,994.45	1/2	3,608.61	1/2	3,221.05	1/2	2,833.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,053.50	3/4	4,715.45	3/4	4,359.10	3/4	3,986.52	3/4	3,600.54	3/4	3,212.98	3/4	2,825.35
2		2		2		2	5,046.56	2	4,708.25	2	4,351.51	2	3,978.58	2	3,592.46	2	3,204.91	2	2,817.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,039.62	1/4	4,701.05	1/4	4,343.91	1/4	3,970.65	1/4	3,584.39	1/4	3,196.83	1/4	2,809.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,032.65	1/2	4,693.83	1/2	4,336.29	1/2	3,962.70	1/2	3,576.31	1/2	3,188.76	1/2	2,801.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,025.68	3/4	4,686.61	3/4	4,328.67	3/4	3,954.74	3/4	3,568.24	3/4	3,180.68	3/4	2,793.05
3		3		3		3	5,018.71	3	4,679.38	3	4,321.04	3	3,946.79	3	3,560.17	3	3,172.61	3	2,784.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,011.74	1/4	4,672.16	1/4	4,313.42	1/4	3,938.83	1/4	3,552.09	1/4	3,164.53	1/4	2,776.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,004.81	1/2	4,664.84	1/2	4,305.77	1/2	3,930.85	1/2	3,544.02	1/2	3,156.46	1/2	2,768.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,997.89	3/4	4,657.52	3/4	4,298.12	3/4	3,922.87	3/4	3,535.94	3/4	3,148.39	3/4	2,760.74
4		4		4		4	4,990.97	4	4,650.20	4	4,290.46	4	3,914.89	4	3,527.87	4	3,140.31	4	2,752.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,984.04	1/4	4,642.88	1/4	4,282.81	1/4	3,906.91	1/4	3,519.80	1/4	3,132.24	1/4	2,744.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,977.09	1/2	4,635.53	1/2	4,275.13	1/2	3,898.90	1/2	3,511.72	1/2	3,124.16	1/2	2,736.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,970.14	3/4	4,628.18	3/4	4,267.45	3/4	3,890.89	3/4	3,503.65	3/4	3,116.09	3/4	2,728.43
5		5		5		5	4,963.19	5	4,620.83	5	4,259.78	5	3,882.87	5	3,495.57	5	3,108.02	5	2,720.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,956.24	1/4	4,613.48	1/4	4,252.10	1/4	3,874.86	1/4	3,487.50	1/4	3,099.94	1/4	2,712.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,949.26	1/2	4,606.10	1/2	4,244.39	1/2	3,866.82	1/2	3,479.42	1/2	3,091.87	1/2	2,704.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,942.28	3/4	4,598.72	3/4	4,236.67	3/4	3,858.78	3/4	3,471.35	3/4	3,083.79	3/4	2,696.12
6		6		6		6	4,935.30	6	4,591.35	6	4,228.96	6	3,850.75	6	3,463.28	6	3,075.72	6	2,688.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,928.32	1/4	4,583.97	1/4	4,221.25	1/4	3,842.71	1/4	3,455.20	1/4	3,067.65	1/4	2,679.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,921.31	1/2	4,576.56	1/2	4,213.51	1/2	3,834.65	1/2	3,447.13	1/2	3,059.57	1/2	2,671.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,263.93	3/4	4,914.31	3/4	4,569.15	3/4	4,205.78	3/4	3,826.59	3/4	3,439.05	3/4	3,051.50
7		7		7		7	5,257.88	7	4,907.30	7	4,561.74	7	4,198.05	7	3,818.53	7	3,430.98	7	3,043.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,251.82	1/4	4,900.29	1/4	4,554.33	1/4	4,190.31	1/4	3,810.46	1/4	3,422.91	1/4	3,035.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,243.74	1/2	4,893.26	1/2	4,546.89	1/2	4,182.55	1/2	3,802.39	1/2	3,414.83	1/2	3,027.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,235.67	3/4	4,886.22	3/4	4,539.46	3/4	4,174.79	3/4	3,794.31	3/4	3,406.76	3/4	3,019.20
8		8		8		8	5,227.59	8	4,879.18	8	4,532.03	8	4,167.03	8	3,786.24	8	3,398.68	8	3,011.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,219.51	1/4	4,872.14	1/4	4,524.60	1/4	4,159.27	1/4	3,778.17	1/4	3,390.61	1/4	3,003.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,211.44	1/2	4,865.08	1/2	4,517.14	1/2	4,151.48	1/2	3,770.09	1/2	3,382.54	1/2	2,994.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,203.36	3/4	4,858.02	3/4	4,509.68	3/4	4,143.69	3/4	3,762.02	3/4	3,374.46	3/4	2,986.89
9		9		9		9	5,195.28	9	4,850.96	9	4,502.22	9	4,135.89	9	3,753.94	9	3,366.39	9	2,978.81
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,187.21	1/4	4,843.90	1/4	4,494.76	1/4	4,128.10	1/4	3,745.87	1/4	3,358.31	1/4	2,970.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,179.13	1/2	4,836.82	1/2	4,487.27	1/2	4,120.28	1/2	3,737.80	1/2	3,350.24	1/2	2,962.66
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,171.05	3/4	4,829.73	3/4	4,479.78	3/4	4,112.47	3/4	3,729.72	3/4	3,342.16	3/4	2,954.58
10		10		10		10	5,162.98	10	4,822.65	10	4,472.29	10	4,104.65	10	3,721.65	10	3,334.09	10	2,946.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,154.90	1/4	4,815.56	1/4	4,464.80	1/4	4,096.84	1/4	3,713.57	1/4	3,326.02	1/4	2,938.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,146.82	1/2	4,808.44	1/2	4,457.28	1/2	4,088.99	1/2	3,705.50	1/2	3,317.94	1/2	2,930.35
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,138.75	3/4	4,801.32	3/4	4,449.77	3/4	4,081.15	3/4	3,697.43	3/4	3,309.87	3/4	2,922.27
11		11		11		11	5,130.67	11	4,794.21	11	4,442.26	11	4,073.31	11	3,689.35	11	3,301.79	11	2,914.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,122.59	1/4	4,787.09	1/4	4,434.74	1/4	4,065.47	1/4	3,681.28	1/4	3,293.72	1/4	2,906.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,115.70	1/2	4,779.94	1/2	4,427.20	1/2	4,057.60	1/2	3,673.20	1/2	3,285.65	1/2	2,898.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,108.81	3/4	4,772.80	3/4	4,419.66	3/4	4,049.72	3/4	3,665.13	3/4	3,277.57	3/4	2,889.97

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "KIRBY 28048"

2 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,494.20	0	2,106.52	0	1,718.83	0	1,331.14	0	943.46	0	556.63	0	169.36	0		0		0	
1/4	2,486.13	1/4	2,098.44	1/4	1,710.75	1/4	1,323.07	1/4	935.38	1/4	548.56	1/4	161.30	1/4	1/4		1/4		1/4
1/2	2,478.05	1/2	2,090.36	1/2	1,702.68	1/2	1,314.99	1/2	927.30	1/2	540.50	1/2	153.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,469.97	3/4	2,082.29	3/4	1,694.60	3/4	1,306.91	3/4	919.23	3/4	532.43	3/4	145.16	3/4	3/4	3/4	3/4	3/4	3/4
1	2,461.90	1	2,074.21	1	1,686.52	1	1,298.84	1	911.15	1	524.36	1	137.09	1		1		1	
1/4	2,453.82	1/4	2,066.13	1/4	1,678.45	1/4	1,290.76	1/4	903.07	1/4	516.29	1/4	129.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,445.74	1/2	2,058.06	1/2	1,670.37	1/2	1,282.68	1/2	895.01	1/2	508.22	1/2	120.96	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,437.67	3/4	2,049.98	3/4	1,662.29	3/4	1,274.61	3/4	886.94	3/4	500.16	3/4	112.89	3/4	3/4	3/4	3/4	3/4	3/4
2	2,429.59	2	2,041.90	2	1,654.22	2	1,266.53	2	878.88	2	492.09	2	104.82	2		2		2	
1/4	2,421.51	1/4	2,033.83	1/4	1,646.14	1/4	1,258.45	1/4	870.81	1/4	484.02	1/4	96.75	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,413.44	1/2	2,025.75	1/2	1,638.06	1/2	1,250.38	1/2	862.76	1/2	475.95	1/2	88.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,405.36	3/4	2,017.67	3/4	1,629.99	3/4	1,242.30	3/4	854.71	3/4	467.88	3/4	80.61	3/4	3/4	3/4	3/4	3/4	3/4
3	2,397.28	3	2,009.60	3	1,621.91	3	1,234.22	3	846.66	3	459.82	3	72.55	3		3		3	
1/4	2,389.21	1/4	2,001.52	1/4	1,613.83	1/4	1,226.15	1/4	838.61	1/4	451.75	1/4	64.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,381.13	1/2	1,993.44	1/2	1,605.76	1/2	1,218.07	1/2	830.55	1/2	443.68	1/2	57.42	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,373.05	3/4	1,985.37	3/4	1,597.68	3/4	1,209.99	3/4	822.50	3/4	435.61	3/4	50.36	3/4	3/4	3/4	3/4	3/4	3/4
4	2,364.97	4	1,977.29	4	1,589.60	4	1,201.92	4	814.45	4	427.54	4	43.30	4		4		4	
1/4	2,356.90	1/4	1,969.21	1/4	1,581.53	1/4	1,193.84	1/4	806.40	1/4	419.48	1/4	36.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,348.82	1/2	1,961.13	1/2	1,573.45	1/2	1,185.76	1/2	798.34	1/2	411.41	1/2	31.20	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,340.74	3/4	1,953.06	3/4	1,565.37	3/4	1,177.69	3/4	790.29	3/4	403.34	3/4	26.16	3/4	3/4	3/4	3/4	3/4	3/4
5	2,332.67	5	1,944.98	5	1,557.29	5	1,169.61	5	782.24	5	395.27	5	21.12	5		5		5	
1/4	2,324.59	1/4	1,936.90	1/4	1,549.22	1/4	1,161.53	1/4	774.19	1/4	387.20	1/4	16.08	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,316.51	1/2	1,928.83	1/2	1,541.14	1/2	1,153.45	1/2	766.13	1/2	379.13	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,308.44	3/4	1,920.75	3/4	1,533.06	3/4	1,145.38	3/4	758.08	3/4	371.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,300.36	6	1,912.67	6	1,524.99	6	1,137.30	6	750.03	6	363.00	6	6	6		6		6	
1/4	2,292.28	1/4	1,904.60	1/4	1,516.91	1/4	1,129.22	1/4	741.98	1/4	354.93	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,284.21	1/2	1,896.52	1/2	1,508.83	1/2	1,121.15	1/2	733.93	1/2	346.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,276.13	3/4	1,888.44	3/4	1,500.76	3/4	1,113.07	3/4	725.87	3/4	338.79	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	2,268.05	7	1,880.37	7	1,492.68	7	1,104.99	7	717.82	7	330.73	7	7	7		7		7	
1/4	2,259.98	1/4	1,872.29	1/4	1,484.60	1/4	1,096.92	1/4	709.77	1/4	322.66	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,251.90	1/2	1,864.21	1/2	1,476.53	1/2	1,088.84	1/2	701.72	1/2	314.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,243.82	3/4	1,856.14	3/4	1,468.45	3/4	1,080.76	3/4	693.66	3/4	306.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	2,235.75	8	1,848.06	8	1,460.37	8	1,072.69	8	685.61	8	298.45	8	8	8		8		8	
1/4	2,227.67	1/4	1,839.98	1/4	1,452.30	1/4	1,064.61	1/4	677.56	1/4	290.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,219.59	1/2	1,831.91	1/2	1,444.22	1/2	1,056.53	1/2	669.51	1/2	282.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,211.52	3/4	1,823.83	3/4	1,436.14	3/4	1,048.46	3/4	661.45	3/4	274.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	2,203.44	9	1,815.75	9	1,428.07	9	1,040.38	9	653.40	9	266.18	9	9	9		9		9	
1/4	2,195.36	1/4	1,807.68	1/4	1,419.99	1/4	1,032.30	1/4	645.35	1/4	258.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,187.29	1/2	1,799.60	1/2	1,411.91	1/2	1,024.23	1/2	637.29	1/2	250.04	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,179.21	3/4	1,791.52	3/4	1,403.84	3/4	1,016.15	3/4	629.23	3/4	241.98	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	2,171.13	10	1,783.45	10	1,395.76	10	1,008.07	10	621.17	10	233.91	10	10	10		10		10	
1/4	2,163.05	1/4	1,775.37	1/4	1,387.68	1/4	1,000.00	1/4	613.11	1/4	225.84	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,154.98	1/2	1,767.29	1/2	1,379.61	1/2	991.92	1/2	605.04	1/2	217.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,146.90	3/4	1,759.21	3/4	1,371.53	3/4	983.84	3/4	596.97	3/4	209.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	2,138.82	11	1,751.14	11	1,363.45	11	975.77	11	588.91	11	201.64	11	11	11		11		11	
1/4	2,130.75	1/4	1,743.06	1/4	1,355.37	1/4	967.69	1/4	580.84	1/4	193.57	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,122.67	1/2	1,734.98	1/2	1,347.30	1/2	959.61	1/2	572.77	1/2	185.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,114.59	3/4	1,726.91	3/4	1,339.22	3/4	951.53	3/4	564.70	3/4	177.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/07/2006 CL - SW
CALCULATED: 09/08/2006 CL
PRINTED: 09/08/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "KIRBY 28048"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0	5,095.92	0	4,759.83	0	4,406.61	0	4,036.60	0	3,651.93	0	3,264.28	0	2,876.59
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,089.02	1/4	4,752.69	1/4	4,399.07	1/4	4,028.72	1/4	3,643.85	1/4	3,256.20	1/4	2,868.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,082.13	1/2	4,745.54	1/2	4,391.53	1/2	4,020.85	1/2	3,635.78	1/2	3,248.13	1/2	2,860.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,075.22	3/4	4,738.37	3/4	4,383.95	3/4	4,012.95	3/4	3,627.70	3/4	3,240.05	3/4	2,852.36
1		1		1		1	5,068.30	1	4,731.20	1	4,376.38	1	4,005.05	1	3,619.62	1	3,231.98	1	2,844.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,061.39	1/4	4,724.04	1/4	4,368.81	1/4	3,997.15	1/4	3,611.55	1/4	3,223.90	1/4	2,836.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,054.47	1/2	4,716.87	1/2	4,361.23	1/2	3,989.25	1/2	3,603.47	1/2	3,215.82	1/2	2,828.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,047.53	3/4	4,709.67	3/4	4,353.64	3/4	3,981.31	3/4	3,595.40	3/4	3,207.75	3/4	2,820.05
2		2		2		2	5,040.59	2	4,702.47	2	4,346.04	2	3,973.38	2	3,587.32	2	3,199.67	2	2,811.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,033.65	1/4	4,695.27	1/4	4,338.44	1/4	3,965.44	1/4	3,579.24	1/4	3,191.60	1/4	2,803.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,026.71	1/2	4,688.07	1/2	4,330.84	1/2	3,957.51	1/2	3,571.17	1/2	3,183.52	1/2	2,795.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,019.74	3/4	4,680.84	3/4	4,323.22	3/4	3,949.55	3/4	3,563.09	3/4	3,175.44	3/4	2,787.73
3		3		3		3	5,012.76	3	4,673.61	3	4,315.60	3	3,941.60	3	3,555.02	3	3,167.37	3	2,779.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,005.79	1/4	4,666.39	1/4	4,307.97	1/4	3,933.64	1/4	3,546.94	1/4	3,159.29	1/4	2,771.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,998.82	1/2	4,659.16	1/2	4,300.35	1/2	3,925.69	1/2	3,538.86	1/2	3,151.22	1/2	2,763.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,991.89	3/4	4,651.84	3/4	4,292.69	3/4	3,917.70	3/4	3,530.79	3/4	3,143.14	3/4	2,755.42
4		4		4		4	4,984.97	4	4,644.52	4	4,285.04	4	3,909.72	4	3,522.71	4	3,135.06	4	2,747.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,978.04	1/4	4,637.20	1/4	4,277.39	1/4	3,901.74	1/4	3,514.64	1/4	3,126.99	1/4	2,739.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,971.12	1/2	4,629.88	1/2	4,269.73	1/2	3,893.76	1/2	3,506.56	1/2	3,118.91	1/2	2,731.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,964.16	3/4	4,622.52	3/4	4,262.05	3/4	3,885.74	3/4	3,498.48	3/4	3,110.84	3/4	2,723.11
5		5		5		5	4,957.21	5	4,615.17	5	4,254.37	5	3,877.73	5	3,490.41	5	3,102.76	5	2,715.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,950.26	1/4	4,607.82	1/4	4,246.69	1/4	3,869.71	1/4	3,482.33	1/4	3,094.68	1/4	2,706.95
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,943.31	1/2	4,600.47	1/2	4,239.01	1/2	3,861.70	1/2	3,474.26	1/2	3,086.61	1/2	2,698.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,936.33	3/4	4,593.09	3/4	4,231.30	3/4	3,853.66	3/4	3,466.18	3/4	3,078.53	3/4	2,690.79
6		6		6		6	4,929.35	6	4,585.71	6	4,223.59	6	3,845.62	6	3,458.10	6	3,070.46	6	2,682.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,922.36	1/4	4,578.33	1/4	4,215.87	1/4	3,837.59	1/4	3,450.03	1/4	3,062.38	1/4	2,674.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,915.38	1/2	4,570.95	1/2	4,208.16	1/2	3,829.55	1/2	3,441.95	1/2	3,054.30	1/2	2,666.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,908.37	3/4	4,563.54	3/4	4,200.42	3/4	3,821.48	3/4	3,433.88	3/4	3,046.23	3/4	2,658.48
7		7		7	5,251.07	7	4,901.37	7	4,556.13	7	4,192.69	7	3,813.42	7	3,425.80	7	3,038.15	7	2,650.40
1/4	1/4	1/4	1/4	1/4	5,245.01	1/4	4,894.36	1/4	4,548.72	1/4	4,184.95	1/4	3,805.36	1/4	3,417.72	1/4	3,030.08	1/4	2,642.32
1/2	1/2	1/2	1/2	1/2	5,238.95	1/2	4,887.35	1/2	4,541.31	1/2	4,177.21	1/2	3,797.30	1/2	3,409.65	1/2	3,022.00	1/2	2,634.25
3/4	3/4	3/4	3/4	3/4	5,230.87	3/4	4,880.31	3/4	4,533.87	3/4	4,169.45	3/4	3,789.22	3/4	3,401.57	3/4	3,013.92	3/4	2,626.17
8		8		8	5,222.80	8	4,873.27	8	4,526.44	8	4,161.69	8	3,781.14	8	3,393.50	8	3,005.84	8	2,618.09
1/4	1/4	1/4	1/4	1/4	5,214.72	1/4	4,866.23	1/4	4,519.00	1/4	4,153.93	1/4	3,773.07	1/4	3,385.42	1/4	2,997.77	1/4	2,610.01
1/2	1/2	1/2	1/2	1/2	5,206.64	1/2	4,859.19	1/2	4,511.57	1/2	4,146.17	1/2	3,764.99	1/2	3,377.34	1/2	2,989.69	1/2	2,601.93
3/4	3/4	3/4	3/4	3/4	5,198.56	3/4	4,852.13	3/4	4,504.11	3/4	4,138.37	3/4	3,756.92	3/4	3,369.27	3/4	2,981.61	3/4	2,593.86
9		9		9	5,190.48	9	4,845.07	9	4,496.65	9	4,130.58	9	3,748.84	9	3,361.19	9	2,973.53	9	2,585.78
1/4	1/4	1/4	1/4	1/4	5,182.40	1/4	4,838.01	1/4	4,489.19	1/4	4,122.79	1/4	3,740.76	1/4	3,353.12	1/4	2,965.45	1/4	2,577.70
1/2	1/2	1/2	1/2	1/2	5,174.33	1/2	4,830.94	1/2	4,481.73	1/2	4,114.99	1/2	3,732.69	1/2	3,345.04	1/2	2,957.37	1/2	2,569.62
3/4	3/4	3/4	3/4	3/4	5,166.25	3/4	4,823.86	3/4	4,474.24	3/4	4,107.17	3/4	3,724.61	3/4	3,336.96	3/4	2,949.30	3/4	2,561.54
10		10		10	5,158.17	10	4,816.77	10	4,466.74	10	4,099.36	10	3,716.54	10	3,328.89	10	2,941.22	10	2,553.46
1/4	1/4	1/4	1/4	1/4	5,150.09	1/4	4,809.68	1/4	4,459.25	1/4	4,091.54	1/4	3,708.46	1/4	3,320.81	1/4	2,933.14	1/4	2,545.39
1/2	1/2	1/2	1/2	1/2	5,142.01	1/2	4,802.60	1/2	4,451.76	1/2	4,083.72	1/2	3,700.38	1/2	3,312.74	1/2	2,925.06	1/2	2,537.31
3/4	3/4	3/4	3/4	3/4	5,133.93	3/4	4,795.48	3/4	4,444.24	3/4	4,075.88	3/4	3,692.31	3/4	3,304.66	3/4	2,916.98	3/4	2,529.23
11		11		11	5,125.86	11	4,788.36	11	4,436.73	11	4,068.03	11	3,684.23	11	3,296.58	11	2,908.91	11	2,521.15
1/4	1/4	1/4	1/4	1/4	5,117.78	1/4	4,781.24	1/4	4,429.21	1/4	4,060.19	1/4	3,676.16	1/4	3,288.51	1/4	2,900.83	1/4	2,513.07
1/2	1/2	1/2	1/2	1/2	5,109.70	1/2	4,774.12	1/2	4,421.69	1/2	4,052.35	1/2	3,668.08	1/2	3,280.43	1/2	2,892.75	1/2	2,505.00
3/4	3/4	3/4	3/4	3/4	5,102.81	3/4	4,766.97	3/4	4,414.15	3/4	4,044.47	3/4	3,660.00	3/4	3,272.36	3/4	2,884.67	3/4	2,496.92

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28048"

2 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,488.84	0	2,101.09	0	1,713.33	0	1,325.58	0	938.13	0	565.42	0	178.02	0		0		0	
1/4	2,480.76	1/4	2,093.01	1/4	1,705.25	1/4	1,317.50	1/4	930.20	1/4	557.50	1/4	169.94	1/4		1/4		1/4	
1/2	2,472.68	1/2	2,084.93	1/2	1,697.18	1/2	1,309.42	1/2	922.28	1/2	549.57	1/2	161.86	1/2		1/2		1/2	
3/4	2,464.60	3/4	2,076.85	3/4	1,689.10	3/4	1,301.34	3/4	914.51	3/4	541.50	3/4	153.79	3/4		3/4		3/4	
1	2,456.53	1	2,068.77	1	1,681.02	1	1,293.27	1	906.74	1	533.42	1	145.71	1		1		1	
1/4	2,448.45	1/4	2,060.69	1/4	1,672.94	1/4	1,285.19	1/4	898.97	1/4	525.34	1/4	137.63	1/4		1/4		1/4	
1/2	2,440.37	1/2	2,052.62	1/2	1,664.86	1/2	1,277.11	1/2	891.20	1/2	517.27	1/2	129.55	1/2		1/2		1/2	
3/4	2,432.29	3/4	2,044.54	3/4	1,656.78	3/4	1,269.03	3/4	883.45	3/4	509.19	3/4	121.48	3/4		3/4		3/4	
2	2,424.21	2	2,036.46	2	1,648.71	2	1,260.95	2	875.69	2	501.11	2	113.40	2		2		2	
1/4	2,416.14	1/4	2,028.38	1/4	1,640.63	1/4	1,252.87	1/4	867.94	1/4	493.03	1/4	105.32	1/4		1/4		1/4	
1/2	2,408.06	1/2	2,020.30	1/2	1,632.55	1/2	1,244.80	1/2	860.18	1/2	484.96	1/2	97.25	1/2		1/2		1/2	
3/4	2,399.98	3/4	2,012.23	3/4	1,624.47	3/4	1,236.72	3/4	852.44	3/4	476.88	3/4	89.17	3/4		3/4		3/4	
3	2,391.90	3	2,004.15	3	1,616.39	3	1,228.64	3	844.69	3	468.80	3	81.09	3		3		3	
1/4	2,383.82	1/4	1,996.07	1/4	1,608.32	1/4	1,220.56	1/4	836.95	1/4	460.72	1/4	73.01	1/4		1/4		1/4	
1/2	2,375.74	1/2	1,987.99	1/2	1,600.24	1/2	1,212.48	1/2	829.20	1/2	452.65	1/2	64.94	1/2		1/2		1/2	
3/4	2,367.67	3/4	1,979.91	3/4	1,592.16	3/4	1,204.41	3/4	821.46	3/4	444.57	3/4	57.87	3/4		3/4		3/4	
4	2,359.59	4	1,971.83	4	1,584.08	4	1,196.33	4	813.71	4	436.49	4	50.80	4		4		4	
1/4	2,351.51	1/4	1,963.76	1/4	1,576.00	1/4	1,188.25	1/4	805.97	1/4	428.41	1/4	43.73	1/4		1/4		1/4	
1/2	2,343.43	1/2	1,955.68	1/2	1,567.92	1/2	1,180.17	1/2	798.22	1/2	420.34	1/2	36.66	1/2		1/2		1/2	
3/4	2,335.35	3/4	1,947.60	3/4	1,559.85	3/4	1,172.09	3/4	790.48	3/4	412.26	3/4	31.61	3/4		3/4		3/4	
5	2,327.28	5	1,939.52	5	1,551.77	5	1,164.01	5	782.73	5	404.18	5	26.56	5		5		5	
1/4	2,319.20	1/4	1,931.44	1/4	1,543.69	1/4	1,155.94	1/4	774.99	1/4	396.11	1/4	21.51	1/4		1/4		1/4	
1/2	2,311.12	1/2	1,923.37	1/2	1,535.61	1/2	1,147.86	1/2	767.25	1/2	388.03	1/2	16.47	1/2		1/2		1/2	
3/4	2,303.04	3/4	1,915.29	3/4	1,527.53	3/4	1,139.78	3/4	759.50	3/4	379.95	3/4		3/4		3/4		3/4	
6	2,294.96	6	1,907.21	6	1,519.46	6	1,131.70	6	751.76	6	371.87	6		6		6		6	
1/4	2,286.88	1/4	1,899.13	1/4	1,511.38	1/4	1,123.62	1/4	744.01	1/4	363.80	1/4		1/4		1/4		1/4	
1/2	2,278.81	1/2	1,891.05	1/2	1,503.30	1/2	1,115.55	1/2	736.27	1/2	355.72	1/2		1/2		1/2		1/2	
3/4	2,270.73	3/4	1,882.97	3/4	1,495.22	3/4	1,107.47	3/4	728.52	3/4	347.64	3/4		3/4		3/4		3/4	
7	2,262.65	7	1,874.90	7	1,487.14	7	1,099.39	7	720.78	7	339.56	7		7		7		7	
1/4	2,254.57	1/4	1,866.82	1/4	1,479.06	1/4	1,091.31	1/4	713.03	1/4	331.49	1/4		1/4		1/4		1/4	
1/2	2,246.49	1/2	1,858.74	1/2	1,470.99	1/2	1,083.23	1/2	705.29	1/2	323.41	1/2		1/2		1/2		1/2	
3/4	2,238.41	3/4	1,850.66	3/4	1,462.91	3/4	1,075.15	3/4	697.55	3/4	315.33	3/4		3/4		3/4		3/4	
8	2,230.34	8	1,842.58	8	1,454.83	8	1,067.08	8	689.80	8	307.26	8		8		8		8	
1/4	2,222.26	1/4	1,834.50	1/4	1,446.75	1/4	1,059.00	1/4	682.06	1/4	299.18	1/4		1/4		1/4		1/4	
1/2	2,214.18	1/2	1,826.43	1/2	1,438.67	1/2	1,050.92	1/2	674.32	1/2	291.10	1/2		1/2		1/2		1/2	
3/4	2,206.10	3/4	1,818.35	3/4	1,430.59	3/4	1,042.84	3/4	666.58	3/4	283.02	3/4		3/4		3/4		3/4	
9	2,198.02	9	1,810.27	9	1,422.52	9	1,034.76	9	658.83	9	274.95	9		9		9		9	
1/4	2,189.95	1/4	1,802.19	1/4	1,414.44	1/4	1,026.68	1/4	651.09	1/4	266.87	1/4		1/4		1/4		1/4	
1/2	2,181.87	1/2	1,794.11	1/2	1,406.36	1/2	1,018.61	1/2	643.35	1/2	258.79	1/2		1/2		1/2		1/2	
3/4	2,173.79	3/4	1,786.04	3/4	1,398.28	3/4	1,010.53	3/4	635.60	3/4	250.71	3/4		3/4		3/4		3/4	
10	2,165.71	10	1,777.96	10	1,390.20	10	1,002.45	10	627.84	10	242.64	10		10		10		10	
1/4	2,157.63	1/4	1,769.88	1/4	1,382.13	1/4	994.37	1/4	620.09	1/4	234.56	1/4		1/4		1/4		1/4	
1/2	2,149.55	1/2	1,761.80	1/2	1,374.05	1/2	986.29	1/2	612.34	1/2	226.48	1/2		1/2		1/2		1/2	
3/4	2,141.48	3/4	1,753.72	3/4	1,365.97	3/4	978.22	3/4	604.57	3/4	218.40	3/4		3/4		3/4		3/4	
11	2,133.40	11	1,745.64	11	1,357.89	11	970.14	11	596.80	11	210.33	11		11		11		11	
1/4	2,125.32	1/4	1,737.57	1/4	1,349.81	1/4	962.06	1/4	589.04	1/4	202.25	1/4		1/4		1/4		1/4	
1/2	2,117.24	1/2	1,729.49	1/2	1,341.73	1/2	953.98	1/2	581.27	1/2	194.17	1/2		1/2		1/2		1/2	
3/4	2,109.16	3/4	1,721.41	3/4	1,333.66	3/4	946.06	3/4	573.35	3/4	186.10	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/07/2006 CL - SW
CALCULATED: 09/08/2006 CL
PRINTED: 09/08/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006

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



BARGE "KIRBY 28048"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,499.91	0	4,244.09	0	3,975.52	0	3,694.46	0	3,400.56	0	3,045.61	0	2,684.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,494.68	1/4	4,238.65	1/4	3,969.79	1/4	3,688.48	1/4	3,394.02	1/4	3,038.09	1/4	2,677.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.43	1/2	4,233.20	1/2	3,964.04	1/2	3,682.48	1/2	3,387.19	1/2	3,030.57	1/2	2,669.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.18	3/4	4,227.74	3/4	3,958.30	3/4	3,676.49	3/4	3,380.37	3/4	3,023.05	3/4	2,662.08		
1		1		1		1	4,478.93	1	4,222.28	1	3,952.55	1	3,670.49	1	3,373.55	1	3,015.53	1	2,654.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,473.69	1/4	4,216.83	1/4	3,946.80	1/4	3,664.50	1/4	3,366.72	1/4	3,008.01	1/4	2,647.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,468.42	1/2	4,211.34	1/2	3,941.04	1/2	3,658.48	1/2	3,359.62	1/2	3,000.49	1/2	2,639.51		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,463.15	3/4	4,205.86	3/4	3,935.27	3/4	3,652.46	3/4	3,352.52	3/4	2,992.97	3/4	2,631.99		
2		2		2		2	4,457.89	2	4,200.38	2	3,929.50	2	3,646.43	2	3,345.41	2	2,985.45	2	2,624.47		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,452.62	1/4	4,194.90	1/4	3,923.74	1/4	3,640.41	1/4	3,338.31	1/4	2,977.93	1/4	2,616.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,447.33	1/2	4,189.40	1/2	3,917.95	1/2	3,634.37	1/2	3,330.93	1/2	2,970.41	1/2	2,609.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,442.04	3/4	4,183.90	3/4	3,912.17	3/4	3,628.34	3/4	3,323.55	3/4	2,962.89	3/4	2,601.91		
3		3		3		3	4,436.75	3	4,178.40	3	3,906.38	3	3,622.30	3	3,316.17	3	2,955.37	3	2,594.39		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,431.46	1/4	4,172.90	1/4	3,900.60	1/4	3,616.26	1/4	3,308.79	1/4	2,947.85	1/4	2,586.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,426.19	1/2	4,167.34	1/2	3,894.79	1/2	3,610.20	1/2	3,301.27	1/2	2,940.33	1/2	2,579.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,420.91	3/4	4,161.79	3/4	3,888.98	3/4	3,604.15	3/4	3,293.75	3/4	2,932.81	3/4	2,571.82		
4		4		4		4	4,415.64	4	4,156.23	4	3,883.17	4	3,598.09	4	3,286.23	4	2,925.29	4	2,564.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,410.37	1/4	4,150.68	1/4	3,877.36	1/4	3,592.03	1/4	3,278.71	1/4	2,917.78	1/4	2,556.78		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,405.08	1/2	4,145.10	1/2	3,871.53	1/2	3,585.95	1/2	3,271.19	1/2	2,910.26	1/2	2,549.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,399.79	3/4	4,139.52	3/4	3,865.70	3/4	3,579.87	3/4	3,263.67	3/4	2,902.74	3/4	2,541.74		
5		5		5		5	4,394.50	5	4,133.94	5	3,859.88	5	3,573.78	5	3,256.15	5	2,895.22	5	2,534.22		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,389.20	1/4	4,128.36	1/4	3,854.05	1/4	3,567.70	1/4	3,248.63	1/4	2,887.70	1/4	2,526.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,383.89	1/2	4,122.76	1/2	3,848.19	1/2	3,561.60	1/2	3,241.11	1/2	2,880.18	1/2	2,519.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,378.57	3/4	4,117.16	3/4	3,842.34	3/4	3,555.50	3/4	3,233.59	3/4	2,872.66	3/4	2,511.66		
6		6		6		6	4,373.26	6	4,111.56	6	3,836.49	6	3,549.40	6	3,226.07	6	2,865.14	6	2,504.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,367.94	1/4	4,105.96	1/4	3,830.63	1/4	3,543.30	1/4	3,218.56	1/4	2,857.62	1/4	2,496.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,362.61	1/2	4,100.33	1/2	3,824.76	1/2	3,537.18	1/2	3,211.04	1/2	2,850.10	1/2	2,489.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,622.88	3/4	4,357.28	3/4	4,094.71	3/4	3,818.89	3/4	3,531.06	3/4	3,203.52	3/4	2,842.58	3/4	2,481.57
7		7		7		7	4,351.94	7	4,089.08	7	3,813.02	7	3,524.94	7	3,196.00	7	2,835.06	7	2,474.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,346.61	1/4	4,083.46	1/4	3,807.15	1/4	3,518.82	1/4	3,188.48	1/4	2,827.54	1/4	2,466.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,341.25	1/2	4,077.82	1/2	3,801.26	1/2	3,512.69	1/2	3,180.96	1/2	2,820.02	1/2	2,459.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,601.42	3/4	4,335.89	3/4	4,072.17	3/4	3,795.37	3/4	3,506.56	3/4	3,173.44	3/4	2,812.50	3/4	2,451.49
8		8		8		8	4,595.29	8	4,330.53	8	4,066.53	8	3,789.48	8	3,500.44	8	3,165.92	8	2,804.98	8	2,443.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,589.16	1/4	4,325.17	1/4	4,060.89	1/4	3,783.59	1/4	3,494.31	1/4	3,158.40	1/4	2,797.46	1/4	2,436.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,583.03	1/2	4,319.79	1/2	4,055.23	1/2	3,777.67	1/2	3,488.18	1/2	3,150.88	1/2	2,789.94	1/2	2,428.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,576.90	3/4	4,314.42	3/4	4,049.57	3/4	3,771.76	3/4	3,482.05	3/4	3,143.36	3/4	2,782.41	3/4	2,421.40
9		9		9		9	4,570.77	9	4,309.04	9	4,043.91	9	3,765.84	9	3,475.92	9	3,135.84	9	2,774.89	9	2,413.88
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,564.64	1/4	4,303.67	1/4	4,038.25	1/4	3,759.93	1/4	3,469.79	1/4	3,128.32	1/4	2,767.37	1/4	2,406.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,558.51	1/2	4,298.27	1/2	4,032.56	1/2	3,753.99	1/2	3,463.66	1/2	3,120.80	1/2	2,759.85	1/2	2,398.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,552.38	3/4	4,292.88	3/4	4,026.87	3/4	3,748.06	3/4	3,457.53	3/4	3,113.28	3/4	2,752.33	3/4	2,391.32
10		10		10		10	4,546.25	10	4,287.48	10	4,021.19	10	3,742.13	10	3,451.40	10	3,105.76	10	2,744.81	10	2,383.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,540.12	1/4	4,282.09	1/4	4,015.50	1/4	3,736.19	1/4	3,445.27	1/4	3,098.24	1/4	2,737.29	1/4	2,376.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.99	1/2	4,276.67	1/2	4,009.80	1/2	3,730.24	1/2	3,439.01	1/2	3,090.72	1/2	2,729.77	1/2	2,368.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,527.85	3/4	4,271.25	3/4	4,004.09	3/4	3,724.29	3/4	3,432.74	3/4	3,083.20	3/4	2,722.25	3/4	2,361.23
11		11		11		11	4,521.72	11	4,265.83	11	3,998.39	11	3,718.34	11	3,426.47	11	3,075.68	11	2,714.72	11	2,353.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,515.59	1/4	4,260.41	1/4	3,992.69	1/4	3,712.38	1/4	3,420.20	1/4	3,068.17	1/4	2,707.20	1/4	2,346.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,510.36	1/2	4,254.97	1/2	3,986.96	1/2	3,706.41	1/2	3,413.66	1/2	3,060.65	1/2	2,699.68	1/2	2,338.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,505.14	3/4	4,249.53	3/4	3,981.24	3/4	3,700.43	3/4	3,407.11	3/4	3,053.13	3/4	2,692.16	3/4	2,331.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28048"

3 PORT ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,323.63	0	1,962.61	0	1,601.60	0	1,240.59	0	880.35	0	519.38	0	158.38	0		0		0	
1/4	2,316.11	1/4	1,955.09	1/4	1,594.08	1/4	1,233.07	1/4	872.86	1/4	511.86	1/4	150.86	1/4		1/4		1/4	
1/2	2,308.59	1/2	1,947.57	1/2	1,586.56	1/2	1,225.55	1/2	865.34	1/2	504.34	1/2	143.34	1/2		1/2		1/2	
3/4	2,301.06	3/4	1,940.05	3/4	1,579.04	3/4	1,218.03	3/4	857.82	3/4	496.82	3/4	135.82	3/4		3/4		3/4	
1	2,293.54	1	1,932.53	1	1,571.52	1	1,210.50	1	850.30	1	489.30	1	128.30	1		1		1	
1/4	2,286.02	1/4	1,925.01	1/4	1,564.00	1/4	1,202.98	1/4	842.78	1/4	481.78	1/4	120.78	1/4		1/4		1/4	
1/2	2,278.50	1/2	1,917.49	1/2	1,556.48	1/2	1,195.46	1/2	835.25	1/2	474.26	1/2	113.26	1/2		1/2		1/2	
3/4	2,270.98	3/4	1,909.97	3/4	1,548.95	3/4	1,187.94	3/4	827.73	3/4	466.74	3/4	105.74	3/4		3/4		3/4	
2	2,263.46	2	1,902.45	2	1,541.43	2	1,180.42	2	820.21	2	459.21	2	98.22	2		2		2	
1/4	2,255.94	1/4	1,894.92	1/4	1,533.91	1/4	1,172.90	1/4	812.69	1/4	451.69	1/4	90.70	1/4		1/4		1/4	
1/2	2,248.42	1/2	1,887.40	1/2	1,526.39	1/2	1,165.38	1/2	805.17	1/2	444.17	1/2	83.17	1/2		1/2		1/2	
3/4	2,240.90	3/4	1,879.88	3/4	1,518.87	3/4	1,157.86	3/4	797.65	3/4	436.65	3/4	75.65	3/4		3/4		3/4	
3	2,233.37	3	1,872.36	3	1,511.35	3	1,150.34	3	790.13	3	429.13	3	68.13	3		3		3	
1/4	2,225.85	1/4	1,864.84	1/4	1,503.83	1/4	1,142.81	1/4	782.61	1/4	421.61	1/4	60.61	1/4		1/4		1/4	
1/2	2,218.33	1/2	1,857.32	1/2	1,496.31	1/2	1,135.29	1/2	775.09	1/2	414.09	1/2	54.03	1/2		1/2		1/2	
3/4	2,210.81	3/4	1,849.80	3/4	1,488.79	3/4	1,127.77	3/4	767.57	3/4	406.57	3/4	47.45	3/4		3/4		3/4	
4	2,203.29	4	1,842.28	4	1,481.26	4	1,120.25	4	760.05	4	399.05	4	40.87	4		4		4	
1/4	2,195.77	1/4	1,834.76	1/4	1,473.74	1/4	1,112.73	1/4	752.53	1/4	391.53	1/4	34.29	1/4		1/4		1/4	
1/2	2,188.25	1/2	1,827.23	1/2	1,466.22	1/2	1,105.23	1/2	745.00	1/2	384.01	1/2	29.59	1/2		1/2		1/2	
3/4	2,180.73	3/4	1,819.71	3/4	1,458.70	3/4	1,097.74	3/4	737.48	3/4	376.49	3/4	24.89	3/4		3/4		3/4	
5	2,173.21	5	1,812.19	5	1,451.18	5	1,090.24	5	729.96	5	368.96	5	20.19	5		5		5	
1/4	2,165.68	1/4	1,804.67	1/4	1,443.66	1/4	1,082.75	1/4	722.44	1/4	361.44	1/4	15.49	1/4		1/4		1/4	
1/2	2,158.16	1/2	1,797.15	1/2	1,436.14	1/2	1,075.25	1/2	714.92	1/2	353.92	1/2		1/2		1/2		1/2	
3/4	2,150.64	3/4	1,789.63	3/4	1,428.62	3/4	1,067.75	3/4	707.40	3/4	346.40	3/4		3/4		3/4		3/4	
6	2,143.12	6	1,782.11	6	1,421.10	6	1,060.26	6	699.88	6	338.88	6	6	6		6		6	
1/4	2,135.60	1/4	1,774.59	1/4	1,413.57	1/4	1,052.76	1/4	692.36	1/4	331.36	1/4		1/4		1/4		1/4	
1/2	2,128.08	1/2	1,767.07	1/2	1,406.05	1/2	1,045.27	1/2	684.84	1/2	323.84	1/2		1/2		1/2		1/2	
3/4	2,120.56	3/4	1,759.55	3/4	1,398.53	3/4	1,037.77	3/4	677.32	3/4	316.32	3/4		3/4		3/4		3/4	
7	2,113.04	7	1,752.02	7	1,391.01	7	1,030.27	7	669.80	7	308.80	7	7	7		7		7	
1/4	2,105.52	1/4	1,744.50	1/4	1,383.49	1/4	1,022.78	1/4	662.28	1/4	301.28	1/4		1/4		1/4		1/4	
1/2	2,097.99	1/2	1,736.98	1/2	1,375.97	1/2	1,015.28	1/2	654.76	1/2	293.76	1/2		1/2		1/2		1/2	
3/4	2,090.47	3/4	1,729.46	3/4	1,368.45	3/4	1,007.79	3/4	647.23	3/4	286.24	3/4		3/4		3/4		3/4	
8	2,082.95	8	1,721.94	8	1,360.93	8	1,000.29	8	639.71	8	278.72	8	8	8		8		8	
1/4	2,075.43	1/4	1,714.42	1/4	1,353.41	1/4	992.79	1/4	632.19	1/4	271.19	1/4		1/4		1/4		1/4	
1/2	2,067.91	1/2	1,706.90	1/2	1,345.88	1/2	985.30	1/2	624.67	1/2	263.67	1/2		1/2		1/2		1/2	
3/4	2,060.39	3/4	1,699.38	3/4	1,338.36	3/4	977.80	3/4	617.15	3/4	256.15	3/4		3/4		3/4		3/4	
9	2,052.87	9	1,691.86	9	1,330.84	9	970.31	9	609.63	9	248.63	9	9	9		9		9	
1/4	2,045.35	1/4	1,684.33	1/4	1,323.32	1/4	962.81	1/4	602.11	1/4	241.11	1/4		1/4		1/4		1/4	
1/2	2,037.83	1/2	1,676.81	1/2	1,315.80	1/2	955.31	1/2	594.59	1/2	233.59	1/2		1/2		1/2		1/2	
3/4	2,030.30	3/4	1,669.29	3/4	1,308.28	3/4	947.82	3/4	587.07	3/4	226.07	3/4		3/4		3/4		3/4	
10	2,022.78	10	1,661.77	10	1,300.76	10	940.32	10	579.55	10	218.55	10	10	10		10		10	
1/4	2,015.26	1/4	1,654.25	1/4	1,293.24	1/4	932.83	1/4	572.03	1/4	211.03	1/4		1/4		1/4		1/4	
1/2	2,007.74	1/2	1,646.73	1/2	1,285.72	1/2	925.33	1/2	564.51	1/2	203.51	1/2		1/2		1/2		1/2	
3/4	2,000.22	3/4	1,639.21	3/4	1,278.19	3/4	917.83	3/4	556.98	3/4	195.99	3/4		3/4		3/4		3/4	
11	1,992.70	11	1,631.69	11	1,270.67	11	910.34	11	549.46	11	188.47	11	11	11		11		11	
1/4	1,985.18	1/4	1,624.17	1/4	1,263.15	1/4	902.84	1/4	541.94	1/4	180.94	1/4		1/4		1/4		1/4	
1/2	1,977.66	1/2	1,616.64	1/2	1,255.63	1/2	895.35	1/2	534.42	1/2	173.42	1/2		1/2		1/2		1/2	
3/4	1,970.14	3/4	1,609.12	3/4	1,248.11	3/4	887.85	3/4	526.90	3/4	165.90	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/07/2006 CL - SW
CALCULATED: 09/08/2006 CL
PRINTED: 09/08/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006

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



BARGE "KIRBY 28048"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

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	4,481.22	0	4,225.18	0	3,956.36	0	3,675.06	0	3,380.90	0	3,026.12	0	2,665.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,475.98	1/4	4,219.74	1/4	3,950.63	1/4	3,669.07	1/4	3,374.35	1/4	3,018.61	1/4	2,658.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,470.73	1/2	4,214.27	1/2	3,944.88	1/2	3,663.07	1/2	3,367.52	1/2	3,011.10	1/2	2,650.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,465.48	3/4	4,208.81	3/4	3,939.13	3/4	3,657.07	3/4	3,360.69	3/4	3,003.59	3/4	2,642.97
1		1		1		1	4,460.23	1	4,203.35	1	3,933.38	1	3,651.07	1	3,353.86	1	2,996.07	1	2,635.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,454.98	1/4	4,197.89	1/4	3,927.63	1/4	3,645.07	1/4	3,347.03	1/4	2,988.56	1/4	2,627.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,449.70	1/2	4,192.40	1/2	3,921.85	1/2	3,639.05	1/2	3,339.92	1/2	2,981.05	1/2	2,620.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,444.43	3/4	4,186.91	3/4	3,916.08	3/4	3,633.02	3/4	3,332.81	3/4	2,973.54	3/4	2,612.91
2		2		2		2	4,439.16	2	4,181.43	2	3,910.31	2	3,626.99	2	3,325.70	2	2,966.02	2	2,605.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,433.89	1/4	4,175.94	1/4	3,904.54	1/4	3,620.96	1/4	3,318.59	1/4	2,958.51	1/4	2,597.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,428.60	1/2	4,170.44	1/2	3,898.75	1/2	3,614.92	1/2	3,311.21	1/2	2,951.00	1/2	2,590.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,423.30	3/4	4,164.93	3/4	3,892.96	3/4	3,608.88	3/4	3,303.82	3/4	2,943.49	3/4	2,582.86
3		3		3		3	4,418.01	3	4,159.43	3	3,887.17	3	3,602.83	3	3,296.44	3	2,935.97	3	2,575.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,412.71	1/4	4,153.92	1/4	3,881.38	1/4	3,596.79	1/4	3,289.05	1/4	2,928.46	1/4	2,567.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,407.43	1/2	4,148.36	1/2	3,875.56	1/2	3,590.73	1/2	3,281.54	1/2	2,920.95	1/2	2,560.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,402.16	3/4	4,142.80	3/4	3,869.75	3/4	3,584.67	3/4	3,274.03	3/4	2,913.44	3/4	2,552.81
4		4		4		4	4,396.88	4	4,137.24	4	3,863.94	4	3,578.60	4	3,266.52	4	2,905.93	4	2,545.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,391.60	1/4	4,131.68	1/4	3,858.12	1/4	3,572.54	1/4	3,259.00	1/4	2,898.41	1/4	2,537.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,386.31	1/2	4,126.09	1/2	3,852.29	1/2	3,566.45	1/2	3,251.49	1/2	2,890.90	1/2	2,530.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,381.01	3/4	4,120.51	3/4	3,846.46	3/4	3,560.36	3/4	3,243.98	3/4	2,883.39	3/4	2,522.75
5		5		5		5	4,375.71	5	4,114.92	5	3,840.62	5	3,554.27	5	3,236.47	5	2,875.88	5	2,515.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,370.42	1/4	4,109.34	1/4	3,834.79	1/4	3,548.19	1/4	3,228.95	1/4	2,868.36	1/4	2,507.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,365.10	1/2	4,103.74	1/2	3,828.93	1/2	3,542.08	1/2	3,221.44	1/2	2,860.85	1/2	2,500.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,359.78	3/4	4,098.13	3/4	3,823.07	3/4	3,535.98	3/4	3,213.93	3/4	2,853.34	3/4	2,492.70
6		6		6		6	4,354.46	6	4,092.53	6	3,817.21	6	3,529.87	6	3,206.42	6	2,845.83	6	2,485.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,349.14	1/4	4,086.92	1/4	3,811.35	1/4	3,523.76	1/4	3,198.90	1/4	2,838.31	1/4	2,477.67
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,343.80	1/2	4,081.29	1/2	3,805.48	1/2	3,517.64	1/2	3,191.39	1/2	2,830.80	1/2	2,470.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,604.30	3/4	4,338.46	3/4	4,075.66	3/4	3,799.60	3/4	3,511.52	3/4	3,183.88	3/4	2,823.29
7		7		7		7	4,599.69	7	4,333.12	7	4,070.03	7	3,793.72	7	3,505.39	7	3,176.37	7	2,815.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,595.09	1/4	4,327.78	1/4	4,064.40	1/4	3,787.85	1/4	3,499.27	1/4	3,168.86	1/4	2,808.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,588.95	1/2	4,322.42	1/2	4,058.76	1/2	3,781.95	1/2	3,493.13	1/2	3,161.34	1/2	2,800.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,582.82	3/4	4,317.06	3/4	4,053.11	3/4	3,776.06	3/4	3,487.00	3/4	3,153.83	3/4	2,793.24
8		8		8		8	4,576.68	8	4,311.69	8	4,047.46	8	3,770.16	8	3,480.86	8	3,146.32	8	2,785.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,570.55	1/4	4,306.33	1/4	4,041.81	1/4	3,764.27	1/4	3,474.73	1/4	3,138.81	1/4	2,778.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,564.41	1/2	4,300.95	1/2	4,036.15	1/2	3,758.34	1/2	3,468.59	1/2	3,131.29	1/2	2,770.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,558.28	3/4	4,295.57	3/4	4,030.48	3/4	3,752.42	3/4	3,462.46	3/4	3,123.78	3/4	2,763.18
9		9		9		9	4,552.14	9	4,290.19	9	4,024.82	9	3,746.50	9	3,456.33	9	3,116.27	9	2,755.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,546.00	1/4	4,284.81	1/4	4,019.15	1/4	3,740.58	1/4	3,450.19	1/4	3,108.76	1/4	2,748.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,539.87	1/2	4,279.41	1/2	4,013.46	1/2	3,734.65	1/2	3,444.06	1/2	3,101.24	1/2	2,740.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,533.73	3/4	4,274.01	3/4	4,007.77	3/4	3,728.71	3/4	3,437.92	3/4	3,093.73	3/4	2,733.13
10		10		10		10	4,527.60	10	4,268.61	10	4,002.08	10	3,722.77	10	3,431.79	10	3,086.22	10	2,725.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,521.46	1/4	4,263.21	1/4	3,996.38	1/4	3,716.83	1/4	3,425.65	1/4	3,078.71	1/4	2,718.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,515.33	1/2	4,257.78	1/2	3,990.68	1/2	3,710.87	1/2	3,419.38	1/2	3,071.20	1/2	2,710.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,509.19	3/4	4,252.36	3/4	3,984.97	3/4	3,704.92	3/4	3,413.11	3/4	3,063.68	3/4	2,703.08
11		11		11		11	4,503.06	11	4,246.93	11	3,979.26	11	3,698.96	11	3,406.83	11	3,056.17	11	2,695.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.92	1/4	4,241.51	1/4	3,973.55	1/4	3,693.00	1/4	3,400.56	1/4	3,048.66	1/4	2,688.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,491.69	1/2	4,236.06	1/2	3,967.82	1/2	3,687.02	1/2	3,394.01	1/2	3,041.15	1/2	2,680.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,486.45	3/4	4,230.62	3/4	3,962.09	3/4	3,681.04	3/4	3,387.46	3/4	3,033.63	3/4	2,673.02

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-08" FORWARD OF AFT BULKHEAD.

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



BARGE "KIRBY 28048"

3 STBD ULLAGE TABLE

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

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,304.94	0	1,945.51	0	1,586.72	0	1,226.03	0	871.97	0	518.92	0	158.51	0		0		0	
1/4	2,297.43	1/4	1,938.06	1/4	1,579.21	1/4	1,218.52	1/4	864.60	1/4	511.55	1/4	150.99	1/4		1/4		1/4	
1/2	2,289.92	1/2	1,930.61	1/2	1,571.70	1/2	1,211.14	1/2	857.23	1/2	504.10	1/2	143.46	1/2		1/2		1/2	
3/4	2,282.40	3/4	1,923.16	3/4	1,564.18	3/4	1,203.76	3/4	849.85	3/4	496.65	3/4	135.93	3/4		3/4		3/4	
1	2,274.89	1	1,915.71	1	1,556.67	1	1,196.38	1	842.47	1	489.20	1	128.40	1		1		1	
1/4	2,267.38	1/4	1,908.26	1/4	1,549.15	1/4	1,189.01	1/4	835.09	1/4	481.76	1/4	120.88	1/4		1/4		1/4	
1/2	2,259.86	1/2	1,900.82	1/2	1,541.64	1/2	1,181.63	1/2	827.72	1/2	474.24	1/2	113.35	1/2		1/2		1/2	
3/4	2,252.35	3/4	1,893.37	3/4	1,534.12	3/4	1,174.25	3/4	820.35	3/4	466.73	3/4	105.82	3/4		3/4		3/4	
2	2,244.83	2	1,885.92	2	1,526.61	2	1,166.87	2	812.97	2	459.21	2	98.30	2		2		2	
1/4	2,237.32	1/4	1,878.47	1/4	1,519.09	1/4	1,159.50	1/4	805.60	1/4	451.70	1/4	90.77	1/4		1/4		1/4	
1/2	2,229.80	1/2	1,871.02	1/2	1,511.58	1/2	1,152.12	1/2	798.24	1/2	444.18	1/2	83.24	1/2		1/2		1/2	
3/4	2,222.29	3/4	1,863.57	3/4	1,504.07	3/4	1,144.74	3/4	790.88	3/4	436.66	3/4	75.71	3/4		3/4		3/4	
3	2,214.78	3	1,856.12	3	1,496.55	3	1,137.36	3	783.52	3	429.15	3	68.19	3		3		3	
1/4	2,207.26	1/4	1,848.68	1/4	1,489.04	1/4	1,129.98	1/4	776.17	1/4	421.63	1/4	60.66	1/4		1/4		1/4	
1/2	2,199.75	1/2	1,841.23	1/2	1,481.52	1/2	1,122.61	1/2	768.82	1/2	414.12	1/2	54.07	1/2		1/2		1/2	
3/4	2,192.23	3/4	1,833.78	3/4	1,474.01	3/4	1,115.23	3/4	761.48	3/4	406.60	3/4	47.49	3/4		3/4		3/4	
4	2,184.72	4	1,826.33	4	1,466.49	4	1,107.85	4	754.13	4	399.09	4	40.90	4		4		4	
1/4	2,177.20	1/4	1,818.88	1/4	1,458.98	1/4	1,100.47	1/4	746.79	1/4	391.57	1/4	34.31	1/4		1/4		1/4	
1/2	2,169.69	1/2	1,811.43	1/2	1,451.46	1/2	1,093.10	1/2	739.44	1/2	384.06	1/2	29.61	1/2		1/2		1/2	
3/4	2,162.17	3/4	1,803.98	3/4	1,443.95	3/4	1,085.73	3/4	732.10	3/4	376.54	3/4	24.90	3/4		3/4		3/4	
5	2,154.66	5	1,796.54	5	1,436.44	5	1,078.36	5	724.75	5	369.03	5	20.20	5		5		5	
1/4	2,147.15	1/4	1,789.09	1/4	1,428.92	1/4	1,070.99	1/4	717.41	1/4	361.51	1/4	15.50	1/4		1/4		1/4	
1/2	2,139.63	1/2	1,781.64	1/2	1,421.41	1/2	1,063.62	1/2	710.06	1/2	354.00	1/2		1/2		1/2		1/2	
3/4	2,132.12	3/4	1,774.19	3/4	1,413.89	3/4	1,056.25	3/4	702.72	3/4	346.48	3/4		3/4		3/4		3/4	
6	2,124.60	6	1,766.74	6	1,406.38	6	1,048.88	6	695.37	6	338.96	6	6	6		6		6	
1/4	2,117.09	1/4	1,759.29	1/4	1,398.86	1/4	1,041.50	1/4	688.02	1/4	331.45	1/4		1/4		1/4		1/4	
1/2	2,109.57	1/2	1,751.84	1/2	1,391.35	1/2	1,034.13	1/2	680.68	1/2	323.93	1/2		1/2		1/2		1/2	
3/4	2,102.06	3/4	1,744.39	3/4	1,383.84	3/4	1,026.76	3/4	673.33	3/4	316.42	3/4		3/4		3/4		3/4	
7	2,094.54	7	1,736.95	7	1,376.32	7	1,019.39	7	665.99	7	308.90	7	7	7		7		7	
1/4	2,087.03	1/4	1,729.50	1/4	1,368.81	1/4	1,012.02	1/4	658.64	1/4	301.39	1/4		1/4		1/4		1/4	
1/2	2,079.58	1/2	1,721.98	1/2	1,361.29	1/2	1,004.65	1/2	651.29	1/2	293.87	1/2		1/2		1/2		1/2	
3/4	2,072.13	3/4	1,714.47	3/4	1,353.78	3/4	997.28	3/4	643.95	3/4	286.36	3/4		3/4		3/4		3/4	
8	2,064.68	8	1,706.95	8	1,346.26	8	989.91	8	636.60	8	278.84	8	8	8		8		8	
1/4	2,057.24	1/4	1,699.44	1/4	1,338.75	1/4	982.54	1/4	629.25	1/4	271.33	1/4		1/4		1/4		1/4	
1/2	2,049.79	1/2	1,691.93	1/2	1,331.23	1/2	975.17	1/2	621.91	1/2	263.81	1/2		1/2		1/2		1/2	
3/4	2,042.34	3/4	1,684.41	3/4	1,323.72	3/4	967.80	3/4	614.56	3/4	256.29	3/4		3/4		3/4		3/4	
9	2,034.89	9	1,676.90	9	1,316.21	9	960.42	9	607.22	9	248.78	9	9	9		9		9	
1/4	2,027.44	1/4	1,669.38	1/4	1,308.69	1/4	953.05	1/4	599.87	1/4	241.26	1/4		1/4		1/4		1/4	
1/2	2,019.99	1/2	1,661.87	1/2	1,301.18	1/2	945.68	1/2	592.52	1/2	233.75	1/2		1/2		1/2		1/2	
3/4	2,012.54	3/4	1,654.35	3/4	1,293.66	3/4	938.31	3/4	585.18	3/4	226.23	3/4		3/4		3/4		3/4	
10	2,005.10	10	1,646.84	10	1,286.15	10	930.94	10	577.83	10	218.72	10	10	10		10		10	
1/4	1,997.65	1/4	1,639.32	1/4	1,278.63	1/4	923.57	1/4	570.48	1/4	211.20	1/4		1/4		1/4		1/4	
1/2	1,990.20	1/2	1,631.81	1/2	1,271.12	1/2	916.20	1/2	563.13	1/2	203.68	1/2		1/2		1/2		1/2	
3/4	1,982.75	3/4	1,624.30	3/4	1,263.60	3/4	908.83	3/4	555.77	3/4	196.15	3/4		3/4		3/4		3/4	
11	1,975.30	11	1,616.78	11	1,256.09	11	901.46	11	548.41	11	188.62	11	11	11		11		11	
1/4	1,967.85	1/4	1,609.27	1/4	1,248.58	1/4	894.09	1/4	541.05	1/4	181.09	1/4		1/4		1/4		1/4	
1/2	1,960.40	1/2	1,601.75	1/2	1,241.06	1/2	886.72	1/2	533.67	1/2	173.57	1/2		1/2		1/2		1/2	
3/4	1,952.96	3/4	1,594.24	3/4	1,233.55	3/4	879.35	3/4	526.30	3/4	166.04	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/07/2006 CL - SW
CALCULATED: 09/08/2006 CL
PRINTED: 09/08/2006 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2006

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



BARGE "KIRBY 28048"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. 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	110	0	282	0	454	0	564	0		0		0		0		0	
1/4	1	1/4	114	1/4	286	1/4	457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	117	1/2	289	1/2	460	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	120	3/4	293	3/4	463	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	123	1	297	1	467	1		1		1		1		1		1	
1/4	4	1/4	127	1/4	301	1/4	470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	130	1/2	304	1/2	473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	133	3/4	308	3/4	476	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	137	2	312	2	479	2		2		2		2		2		2	
1/4	10	1/4	140	1/4	316	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	144	1/2	319	1/2	485	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	147	3/4	323	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	151	3	327	3	491	3		3		3		3		3		3	
1/4	17	1/4	154	1/4	330	1/4	494	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	158	1/2	334	1/2	497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	21	3/4	161	3/4	338	3/4	499	3/4		3/4		3/4		3/4		3/4		3/4	
4	22	4	165	4	342	4	502	4		4		4		4		4		4	
1/4	25	1/4	168	1/4	345	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	172	1/2	349	1/2	508	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	175	3/4	353	3/4	510	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	179	5	356	5	513	5		5		5		5		5		5	
1/4	34	1/4	182	1/4	360	1/4	516	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	186	1/2	364	1/2	518	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	38	3/4	190	3/4	367	3/4	521	3/4		3/4		3/4		3/4		3/4		3/4	
6	41	6	193	6	371	6	523	6		6		6		6		6		6	
1/4	43	1/4	197	1/4	374	1/4	526	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	200	1/2	378	1/2	528	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48	3/4	204	3/4	382	3/4	530	3/4		3/4		3/4		3/4		3/4		3/4	
7	51	7	208	7	385	7	533	7		7		7		7		7		7	
1/4	54	1/4	211	1/4	389	1/4	535	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	215	1/2	392	1/2	537	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	59	3/4	219	3/4	396	3/4	539	3/4		3/4		3/4		3/4		3/4		3/4	
8	62	8	222	8	399	8	542	8		8		8		8		8		8	
1/4	65	1/4	226	1/4	403	1/4	544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67	1/2	230	1/2	406	1/2	545	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	234	3/4	410	3/4	547	3/4		3/4		3/4		3/4		3/4		3/4	
9	73	9	237	9	413	9	549	9		9		9		9		9		9	
1/4	76	1/4	241	1/4	417	1/4	551	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	79	1/2	245	1/2	420	1/2	553	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	82	3/4	248	3/4	424	3/4	554	3/4		3/4		3/4		3/4		3/4		3/4	
10	85	10	252	10	427	10	556	10		10		10		10		10		10	
1/4	88	1/4	256	1/4	431	1/4	557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	91	1/2	260	1/2	434	1/2	559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	94	3/4	263	3/4	437	3/4	560	3/4		3/4		3/4		3/4		3/4		3/4	
11	97	11	267	11	441	11	561	11		11		11		11		11		11	
1/4	101	1/4	271	1/4	444	1/4	562	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	275	1/2	447	1/2	563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	107	3/4	278	3/4	450	3/4	563	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.

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PRECISION MEASUREMENT
& ANALYSIS, INC.
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<http://www.pmacorp.net>



BARGE "KIRBY 28048"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. 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	1,107	0	2,213	0		0		0		0		0		0		0	
1/4	23	1/4	1,130	1/4	2,236	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	1,153	1/2	2,259	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	69	3/4	1,176	3/4	2,282	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	92	1	1,199	1	2,305	1		1		1		1		1		1		1	
1/4	115	1/4	1,222	1/4	2,328	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,245	1/2	2,351	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,268	3/4	2,374	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	184	2	1,291	2	2,398	2		2		2		2		2		2		2	
1/4	207	1/4	1,314	1/4	2,421	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	231	1/2	1,337	1/2	2,444	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	1,360	3/4	2,467	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	277	3	1,383	3	2,490	3		3		3		3		3		3		3	
1/4	300	1/4	1,406	1/4	2,513	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	323	1/2	1,429	1/2	2,536	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	346	3/4	1,452	3/4	2,559	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	369	4	1,475	4	2,582	4		4		4		4		4		4		4	
1/4	392	1/4	1,498	1/4	2,605	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,521	1/2	2,628	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	438	3/4	1,545	3/4	2,651	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	461	5	1,568	5	2,674	5		5		5		5		5		5		5	
1/4	484	1/4	1,591	1/4	2,697	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	507	1/2	1,614	1/2	2,720	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	530	3/4	1,637	3/4	2,743	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	553	6	1,660	6	2,766	6		6		6		6		6		6		6	
1/4	576	1/4	1,683	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	599	1/2	1,706	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	622	3/4	1,729	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	645	7	1,752	7		7		7		7		7		7		7		7	
1/4	669	1/4	1,775	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	692	1/2	1,798	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	715	3/4	1,821	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	738	8	1,844	8		8		8		8		8		8		8		8	
1/4	761	1/4	1,867	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	784	1/2	1,890	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	807	3/4	1,913	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	830	9	1,936	9		9		9		9		9		9		9		9	
1/4	853	1/4	1,960	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	876	1/2	1,983	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	899	3/4	2,006	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	922	10	2,029	10		10		10		10		10		10		10		10	
1/4	945	1/4	2,052	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	968	1/2	2,075	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	991	3/4	2,098	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	1,014	11	2,121	11		11		11		11		11		11		11		11	
1/4	1,037	1/4	2,144	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,060	1/2	2,167	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,083	3/4	2,190	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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