



BARGE "KIRBY 29077"

ULLAGE TRIM TABLE

FORMERLY "HBC 310"

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 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	- 00-3/8	00-3/8
2 PORT	- 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	- 00-3/8	00-3/8
2 STBD	- 00-0/8	00-0/8	- 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
3 PORT	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

September 13, 2023

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29077"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

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
0		0		0		0	5,123.33	0	4,788.63	0	4,434.51	0	4,071.93	0	3,709.36	0	3,346.79	0	2,984.21
1/4		1/4		1/4		1/4	5,116.58	1/4	4,781.45	1/4	4,426.95	1/4	4,064.38	1/4	3,701.81	1/4	3,339.23	1/4	2,976.66
1/2		1/2		1/2		1/2	5,109.82	1/2	4,774.27	1/2	4,419.40	1/2	4,056.83	1/2	3,694.25	1/2	3,331.68	1/2	2,969.11
3/4		3/4		3/4		3/4	5,103.07	3/4	4,767.09	3/4	4,411.84	3/4	4,049.27	3/4	3,686.70	3/4	3,324.13	3/4	2,961.55
1		1		1		1	5,096.29	1	4,759.88	1	4,404.29	1	4,041.72	1	3,679.15	1	3,316.57	1	2,954.00
1/4		1/4		1/4		1/4	5,089.51	1/4	4,752.66	1/4	4,396.74	1/4	4,034.16	1/4	3,671.59	1/4	3,309.02	1/4	2,946.45
1/2		1/2		1/2		1/2	5,082.72	1/2	4,745.45	1/2	4,389.18	1/2	4,026.61	1/2	3,664.04	1/2	3,301.47	1/2	2,938.89
3/4		3/4		3/4		3/4	5,075.94	3/4	4,738.24	3/4	4,381.63	3/4	4,019.06	3/4	3,656.48	3/4	3,293.91	3/4	2,931.34
2		2		2		2	5,069.13	2	4,730.97	2	4,374.08	2	4,011.50	2	3,648.93	2	3,286.36	2	2,923.79
1/4		1/4		1/4		1/4	5,062.31	1/4	4,723.70	1/4	4,366.52	1/4	4,003.95	1/4	3,641.38	1/4	3,278.80	1/4	2,916.23
1/2		1/2		1/2		1/2	5,055.50	1/2	4,716.43	1/2	4,358.97	1/2	3,996.40	1/2	3,633.82	1/2	3,271.25	1/2	2,908.68
3/4		3/4		3/4		3/4	5,048.69	3/4	4,709.16	3/4	4,351.42	3/4	3,988.84	3/4	3,626.27	3/4	3,263.70	3/4	2,901.12
3		3		3		3	5,041.84	3	4,701.86	3	4,343.86	3	3,981.29	3	3,618.72	3	3,256.14	3	2,893.57
1/4		1/4		1/4		1/4	5,035.00	1/4	4,694.56	1/4	4,336.31	1/4	3,973.74	1/4	3,611.16	1/4	3,248.59	1/4	2,886.02
1/2		1/2		1/2		1/2	5,028.16	1/2	4,687.26	1/2	4,328.76	1/2	3,966.18	1/2	3,603.61	1/2	3,241.04	1/2	2,878.46
3/4		3/4		3/4		3/4	5,021.32	3/4	4,679.96	3/4	4,321.20	3/4	3,958.63	3/4	3,596.06	3/4	3,233.48	3/4	2,870.91
4		4		4		4	5,014.37	4	4,672.64	4	4,313.65	4	3,951.08	4	3,588.50	4	3,225.93	4	2,863.36
1/4		1/4		1/4		1/4	5,007.43	1/4	4,665.31	1/4	4,306.09	1/4	3,943.52	1/4	3,580.95	1/4	3,218.38	1/4	2,855.80
1/2		1/2		1/2		1/2	5,000.48	1/2	4,657.98	1/2	4,298.54	1/2	3,935.97	1/2	3,573.40	1/2	3,210.82	1/2	2,848.25
3/4		3/4		3/4		3/4	4,993.54	3/4	4,650.65	3/4	4,290.99	3/4	3,928.41	3/4	3,565.84	3/4	3,203.27	3/4	2,840.70
5		5		5		5	4,986.57	5	4,643.29	5	4,283.43	5	3,920.86	5	3,558.29	5	3,195.72	5	2,833.14
1/4		1/4		1/4		1/4	4,979.59	1/4	4,635.93	1/4	4,275.88	1/4	3,913.31	1/4	3,550.73	1/4	3,188.16	1/4	2,825.59
1/2		1/2		1/2		1/2	4,972.62	1/2	4,628.57	1/2	4,268.33	1/2	3,905.75	1/2	3,543.18	1/2	3,180.61	1/2	2,818.04
3/4		3/4		3/4		3/4	4,965.64	3/4	4,621.21	3/4	4,260.77	3/4	3,898.20	3/4	3,535.63	3/4	3,173.05	3/4	2,810.48
6		6		6		6	4,958.64	6	4,613.82	6	4,253.22	6	3,890.65	6	3,528.07	6	3,165.50	6	2,802.93
1/4		1/4		1/4		1/4	4,951.64	1/4	4,606.43	1/4	4,245.67	1/4	3,883.09	1/4	3,520.52	1/4	3,157.95	1/4	2,795.37
1/2		1/2		1/2		1/2	4,944.64	1/2	4,599.04	1/2	4,238.11	1/2	3,875.54	1/2	3,512.97	1/2	3,150.39	1/2	2,787.82
3/4		3/4		3/4		3/4	5,247.29	3/4	4,937.64	3/4	4,591.65	3/4	4,230.56	3/4	3,867.99	3/4	3,505.41	3/4	3,142.84
7		7		7		7	5,242.96	7	4,930.60	7	4,584.23	7	4,223.00	7	3,860.43	7	3,497.86	7	3,135.29
1/4		1/4		1/4		1/4	5,238.62	1/4	4,923.57	1/4	4,576.81	1/4	4,215.45	1/4	3,852.88	1/4	3,490.31	1/4	3,127.73
1/2		1/2		1/2		1/2	5,234.29	1/2	4,916.54	1/2	4,569.39	1/2	4,207.90	1/2	3,845.32	1/2	3,482.75	1/2	3,120.18
3/4		3/4		3/4		3/4	5,229.95	3/4	4,909.51	3/4	4,561.97	3/4	4,200.34	3/4	3,837.77	3/4	3,475.20	3/4	3,112.63
8		8		8		8	5,224.38	8	4,902.45	8	4,554.53	8	4,192.79	8	3,830.22	8	3,467.64	8	3,105.07
1/4		1/4		1/4		1/4	5,218.82	1/4	4,895.39	1/4	4,547.08	1/4	4,185.24	1/4	3,822.66	1/4	3,460.09	1/4	3,097.52
1/2		1/2		1/2		1/2	5,213.25	1/2	4,888.33	1/2	4,539.63	1/2	4,177.68	1/2	3,815.11	1/2	3,452.54	1/2	3,089.96
3/4		3/4		3/4		3/4	5,207.69	3/4	4,881.26	3/4	4,532.18	3/4	4,170.13	3/4	3,807.56	3/4	3,444.98	3/4	3,082.41
9		9		9		9	5,201.66	9	4,874.17	9	4,524.70	9	4,162.58	9	3,800.00	9	3,437.43	9	3,074.86
1/4		1/4		1/4		1/4	5,195.62	1/4	4,867.08	1/4	4,517.22	1/4	4,155.02	1/4	3,792.45	1/4	3,429.88	1/4	3,067.30
1/2		1/2		1/2		1/2	5,189.59	1/2	4,859.99	1/2	4,509.74	1/2	4,147.47	1/2	3,784.90	1/2	3,422.32	1/2	3,059.75
3/4		3/4		3/4		3/4	5,183.56	3/4	4,852.90	3/4	4,502.26	3/4	4,139.92	3/4	3,777.34	3/4	3,414.77	3/4	3,052.20
10		10		10		10	5,176.90	10	4,845.78	10	4,494.75	10	4,132.36	10	3,769.79	10	3,407.22	10	3,044.64
1/4		1/4		1/4		1/4	5,170.25	1/4	4,838.66	1/4	4,487.24	1/4	4,124.81	1/4	3,762.24	1/4	3,399.66	1/4	3,037.09
1/2		1/2		1/2		1/2	5,163.59	1/2	4,831.54	1/2	4,479.74	1/2	4,117.25	1/2	3,754.68	1/2	3,392.11	1/2	3,029.54
3/4		3/4		3/4		3/4	5,156.93	3/4	4,824.41	3/4	4,472.23	3/4	4,109.70	3/4	3,747.13	3/4	3,384.56	3/4	3,021.98
11		11		11		11	5,150.22	11	4,817.26	11	4,464.69	11	4,102.15	11	3,739.57	11	3,377.00	11	3,014.43
1/4		1/4		1/4		1/4	5,143.51	1/4	4,810.11	1/4	4,457.14	1/4	4,094.59	1/4	3,732.02	1/4	3,369.45	1/4	3,006.88
1/2		1/2		1/2		1/2	5,136.79	1/2	4,802.96	1/2	4,449.60	1/2	4,087.04	1/2	3,724.47	1/2	3,361.89	1/2	2,999.32
3/4		3/4		3/4		3/4	5,130.08	3/4	4,795.81	3/4	4,442.06	3/4	4,079.49	3/4	3,716.91	3/4	3,354.34	3/4	2,991.77

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29077"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,621.64	0	2,258.93	0	1,896.22	0	1,533.52	0	1,170.92	0	808.60	0	445.90	0	84.03	0		0	
1/4	2,614.08	1/4	2,251.38	1/4	1,888.67	1/4	1,525.96	1/4	1,163.38	1/4	801.04	1/4	438.35	1/4	77.11	1/4		1/4	
1/2	2,606.53	1/2	2,243.82	1/2	1,881.11	1/2	1,518.40	1/2	1,155.83	1/2	793.48	1/2	430.79	1/2	70.18	1/2		1/2	
3/4	2,598.97	3/4	2,236.26	3/4	1,873.56	3/4	1,510.85	3/4	1,148.29	3/4	785.93	3/4	423.23	3/4	63.26	3/4		3/4	
1	2,591.41	1	2,228.71	1	1,866.00	1	1,503.29	1	1,140.74	1	778.37	1	415.68	1	57.59	1		1	
1/4	2,583.86	1/4	2,221.15	1/4	1,858.44	1/4	1,495.74	1/4	1,133.20	1/4	770.82	1/4	408.12	1/4	51.93	1/4		1/4	
1/2	2,576.30	1/2	2,213.59	1/2	1,850.89	1/2	1,488.18	1/2	1,125.65	1/2	763.26	1/2	400.57	1/2	46.26	1/2		1/2	
3/4	2,568.74	3/4	2,206.04	3/4	1,843.33	3/4	1,480.62	3/4	1,118.11	3/4	755.70	3/4	393.01	3/4	40.59	3/4		3/4	
2	2,561.19	2	2,198.48	2	1,835.77	2	1,473.07	2	1,110.57	2	748.15	2	385.45	2	36.19	2		2	
1/4	2,553.63	1/4	2,190.92	1/4	1,828.22	1/4	1,465.51	1/4	1,103.02	1/4	740.59	1/4	377.90	1/4	31.78	1/4		1/4	
1/2	2,546.07	1/2	2,183.37	1/2	1,820.66	1/2	1,457.95	1/2	1,095.48	1/2	733.03	1/2	370.34	1/2	27.37	1/2		1/2	
3/4	2,538.52	3/4	2,175.81	3/4	1,813.10	3/4	1,450.40	3/4	1,087.93	3/4	725.48	3/4	362.79	3/4	22.97	3/4		3/4	
3	2,530.96	3	2,168.25	3	1,805.55	3	1,442.84	3	1,080.39	3	717.92	3	355.23	3		3		3	
1/4	2,523.41	1/4	2,160.70	1/4	1,797.99	1/4	1,435.28	1/4	1,072.85	1/4	710.37	1/4	347.67	1/4		1/4		1/4	
1/2	2,515.85	1/2	2,153.14	1/2	1,790.43	1/2	1,427.73	1/2	1,065.30	1/2	702.81	1/2	340.12	1/2		1/2		1/2	
3/4	2,508.29	3/4	2,145.59	3/4	1,782.88	3/4	1,420.17	3/4	1,057.76	3/4	695.25	3/4	332.56	3/4		3/4		3/4	
4	2,500.74	4	2,138.03	4	1,775.32	4	1,412.61	4	1,050.21	4	687.70	4	325.01	4		4		4	
1/4	2,493.18	1/4	2,130.47	1/4	1,767.77	1/4	1,405.06	1/4	1,042.67	1/4	680.14	1/4	317.45	1/4		1/4		1/4	
1/2	2,485.62	1/2	2,122.92	1/2	1,760.21	1/2	1,397.50	1/2	1,035.12	1/2	672.59	1/2	309.89	1/2		1/2		1/2	
3/4	2,478.07	3/4	2,115.36	3/4	1,752.65	3/4	1,389.95	3/4	1,027.58	3/4	665.03	3/4	302.34	3/4		3/4		3/4	
5	2,470.51	5	2,107.80	5	1,745.10	5	1,382.39	5	1,020.04	5	657.47	5	294.78	5		5		5	
1/4	2,462.95	1/4	2,100.25	1/4	1,737.54	1/4	1,374.83	1/4	1,012.49	1/4	649.92	1/4	287.22	1/4		1/4		1/4	
1/2	2,455.40	1/2	2,092.69	1/2	1,729.98	1/2	1,367.28	1/2	1,004.95	1/2	642.36	1/2	279.67	1/2		1/2		1/2	
3/4	2,447.84	3/4	2,085.13	3/4	1,722.43	3/4	1,359.72	3/4	997.40	3/4	634.81	3/4	272.11	3/4		3/4		3/4	
6	2,440.29	6	2,077.58	6	1,714.87	6	1,352.16	6	989.86	6	627.25	6	264.56	6		6		6	
1/4	2,432.73	1/4	2,070.02	1/4	1,707.31	1/4	1,344.61	1/4	982.31	1/4	619.69	1/4	257.00	1/4		1/4		1/4	
1/2	2,425.17	1/2	2,062.47	1/2	1,699.76	1/2	1,337.05	1/2	974.77	1/2	612.14	1/2	249.44	1/2		1/2		1/2	
3/4	2,417.62	3/4	2,054.91	3/4	1,692.20	3/4	1,329.49	3/4	967.23	3/4	604.58	3/4	241.89	3/4		3/4		3/4	
7	2,410.06	7	2,047.35	7	1,684.65	7	1,321.94	7	959.68	7	597.03	7	234.33	7		7		7	
1/4	2,402.50	1/4	2,039.80	1/4	1,677.09	1/4	1,314.38	1/4	952.14	1/4	589.47	1/4	226.78	1/4		1/4		1/4	
1/2	2,394.95	1/2	2,032.24	1/2	1,669.53	1/2	1,306.83	1/2	944.59	1/2	581.91	1/2	219.22	1/2		1/2		1/2	
3/4	2,387.39	3/4	2,024.68	3/4	1,661.98	3/4	1,299.27	3/4	937.05	3/4	574.36	3/4	211.66	3/4		3/4		3/4	
8	2,379.83	8	2,017.13	8	1,654.42	8	1,291.71	8	929.49	8	566.80	8	204.11	8		8		8	
1/4	2,372.28	1/4	2,009.57	1/4	1,646.86	1/4	1,284.16	1/4	921.94	1/4	559.24	1/4	196.55	1/4		1/4		1/4	
1/2	2,364.72	1/2	2,002.01	1/2	1,639.31	1/2	1,276.60	1/2	914.38	1/2	551.69	1/2	189.00	1/2		1/2		1/2	
3/4	2,357.16	3/4	1,994.46	3/4	1,631.75	3/4	1,269.04	3/4	906.83	3/4	544.13	3/4	181.44	3/4		3/4		3/4	
9	2,349.61	9	1,986.90	9	1,624.19	9	1,261.49	9	899.27	9	536.58	9	173.88	9		9		9	
1/4	2,342.05	1/4	1,979.34	1/4	1,616.64	1/4	1,253.93	1/4	891.71	1/4	529.02	1/4	166.33	1/4		1/4		1/4	
1/2	2,334.50	1/2	1,971.79	1/2	1,609.08	1/2	1,246.37	1/2	884.16	1/2	521.46	1/2	158.77	1/2		1/2		1/2	
3/4	2,326.94	3/4	1,964.23	3/4	1,601.52	3/4	1,238.82	3/4	876.60	3/4	513.91	3/4	151.22	3/4		3/4		3/4	
10	2,319.38	10	1,956.68	10	1,593.97	10	1,231.27	10	869.04	10	506.35	10	143.67	10		10		10	
1/4	2,311.83	1/4	1,949.12	1/4	1,586.41	1/4	1,223.73	1/4	861.49	1/4	498.80	1/4	136.13	1/4		1/4		1/4	
1/2	2,304.27	1/2	1,941.56	1/2	1,578.86	1/2	1,216.18	1/2	853.93	1/2	491.24	1/2	128.58	1/2		1/2		1/2	
3/4	2,296.71	3/4	1,934.01	3/4	1,571.30	3/4	1,208.64	3/4	846.38	3/4	483.68	3/4	121.04	3/4		3/4		3/4	
11	2,289.16	11	1,926.45	11	1,563.74	11	1,201.10	11	838.82	11	476.13	11	113.52	11		11		11	
1/4	2,281.60	1/4	1,918.89	1/4	1,556.19	1/4	1,193.55	1/4	831.26	1/4	468.57	1/4	106.00	1/4		1/4		1/4	
1/2	2,274.04	1/2	1,911.34	1/2	1,548.63	1/2	1,186.01	1/2	823.71	1/2	461.02	1/2	98.48	1/2		1/2		1/2	
3/4	2,266.49	3/4	1,903.78	3/4	1,541.07	3/4	1,178.46	3/4	816.15	3/4	453.46	3/4	90.96	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29077"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-03 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		
0		0		0		0	5,134.89	0	4,801.06	0	4,447.70	0	4,085.14	0	3,722.57	0	3,360.00	0	2,997.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,128.18	1/4	4,793.91	1/4	4,440.16	1/4	4,077.59	1/4	3,715.02	1/4	3,352.44	1/4	2,989.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,121.43	1/2	4,786.73	1/2	4,432.61	1/2	4,070.04	1/2	3,707.46	1/2	3,344.89	1/2	2,982.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,114.68	3/4	4,779.55	3/4	4,425.06	3/4	4,062.48	3/4	3,699.91	3/4	3,337.34	3/4	2,974.76		
1		1		1		1	5,107.93	1	4,772.37	1	4,417.50	1	4,054.93	1	3,692.36	1	3,329.78	1	2,967.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,101.17	1/4	4,765.19	1/4	4,409.95	1/4	4,047.38	1/4	3,684.80	1/4	3,322.23	1/4	2,959.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,094.39	1/2	4,757.98	1/2	4,402.39	1/2	4,039.82	1/2	3,677.25	1/2	3,314.68	1/2	2,952.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.61	3/4	4,750.77	3/4	4,394.84	3/4	4,032.27	3/4	3,669.70	3/4	3,307.12	3/4	2,944.55		
2		2		2		2	5,080.82	2	4,743.56	2	4,387.29	2	4,024.71	2	3,662.14	2	3,299.57	2	2,937.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,074.04	1/4	4,736.35	1/4	4,379.73	1/4	4,017.16	1/4	3,654.59	1/4	3,292.02	1/4	2,929.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,067.23	1/2	4,729.08	1/2	4,372.18	1/2	4,009.61	1/2	3,647.03	1/2	3,284.46	1/2	2,921.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.42	3/4	4,721.81	3/4	4,364.63	3/4	4,002.05	3/4	3,639.48	3/4	3,276.91	3/4	2,914.34		
3		3		3		3	5,053.60	3	4,714.54	3	4,357.07	3	3,994.50	3	3,631.93	3	3,269.35	3	2,906.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,046.79	1/4	4,707.27	1/4	4,349.52	1/4	3,986.95	1/4	3,624.37	1/4	3,261.80	1/4	2,899.23		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,039.95	1/2	4,699.97	1/2	4,341.97	1/2	3,979.39	1/2	3,616.82	1/2	3,254.25	1/2	2,891.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,033.11	3/4	4,692.67	3/4	4,334.41	3/4	3,971.84	3/4	3,609.27	3/4	3,246.69	3/4	2,884.12		
4		4		4		4	5,026.26	4	4,685.37	4	4,326.86	4	3,964.29	4	3,601.71	4	3,239.14	4	2,876.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,019.42	1/4	4,678.07	1/4	4,319.30	1/4	3,956.73	1/4	3,594.16	1/4	3,231.59	1/4	2,869.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,012.48	1/2	4,670.74	1/2	4,311.75	1/2	3,949.18	1/2	3,586.61	1/2	3,224.03	1/2	2,861.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,005.53	3/4	4,663.41	3/4	4,304.20	3/4	3,941.62	3/4	3,579.05	3/4	3,216.48	3/4	2,853.91		
5		5		5		5	4,998.59	5	4,656.08	5	4,296.64	5	3,934.07	5	3,571.50	5	3,208.93	5	2,846.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,991.64	1/4	4,648.75	1/4	4,289.09	1/4	3,926.52	1/4	3,563.94	1/4	3,201.37	1/4	2,838.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,984.67	1/2	4,641.39	1/2	4,281.54	1/2	3,918.96	1/2	3,556.39	1/2	3,193.82	1/2	2,831.25		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,977.69	3/4	4,634.03	3/4	4,273.98	3/4	3,911.41	3/4	3,548.84	3/4	3,186.26	3/4	2,823.69		
6		6		6		6	4,970.72	6	4,626.67	6	4,266.43	6	3,903.86	6	3,541.28	6	3,178.71	6	2,816.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,963.75	1/4	4,619.31	1/4	4,258.88	1/4	3,896.30	1/4	3,533.73	1/4	3,171.16	1/4	2,808.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,956.74	1/2	4,611.92	1/2	4,251.32	1/2	3,888.75	1/2	3,526.18	1/2	3,163.60	1/2	2,801.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,949.74	3/4	4,604.53	3/4	4,243.77	3/4	3,881.20	3/4	3,518.62	3/4	3,156.05	3/4	2,793.48		
7		7		7		7	4,942.74	7	4,597.14	7	4,236.22	7	3,873.64	7	3,511.07	7	3,148.50	7	2,785.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,245.39	1/4	4,935.74	1/4	4,589.76	1/4	4,228.66	1/4	3,866.09	1/4	3,503.52	1/4	3,140.94	1/4	2,778.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,241.06	1/2	4,928.71	1/2	4,582.34	1/2	4,221.11	1/2	3,858.54	1/2	3,495.96	1/2	3,133.39	1/2	2,770.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,236.72	3/4	4,921.68	3/4	4,574.92	3/4	4,213.55	3/4	3,850.98	3/4	3,488.41	3/4	3,125.84	3/4	2,763.26
8		8		8		8	5,232.39	8	4,914.64	8	4,567.50	8	4,206.00	8	3,843.43	8	3,480.86	8	3,118.28	8	2,755.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,228.05	1/4	4,907.61	1/4	4,560.08	1/4	4,198.45	1/4	3,835.87	1/4	3,473.30	1/4	3,110.73	1/4	2,748.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,222.49	1/2	4,900.55	1/2	4,552.63	1/2	4,190.89	1/2	3,828.32	1/2	3,465.75	1/2	3,103.18	1/2	2,740.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,216.92	3/4	4,893.49	3/4	4,545.18	3/4	4,183.34	3/4	3,820.77	3/4	3,458.19	3/4	3,095.62	3/4	2,733.05
9		9		9		9	5,211.35	9	4,886.43	9	4,537.73	9	4,175.79	9	3,813.21	9	3,450.64	9	3,088.07	9	2,725.50
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,205.79	1/4	4,879.37	1/4	4,530.28	1/4	4,168.23	1/4	3,805.66	1/4	3,443.09	1/4	3,080.51	1/4	2,717.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,199.76	1/2	4,872.28	1/2	4,522.80	1/2	4,160.68	1/2	3,798.11	1/2	3,435.53	1/2	3,072.96	1/2	2,710.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,193.73	3/4	4,865.18	3/4	4,515.32	3/4	4,153.13	3/4	3,790.55	3/4	3,427.98	3/4	3,065.41	3/4	2,702.83
10		10		10		10	5,187.69	10	4,858.09	10	4,507.85	10	4,145.57	10	3,783.00	10	3,420.43	10	3,057.85	10	2,695.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,181.66	1/4	4,851.00	1/4	4,500.37	1/4	4,138.02	1/4	3,775.45	1/4	3,412.87	1/4	3,050.30	1/4	2,687.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,175.00	1/2	4,843.88	1/2	4,492.86	1/2	4,130.46	1/2	3,767.89	1/2	3,405.32	1/2	3,042.75	1/2	2,680.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,168.35	3/4	4,836.76	3/4	4,485.35	3/4	4,122.91	3/4	3,760.34	3/4	3,397.77	3/4	3,035.19	3/4	2,672.62
11		11		11		11	5,161.69	11	4,829.64	11	4,477.84	11	4,115.36	11	3,752.78	11	3,390.21	11	3,027.64	11	2,665.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,155.03	1/4	4,822.52	1/4	4,470.33	1/4	4,107.80	1/4	3,745.23	1/4	3,382.66	1/4	3,020.09	1/4	2,657.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,148.32	1/2	4,815.37	1/2	4,462.79	1/2	4,100.25	1/2	3,737.68	1/2	3,375.10	1/2	3,012.53	1/2	2,649.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,141.61	3/4	4,808.22	3/4	4,455.25	3/4	4,092.70	3/4	3,730.12	3/4	3,367.55	3/4	3,004.98	3/4	2,642.41

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29077"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-03 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	2,634.85	0	2,272.15	0	1,909.44	0	1,546.73	0	1,184.55	0	823.71	0	461.02	0	98.48	0		0	
1/4	2,627.30	1/4	2,264.59	1/4	1,901.88	1/4	1,539.18	1/4	1,177.04	1/4	816.15	1/4	453.46	1/4	90.96	1/4		1/4	
1/2	2,619.74	1/2	2,257.03	1/2	1,894.33	1/2	1,531.62	1/2	1,169.54	1/2	808.60	1/2	445.91	1/2	84.03	1/2		1/2	
3/4	2,612.19	3/4	2,249.48	3/4	1,886.77	3/4	1,524.06	3/4	1,162.03	3/4	801.04	3/4	438.35	3/4	77.11	3/4		3/4	
1	2,604.63	1	2,241.92	1	1,879.21	1	1,516.51	1	1,154.53	1	793.49	1	430.79	1	70.19	1		1	
1/4	2,597.07	1/4	2,234.37	1/4	1,871.66	1/4	1,508.95	1/4	1,147.02	1/4	785.93	1/4	423.24	1/4	63.26	1/4		1/4	
1/2	2,589.52	1/2	2,226.81	1/2	1,864.10	1/2	1,501.39	1/2	1,139.52	1/2	778.37	1/2	415.68	1/2	57.59	1/2		1/2	
3/4	2,581.96	3/4	2,219.25	3/4	1,856.55	3/4	1,493.84	3/4	1,132.02	3/4	770.82	3/4	408.12	3/4	51.93	3/4		3/4	
2	2,574.40	2	2,211.70	2	1,848.99	2	1,486.28	2	1,124.51	2	763.26	2	400.57	2	46.26	2		2	
1/4	2,566.85	1/4	2,204.14	1/4	1,841.43	1/4	1,478.73	1/4	1,117.01	1/4	755.71	1/4	393.01	1/4	40.60	1/4		1/4	
1/2	2,559.29	1/2	2,196.58	1/2	1,833.88	1/2	1,471.17	1/2	1,109.50	1/2	748.15	1/2	385.46	1/2	36.19	1/2		1/2	
3/4	2,551.73	3/4	2,189.03	3/4	1,826.32	3/4	1,463.61	3/4	1,102.00	3/4	740.59	3/4	377.90	3/4	31.78	3/4		3/4	
3	2,544.18	3	2,181.47	3	1,818.76	3	1,456.06	3	1,094.49	3	733.04	3	370.34	3	27.38	3		3	
1/4	2,536.62	1/4	2,173.91	1/4	1,811.21	1/4	1,448.50	1/4	1,086.99	1/4	725.48	1/4	362.79	1/4	22.97	1/4		1/4	
1/2	2,529.07	1/2	2,166.36	1/2	1,803.65	1/2	1,440.94	1/2	1,079.48	1/2	717.93	1/2	355.23	1/2		1/2		1/2	
3/4	2,521.51	3/4	2,158.80	3/4	1,796.09	3/4	1,433.39	3/4	1,071.98	3/4	710.37	3/4	347.68	3/4		3/4		3/4	
4	2,513.95	4	2,151.25	4	1,788.54	4	1,425.83	4	1,064.47	4	702.81	4	340.12	4		4		4	
1/4	2,506.40	1/4	2,143.69	1/4	1,780.98	1/4	1,418.27	1/4	1,056.97	1/4	695.26	1/4	332.56	1/4		1/4		1/4	
1/2	2,498.84	1/2	2,136.13	1/2	1,773.43	1/2	1,410.72	1/2	1,049.46	1/2	687.70	1/2	325.01	1/2		1/2		1/2	
3/4	2,491.28	3/4	2,128.58	3/4	1,765.87	3/4	1,403.16	3/4	1,041.96	3/4	680.14	3/4	317.45	3/4		3/4		3/4	
5	2,483.73	5	2,121.02	5	1,758.31	5	1,395.61	5	1,034.46	5	672.59	5	309.90	5		5		5	
1/4	2,476.17	1/4	2,113.46	1/4	1,750.76	1/4	1,388.05	1/4	1,026.95	1/4	665.03	1/4	302.34	1/4		1/4		1/4	
1/2	2,468.61	1/2	2,105.91	1/2	1,743.20	1/2	1,380.49	1/2	1,019.45	1/2	657.48	1/2	294.78	1/2		1/2		1/2	
3/4	2,461.06	3/4	2,098.35	3/4	1,735.64	3/4	1,372.94	3/4	1,011.94	3/4	649.92	3/4	287.23	3/4		3/4		3/4	
6	2,453.50	6	2,090.79	6	1,728.09	6	1,365.38	6	1,004.44	6	642.36	6	279.67	6		6		6	
1/4	2,445.94	1/4	2,083.24	1/4	1,720.53	1/4	1,357.82	1/4	996.93	1/4	634.81	1/4	272.12	1/4		1/4		1/4	
1/2	2,438.39	1/2	2,075.68	1/2	1,712.97	1/2	1,350.27	1/2	989.43	1/2	627.25	1/2	264.56	1/2		1/2		1/2	
3/4	2,430.83	3/4	2,068.12	3/4	1,705.42	3/4	1,342.71	3/4	981.92	3/4	619.70	3/4	257.00	3/4		3/4		3/4	
7	2,423.28	7	2,060.57	7	1,697.86	7	1,335.15	7	974.42	7	612.14	7	249.45	7		7		7	
1/4	2,415.72	1/4	2,053.01	1/4	1,690.30	1/4	1,327.60	1/4	966.91	1/4	604.58	1/4	241.89	1/4		1/4		1/4	
1/2	2,408.16	1/2	2,045.46	1/2	1,682.75	1/2	1,320.04	1/2	959.41	1/2	597.03	1/2	234.33	1/2		1/2		1/2	
3/4	2,400.61	3/4	2,037.90	3/4	1,675.19	3/4	1,312.48	3/4	951.90	3/4	589.47	3/4	226.78	3/4		3/4		3/4	
8	2,393.05	8	2,030.34	8	1,667.64	8	1,304.93	8	944.40	8	581.92	8	219.22	8		8		8	
1/4	2,385.49	1/4	2,022.79	1/4	1,660.08	1/4	1,297.37	1/4	936.90	1/4	574.36	1/4	211.67	1/4		1/4		1/4	
1/2	2,377.94	1/2	2,015.23	1/2	1,652.52	1/2	1,289.82	1/2	929.38	1/2	566.80	1/2	204.11	1/2		1/2		1/2	
3/4	2,370.38	3/4	2,007.67	3/4	1,644.97	3/4	1,282.26	3/4	921.86	3/4	559.25	3/4	196.55	3/4		3/4		3/4	
9	2,362.82	9	2,000.12	9	1,637.41	9	1,274.70	9	914.34	9	551.69	9	189.00	9		9		9	
1/4	2,355.27	1/4	1,992.56	1/4	1,629.85	1/4	1,267.15	1/4	906.83	1/4	544.13	1/4	181.44	1/4		1/4		1/4	
1/2	2,347.71	1/2	1,985.00	1/2	1,622.30	1/2	1,259.63	1/2	899.27	1/2	536.58	1/2	173.89	1/2		1/2		1/2	
3/4	2,340.16	3/4	1,977.45	3/4	1,614.74	3/4	1,252.11	3/4	891.72	3/4	529.02	3/4	166.33	3/4		3/4		3/4	
10	2,332.60	10	1,969.89	10	1,607.18	10	1,244.60	10	884.16	10	521.47	10	158.78	10		10		10	
1/4	2,325.04	1/4	1,962.34	1/4	1,599.63	1/4	1,237.08	1/4	876.60	1/4	513.91	1/4	151.22	1/4		1/4		1/4	
1/2	2,317.49	1/2	1,954.78	1/2	1,592.07	1/2	1,229.57	1/2	869.05	1/2	506.35	1/2	143.68	1/2		1/2		1/2	
3/4	2,309.93	3/4	1,947.22	3/4	1,584.52	3/4	1,222.07	3/4	861.49	3/4	498.80	3/4	136.13	3/4		3/4		3/4	
11	2,302.37	11	1,939.67	11	1,576.96	11	1,214.57	11	853.93	11	491.24	11	128.59	11		11		11	
1/4	2,294.82	1/4	1,932.11	1/4	1,569.40	1/4	1,207.06	1/4	846.38	1/4	483.69	1/4	121.04	1/4		1/4		1/4	
1/2	2,287.26	1/2	1,924.55	1/2	1,561.85	1/2	1,199.56	1/2	838.82	1/2	476.13	1/2	113.52	1/2		1/2		1/2	
3/4	2,279.70	3/4	1,917.00	3/4	1,554.29	3/4	1,192.05	3/4	831.27	3/4	468.57	3/4	106.00	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29077"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

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		
0		0		0		0	5,107.38	0	4,773.71	0	4,420.68	0	4,059.24	0	3,697.79	0	3,336.35	0	2,974.90		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,100.65	1/4	4,766.55	1/4	4,413.15	1/4	4,051.71	1/4	3,690.26	1/4	3,328.82	1/4	2,967.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,093.92	1/2	4,759.39	1/2	4,405.62	1/2	4,044.18	1/2	3,682.73	1/2	3,321.29	1/2	2,959.84		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,087.19	3/4	4,752.23	3/4	4,398.09	3/4	4,036.65	3/4	3,675.20	3/4	3,313.76	3/4	2,952.31		
1		1		1		1	5,080.42	1	4,745.04	1	4,390.56	1	4,029.12	1	3,667.67	1	3,306.23	1	2,944.78		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,073.66	1/4	4,737.85	1/4	4,383.03	1/4	4,021.59	1/4	3,660.14	1/4	3,298.70	1/4	2,937.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,066.90	1/2	4,730.67	1/2	4,375.50	1/2	4,014.06	1/2	3,652.61	1/2	3,291.17	1/2	2,929.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,060.14	3/4	4,723.48	3/4	4,367.97	3/4	4,006.53	3/4	3,645.08	3/4	3,283.64	3/4	2,922.19		
2		2		2		2	5,053.35	2	4,716.23	2	4,360.44	2	3,999.00	2	3,637.55	2	3,276.11	2	2,914.66		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,046.55	1/4	4,708.98	1/4	4,352.91	1/4	3,991.47	1/4	3,630.02	1/4	3,268.58	1/4	2,907.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,039.76	1/2	4,701.73	1/2	4,345.38	1/2	3,983.94	1/2	3,622.49	1/2	3,261.05	1/2	2,899.60		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,032.97	3/4	4,694.49	3/4	4,337.85	3/4	3,976.41	3/4	3,614.96	3/4	3,253.52	3/4	2,892.07		
3		3		3		3	5,026.15	3	4,687.21	3	4,330.32	3	3,968.88	3	3,607.43	3	3,245.99	3	2,884.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,019.33	1/4	4,679.93	1/4	4,322.79	1/4	3,961.35	1/4	3,599.90	1/4	3,238.46	1/4	2,877.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,012.50	1/2	4,672.66	1/2	4,315.26	1/2	3,953.82	1/2	3,592.37	1/2	3,230.93	1/2	2,869.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,005.68	3/4	4,665.38	3/4	4,307.73	3/4	3,946.29	3/4	3,584.84	3/4	3,223.40	3/4	2,861.95		
4		4		4		4	4,998.76	4	4,658.07	4	4,300.20	4	3,938.76	4	3,577.31	4	3,215.87	4	2,854.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,991.84	1/4	4,650.76	1/4	4,292.67	1/4	3,931.23	1/4	3,569.78	1/4	3,208.34	1/4	2,846.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,984.91	1/2	4,643.46	1/2	4,285.14	1/2	3,923.70	1/2	3,562.25	1/2	3,200.81	1/2	2,839.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,977.99	3/4	4,636.15	3/4	4,277.61	3/4	3,916.17	3/4	3,554.72	3/4	3,193.28	3/4	2,831.83		
5		5		5		5	4,971.04	5	4,628.81	5	4,270.08	5	3,908.64	5	3,547.19	5	3,185.75	5	2,824.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,964.08	1/4	4,621.48	1/4	4,262.55	1/4	3,901.11	1/4	3,539.66	1/4	3,178.22	1/4	2,816.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,957.13	1/2	4,614.14	1/2	4,255.02	1/2	3,893.58	1/2	3,532.13	1/2	3,170.69	1/2	2,809.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,950.18	3/4	4,606.80	3/4	4,247.49	3/4	3,886.05	3/4	3,524.60	3/4	3,163.16	3/4	2,801.71		
6		6		6		6	4,943.20	6	4,599.44	6	4,239.96	6	3,878.52	6	3,517.07	6	3,155.63	6	2,794.18		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,936.22	1/4	4,592.07	1/4	4,232.43	1/4	3,870.99	1/4	3,509.54	1/4	3,148.10	1/4	2,786.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,929.24	1/2	4,584.70	1/2	4,224.90	1/2	3,863.46	1/2	3,502.01	1/2	3,140.57	1/2	2,779.12		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,230.96	3/4	4,922.26	3/4	4,577.34	3/4	3,855.93	3/4	3,494.48	3/4	3,133.04	3/4	2,771.59		
7		7		7		7	5,226.64	7	4,915.25	7	4,569.94	7	4,209.84	7	3,848.40	7	3,486.95	7	3,125.51	7	2,764.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,222.32	1/4	4,908.24	1/4	4,562.55	1/4	4,202.31	1/4	3,840.87	1/4	3,479.42	1/4	3,117.98	1/4	2,756.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,218.00	1/2	4,901.23	1/2	4,555.15	1/2	4,194.78	1/2	3,833.34	1/2	3,471.89	1/2	3,110.45	1/2	2,749.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,213.68	3/4	4,894.22	3/4	4,547.75	3/4	4,187.25	3/4	3,825.81	3/4	3,464.36	3/4	3,102.92	3/4	2,741.47
8		8		8		8	5,208.13	8	4,887.18	8	4,540.33	8	4,179.72	8	3,818.28	8	3,456.83	8	3,095.39	8	2,733.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,202.58	1/4	4,880.14	1/4	4,532.90	1/4	4,172.19	1/4	3,810.75	1/4	3,449.30	1/4	3,087.86	1/4	2,726.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,197.03	1/2	4,873.10	1/2	4,525.48	1/2	4,164.66	1/2	3,803.21	1/2	3,441.77	1/2	3,080.33	1/2	2,718.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,191.48	3/4	4,866.06	3/4	4,518.05	3/4	4,157.13	3/4	3,795.68	3/4	3,434.24	3/4	3,072.80	3/4	2,711.35
9		9		9		9	5,185.47	9	4,858.99	9	4,510.59	9	4,149.60	9	3,788.15	9	3,426.71	9	3,065.27	9	2,703.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,179.46	1/4	4,851.92	1/4	4,503.14	1/4	4,142.07	1/4	3,780.62	1/4	3,419.18	1/4	3,057.74	1/4	2,696.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,173.44	1/2	4,844.85	1/2	4,495.68	1/2	4,134.54	1/2	3,773.09	1/2	3,411.65	1/2	3,050.20	1/2	2,688.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,167.43	3/4	4,837.78	3/4	4,488.23	3/4	4,127.01	3/4	3,765.56	3/4	3,404.12	3/4	3,042.67	3/4	2,681.23
10		10		10		10	5,160.79	10	4,830.68	10	4,480.74	10	4,119.48	10	3,758.03	10	3,396.59	10	3,035.14	10	2,673.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,154.16	1/4	4,823.58	1/4	4,473.26	1/4	4,111.95	1/4	3,750.50	1/4	3,389.06	1/4	3,027.61	1/4	2,666.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,147.52	1/2	4,816.48	1/2	4,465.77	1/2	4,104.42	1/2	3,742.97	1/2	3,381.53	1/2	3,020.08	1/2	2,658.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,140.88	3/4	4,809.38	3/4	4,458.28	3/4	4,096.89	3/4	3,735.44	3/4	3,374.00	3/4	3,012.55	3/4	2,651.11
11		11		11		11	5,134.19	11	4,802.25	11	4,450.77	11	4,089.36	11	3,727.91	11	3,366.47	11	3,005.02	11	2,643.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,127.50	1/4	4,795.12	1/4	4,443.25	1/4	4,081.83	1/4	3,720.38	1/4	3,358.94	1/4	2,997.49	1/4	2,636.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,120.80	1/2	4,788.00	1/2	4,435.73	1/2	4,074.30	1/2	3,712.85	1/2	3,351.41	1/2	2,989.96	1/2	2,628.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,114.11	3/4	4,780.87	3/4	4,428.21	3/4	4,066.77	3/4	3,705.32	3/4	3,343.88	3/4	2,982.43	3/4	2,620.99

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29077"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,613.46	0	2,251.88	0	1,890.31	0	1,528.73	0	1,167.27	0	806.08	0	444.52	0	83.77	0		0	
1/4	2,605.92	1/4	2,244.35	1/4	1,882.77	1/4	1,521.20	1/4	1,159.75	1/4	798.55	1/4	436.98	1/4	76.87	1/4		1/4	
1/2	2,598.39	1/2	2,236.82	1/2	1,875.24	1/2	1,513.67	1/2	1,152.23	1/2	791.01	1/2	429.45	1/2	69.96	1/2		1/2	
3/4	2,590.86	3/4	2,229.28	3/4	1,867.71	3/4	1,506.13	3/4	1,144.71	3/4	783.48	3/4	421.92	3/4	63.06	3/4		3/4	
1	2,583.33	1	2,221.75	1	1,860.18	1	1,498.60	1	1,137.19	1	775.95	1	414.38	1	57.41	1		1	
1/4	2,575.79	1/4	2,214.22	1/4	1,852.64	1/4	1,491.07	1/4	1,129.67	1/4	768.42	1/4	406.85	1/4	51.76	1/4		1/4	
1/2	2,568.26	1/2	2,206.69	1/2	1,845.11	1/2	1,483.54	1/2	1,122.15	1/2	760.88	1/2	399.32	1/2	46.12	1/2		1/2	
3/4	2,560.73	3/4	2,199.15	3/4	1,837.58	3/4	1,476.00	3/4	1,114.63	3/4	753.35	3/4	391.79	3/4	40.47	3/4		3/4	
2	2,553.19	2	2,191.62	2	1,830.05	2	1,468.47	2	1,107.11	2	745.82	2	384.25	2	36.07	2		2	
1/4	2,545.66	1/4	2,184.09	1/4	1,822.51	1/4	1,460.94	1/4	1,099.59	1/4	738.29	1/4	376.72	1/4	31.68	1/4		1/4	
1/2	2,538.13	1/2	2,176.55	1/2	1,814.98	1/2	1,453.41	1/2	1,092.06	1/2	730.75	1/2	369.19	1/2	27.29	1/2		1/2	
3/4	2,530.60	3/4	2,169.02	3/4	1,807.45	3/4	1,445.87	3/4	1,084.54	3/4	723.22	3/4	361.66	3/4	22.90	3/4		3/4	
3	2,523.06	3	2,161.49	3	1,799.91	3	1,438.34	3	1,077.02	3	715.69	3	354.12	3		3		3	
1/4	2,515.53	1/4	2,153.96	1/4	1,792.38	1/4	1,430.81	1/4	1,069.50	1/4	708.16	1/4	346.59	1/4		1/4		1/4	
1/2	2,508.00	1/2	2,146.42	1/2	1,784.85	1/2	1,423.27	1/2	1,061.98	1/2	700.62	1/2	339.06	1/2		1/2		1/2	
3/4	2,500.46	3/4	2,138.89	3/4	1,777.32	3/4	1,415.74	3/4	1,054.46	3/4	693.09	3/4	331.53	3/4		3/4		3/4	
4	2,492.93	4	2,131.36	4	1,769.78	4	1,408.21	4	1,046.94	4	685.56	4	323.99	4		4		4	
1/4	2,485.40	1/4	2,123.82	1/4	1,762.25	1/4	1,400.68	1/4	1,039.42	1/4	678.03	1/4	316.46	1/4		1/4		1/4	
1/2	2,477.87	1/2	2,116.29	1/2	1,754.72	1/2	1,393.14	1/2	1,031.90	1/2	670.49	1/2	308.93	1/2		1/2		1/2	
3/4	2,470.33	3/4	2,108.76	3/4	1,747.18	3/4	1,385.61	3/4	1,024.38	3/4	662.96	3/4	301.40	3/4		3/4		3/4	
5	2,462.80	5	2,101.23	5	1,739.65	5	1,378.08	5	1,016.86	5	655.43	5	293.86	5		5		5	
1/4	2,455.27	1/4	2,093.69	1/4	1,732.12	1/4	1,370.54	1/4	1,009.34	1/4	647.90	1/4	286.33	1/4		1/4		1/4	
1/2	2,447.73	1/2	2,086.16	1/2	1,724.59	1/2	1,363.01	1/2	1,001.82	1/2	640.36	1/2	278.80	1/2		1/2		1/2	
3/4	2,440.20	3/4	2,078.63	3/4	1,717.05	3/4	1,355.48	3/4	994.30	3/4	632.83	3/4	271.27	3/4		3/4		3/4	
6	2,432.67	6	2,071.09	6	1,709.52	6	1,347.95	6	986.78	6	625.30	6	263.73	6		6		6	
1/4	2,425.14	1/4	2,063.56	1/4	1,701.99	1/4	1,340.41	1/4	979.26	1/4	617.76	1/4	256.20	1/4		1/4		1/4	
1/2	2,417.60	1/2	2,056.03	1/2	1,694.45	1/2	1,332.88	1/2	971.74	1/2	610.23	1/2	248.67	1/2		1/2		1/2	
3/4	2,410.07	3/4	2,048.50	3/4	1,686.92	3/4	1,325.35	3/4	964.22	3/4	602.70	3/4	241.13	3/4		3/4		3/4	
7	2,402.54	7	2,040.96	7	1,679.39	7	1,317.81	7	956.70	7	595.17	7	233.60	7		7		7	
1/4	2,395.01	1/4	2,033.43	1/4	1,671.86	1/4	1,310.28	1/4	949.18	1/4	587.63	1/4	226.07	1/4		1/4		1/4	
1/2	2,387.47	1/2	2,025.90	1/2	1,664.32	1/2	1,302.75	1/2	941.65	1/2	580.10	1/2	218.54	1/2		1/2		1/2	
3/4	2,379.94	3/4	2,018.37	3/4	1,656.79	3/4	1,295.22	3/4	934.13	3/4	572.57	3/4	211.00	3/4		3/4		3/4	
8	2,372.41	8	2,010.83	8	1,649.26	8	1,287.68	8	926.60	8	565.04	8	203.47	8		8		8	
1/4	2,364.87	1/4	2,003.30	1/4	1,641.73	1/4	1,280.15	1/4	919.07	1/4	557.50	1/4	195.94	1/4		1/4		1/4	
1/2	2,357.34	1/2	1,995.77	1/2	1,634.19	1/2	1,272.62	1/2	911.54	1/2	549.97	1/2	188.41	1/2		1/2		1/2	
3/4	2,349.81	3/4	1,988.23	3/4	1,626.66	3/4	1,265.09	3/4	904.00	3/4	542.44	3/4	180.87	3/4		3/4		3/4	
9	2,342.28	9	1,980.70	9	1,619.13	9	1,257.55	9	896.47	9	534.91	9	173.34	9		9		9	
1/4	2,334.74	1/4	1,973.17	1/4	1,611.59	1/4	1,250.02	1/4	888.94	1/4	527.37	1/4	165.81	1/4		1/4		1/4	
1/2	2,327.21	1/2	1,965.64	1/2	1,604.06	1/2	1,242.49	1/2	881.41	1/2	519.84	1/2	158.28	1/2		1/2		1/2	
3/4	2,319.68	3/4	1,958.10	3/4	1,596.53	3/4	1,234.95	3/4	873.87	3/4	512.31	3/4	150.75	3/4		3/4		3/4	
10	2,312.14	10	1,950.57	10	1,589.00	10	1,227.43	10	866.34	10	504.78	10	143.23	10		10		10	
1/4	2,304.61	1/4	1,943.04	1/4	1,581.46	1/4	1,219.91	1/4	858.81	1/4	497.24	1/4	135.70	1/4		1/4		1/4	
1/2	2,297.08	1/2	1,935.50	1/2	1,573.93	1/2	1,212.39	1/2	851.28	1/2	489.71	1/2	128.18	1/2		1/2		1/2	
3/4	2,289.55	3/4	1,927.97	3/4	1,566.40	3/4	1,204.87	3/4	843.74	3/4	482.18	3/4	120.66	3/4		3/4		3/4	
11	2,282.01	11	1,920.44	11	1,558.86	11	1,197.35	11	836.21	11	474.65	11	113.16	11		11		11	
1/4	2,274.48	1/4	1,912.91	1/4	1,551.33	1/4	1,189.83	1/4	828.68	1/4	467.11	1/4	105.67	1/4		1/4		1/4	
1/2	2,266.95	1/2	1,905.37	1/2	1,543.80	1/2	1,182.31	1/2	821.15	1/2	459.58	1/2	98.17	1/2		1/2		1/2	
3/4	2,259.41	3/4	1,897.84	3/4	1,536.27	3/4	1,174.79	3/4	813.61	3/4	452.05	3/4	90.67	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

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



BARGE "KIRBY 29077"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-03"

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	5,097.61	0	4,764.41	0	4,411.82	0	4,050.41	0	3,689.01	0	3,327.61	0	2,966.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,090.88	1/4	4,757.25	1/4	4,404.29	1/4	4,042.88	1/4	3,681.48	1/4	3,320.08	1/4	2,958.68
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,084.15	1/2	4,750.09	1/2	4,396.76	1/2	4,035.36	1/2	3,673.95	1/2	3,312.55	1/2	2,951.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,077.42	3/4	4,742.93	3/4	4,389.23	3/4	4,027.83	3/4	3,666.42	3/4	3,305.02	3/4	2,943.62
1		1		1		1	5,070.69	1	4,735.77	1	4,381.70	1	4,020.30	1	3,658.90	1	3,297.49	1	2,936.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,063.93	1/4	4,728.59	1/4	4,374.17	1/4	4,012.77	1/4	3,651.37	1/4	3,289.96	1/4	2,928.56
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,057.17	1/2	4,721.40	1/2	4,366.64	1/2	4,005.24	1/2	3,643.84	1/2	3,282.44	1/2	2,921.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,050.41	3/4	4,714.21	3/4	4,359.11	3/4	3,997.71	3/4	3,636.31	3/4	3,274.91	3/4	2,913.50
2		2		2		2	5,043.65	2	4,707.02	2	4,351.58	2	3,990.18	2	3,628.78	2	3,267.38	2	2,905.98
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,036.85	1/4	4,699.78	1/4	4,344.05	1/4	3,982.65	1/4	3,621.25	1/4	3,259.85	1/4	2,898.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,030.06	1/2	4,692.53	1/2	4,336.52	1/2	3,975.12	1/2	3,613.72	1/2	3,252.32	1/2	2,890.92
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,023.27	3/4	4,685.28	3/4	4,328.99	3/4	3,967.59	3/4	3,606.19	3/4	3,244.79	3/4	2,883.39
3		3		3		3	5,016.48	3	4,678.04	3	4,321.46	3	3,960.06	3	3,598.66	3	3,237.26	3	2,875.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,009.66	1/4	4,670.76	1/4	4,313.94	1/4	3,952.53	1/4	3,591.13	1/4	3,229.73	1/4	2,868.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,002.84	1/2	4,663.48	1/2	4,306.41	1/2	3,945.00	1/2	3,583.60	1/2	3,222.20	1/2	2,860.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,996.02	3/4	4,656.21	3/4	4,298.88	3/4	3,937.48	3/4	3,576.07	3/4	3,214.67	3/4	2,853.27
4		4		4		4	4,989.20	4	4,648.93	4	4,291.35	4	3,929.95	4	3,568.54	4	3,207.14	4	2,845.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,982.27	1/4	4,641.63	1/4	4,283.82	1/4	3,922.42	1/4	3,561.02	1/4	3,199.61	1/4	2,838.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,975.35	1/2	4,634.32	1/2	4,276.29	1/2	3,914.89	1/2	3,553.49	1/2	3,192.08	1/2	2,830.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.43	3/4	4,627.01	3/4	4,268.76	3/4	3,907.36	3/4	3,545.96	3/4	3,184.56	3/4	2,823.15
5		5		5		5	4,961.51	5	4,619.71	5	4,261.23	5	3,899.83	5	3,538.43	5	3,177.03	5	2,815.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,954.55	1/4	4,612.37	1/4	4,253.70	1/4	3,892.30	1/4	3,530.90	1/4	3,169.50	1/4	2,808.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,947.60	1/2	4,605.04	1/2	4,246.17	1/2	3,884.77	1/2	3,523.37	1/2	3,161.97	1/2	2,800.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,940.65	3/4	4,597.70	3/4	4,238.64	3/4	3,877.24	3/4	3,515.84	3/4	3,154.44	3/4	2,793.04
6		6		6		6	4,933.70	6	4,590.36	6	4,231.11	6	3,869.71	6	3,508.31	6	3,146.91	6	2,785.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,926.72	1/4	4,583.00	1/4	4,223.59	1/4	3,862.18	1/4	3,500.78	1/4	3,139.38	1/4	2,777.98
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,919.74	1/2	4,575.63	1/2	4,216.06	1/2	3,854.65	1/2	3,493.25	1/2	3,131.85	1/2	2,770.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,912.76	3/4	4,568.27	3/4	4,208.53	3/4	3,847.13	3/4	3,485.72	3/4	3,124.32	3/4	2,762.92
7		7	5,214.45	7	4,905.78	7	4,560.90	7	4,201.00	7	3,839.60	7	3,478.19	7	3,116.79	7	2,755.39		
1/4	1/4	1/4	5,210.13	1/4	4,898.77	1/4	4,553.51	1/4	4,193.47	1/4	3,832.07	1/4	3,470.67	1/4	3,109.26	1/4	2,747.86		
1/2	1/2	1/2	5,205.81	1/2	4,891.76	1/2	4,546.11	1/2	4,185.94	1/2	3,824.54	1/2	3,463.14	1/2	3,101.73	1/2	2,740.33		
3/4	3/4	3/4	5,201.49	3/4	4,884.75	3/4	4,538.72	3/4	4,178.41	3/4	3,817.01	3/4	3,455.61	3/4	3,094.21	3/4	2,732.80		
8		8	5,197.17	8	4,877.74	8	4,531.32	8	4,170.88	8	3,809.48	8	3,448.08	8	3,086.68	8	2,725.27		
1/4	1/4	1/4	5,191.62	1/4	4,870.70	1/4	4,523.90	1/4	4,163.35	1/4	3,801.95	1/4	3,440.55	1/4	3,079.15	1/4	2,717.75		
1/2	1/2	1/2	5,186.07	1/2	4,863.67	1/2	4,516.47	1/2	4,155.82	1/2	3,794.42	1/2	3,433.02	1/2	3,071.62	1/2	2,710.22		
3/4	3/4	3/4	5,180.53	3/4	4,856.63	3/4	4,509.05	3/4	4,148.29	3/4	3,786.89	3/4	3,425.49	3/4	3,064.09	3/4	2,702.69		
9		9	5,174.98	9	4,849.59	9	4,501.62	9	4,140.76	9	3,779.36	9	3,417.96	9	3,056.56	9	2,695.16		
1/4	1/4	1/4	5,168.97	1/4	4,842.52	1/4	4,494.17	1/4	4,133.23	1/4	3,771.83	1/4	3,410.43	1/4	3,049.03	1/4	2,687.63		
1/2	1/2	1/2	5,162.95	1/2	4,835.45	1/2	4,486.71	1/2	4,125.71	1/2	3,764.30	1/2	3,402.90	1/2	3,041.50	1/2	2,680.10		
3/4	3/4	3/4	5,156.94	3/4	4,828.38	3/4	4,479.26	3/4	4,118.18	3/4	3,756.77	3/4	3,395.37	3/4	3,033.97	3/4	2,672.57		
10		10	5,150.93	10	4,821.31	10	4,471.80	10	4,110.65	10	3,749.25	10	3,387.84	10	3,026.44	10	2,665.04		
1/4	1/4	1/4	5,144.29	1/4	4,814.21	1/4	4,464.32	1/4	4,103.12	1/4	3,741.72	1/4	3,380.31	1/4	3,018.91	1/4	2,657.51		
1/2	1/2	1/2	5,137.65	1/2	4,807.12	1/2	4,456.83	1/2	4,095.59	1/2	3,734.19	1/2	3,372.79	1/2	3,011.38	1/2	2,649.98		
3/4	3/4	3/4	5,131.02	3/4	4,800.02	3/4	4,449.35	3/4	4,088.06	3/4	3,726.66	3/4	3,365.26	3/4	3,003.85	3/4	2,642.45		
11		11	5,124.38	11	4,792.92	11	4,441.86	11	4,080.53	11	3,719.13	11	3,357.73	11	2,996.33	11	2,634.92		
1/4	1/4	1/4	5,117.69	1/4	4,785.79	1/4	4,434.35	1/4	4,073.00	1/4	3,711.60	1/4	3,350.20	1/4	2,988.80	1/4	2,627.39		
1/2	1/2	1/2	5,111.00	1/2	4,778.66	1/2	4,426.84	1/2	4,065.47	1/2	3,704.07	1/2	3,342.67	1/2	2,981.27	1/2	2,619.87		
3/4	3/4	3/4	5,104.31	3/4	4,771.53	3/4	4,419.33	3/4	4,057.94	3/4	3,696.54	3/4	3,335.14	3/4	2,973.74	3/4	2,612.34		

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29077"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-03"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	2,597.28	1/4	2,235.74	1/4	1,874.20	1/4	1,512.67	1/4	1,155.55	1/4	805.99	1/4	444.47	1/4	83.76	1/4		1/4	
1/2	2,589.74	1/2	2,228.21	1/2	1,866.67	1/2	1,505.14	1/2	1,148.36	1/2	798.46	1/2	436.94	1/2	76.86	1/2		1/2	
3/4	2,582.21	3/4	2,220.68	3/4	1,859.14	3/4	1,497.60	3/4	1,141.17	3/4	790.92	3/4	429.40	3/4	69.96	3/4		3/4	
1	2,574.68	1	2,213.14	1	1,851.61	1	1,490.07	1	1,133.98	1	783.39	1	421.87	1	63.06	1		1	
1/4	2,567.15	1/4	2,205.61	1/4	1,844.08	1/4	1,482.54	1/4	1,126.79	1/4	775.86	1/4	414.34	1/4	57.41	1/4		1/4	
1/2	2,559.62	1/2	2,198.08	1/2	1,836.54	1/2	1,475.01	1/2	1,119.60	1/2	768.33	1/2	406.81	1/2	51.76	1/2		1/2	
3/4	2,552.08	3/4	2,190.55	3/4	1,829.01	3/4	1,467.48	3/4	1,112.41	3/4	760.80	3/4	399.28	3/4	46.11	3/4		3/4	
2	2,544.55	2	2,183.02	2	1,821.48	2	1,459.94	2	1,105.23	2	753.27	2	391.74	2	40.47	2		2	
1/4	2,537.02	1/4	2,175.48	1/4	1,813.95	1/4	1,452.41	1/4	1,098.04	1/4	745.73	1/4	384.21	1/4	36.07	1/4		1/4	
1/2	2,529.49	1/2	2,167.95	1/2	1,806.42	1/2	1,444.88	1/2	1,090.85	1/2	738.20	1/2	376.68	1/2	31.68	1/2		1/2	
3/4	2,521.96	3/4	2,160.42	3/4	1,798.88	3/4	1,437.35	3/4	1,083.66	3/4	730.67	3/4	369.15	3/4	27.29	3/4		3/4	
3	2,514.42	3	2,152.89	3	1,791.35	3	1,429.82	3	1,076.47	3	723.14	3	361.62	3	22.89	3		3	
1/4	2,506.89	1/4	2,145.36	1/4	1,783.82	1/4	1,422.28	1/4	1,069.28	1/4	715.61	1/4	354.09	1/4		1/4		1/4	
1/2	2,499.36	1/2	2,137.82	1/2	1,776.29	1/2	1,414.75	1/2	1,062.09	1/2	708.08	1/2	346.55	1/2		1/2		1/2	
3/4	2,491.83	3/4	2,130.29	3/4	1,768.76	3/4	1,407.22	3/4	1,054.91	3/4	700.54	3/4	339.02	3/4		3/4		3/4	
4	2,484.30	4	2,122.76	4	1,761.22	4	1,399.69	4	1,047.72	4	693.01	4	331.49	4		4		4	
1/4	2,476.76	1/4	2,115.23	1/4	1,753.69	1/4	1,392.16	1/4	1,040.53	1/4	685.48	1/4	323.96	1/4		1/4		1/4	
1/2	2,469.23	1/2	2,107.70	1/2	1,746.16	1/2	1,384.62	1/2	1,033.34	1/2	677.95	1/2	316.43	1/2		1/2		1/2	
3/4	2,461.70	3/4	2,100.16	3/4	1,738.63	3/4	1,377.09	3/4	1,026.15	3/4	670.42	3/4	308.90	3/4		3/4		3/4	
5	2,454.17	5	2,092.63	5	1,731.10	5	1,369.56	5	1,018.96	5	662.89	5	301.36	5		5		5	
1/4	2,446.64	1/4	2,085.10	1/4	1,723.56	1/4	1,362.03	1/4	1,011.77	1/4	655.35	1/4	293.83	1/4		1/4		1/4	
1/2	2,439.10	1/2	2,077.57	1/2	1,716.03	1/2	1,354.50	1/2	1,004.59	1/2	647.82	1/2	286.30	1/2		1/2		1/2	
3/4	2,431.57	3/4	2,070.04	3/4	1,708.50	3/4	1,346.96	3/4	997.40	3/4	640.29	3/4	278.77	3/4		3/4		3/4	
6	2,424.04	6	2,062.50	6	1,701.97	6	1,339.43	6	990.21	6	632.76	6	271.24	6		6		6	
1/4	2,416.51	1/4	2,054.97	1/4	1,693.44	1/4	1,331.90	1/4	983.02	1/4	625.23	1/4	263.71	1/4		1/4		1/4	
1/2	2,408.98	1/2	2,047.44	1/2	1,685.90	1/2	1,324.37	1/2	975.83	1/2	617.70	1/2	256.17	1/2		1/2		1/2	
3/4	2,401.44	3/4	2,039.91	3/4	1,678.37	3/4	1,316.84	3/4	968.64	3/4	610.16	3/4	248.64	3/4		3/4		3/4	
7	2,393.91	7	2,032.38	7	1,670.84	7	1,309.30	7	961.45	7	602.63	7	241.11	7		7		7	
1/4	2,386.38	1/4	2,024.84	1/4	1,663.31	1/4	1,301.77	1/4	954.27	1/4	595.10	1/4	233.58	1/4		1/4		1/4	
1/2	2,378.85	1/2	2,017.31	1/2	1,655.78	1/2	1,294.24	1/2	947.08	1/2	587.57	1/2	226.05	1/2		1/2		1/2	
3/4	2,371.32	3/4	2,009.78	3/4	1,648.24	3/4	1,286.71	3/4	939.89	3/4	580.04	3/4	218.52	3/4		3/4		3/4	
8	2,363.78	8	2,002.25	8	1,640.71	8	1,279.18	8	932.70	8	572.51	8	210.98	8		8		8	
1/4	2,356.25	1/4	1,994.72	1/4	1,633.18	1/4	1,271.64	1/4	925.50	1/4	564.97	1/4	203.45	1/4		1/4		1/4	
1/2	2,348.72	1/2	1,987.18	1/2	1,625.65	1/2	1,264.11	1/2	918.30	1/2	557.44	1/2	195.92	1/2		1/2		1/2	
3/4	2,341.19	3/4	1,979.65	3/4	1,618.12	3/4	1,256.58	3/4	911.10	3/4	549.91	3/4	188.39	3/4		3/4		3/4	
9	2,333.66	9	1,972.12	9	1,610.58	9	1,249.05	9	903.90	9	542.38	9	180.86	9		9		9	
1/4	2,326.12	1/4	1,964.59	1/4	1,603.05	1/4	1,241.51	1/4	896.37	1/4	534.85	1/4	173.33	1/4		1/4		1/4	
1/2	2,318.59	1/2	1,957.06	1/2	1,595.52	1/2	1,234.65	1/2	888.84	1/2	527.32	1/2	165.80	1/2		1/2		1/2	
3/4	2,311.06	3/4	1,949.52	3/4	1,587.99	3/4	1,227.44	3/4	881.31	3/4	519.78	3/4	158.27	3/4		3/4		3/4	
10	2,303.53	10	1,941.99	10	1,580.46	10	1,220.24	10	873.77	10	512.25	10	150.74	10		10		10	
1/4	2,296.00	1/4	1,934.46	1/4	1,572.92	1/4	1,213.05	1/4	866.24	1/4	504.72	1/4	143.21	1/4		1/4		1/4	
1/2	2,288.46	1/2	1,926.93	1/2	1,565.39	1/2	1,205.87	1/2	858.71	1/2	497.19	1/2	135.69	1/2		1/2		1/2	
3/4	2,280.93	3/4	1,919.40	3/4	1,557.86	3/4	1,198.68	3/4	851.18	3/4	489.66	3/4	128.17	3/4		3/4		3/4	
11	2,273.40	11	1,911.86	11	1,550.33	11	1,191.49	11	843.65	11	482.13	11	120.65	11		11		11	
1/4	2,265.87	1/4	1,904.33	1/4	1,542.80	1/4	1,184.30	1/4	836.12	1/4	474.59	1/4	113.15	1/4		1/4		1/4	
1/2	2,258.34	1/2	1,896.80	1/2	1,535.26	1/2	1,177.11	1/2	828.58	1/2	467.06	1/2	105.66	1/2		1/2		1/2	
3/4	2,250.80	3/4	1,889.27	3/4	1,527.73	3/4	1,169.92	3/4	821.05	3/4	459.53	3/4	98.16	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

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



BARGE "KIRBY 29077"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

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
0		0		0		0	4,352.11	0	4,173.44	0	3,984.45	0	3,790.96	0	3,597.48	0	3,318.25	0	2,960.00
1/4		1/4		1/4		1/4	4,348.51	1/4	4,169.61	1/4	3,980.41	1/4	3,786.93	1/4	3,593.45	1/4	3,310.80	1/4	2,952.52
1/2		1/2		1/2		1/2	4,344.90	1/2	4,165.77	1/2	3,976.38	1/2	3,782.90	1/2	3,589.42	1/2	3,303.36	1/2	2,945.04
3/4		3/4		3/4		3/4	4,341.30	3/4	4,161.94	3/4	3,972.35	3/4	3,778.87	3/4	3,585.39	3/4	3,295.91	3/4	2,937.56
1		1		1		1	4,337.68	1	4,158.09	1	3,968.32	1	3,774.84	1	3,581.36	1	3,288.47	1	2,930.08
1/4		1/4		1/4		1/4	4,334.06	1/4	4,154.24	1/4	3,964.29	1/4	3,770.81	1/4	3,577.32	1/4	3,281.02	1/4	2,922.60
1/2		1/2		1/2		1/2	4,330.44	1/2	4,150.39	1/2	3,960.26	1/2	3,766.78	1/2	3,573.29	1/2	3,273.58	1/2	2,915.12
3/4		3/4		3/4		3/4	4,326.82	3/4	4,146.54	3/4	3,956.23	3/4	3,762.75	3/4	3,569.26	3/4	3,266.13	3/4	2,907.64
2		2		2		2	4,323.18	2	4,142.66	2	3,952.20	2	3,758.72	2	3,565.23	2	3,258.68	2	2,900.16
1/4		1/4		1/4		1/4	4,319.55	1/4	4,138.78	1/4	3,948.17	1/4	3,754.68	1/4	3,561.20	1/4	3,251.24	1/4	2,892.68
1/2		1/2		1/2		1/2	4,315.91	1/2	4,134.90	1/2	3,944.14	1/2	3,750.65	1/2	3,557.17	1/2	3,243.79	1/2	2,885.20
3/4		3/4		3/4		3/4	4,312.27	3/4	4,131.02	3/4	3,940.11	3/4	3,746.62	3/4	3,553.14	3/4	3,236.35	3/4	2,877.72
3		3		3		3	4,308.62	3	4,127.12	3	3,936.08	3	3,742.59	3	3,549.11	3	3,228.90	3	2,870.24
1/4		1/4		1/4		1/4	4,304.97	1/4	4,123.23	1/4	3,932.04	1/4	3,738.56	1/4	3,545.08	1/4	3,221.46	1/4	2,862.76
1/2		1/2		1/2		1/2	4,301.32	1/2	4,119.33	1/2	3,928.01	1/2	3,734.53	1/2	3,541.05	1/2	3,214.01	1/2	2,855.28
3/4		3/4		3/4		3/4	4,297.66	3/4	4,115.44	3/4	3,923.98	3/4	3,730.50	3/4	3,537.02	3/4	3,206.56	3/4	2,847.80
4		4		4		4	4,293.96	4	4,111.52	4	3,919.95	4	3,726.47	4	3,532.99	4	3,199.12	4	2,840.32
1/4		1/4		1/4		1/4	4,290.25	1/4	4,107.61	1/4	3,915.92	1/4	3,722.44	1/4	3,528.95	1/4	3,191.67	1/4	2,832.84
1/2		1/2		1/2		1/2	4,286.54	1/2	4,103.70	1/2	3,911.89	1/2	3,718.41	1/2	3,524.92	1/2	3,184.23	1/2	2,825.36
3/4		3/4		3/4		3/4	4,282.84	3/4	4,099.79	3/4	3,907.86	3/4	3,714.38	3/4	3,520.89	3/4	3,176.78	3/4	2,817.88
5		5		5		5	4,279.12	5	4,095.86	5	3,903.83	5	3,710.34	5	3,516.86	5	3,169.34	5	2,810.40
1/4		1/4		1/4		1/4	4,275.39	1/4	4,091.93	1/4	3,899.80	1/4	3,706.31	1/4	3,512.83	1/4	3,161.89	1/4	2,802.92
1/2		1/2		1/2		1/2	4,271.67	1/2	4,088.01	1/2	3,895.77	1/2	3,702.28	1/2	3,508.80	1/2	3,154.44	1/2	2,795.44
3/4		3/4		3/4		3/4	4,267.95	3/4	4,084.08	3/4	3,891.74	3/4	3,698.25	3/4	3,504.77	3/4	3,147.00	3/4	2,787.96
6		6		6		6	4,264.21	6	4,080.13	6	3,887.70	6	3,694.22	6	3,497.31	6	3,139.52	6	2,780.46
1/4		1/4		1/4		1/4	4,260.47	1/4	4,076.19	1/4	3,883.67	1/4	3,690.19	1/4	3,489.85	1/4	3,132.04	1/4	2,772.97
1/2		1/2		1/2		1/2	4,256.73	1/2	4,072.25	1/2	3,879.64	1/2	3,686.16	1/2	3,482.38	1/2	3,124.56	1/2	2,765.48
3/4		3/4		3/4	4,407.80	3/4	4,252.99	3/4	4,068.30	3/4	3,875.61	3/4	3,682.13	3/4	3,474.92	3/4	3,117.08	3/4	2,757.98
7		7		7	4,406.93	7	4,249.24	7	4,064.34	7	3,871.58	7	3,678.10	7	3,467.46	7	3,109.60	7	2,750.49
1/4		1/4		1/4	4,406.06	1/4	4,245.49	1/4	4,060.38	1/4	3,867.55	1/4	3,674.07	1/4	3,460.00	1/4	3,102.12	1/4	2,743.00
1/2		1/2		1/2	4,405.19	1/2	4,241.73	1/2	4,056.43	1/2	3,863.52	1/2	3,670.04	1/2	3,452.54	1/2	3,094.64	1/2	2,735.50
3/4		3/4		3/4	4,404.32	3/4	4,237.98	3/4	4,052.47	3/4	3,859.49	3/4	3,666.00	3/4	3,445.08	3/4	3,087.16	3/4	2,728.01
8		8		8	4,402.22	8	4,234.21	8	4,048.49	8	3,855.46	8	3,661.97	8	3,437.62	8	3,079.68	8	2,720.52
1/4		1/4		1/4	4,400.11	1/4	4,230.44	1/4	4,044.52	1/4	3,851.43	1/4	3,657.94	1/4	3,430.15	1/4	3,072.20	1/4	2,713.03
1/2		1/2		1/2	4,398.01	1/2	4,226.67	1/2	4,040.54	1/2	3,847.40	1/2	3,653.91	1/2	3,422.69	1/2	3,064.72	1/2	2,705.53
3/4		3/4		3/4	4,395.90	3/4	4,222.90	3/4	4,036.56	3/4	3,843.36	3/4	3,649.88	3/4	3,415.23	3/4	3,057.24	3/4	2,698.04
9		9		9	4,392.97	9	4,219.11	9	4,032.57	9	3,839.33	9	3,645.85	9	3,407.77	9	3,049.76	9	2,690.55
1/4		1/4		1/4	4,390.04	1/4	4,215.32	1/4	4,028.58	1/4	3,835.30	1/4	3,641.82	1/4	3,400.31	1/4	3,042.28	1/4	2,683.05
1/2		1/2		1/2	4,387.11	1/2	4,211.54	1/2	4,024.59	1/2	3,831.27	1/2	3,637.79	1/2	3,392.85	1/2	3,034.80	1/2	2,675.56
3/4		3/4		3/4	4,384.18	3/4	4,207.75	3/4	4,020.60	3/4	3,827.24	3/4	3,633.76	3/4	3,385.39	3/4	3,027.32	3/4	2,668.07
10		10		10	4,380.64	10	4,203.95	10	4,016.59	10	3,823.21	10	3,629.73	10	3,377.92	10	3,019.84	10	2,660.58
1/4		1/4		1/4	4,377.10	1/4	4,200.15	1/4	4,012.59	1/4	3,819.18	1/4	3,625.70	1/4	3,370.46	1/4	3,012.36	1/4	2,653.08
1/2		1/2		1/2	4,373.57	1/2	4,196.35	1/2	4,008.58	1/2	3,815.15	1/2	3,621.66	1/2	3,363.00	1/2	3,004.88	1/2	2,645.59
3/4		3/4		3/4	4,370.03	3/4	4,192.54	3/4	4,004.57	3/4	3,811.12	3/4	3,617.63	3/4	3,355.54	3/4	2,997.40	3/4	2,638.10
11		11		11	4,366.45	11	4,188.73	11	4,000.55	11	3,807.09	11	3,613.60	11	3,348.08	11	2,989.92	11	2,630.61
1/4		1/4		1/4	4,362.87	1/4	4,184.91	1/4	3,996.52	1/4	3,803.06	1/4	3,609.57	1/4	3,340.62	1/4	2,982.44	1/4	2,623.11
1/2		1/2		1/2	4,359.29	1/2	4,181.09	1/2	3,992.50	1/2	3,799.02	1/2	3,605.54	1/2	3,333.16	1/2	2,974.96	1/2	2,615.62
3/4		3/4		3/4	4,355.72	3/4	4,177.27	3/4	3,988.48	3/4	3,794.99	3/4	3,601.51	3/4	3,325.70	3/4	2,967.48	3/4	2,608.13

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29077"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,600.63	0	2,240.91	0	1,881.16	0	1,521.35	0	1,161.61	0	802.13	0	442.34	0	83.36	0		0	
1/4	2,593.14	1/4	2,233.42	1/4	1,873.66	1/4	1,513.86	1/4	1,154.12	1/4	794.63	1/4	434.84	1/4	76.49	1/4		1/4	
1/2	2,585.65	1/2	2,225.92	1/2	1,866.16	1/2	1,506.36	1/2	1,146.64	1/2	787.13	1/2	427.35	1/2	69.62	1/2		1/2	
3/4	2,578.15	3/4	2,218.43	3/4	1,858.67	3/4	1,498.86	3/4	1,139.15	3/4	779.64	3/4	419.85	3/4	62.76	3/4		3/4	
1	2,570.66	1	2,210.94	1	1,851.17	1	1,491.37	1	1,131.66	1	772.14	1	412.35	1	57.13	1		1	
1/4	2,563.16	1/4	2,203.44	1/4	1,843.68	1/4	1,483.87	1/4	1,124.18	1/4	764.65	1/4	404.86	1/4	51.51	1/4		1/4	
1/2	2,555.67	1/2	2,195.95	1/2	1,836.18	1/2	1,476.38	1/2	1,116.69	1/2	757.15	1/2	397.36	1/2	45.89	1/2		1/2	
3/4	2,548.18	3/4	2,188.45	3/4	1,828.68	3/4	1,468.88	3/4	1,109.20	3/4	749.66	3/4	389.87	3/4	40.27	3/4		3/4	
2	2,540.68	2	2,180.96	2	1,821.19	2	1,461.39	2	1,101.72	2	742.16	2	382.37	2	35.90	2		2	
1/4	2,533.19	1/4	2,173.47	1/4	1,813.69	1/4	1,453.89	1/4	1,094.23	1/4	734.66	1/4	374.88	1/4	31.53	1/4		1/4	
1/2	2,525.69	1/2	2,165.97	1/2	1,806.20	1/2	1,446.39	1/2	1,086.74	1/2	727.17	1/2	367.38	1/2	27.16	1/2		1/2	
3/4	2,518.20	3/4	2,158.48	3/4	1,798.70	3/4	1,438.90	3/4	1,079.26	3/4	719.67	3/4	359.88	3/4	22.79	3/4		3/4	
3	2,510.70	3	2,150.98	3	1,791.20	3	1,431.40	3	1,071.77	3	712.18	3	352.39	3		3		3	
1/4	2,503.21	1/4	2,143.49	1/4	1,783.71	1/4	1,423.91	1/4	1,064.28	1/4	704.68	1/4	344.89	1/4		1/4		1/4	
1/2	2,495.72	1/2	2,135.99	1/2	1,776.21	1/2	1,416.41	1/2	1,056.80	1/2	697.19	1/2	337.40	1/2		1/2		1/2	
3/4	2,488.22	3/4	2,128.50	3/4	1,768.72	3/4	1,408.91	3/4	1,049.31	3/4	689.69	3/4	329.90	3/4		3/4		3/4	
4	2,480.73	4	2,121.01	4	1,761.22	4	1,401.42	4	1,041.83	4	682.20	4	322.41	4		4		4	
1/4	2,473.23	1/4	2,113.51	1/4	1,753.73	1/4	1,393.92	1/4	1,034.34	1/4	674.70	1/4	314.91	1/4		1/4		1/4	
1/2	2,465.74	1/2	2,106.02	1/2	1,746.23	1/2	1,386.43	1/2	1,026.85	1/2	667.20	1/2	307.42	1/2		1/2		1/2	
3/4	2,458.24	3/4	2,098.52	3/4	1,738.73	3/4	1,378.93	3/4	1,019.37	3/4	659.71	3/4	299.92	3/4		3/4		3/4	
5	2,450.75	5	2,091.03	5	1,731.24	5	1,371.43	5	1,011.88	5	652.21	5	292.42	5		5		5	
1/4	2,443.26	1/4	2,083.53	1/4	1,723.74	1/4	1,363.94	1/4	1,004.39	1/4	644.72	1/4	284.93	1/4		1/4		1/4	
1/2	2,435.76	1/2	2,076.04	1/2	1,716.25	1/2	1,356.44	1/2	996.91	1/2	637.22	1/2	277.43	1/2		1/2		1/2	
3/4	2,428.27	3/4	2,068.55	3/4	1,708.75	3/4	1,348.95	3/4	989.42	3/4	629.73	3/4	269.94	3/4		3/4		3/4	
6	2,420.77	6	2,061.05	6	1,701.25	6	1,341.45	6	981.93	6	622.23	6	262.44	6		6		6	
1/4	2,413.28	1/4	2,053.56	1/4	1,693.76	1/4	1,333.95	1/4	974.45	1/4	614.74	1/4	254.95	1/4		1/4		1/4	
1/2	2,405.79	1/2	2,046.06	1/2	1,686.26	1/2	1,326.46	1/2	966.96	1/2	607.24	1/2	247.45	1/2		1/2		1/2	
3/4	2,398.29	3/4	2,038.57	3/4	1,678.77	3/4	1,318.96	3/4	959.47	3/4	599.74	3/4	239.96	3/4		3/4		3/4	
7	2,390.80	7	2,031.07	7	1,671.27	7	1,311.47	7	951.99	7	592.25	7	232.46	7		7		7	
1/4	2,383.30	1/4	2,023.58	1/4	1,663.77	1/4	1,303.97	1/4	944.50	1/4	584.75	1/4	224.96	1/4		1/4		1/4	
1/2	2,375.81	1/2	2,016.08	1/2	1,656.28	1/2	1,296.48	1/2	937.01	1/2	577.26	1/2	217.47	1/2		1/2		1/2	
3/4	2,368.31	3/4	2,008.59	3/4	1,648.78	3/4	1,288.98	3/4	929.53	3/4	569.76	3/4	209.97	3/4		3/4		3/4	
8	2,360.82	8	2,001.09	8	1,641.29	8	1,281.48	8	922.04	8	562.27	8	202.48	8		8		8	
1/4	2,353.33	1/4	1,993.59	1/4	1,633.79	1/4	1,273.99	1/4	914.55	1/4	554.77	1/4	194.98	1/4		1/4		1/4	
1/2	2,345.83	1/2	1,986.10	1/2	1,626.30	1/2	1,266.49	1/2	907.06	1/2	547.27	1/2	187.49	1/2		1/2		1/2	
3/4	2,338.34	3/4	1,978.60	3/4	1,618.80	3/4	1,259.00	3/4	899.57	3/4	539.78	3/4	179.99	3/4		3/4		3/4	
9	2,330.84	9	1,971.11	9	1,611.30	9	1,251.50	9	892.07	9	532.28	9	172.50	9		9		9	
1/4	2,323.35	1/4	1,963.61	1/4	1,603.81	1/4	1,244.00	1/4	884.58	1/4	524.79	1/4	165.00	1/4		1/4		1/4	
1/2	2,315.85	1/2	1,956.11	1/2	1,596.31	1/2	1,236.51	1/2	877.08	1/2	517.29	1/2	157.51	1/2		1/2		1/2	
3/4	2,308.36	3/4	1,948.62	3/4	1,588.82	3/4	1,229.01	3/4	869.59	3/4	509.80	3/4	150.01	3/4		3/4		3/4	
10	2,300.87	10	1,941.12	10	1,581.32	10	1,221.52	10	862.09	10	502.30	10	142.53	10		10		10	
1/4	2,293.37	1/4	1,933.63	1/4	1,573.82	1/4	1,214.03	1/4	854.59	1/4	494.81	1/4	135.04	1/4		1/4		1/4	
1/2	2,285.88	1/2	1,926.13	1/2	1,566.33	1/2	1,206.53	1/2	847.10	1/2	487.31	1/2	127.56	1/2		1/2		1/2	
3/4	2,278.38	3/4	1,918.64	3/4	1,558.83	3/4	1,199.04	3/4	839.60	3/4	479.81	3/4	120.07	3/4		3/4		3/4	
11	2,270.89	11	1,911.14	11	1,551.34	11	1,191.56	11	832.11	11	472.32	11	112.61	11		11		11	
1/4	2,263.40	1/4	1,903.64	1/4	1,543.84	1/4	1,184.07	1/4	824.61	1/4	464.82	1/4	105.15	1/4		1/4		1/4	
1/2	2,255.90	1/2	1,896.15	1/2	1,536.34	1/2	1,176.58	1/2	817.12	1/2	457.33	1/2	97.69	1/2		1/2		1/2	
3/4	2,248.41	3/4	1,888.65	3/4	1,528.85	3/4	1,169.10	3/4	809.62	3/4	449.83	3/4	90.23	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

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



BARGE "KIRBY 29077"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

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
0		0		0		0	4,325.07	0	4,147.05	0	3,958.70	0	3,765.87	0	3,573.03	0	3,294.44	0	2,936.95
1/4		1/4		1/4		1/4	4,321.48	1/4	4,143.23	1/4	3,954.69	1/4	3,761.85	1/4	3,569.02	1/4	3,287.01	1/4	2,929.49
1/2		1/2		1/2		1/2	4,317.89	1/2	4,139.41	1/2	3,950.67	1/2	3,757.83	1/2	3,565.00	1/2	3,279.58	1/2	2,922.03
3/4		3/4		3/4		3/4	4,314.30	3/4	4,135.59	3/4	3,946.65	3/4	3,753.82	3/4	3,560.98	3/4	3,272.15	3/4	2,914.57
1		1		1		1	4,310.69	1	4,131.75	1	3,942.63	1	3,749.80	1	3,556.96	1	3,264.71	1	2,907.11
1/4		1/4		1/4		1/4	4,307.09	1/4	4,127.92	1/4	3,938.62	1/4	3,745.78	1/4	3,552.95	1/4	3,257.28	1/4	2,899.65
1/2		1/2		1/2		1/2	4,303.48	1/2	4,124.08	1/2	3,934.60	1/2	3,741.76	1/2	3,548.93	1/2	3,249.85	1/2	2,892.19
3/4		3/4		3/4		3/4	4,299.87	3/4	4,120.24	3/4	3,930.58	3/4	3,737.75	3/4	3,544.91	3/4	3,242.42	3/4	2,884.73
2		2		2		2	4,296.25	2	4,116.38	2	3,926.57	2	3,733.73	2	3,540.89	2	3,234.98	2	2,877.27
1/4		1/4		1/4		1/4	4,292.63	1/4	4,112.51	1/4	3,922.55	1/4	3,729.71	1/4	3,536.88	1/4	3,227.55	1/4	2,869.80
1/2		1/2		1/2		1/2	4,289.00	1/2	4,108.64	1/2	3,918.53	1/2	3,725.70	1/2	3,532.86	1/2	3,220.12	1/2	2,862.33
3/4		3/4		3/4		3/4	4,285.38	3/4	4,104.78	3/4	3,914.51	3/4	3,721.68	3/4	3,528.84	3/4	3,212.68	3/4	2,854.87
3		3		3		3	4,281.74	3	4,100.89	3	3,910.50	3	3,717.66	3	3,524.83	3	3,205.25	3	2,847.40
1/4		1/4		1/4		1/4	4,278.10	1/4	4,097.01	1/4	3,906.48	1/4	3,713.64	1/4	3,520.81	1/4	3,197.82	1/4	2,839.93
1/2		1/2		1/2		1/2	4,274.46	1/2	4,093.13	1/2	3,902.46	1/2	3,709.63	1/2	3,516.79	1/2	3,190.39	1/2	2,832.46
3/4		3/4		3/4		3/4	4,270.83	3/4	4,089.25	3/4	3,898.44	3/4	3,705.61	3/4	3,512.77	3/4	3,182.95	3/4	2,825.00
4		4		4		4	4,267.13	4	4,085.35	4	3,894.43	4	3,701.59	4	3,508.76	4	3,175.52	4	2,817.53
1/4		1/4		1/4		1/4	4,263.44	1/4	4,081.45	1/4	3,890.41	1/4	3,697.57	1/4	3,504.74	1/4	3,168.09	1/4	2,810.06
1/2		1/2		1/2		1/2	4,259.75	1/2	4,077.55	1/2	3,886.39	1/2	3,693.56	1/2	3,500.72	1/2	3,160.66	1/2	2,802.60
3/4		3/4		3/4		3/4	4,256.05	3/4	4,073.65	3/4	3,882.37	3/4	3,689.54	3/4	3,496.70	3/4	3,153.22	3/4	2,795.13
5		5		5		5	4,252.34	5	4,069.74	5	3,878.36	5	3,685.52	5	3,492.69	5	3,145.79	5	2,787.66
1/4		1/4		1/4		1/4	4,248.64	1/4	4,065.83	1/4	3,874.34	1/4	3,681.50	1/4	3,488.67	1/4	3,138.36	1/4	2,780.20
1/2		1/2		1/2		1/2	4,244.93	1/2	4,061.91	1/2	3,870.32	1/2	3,677.49	1/2	3,484.65	1/2	3,130.93	1/2	2,772.73
3/4		3/4		3/4		3/4	4,241.22	3/4	4,058.00	3/4	3,866.30	3/4	3,673.47	3/4	3,480.63	3/4	3,123.49	3/4	2,765.26
6		6		6		6	4,237.49	6	4,054.07	6	3,862.29	6	3,669.45	6	3,473.19	6	3,116.03	6	2,757.78
1/4		1/4		1/4		1/4	4,233.77	1/4	4,050.14	1/4	3,858.27	1/4	3,665.43	1/4	3,465.74	1/4	3,108.56	1/4	2,750.30
1/2		1/2		1/2		1/2	4,230.04	1/2	4,046.21	1/2	3,854.25	1/2	3,661.42	1/2	3,458.29	1/2	3,101.09	1/2	2,742.82
3/4		3/4		3/4	4,380.47	3/4	4,226.32	3/4	4,042.28	3/4	3,850.23	3/4	3,657.40	3/4	3,450.84	3/4	3,093.62	3/4	2,735.34
7		7		7	4,379.61	7	4,222.58	7	4,038.33	7	3,846.22	7	3,653.38	7	3,443.39	7	3,086.16	7	2,727.86
1/4		1/4		1/4	4,378.76	1/4	4,218.84	1/4	4,034.39	1/4	3,842.20	1/4	3,649.36	1/4	3,435.94	1/4	3,078.69	1/4	2,720.38
1/2		1/2		1/2	4,377.90	1/2	4,215.10	1/2	4,030.44	1/2	3,838.18	1/2	3,645.35	1/2	3,428.50	1/2	3,071.22	1/2	2,712.90
3/4		3/4		3/4	4,377.05	3/4	4,211.36	3/4	4,026.49	3/4	3,834.17	3/4	3,641.33	3/4	3,421.05	3/4	3,063.76	3/4	2,705.42
8		8		8	4,374.96	8	4,207.60	8	4,022.53	8	3,830.15	8	3,637.31	8	3,413.60	8	3,056.30	8	2,697.94
1/4		1/4		1/4	4,372.87	1/4	4,203.84	1/4	4,018.57	1/4	3,826.13	1/4	3,633.30	1/4	3,406.15	1/4	3,048.84	1/4	2,690.46
1/2		1/2		1/2	4,370.78	1/2	4,200.09	1/2	4,014.61	1/2	3,822.11	1/2	3,629.28	1/2	3,398.70	1/2	3,041.38	1/2	2,682.98
3/4		3/4		3/4	4,368.68	3/4	4,196.33	3/4	4,010.65	3/4	3,818.10	3/4	3,625.26	3/4	3,391.26	3/4	3,033.92	3/4	2,675.50
9		9		9	4,365.77	9	4,192.56	9	4,006.67	9	3,814.08	9	3,621.24	9	3,383.81	9	3,026.46	9	2,668.02
1/4		1/4		1/4	4,362.85	1/4	4,188.78	1/4	4,002.69	1/4	3,810.06	1/4	3,617.23	1/4	3,376.36	1/4	3,019.00	1/4	2,660.54
1/2		1/2		1/2	4,359.93	1/2	4,185.01	1/2	3,998.71	1/2	3,806.04	1/2	3,613.21	1/2	3,368.91	1/2	3,011.54	1/2	2,653.06
3/4		3/4		3/4	4,357.01	3/4	4,181.24	3/4	3,994.74	3/4	3,802.03	3/4	3,609.19	3/4	3,361.46	3/4	3,004.08	3/4	2,645.58
10		10		10	4,353.49	10	4,177.45	10	3,990.74	10	3,798.01	10	3,605.17	10	3,354.01	10	2,996.62	10	2,638.10
1/4		1/4		1/4	4,349.97	1/4	4,173.66	1/4	3,986.75	1/4	3,793.99	1/4	3,601.16	1/4	3,346.57	1/4	2,989.16	1/4	2,630.63
1/2		1/2		1/2	4,346.44	1/2	4,169.87	1/2	3,982.75	1/2	3,789.97	1/2	3,597.14	1/2	3,339.12	1/2	2,981.70	1/2	2,623.15
3/4		3/4		3/4	4,342.92	3/4	4,166.08	3/4	3,978.76	3/4	3,785.96	3/4	3,593.12	3/4	3,331.67	3/4	2,974.24	3/4	2,615.67
11		11		11	4,339.35	11	4,162.28	11	3,974.75	11	3,781.94	11	3,589.10	11	3,324.22	11	2,966.79	11	2,608.19
1/4		1/4		1/4	4,335.79	1/4	4,158.48	1/4	3,970.74	1/4	3,777.92	1/4	3,585.09	1/4	3,316.77	1/4	2,959.33	1/4	2,600.71
1/2		1/2		1/2	4,332.22	1/2	4,154.67	1/2	3,966.73	1/2	3,773.90	1/2	3,581.07	1/2	3,309.33	1/2	2,951.87	1/2	2,593.23
3/4		3/4		3/4	4,328.66	3/4	4,150.87	3/4	3,962.72	3/4	3,769.89	3/4	3,577.05	3/4	3,301.88	3/4	2,944.41	3/4	2,585.75

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 GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29077"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "HBC 310"

GAUGE HEIGHT 17'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,578.27	0	2,219.18	0	1,860.05	0	1,500.87	0	1,144.85	0	801.01	0	441.74	0	83.26	0		0	
1/4	2,570.79	1/4	2,211.69	1/4	1,852.56	1/4	1,493.39	1/4	1,137.71	1/4	793.53	1/4	434.25	1/4	76.41	1/4		1/4	
1/2	2,563.31	1/2	2,204.21	1/2	1,845.08	1/2	1,485.91	1/2	1,130.56	1/2	786.04	1/2	426.77	1/2	69.56	1/2		1/2	
3/4	2,555.82	3/4	2,196.73	3/4	1,837.60	3/4	1,478.42	3/4	1,123.41	3/4	778.56	3/4	419.28	3/4	62.72	3/4		3/4	
1	2,548.34	1	2,189.25	1	1,830.12	1	1,471.00	1	1,116.26	1	771.07	1	411.80	1	57.11	1		1	
1/4	2,540.86	1/4	2,181.77	1/4	1,822.63	1/4	1,463.58	1/4	1,109.12	1/4	763.59	1/4	404.31	1/4	51.50	1/4		1/4	
1/2	2,533.38	1/2	2,174.29	1/2	1,815.15	1/2	1,456.16	1/2	1,101.97	1/2	756.10	1/2	396.83	1/2	45.88	1/2		1/2	
3/4	2,525.90	3/4	2,166.81	3/4	1,807.67	3/4	1,448.74	3/4	1,094.82	3/4	748.62	3/4	389.34	3/4	40.27	3/4		3/4	
2	2,518.42	2	2,159.33	2	1,800.18	2	1,441.32	2	1,087.67	2	741.13	2	381.86	2	35.90	2		2	
1/4	2,510.94	1/4	2,151.85	1/4	1,792.70	1/4	1,433.90	1/4	1,080.53	1/4	733.65	1/4	374.37	1/4	31.53	1/4		1/4	
1/2	2,503.46	1/2	2,144.36	1/2	1,785.22	1/2	1,426.48	1/2	1,073.38	1/2	726.16	1/2	366.89	1/2	27.16	1/2		1/2	
3/4	2,495.98	3/4	2,136.88	3/4	1,777.74	3/4	1,419.06	3/4	1,066.23	3/4	718.68	3/4	359.40	3/4	22.79	3/4		3/4	
3	2,488.49	3	2,129.40	3	1,770.25	3	1,411.63	3	1,059.08	3	711.19	3	351.92	3		3		3	
1/4	2,481.01	1/4	2,121.92	1/4	1,762.77	1/4	1,404.21	1/4	1,051.94	1/4	703.71	1/4	344.43	1/4		1/4		1/4	
1/2	2,473.53	1/2	2,114.44	1/2	1,755.29	1/2	1,396.79	1/2	1,044.79	1/2	696.22	1/2	336.95	1/2		1/2		1/2	
3/4	2,466.05	3/4	2,106.96	3/4	1,747.80	3/4	1,389.37	3/4	1,037.64	3/4	688.74	3/4	329.46	3/4		3/4		3/4	
4	2,458.57	4	2,099.48	4	1,740.32	4	1,381.95	4	1,030.49	4	681.25	4	321.98	4		4		4	
1/4	2,451.09	1/4	2,092.00	1/4	1,732.84	1/4	1,374.53	1/4	1,023.35	1/4	673.77	1/4	314.49	1/4		1/4		1/4	
1/2	2,443.61	1/2	2,084.52	1/2	1,725.36	1/2	1,367.11	1/2	1,016.20	1/2	666.28	1/2	307.01	1/2		1/2		1/2	
3/4	2,436.13	3/4	2,077.03	3/4	1,717.87	3/4	1,359.69	3/4	1,009.05	3/4	658.80	3/4	299.52	3/4		3/4		3/4	
5	2,428.65	5	2,069.55	5	1,710.39	5	1,352.27	5	1,001.90	5	651.31	5	292.04	5		5		5	
1/4	2,421.16	1/4	2,062.07	1/4	1,702.91	1/4	1,344.84	1/4	994.76	1/4	643.83	1/4	284.55	1/4		1/4		1/4	
1/2	2,413.68	1/2	2,054.59	1/2	1,695.43	1/2	1,337.42	1/2	987.61	1/2	636.34	1/2	277.07	1/2		1/2		1/2	
3/4	2,406.20	3/4	2,047.11	3/4	1,687.94	3/4	1,330.00	3/4	980.46	3/4	628.86	3/4	269.58	3/4		3/4		3/4	
6	2,398.72	6	2,039.63	6	1,680.46	6	1,322.58	6	973.31	6	621.37	6	262.10	6		6		6	
1/4	2,391.24	1/4	2,032.15	1/4	1,672.98	1/4	1,315.16	1/4	966.17	1/4	613.89	1/4	254.61	1/4		1/4		1/4	
1/2	2,383.76	1/2	2,024.67	1/2	1,665.49	1/2	1,307.74	1/2	959.02	1/2	606.40	1/2	247.13	1/2		1/2		1/2	
3/4	2,376.28	3/4	2,017.19	3/4	1,658.01	3/4	1,300.32	3/4	951.87	3/4	598.92	3/4	239.64	3/4		3/4		3/4	
7	2,368.80	7	2,009.70	7	1,650.53	7	1,292.90	7	944.73	7	591.43	7	232.16	7		7		7	
1/4	2,361.32	1/4	2,002.22	1/4	1,643.05	1/4	1,285.48	1/4	937.58	1/4	583.95	1/4	224.67	1/4		1/4		1/4	
1/2	2,353.84	1/2	1,994.74	1/2	1,635.56	1/2	1,278.05	1/2	930.43	1/2	576.46	1/2	217.19	1/2		1/2		1/2	
3/4	2,346.35	3/4	1,987.25	3/4	1,628.08	3/4	1,270.63	3/4	923.28	3/4	568.98	3/4	209.70	3/4		3/4		3/4	
8	2,338.87	8	1,979.77	8	1,620.60	8	1,263.21	8	916.13	8	561.49	8	202.22	8		8		8	
1/4	2,331.39	1/4	1,972.29	1/4	1,613.11	1/4	1,255.79	1/4	908.98	1/4	554.01	1/4	194.73	1/4		1/4		1/4	
1/2	2,323.91	1/2	1,964.81	1/2	1,605.63	1/2	1,248.37	1/2	901.83	1/2	546.52	1/2	187.25	1/2		1/2		1/2	
3/4	2,316.43	3/4	1,957.32	3/4	1,598.15	3/4	1,240.95	3/4	894.68	3/4	539.04	3/4	179.76	3/4		3/4		3/4	
9	2,308.95	9	1,949.84	9	1,590.67	9	1,233.54	9	887.51	9	531.56	9	172.28	9		9		9	
1/4	2,301.47	1/4	1,942.36	1/4	1,583.18	1/4	1,226.14	1/4	880.34	1/4	524.07	1/4	164.80	1/4		1/4		1/4	
1/2	2,293.99	1/2	1,934.87	1/2	1,575.70	1/2	1,218.73	1/2	873.16	1/2	516.59	1/2	157.31	1/2		1/2		1/2	
3/4	2,286.51	3/4	1,927.39	3/4	1,568.22	3/4	1,211.33	3/4	865.99	3/4	509.10	3/4	149.83	3/4		3/4		3/4	
10	2,279.02	10	1,919.91	10	1,560.73	10	1,203.93	10	858.82	10	501.62	10	142.35	10		10		10	
1/4	2,271.54	1/4	1,912.43	1/4	1,553.25	1/4	1,196.53	1/4	851.64	1/4	494.13	1/4	134.87	1/4		1/4		1/4	
1/2	2,264.06	1/2	1,904.94	1/2	1,545.77	1/2	1,189.12	1/2	844.47	1/2	486.65	1/2	127.39	1/2		1/2		1/2	
3/4	2,256.58	3/4	1,897.46	3/4	1,538.29	3/4	1,181.72	3/4	837.30	3/4	479.16	3/4	119.91	3/4		3/4		3/4	
11	2,249.10	11	1,889.98	11	1,530.80	11	1,174.29	11	830.10	11	471.68	11	112.46	11		11		11	
1/4	2,241.62	1/4	1,882.50	1/4	1,523.32	1/4	1,166.86	1/4	822.90	1/4	464.19	1/4	105.01	1/4		1/4		1/4	
1/2	2,234.14	1/2	1,875.01	1/2	1,515.84	1/2	1,159.43	1/2	815.70	1/2	456.71	1/2	97.56	1/2		1/2		1/2	
3/4	2,226.66	3/4	1,867.53	3/4	1,508.36	3/4	1,152.00	3/4	808.50	3/4	449.22	3/4	90.11	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/18/2013 CL
NAME CHANGE: 09/13/2023 JS
VERIFIED: 09/06/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

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



BARGE "KIRBY 29077"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HBC 310"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.
0	0	0	379	0	759	0	1,138	0	1,518	0	1,896	0	0	0	0	0	0	0	0
1/4	8	1/4	387	1/4	767	1/4	1,146	1/4	1,526	1/4	1,904	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	16	1/2	395	1/2	775	1/2	1,154	1/2	1,534	1/2	1,912	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	24	3/4	403	3/4	783	3/4	1,162	3/4	1,542	3/4	1,920	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	32	1	411	1	791	1	1,170	1	1,549	1	1,928	1	1	1	1	1	1	1	1
1/4	40	1/4	419	1/4	798	1/4	1,178	1/4	1,557	1/4	1,936	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47	1/2	427	1/2	806	1/2	1,186	1/2	1,565	1/2	1,944	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55	3/4	435	3/4	814	3/4	1,194	3/4	1,573	3/4	1,952	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	63	2	443	2	822	2	1,202	2	1,581	2	1,960	2	2	2	2	2	2	2	2
1/4	71	1/4	451	1/4	830	1/4	1,210	1/4	1,589	1/4	1,968	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79	1/2	459	1/2	838	1/2	1,217	1/2	1,597	1/2	1,976	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	87	3/4	466	3/4	846	3/4	1,225	3/4	1,605	3/4	1,984	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	95	3	474	3	854	3	1,233	3	1,613	3	1,992	3	3	3	3	3	3	3	3
1/4	103	1/4	482	1/4	862	1/4	1,241	1/4	1,621	1/4	1,999	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	111	1/2	490	1/2	870	1/2	1,249	1/2	1,629	1/2	2,007	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	119	3/4	498	3/4	878	3/4	1,257	3/4	1,636	3/4	2,015	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	126	4	506	4	885	4	1,265	4	1,644	4	2,023	4	4	4	4	4	4	4	4
1/4	134	1/4	514	1/4	893	1/4	1,273	1/4	1,652	1/4	2,031	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	142	1/2	522	1/2	901	1/2	1,281	1/2	1,660	1/2	2,039	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150	3/4	530	3/4	909	3/4	1,289	3/4	1,668	3/4	2,047	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	158	5	538	5	917	5	1,296	5	1,676	5	2,055	5	5	5	5	5	5	5	5
1/4	166	1/4	545	1/4	925	1/4	1,304	1/4	1,684	1/4	2,063	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	174	1/2	553	1/2	933	1/2	1,312	1/2	1,692	1/2	2,071	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	182	3/4	561	3/4	941	3/4	1,320	3/4	1,700	3/4	2,079	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	190	6	569	6	949	6	1,328	6	1,708	6	2,087	6	6	6	6	6	6	6	6
1/4	198	1/4	577	1/4	957	1/4	1,336	1/4	1,715	1/4	2,095	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	206	1/2	585	1/2	964	1/2	1,344	1/2	1,723	1/2	2,103	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	213	3/4	593	3/4	972	3/4	1,352	3/4	1,731	3/4	2,111	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	221	7	601	7	980	7	1,360	7	1,739	7	2,119	7	7	7	7	7	7	7	7
1/4	229	1/4	609	1/4	988	1/4	1,368	1/4	1,747	1/4	2,127	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	237	1/2	617	1/2	996	1/2	1,376	1/2	1,755	1/2	2,135	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	245	3/4	625	3/4	1,004	3/4	1,383	3/4	1,763	3/4	2,143	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	253	8	632	8	1,012	8	1,391	8	1,771	8	2,151	8	8	8	8	8	8	8	8
1/4	261	1/4	640	1/4	1,020	1/4	1,399	1/4	1,779	1/4	2,159	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	269	1/2	648	1/2	1,028	1/2	1,407	1/2	1,787	1/2	2,167	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	277	3/4	656	3/4	1,036	3/4	1,415	3/4	1,795	3/4	2,175	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	285	9	664	9	1,044	9	1,423	9	1,802	9	2,183	9	9	9	9	9	9	9	9
1/4	293	1/4	672	1/4	1,051	1/4	1,431	1/4	1,810	1/4	2,191	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	300	1/2	680	1/2	1,059	1/2	1,439	1/2	1,818	1/2	2,199	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	308	3/4	688	3/4	1,067	3/4	1,447	3/4	1,826	3/4	2,207	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	316	10	696	10	1,075	10	1,455	10	1,834	10	2,215	10	10	10	10	10	10	10	10
1/4	324	1/4	704	1/4	1,083	1/4	1,463	1/4	1,842	1/4	2,223	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	332	1/2	711	1/2	1,091	1/2	1,470	1/2	1,849	1/2	2,231	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	340	3/4	719	3/4	1,099	3/4	1,478	3/4	1,857	3/4	2,239	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	348	11	727	11	1,107	11	1,486	11	1,865	11	2,247	11	11	11	11	11	11	11	11
1/4	356	1/4	735	1/4	1,115	1/4	1,494	1/4	1,873	1/4	2,255	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	364	1/2	743	1/2	1,123	1/2	1,502	1/2	1,881	1/2	2,263	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	372	3/4	751	3/4	1,130	3/4	1,510	3/4	1,889	3/4	2,271	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

MV 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 INNAGE GAUGES.

STRAPPED: 09/06/2023 JS
CALCULATED: 09/07/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29077"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HBC 310"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.
0	0	0	950	0	1,900	0	2,848	0	3,751	0	4,589	0	0	0	0	0	0	0	0
1/4	20	1/4	970	1/4	1,920	1/4	2,867	1/4	3,769	1/4	4,606	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	40	1/2	989	1/2	1,939	1/2	2,886	1/2	3,787	1/2	4,623	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59	3/4	1,009	3/4	1,959	3/4	2,906	3/4	3,805	3/4	4,639	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	79	1	1,029	1	1,979	1	2,925	1	3,823	1	4,656	1	1	1	1	1	1	1	1
1/4	99	1/4	1,049	1/4	1,999	1/4	2,945	1/4	3,841	1/4	4,672	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	119	1/2	1,069	1/2	2,018	1/2	2,964	1/2	3,859	1/2	4,689	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	139	3/4	1,088	3/4	2,038	3/4	2,983	3/4	3,877	3/4	4,705	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	158	2	1,108	2	2,058	2	3,002	2	3,895	2	4,722	2	2	2	2	2	2	2	2
1/4	178	1/4	1,128	1/4	2,078	1/4	3,022	1/4	3,913	1/4	4,739	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	198	1/2	1,148	1/2	2,098	1/2	3,041	1/2	3,931	1/2	4,756	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	218	3/4	1,168	3/4	2,117	3/4	3,060	3/4	3,949	3/4	4,773	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	237	3	1,187	3	2,137	3	3,079	3	3,967	3	4,790	3	3	3	3	3	3	3	3
1/4	257	1/4	1,207	1/4	2,157	1/4	3,098	1/4	3,984	1/4	4,807	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	277	1/2	1,227	1/2	2,177	1/2	3,117	1/2	4,002	1/2	4,824	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	297	3/4	1,247	3/4	2,197	3/4	3,137	3/4	4,020	3/4	4,841	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	317	4	1,266	4	2,216	4	3,156	4	4,038	4	4,858	4	4	4	4	4	4	4	4
1/4	336	1/4	1,286	1/4	2,236	1/4	3,175	1/4	4,055	1/4	4,875	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	356	1/2	1,306	1/2	2,256	1/2	3,194	1/2	4,073	1/2	4,892	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	376	3/4	1,326	3/4	2,276	3/4	3,213	3/4	4,091	3/4	4,909	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	396	5	1,346	5	2,296	5	3,231	5	4,108	5	4,926	5	5	5	5	5	5	5	5
1/4	416	1/4	1,365	1/4	2,315	1/4	3,250	1/4	4,126	1/4	4,943	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	435	1/2	1,385	1/2	2,335	1/2	3,269	1/2	4,144	1/2	4,960	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	455	3/4	1,405	3/4	2,355	3/4	3,288	3/4	4,161	3/4	4,977	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	475	6	1,425	6	2,375	6	3,307	6	4,179	6	4,994	6	6	6	6	6	6	6	6
1/4	495	1/4	1,445	1/4	2,394	1/4	3,326	1/4	4,196	1/4	5,011	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	515	1/2	1,464	1/2	2,414	1/2	3,344	1/2	4,214	1/2	5,028	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	534	3/4	1,484	3/4	2,434	3/4	3,363	3/4	4,231	3/4	5,045	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	554	7	1,504	7	2,454	7	3,382	7	4,249	7	5,062	7	7	7	7	7	7	7	7
1/4	574	1/4	1,524	1/4	2,474	1/4	3,401	1/4	4,266	1/4	5,079	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	594	1/2	1,544	1/2	2,493	1/2	3,419	1/2	4,283	1/2	5,096	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	613	3/4	1,563	3/4	2,513	3/4	3,438	3/4	4,301	3/4	5,113	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	633	8	1,583	8	2,533	8	3,457	8	4,318	8	5,130	8	8	8	8	8	8	8	8
1/4	653	1/4	1,603	1/4	2,553	1/4	3,475	1/4	4,335	1/4	5,147	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	673	1/2	1,623	1/2	2,573	1/2	3,494	1/2	4,352	1/2	5,164	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	693	3/4	1,642	3/4	2,592	3/4	3,512	3/4	4,370	3/4	5,181	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	712	9	1,662	9	2,612	9	3,531	9	4,387	9	5,198	9	9	9	9	9	9	9	9
1/4	732	1/4	1,682	1/4	2,632	1/4	3,549	1/4	4,404	1/4	5,215	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	752	1/2	1,702	1/2	2,652	1/2	3,568	1/2	4,421	1/2	5,232	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	772	3/4	1,722	3/4	2,671	3/4	3,586	3/4	4,438	3/4	5,249	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	792	10	1,741	10	2,691	10	3,604	10	4,455	10	5,266	10	10	10	10	10	10	10	10
1/4	811	1/4	1,761	1/4	2,711	1/4	3,623	1/4	4,472	1/4	5,283	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	831	1/2	1,781	1/2	2,730	1/2	3,641	1/2	4,489	1/2	5,300	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	851	3/4	1,801	3/4	2,750	3/4	3,659	3/4	4,505	3/4	5,317	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	871	11	1,821	11	2,770	11	3,678	11	4,522	11	5,334	11	11	11	11	11	11	11	11
1/4	891	1/4	1,840	1/4	2,789	1/4	3,696	1/4	4,539	1/4	5,351	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	910	1/2	1,860	1/2	2,809	1/2	3,714	1/2	4,556	1/2	5,368	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	930	3/4	1,880	3/4	2,828	3/4	3,732	3/4	4,573	3/4	5,385	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

MV 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 INNAGE GAUGES.

STRAPPED: 09/06/2023 JS
CALCULATED: 09/07/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 29077"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HBC 310"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.
0	0	0	950	0	1,900	0	2,848	0	3,751	0	4,589	0	0	0	0	0	0	0	0
1/4	20	1/4	970	1/4	1,920	1/4	2,867	1/4	3,769	1/4	4,606	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	40	1/2	989	1/2	1,939	1/2	2,886	1/2	3,787	1/2	4,623	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59	3/4	1,009	3/4	1,959	3/4	2,906	3/4	3,805	3/4	4,639	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	79	1	1,029	1	1,979	1	2,925	1	3,823	1	4,656	1	1	1	1	1	1	1	1
1/4	99	1/4	1,049	1/4	1,999	1/4	2,945	1/4	3,841	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	119	1/2	1,069	1/2	2,018	1/2	2,964	1/2	3,859	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	139	3/4	1,088	3/4	2,038	3/4	2,983	3/4	3,877	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	158	2	1,108	2	2,058	2	3,002	2	3,895	2	2	2	2	2	2	2	2	2	2
1/4	178	1/4	1,128	1/4	2,078	1/4	3,022	1/4	3,913	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	198	1/2	1,148	1/2	2,098	1/2	3,041	1/2	3,931	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	218	3/4	1,168	3/4	2,117	3/4	3,060	3/4	3,949	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	237	3	1,187	3	2,137	3	3,079	3	3,967	3	3	3	3	3	3	3	3	3	3
1/4	257	1/4	1,207	1/4	2,157	1/4	3,098	1/4	3,984	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	277	1/2	1,227	1/2	2,177	1/2	3,117	1/2	4,002	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	297	3/4	1,247	3/4	2,197	3/4	3,137	3/4	4,020	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	317	4	1,266	4	2,216	4	3,156	4	4,038	4	4	4	4	4	4	4	4	4	4
1/4	336	1/4	1,286	1/4	2,236	1/4	3,175	1/4	4,055	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	356	1/2	1,306	1/2	2,256	1/2	3,194	1/2	4,073	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	376	3/4	1,326	3/4	2,276	3/4	3,213	3/4	4,091	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	396	5	1,346	5	2,296	5	3,231	5	4,108	5	5	5	5	5	5	5	5	5	5
1/4	416	1/4	1,365	1/4	2,315	1/4	3,250	1/4	4,126	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	435	1/2	1,385	1/2	2,335	1/2	3,269	1/2	4,144	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	455	3/4	1,405	3/4	2,355	3/4	3,288	3/4	4,161	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	475	6	1,425	6	2,375	6	3,307	6	4,179	6	6	6	6	6	6	6	6	6	6
1/4	495	1/4	1,445	1/4	2,394	1/4	3,326	1/4	4,196	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	515	1/2	1,464	1/2	2,414	1/2	3,344	1/2	4,214	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	534	3/4	1,484	3/4	2,434	3/4	3,363	3/4	4,231	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	554	7	1,504	7	2,454	7	3,382	7	4,249	7	7	7	7	7	7	7	7	7	7
1/4	574	1/4	1,524	1/4	2,474	1/4	3,401	1/4	4,266	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	594	1/2	1,544	1/2	2,493	1/2	3,419	1/2	4,283	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	613	3/4	1,563	3/4	2,513	3/4	3,438	3/4	4,301	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	633	8	1,583	8	2,533	8	3,457	8	4,318	8	8	8	8	8	8	8	8	8	8
1/4	653	1/4	1,603	1/4	2,553	1/4	3,475	1/4	4,335	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	673	1/2	1,623	1/2	2,573	1/2	3,494	1/2	4,352	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	693	3/4	1,642	3/4	2,592	3/4	3,512	3/4	4,370	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	712	9	1,662	9	2,612	9	3,531	9	4,387	9	9	9	9	9	9	9	9	9	9
1/4	732	1/4	1,682	1/4	2,632	1/4	3,549	1/4	4,404	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	752	1/2	1,702	1/2	2,652	1/2	3,568	1/2	4,421	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	772	3/4	1,722	3/4	2,671	3/4	3,586	3/4	4,438	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	792	10	1,741	10	2,691	10	3,604	10	4,455	10	10	10	10	10	10	10	10	10	10
1/4	811	1/4	1,761	1/4	2,711	1/4	3,623	1/4	4,472	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	831	1/2	1,781	1/2	2,730	1/2	3,641	1/2	4,489	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	851	3/4	1,801	3/4	2,750	3/4	3,659	3/4	4,505	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	871	11	1,821	11	2,770	11	3,678	11	4,522	11	11	11	11	11	11	11	11	11	11
1/4	891	1/4	1,840	1/4	2,789	1/4	3,696	1/4	4,539	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	910	1/2	1,860	1/2	2,809	1/2	3,714	1/2	4,556	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	930	3/4	1,880	3/4	2,828	3/4	3,732	3/4	4,573	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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