



# BARGE "KIRBY 29086"

ULLAGE TRIM TABLE  
FORMERLY "CTCo 314"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-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 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 236'-03"

October 13, 2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29086"

**1 PORT  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,956.81	0	4,627.97	0	4,278.36	0	3,912.64	0	3,545.84	0	3,178.51	0	2,811.07
1/4		1/4		1/4		1/4	4,949.71	1/4	4,620.90	1/4	4,270.86	1/4	3,904.99	1/4	3,538.19	1/4	3,170.86	1/4	2,803.41
1/2		1/2		1/2		1/2	4,942.60	1/2	4,613.83	1/2	4,263.35	1/2	3,897.35	1/2	3,530.55	1/2	3,163.21	1/2	2,795.75
3/4		3/4		3/4		3/4	4,935.96	3/4	4,606.73	3/4	4,255.81	3/4	3,889.71	3/4	3,522.89	3/4	3,155.55	3/4	2,788.09
1		1		1		1	4,929.31	1	4,599.63	1	4,248.26	1	3,882.07	1	3,515.24	1	3,147.90	1	2,780.44
1/4		1/4		1/4		1/4	4,922.67	1/4	4,592.53	1/4	4,240.72	1/4	3,874.43	1/4	3,507.59	1/4	3,140.25	1/4	2,772.78
1/2		1/2		1/2		1/2	4,916.03	1/2	4,585.43	1/2	4,233.17	1/2	3,866.79	1/2	3,499.93	1/2	3,132.60	1/2	2,765.12
3/4		3/4		3/4		3/4	4,909.35	3/4	4,578.29	3/4	4,225.60	3/4	3,859.15	3/4	3,492.28	3/4	3,124.94	3/4	2,757.47
2		2		2		2	4,902.68	2	4,571.16	2	4,218.02	2	3,851.51	2	3,484.63	2	3,117.29	2	2,749.81
1/4		1/4		1/4		1/4	4,896.00	1/4	4,564.02	1/4	4,210.44	1/4	3,843.86	1/4	3,476.98	1/4	3,109.64	1/4	2,742.15
1/2		1/2		1/2		1/2	4,889.32	1/2	4,556.89	1/2	4,202.86	1/2	3,836.22	1/2	3,469.32	1/2	3,101.98	1/2	2,734.50
3/4		3/4		3/4		3/4	4,882.61	3/4	4,549.72	3/4	4,195.25	3/4	3,828.58	3/4	3,461.67	3/4	3,094.33	3/4	2,726.84
3		3		3		3	4,875.90	3	4,542.55	3	4,187.64	3	3,820.94	3	3,454.02	3	3,086.68	3	2,719.18
1/4		1/4		1/4		1/4	4,869.19	1/4	4,535.38	1/4	4,180.02	1/4	3,813.30	1/4	3,446.36	1/4	3,079.02	1/4	2,711.53
1/2		1/2		1/2		1/2	4,862.48	1/2	4,528.21	1/2	4,172.41	1/2	3,805.66	1/2	3,438.71	1/2	3,071.37	1/2	2,703.87
3/4		3/4		3/4		3/4	4,855.73	3/4	4,521.01	3/4	4,164.78	3/4	3,798.02	3/4	3,431.06	3/4	3,063.72	3/4	2,696.21
4		4		4		4	4,848.98	4	4,513.81	4	4,157.14	4	3,790.37	4	3,423.41	4	3,056.07	4	2,688.55
1/4		1/4		1/4		1/4	4,842.23	1/4	4,506.60	1/4	4,149.51	1/4	3,782.73	1/4	3,415.75	1/4	3,048.41	1/4	2,680.90
1/2		1/2		1/2		1/2	4,835.48	1/2	4,499.40	1/2	4,141.87	1/2	3,775.09	1/2	3,408.10	1/2	3,040.76	1/2	2,673.24
3/4		3/4		3/4		3/4	4,828.69	3/4	4,492.16	3/4	4,134.23	3/4	3,767.45	3/4	3,400.45	3/4	3,033.11	3/4	2,665.58
5		5		5		5	4,821.91	5	4,484.93	5	4,126.59	5	3,759.81	5	3,392.79	5	3,025.45	5	2,657.93
1/4		1/4		1/4		1/4	4,815.13	1/4	4,477.69	1/4	4,118.95	1/4	3,752.17	1/4	3,385.14	1/4	3,017.80	1/4	2,650.27
1/2		1/2		1/2		1/2	4,808.34	1/2	4,470.46	1/2	4,111.31	1/2	3,744.53	1/2	3,377.49	1/2	3,010.15	1/2	2,642.61
3/4		3/4		3/4		3/4	4,801.53	3/4	4,463.18	3/4	4,103.67	3/4	3,736.89	3/4	3,369.83	3/4	3,002.49	3/4	2,634.96
6		6		6		6	4,794.71	6	4,455.91	6	4,096.03	6	3,729.24	6	3,362.18	6	2,994.83	6	2,627.30
1/4		1/4		1/4		1/4	4,787.89	1/4	4,448.63	1/4	4,088.39	1/4	3,721.60	1/4	3,354.53	1/4	2,987.17	1/4	2,619.64
1/2		1/2		1/2		1/2	4,781.07	1/2	4,441.36	1/2	4,080.74	1/2	3,713.96	1/2	3,346.88	1/2	2,979.52	1/2	2,611.99
3/4		3/4		3/4		3/4	4,774.22	3/4	4,434.04	3/4	4,073.10	3/4	3,706.32	3/4	3,339.22	3/4	2,971.86	3/4	2,604.33
7		7		7	5,102.95	7	4,767.37	7	4,426.71	7	4,065.46	7	3,698.68	7	3,331.57	7	2,964.20	7	2,596.67
1/4		1/4		1/4	5,096.89	1/4	4,760.52	1/4	4,419.39	1/4	4,057.82	1/4	3,691.04	1/4	3,323.92	1/4	2,956.55	1/4	2,589.02
1/2		1/2		1/2	5,090.84	1/2	4,753.67	1/2	4,412.07	1/2	4,050.18	1/2	3,683.40	1/2	3,316.26	1/2	2,948.89	1/2	2,581.36
3/4		3/4		3/4	5,083.64	3/4	4,746.77	3/4	4,404.70	3/4	4,042.54	3/4	3,675.76	3/4	3,308.61	3/4	2,941.23	3/4	2,573.70
8		8		8	5,076.44	8	4,739.86	8	4,397.33	8	4,034.90	8	3,668.11	8	3,300.96	8	2,933.58	8	2,566.04
1/4		1/4		1/4	5,069.23	1/4	4,732.96	1/4	4,389.96	1/4	4,027.26	1/4	3,660.47	1/4	3,293.31	1/4	2,925.92	1/4	2,558.39
1/2		1/2		1/2	5,062.03	1/2	4,726.05	1/2	4,382.60	1/2	4,019.61	1/2	3,652.83	1/2	3,285.65	1/2	2,918.26	1/2	2,550.73
3/4		3/4		3/4	5,054.45	3/4	4,719.10	3/4	4,375.20	3/4	4,011.97	3/4	3,645.19	3/4	3,278.00	3/4	2,910.60	3/4	2,543.07
9		9		9	5,046.86	9	4,712.14	9	4,367.79	9	4,004.33	9	3,637.55	9	3,270.35	9	2,902.95	9	2,535.42
1/4		1/4		1/4	5,039.28	1/4	4,705.18	1/4	4,360.39	1/4	3,996.69	1/4	3,629.91	1/4	3,262.69	1/4	2,895.29	1/4	2,527.76
1/2		1/2		1/2	5,031.70	1/2	4,698.22	1/2	4,352.99	1/2	3,989.05	1/2	3,622.27	1/2	3,255.04	1/2	2,887.63	1/2	2,520.10
3/4		3/4		3/4	5,024.11	3/4	4,691.23	3/4	4,345.56	3/4	3,981.41	3/4	3,614.62	3/4	3,247.39	3/4	2,879.98	3/4	2,512.45
10		10		10	5,016.53	10	4,684.23	10	4,338.12	10	3,973.77	10	3,606.98	10	3,239.74	10	2,872.32	10	2,504.79
1/4		1/4		1/4	5,008.94	1/4	4,677.23	1/4	4,330.69	1/4	3,966.12	1/4	3,599.34	1/4	3,232.08	1/4	2,864.66	1/4	2,497.13
1/2		1/2		1/2	5,001.36	1/2	4,670.24	1/2	4,323.25	1/2	3,958.48	1/2	3,591.70	1/2	3,224.43	1/2	2,857.01	1/2	2,489.48
3/4		3/4		3/4	4,993.78	3/4	4,663.20	3/4	4,315.78	3/4	3,950.84	3/4	3,584.06	3/4	3,216.78	3/4	2,849.35	3/4	2,481.82
11		11		11	4,986.19	11	4,656.17	11	4,308.32	11	3,943.20	11	3,576.42	11	3,209.12	11	2,841.69	11	2,474.16
1/4		1/4		1/4	4,978.61	1/4	4,649.14	1/4	4,300.85	1/4	3,935.56	1/4	3,568.78	1/4	3,201.47	1/4	2,834.04	1/4	2,466.50
1/2		1/2		1/2	4,971.03	1/2	4,642.10	1/2	4,293.38	1/2	3,927.92	1/2	3,561.14	1/2	3,193.82	1/2	2,826.38	1/2	2,458.85
3/4		3/4		3/4	4,963.92	3/4	4,635.03	3/4	4,285.87	3/4	3,920.28	3/4	3,553.49	3/4	3,186.17	3/4	2,818.72	3/4	2,451.19

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
 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 29086"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,443.53	0	2,076.00	0	1,708.47	0	1,340.94	0	974.40	0	608.10	0	257.11	0		0		0	
1/4	2,435.88	1/4	2,068.35	1/4	1,700.81	1/4	1,333.28	1/4	966.80	1/4	600.44	1/4	250.32	1/4	1/4	1/4		1/4	1/4
1/2	2,428.22	1/2	2,060.69	1/2	1,693.16	1/2	1,325.63	1/2	959.19	1/2	592.78	1/2	243.52	1/2	1/2	1/2		1/2	1/2
3/4	2,420.56	3/4	2,053.03	3/4	1,685.50	3/4	1,317.97	3/4	951.58	3/4	585.13	3/4	236.82	3/4	3/4	3/4		3/4	3/4
1	2,412.91	1	2,045.38	1	1,677.84	1	1,310.31	1	943.98	1	577.47	1	230.12	1	1	1		1	1
1/4	2,405.25	1/4	2,037.72	1/4	1,670.19	1/4	1,302.66	1/4	936.37	1/4	569.81	1/4	223.41	1/4	1/4	1/4		1/4	1/4
1/2	2,397.59	1/2	2,030.06	1/2	1,662.53	1/2	1,295.00	1/2	928.77	1/2	562.16	1/2	216.71	1/2	1/2	1/2		1/2	1/2
3/4	2,389.94	3/4	2,022.40	3/4	1,654.87	3/4	1,287.34	3/4	921.16	3/4	554.51	3/4	210.10	3/4	3/4	3/4		3/4	3/4
2	2,382.28	2	2,014.75	2	1,647.22	2	1,279.69	2	913.55	2	546.86	2	203.49	2	2	2		2	2
1/4	2,374.62	1/4	2,007.09	1/4	1,639.56	1/4	1,272.03	1/4	905.95	1/4	539.22	1/4	196.88	1/4	1/4	1/4		1/4	1/4
1/2	2,366.97	1/2	1,999.43	1/2	1,631.90	1/2	1,264.37	1/2	898.34	1/2	531.57	1/2	190.26	1/2	1/2	1/2		1/2	1/2
3/4	2,359.31	3/4	1,991.78	3/4	1,624.25	3/4	1,256.71	3/4	890.74	3/4	523.97	3/4	183.74	3/4	3/4	3/4		3/4	3/4
3	2,351.65	3	1,984.12	3	1,616.59	3	1,249.06	3	883.13	3	516.37	3	177.22	3	3	3		3	3
1/4	2,343.99	1/4	1,976.46	1/4	1,608.93	1/4	1,241.40	1/4	875.52	1/4	508.77	1/4	170.70	1/4	1/4	1/4		1/4	1/4
1/2	2,336.34	1/2	1,968.81	1/2	1,601.28	1/2	1,233.74	1/2	867.92	1/2	501.17	1/2	164.18	1/2	1/2	1/2		1/2	1/2
3/4	2,328.68	3/4	1,961.15	3/4	1,593.62	3/4	1,226.09	3/4	860.31	3/4	493.65	3/4	157.75	3/4	3/4	3/4		3/4	3/4
4	2,321.02	4	1,953.49	4	1,585.96	4	1,218.43	4	852.71	4	486.13	4	151.33	4	4	4		4	4
1/4	2,313.37	1/4	1,945.84	1/4	1,578.30	1/4	1,210.77	1/4	845.10	1/4	478.61	1/4	144.90	1/4	1/4	1/4		1/4	1/4
1/2	2,305.71	1/2	1,938.18	1/2	1,570.65	1/2	1,203.12	1/2	837.49	1/2	471.09	1/2	138.47	1/2	1/2	1/2		1/2	1/2
3/4	2,298.05	3/4	1,930.52	3/4	1,562.99	3/4	1,195.46	3/4	829.89	3/4	463.66	3/4	132.14	3/4	3/4	3/4		3/4	3/4
5	2,290.40	5	1,922.86	5	1,555.33	5	1,187.80	5	822.28	5	456.23	5	125.81	5	5	5		5	5
1/4	2,282.74	1/4	1,915.21	1/4	1,547.68	1/4	1,180.15	1/4	814.68	1/4	448.80	1/4	119.48	1/4	1/4	1/4		1/4	1/4
1/2	2,275.08	1/2	1,907.55	1/2	1,540.02	1/2	1,172.49	1/2	807.07	1/2	441.37	1/2	113.15	1/2	1/2	1/2		1/2	1/2
3/4	2,267.43	3/4	1,899.89	3/4	1,532.36	3/4	1,164.85	3/4	799.44	3/4	434.04	3/4	106.92	3/4	3/4	3/4		3/4	3/4
6	2,259.77	6	1,892.24	6	1,524.71	6	1,157.20	6	791.81	6	426.70	6	100.69	6	6	6		6	6
1/4	2,252.11	1/4	1,884.58	1/4	1,517.05	1/4	1,149.56	1/4	784.17	1/4	419.36	1/4	94.46	1/4	1/4	1/4		1/4	1/4
1/2	2,244.45	1/2	1,876.92	1/2	1,509.39	1/2	1,141.92	1/2	776.54	1/2	412.02	1/2	88.23	1/2	1/2	1/2		1/2	1/2
3/4	2,236.80	3/4	1,869.27	3/4	1,501.74	3/4	1,134.29	3/4	768.89	3/4	404.77	3/4	82.11	3/4	3/4	3/4		3/4	3/4
7	2,229.14	7	1,861.61	7	1,494.08	7	1,126.67	7	761.23	7	397.52	7	75.99	7	7	7		7	7
1/4	2,221.48	1/4	1,853.95	1/4	1,486.42	1/4	1,119.04	1/4	753.57	1/4	390.28	1/4	69.86	1/4	1/4	1/4		1/4	1/4
1/2	2,213.83	1/2	1,846.30	1/2	1,478.76	1/2	1,111.41	1/2	745.92	1/2	383.03	1/2	63.74	1/2	1/2	1/2		1/2	1/2
3/4	2,206.17	3/4	1,838.64	3/4	1,471.11	3/4	1,103.79	3/4	738.26	3/4	375.87	3/4	58.19	3/4	3/4	3/4		3/4	3/4
8	2,198.51	8	1,830.98	8	1,463.45	8	1,096.17	8	730.60	8	368.71	8	52.63	8	8	8		8	8
1/4	2,190.86	1/4	1,823.33	1/4	1,455.79	1/4	1,088.55	1/4	722.95	1/4	361.56	1/4	47.07	1/4	1/4	1/4		1/4	1/4
1/2	2,183.20	1/2	1,815.67	1/2	1,448.14	1/2	1,080.93	1/2	715.29	1/2	354.40	1/2	41.51	1/2	1/2	1/2		1/2	1/2
3/4	2,175.54	3/4	1,808.01	3/4	1,440.48	3/4	1,073.32	3/4	707.63	3/4	347.33	3/4	37.02	3/4	3/4	3/4		3/4	3/4
9	2,167.89	9	1,800.35	9	1,432.82	9	1,065.70	9	699.98	9	340.27	9	32.52	9	9	9		9	9
1/4	2,160.23	1/4	1,792.70	1/4	1,425.17	1/4	1,058.09	1/4	692.32	1/4	333.20	1/4	28.03	1/4	1/4	1/4		1/4	1/4
1/2	2,152.57	1/2	1,785.04	1/2	1,417.51	1/2	1,050.48	1/2	684.66	1/2	326.14	1/2	23.53	1/2	1/2	1/2		1/2	1/2
3/4	2,144.91	3/4	1,777.38	3/4	1,409.85	3/4	1,042.87	3/4	677.01	3/4	319.16	3/4		3/4	3/4	3/4		3/4	3/4
10	2,137.26	10	1,769.73	10	1,402.20	10	1,035.26	10	669.35	10	312.19	10		10	10	10		10	10
1/4	2,129.60	1/4	1,762.07	1/4	1,394.54	1/4	1,027.65	1/4	661.69	1/4	305.21	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,121.94	1/2	1,754.41	1/2	1,386.88	1/2	1,020.04	1/2	654.04	1/2	298.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,114.29	3/4	1,746.76	3/4	1,379.22	3/4	1,012.43	3/4	646.38	3/4	291.35	3/4		3/4	3/4	3/4		3/4	3/4
11	2,106.63	11	1,739.10	11	1,371.57	11	1,004.83	11	638.72	11	284.47	11		11	11	11		11	11
1/4	2,098.97	1/4	1,731.44	1/4	1,363.91	1/4	997.22	1/4	631.07	1/4	277.58	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,091.32	1/2	1,723.79	1/2	1,356.25	1/2	989.61	1/2	623.41	1/2	270.70	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,083.66	3/4	1,716.13	3/4	1,348.60	3/4	982.01	3/4	615.75	3/4	263.90	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

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



# BARGE "KIRBY 29086"

# 1 STBD

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,946.66	0	4,617.81	0	4,267.73	0	3,901.83	0	3,535.01	0	3,168.19	0	2,801.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,939.56	1/4	4,610.74	1/4	4,260.23	1/4	3,894.19	1/4	3,527.37	1/4	3,160.55	1/4	2,793.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.91	1/2	4,603.64	1/2	4,252.68	1/2	3,886.55	1/2	3,519.73	1/2	3,152.91	1/2	2,785.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,926.27	3/4	4,596.54	3/4	4,245.14	3/4	3,878.91	3/4	3,512.09	3/4	3,145.27	3/4	2,778.33
1	1	1	1	1	1	1	4,919.62	1	4,589.44	1	4,237.59	1	3,871.27	1	3,504.44	1	3,137.62	1	2,770.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,912.98	1/4	4,582.34	1/4	4,230.05	1/4	3,863.62	1/4	3,496.80	1/4	3,129.98	1/4	2,763.04
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,906.30	1/2	4,575.20	1/2	4,222.47	1/2	3,855.98	1/2	3,489.16	1/2	3,122.34	1/2	2,755.39
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.62	3/4	4,568.06	3/4	4,214.89	3/4	3,848.34	3/4	3,481.52	3/4	3,114.70	3/4	2,747.75
2	2	2	2	2	2	2	4,892.95	2	4,560.93	2	4,207.31	2	3,840.70	2	3,473.88	2	3,107.06	2	2,740.10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,886.27	1/4	4,553.79	1/4	4,199.73	1/4	3,833.06	1/4	3,466.23	1/4	3,099.41	1/4	2,732.46
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,879.56	1/2	4,546.62	1/2	4,192.12	1/2	3,825.41	1/2	3,458.59	1/2	3,091.77	1/2	2,724.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,872.84	3/4	4,539.45	3/4	4,184.50	3/4	3,817.77	3/4	3,450.95	3/4	3,084.13	3/4	2,717.16
3	3	3	3	3	3	3	4,866.13	3	4,532.28	3	4,176.89	3	3,810.13	3	3,443.31	3	3,076.49	3	2,709.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,859.42	1/4	4,525.11	1/4	4,169.28	1/4	3,802.49	1/4	3,435.67	1/4	3,068.84	1/4	2,701.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,852.67	1/2	4,517.91	1/2	4,161.64	1/2	3,794.84	1/2	3,428.02	1/2	3,061.20	1/2	2,694.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,845.92	3/4	4,510.71	3/4	4,154.01	3/4	3,787.20	3/4	3,420.38	3/4	3,053.56	3/4	2,686.58
4	4	4	4	4	4	4	4,839.17	4	4,503.51	4	4,146.37	4	3,779.56	4	3,412.74	4	3,045.92	4	2,678.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,832.42	1/4	4,496.30	1/4	4,138.74	1/4	3,771.92	1/4	3,405.10	1/4	3,038.28	1/4	2,671.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,825.63	1/2	4,489.07	1/2	4,131.10	1/2	3,764.28	1/2	3,397.46	1/2	3,030.63	1/2	2,663.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,818.85	3/4	4,481.83	3/4	4,123.45	3/4	3,756.63	3/4	3,389.81	3/4	3,022.99	3/4	2,656.00
5	5	5	5	5	5	5	4,812.06	5	4,474.59	5	4,115.81	5	3,748.99	5	3,382.17	5	3,015.35	5	2,648.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,805.28	1/4	4,467.35	1/4	4,108.17	1/4	3,741.35	1/4	3,374.53	1/4	3,007.71	1/4	2,640.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,798.46	1/2	4,460.08	1/2	4,100.53	1/2	3,733.71	1/2	3,366.89	1/2	3,000.06	1/2	2,633.06
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,791.64	3/4	4,452.80	3/4	4,092.89	3/4	3,726.07	3/4	3,359.24	3/4	2,992.42	3/4	2,625.41
6	6	6	6	6	6	6	4,784.83	6	4,445.53	6	4,085.24	6	3,718.42	6	3,351.60	6	2,984.78	6	2,617.77
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,778.01	1/4	4,438.25	1/4	4,077.60	1/4	3,710.78	1/4	3,343.96	1/4	2,977.13	1/4	2,610.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,771.16	1/2	4,430.93	1/2	4,069.96	1/2	3,703.14	1/2	3,336.32	1/2	2,969.49	1/2	2,602.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,099.91	3/4	4,764.30	3/4	4,423.61	3/4	4,062.32	3/4	3,695.50	3/4	3,328.68	3/4	2,961.84
7	7	7	7	7	7	7	5,093.86	7	4,757.45	7	4,416.28	7	4,054.68	7	3,687.86	7	3,321.03	7	2,954.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,087.80	1/4	4,750.60	1/4	4,408.96	1/4	4,047.03	1/4	3,680.21	1/4	3,313.39	1/4	2,946.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,080.60	1/2	4,743.70	1/2	4,401.59	1/2	4,039.39	1/2	3,672.57	1/2	3,305.75	1/2	2,938.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,073.40	3/4	4,736.79	3/4	4,394.22	3/4	4,031.75	3/4	3,664.93	3/4	3,298.11	3/4	2,931.26
8	8	8	8	8	8	8	5,066.20	8	4,729.89	8	4,386.85	8	4,024.11	8	3,657.29	8	3,290.47	8	2,923.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,059.00	1/4	4,722.98	1/4	4,379.48	1/4	4,016.47	1/4	3,649.64	1/4	3,282.82	1/4	2,915.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,051.41	1/2	4,716.02	1/2	4,372.08	1/2	4,008.82	1/2	3,642.00	1/2	3,275.18	1/2	2,908.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,043.83	3/4	4,709.06	3/4	4,364.68	3/4	4,001.18	3/4	3,634.36	3/4	3,267.54	3/4	2,900.67
9	9	9	9	9	9	9	5,036.24	9	4,702.10	9	4,357.28	9	3,993.54	9	3,626.72	9	3,259.90	9	2,893.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,028.66	1/4	4,695.15	1/4	4,349.88	1/4	3,985.90	1/4	3,619.08	1/4	3,252.26	1/4	2,885.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,021.07	1/2	4,688.15	1/2	4,342.44	1/2	3,978.25	1/2	3,611.43	1/2	3,244.61	1/2	2,877.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,013.49	3/4	4,681.15	3/4	4,335.01	3/4	3,970.61	3/4	3,603.79	3/4	3,236.97	3/4	2,870.09
10	10	10	10	10	10	10	5,005.90	10	4,674.15	10	4,327.57	10	3,962.97	10	3,596.15	10	3,229.33	10	2,862.44
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,998.32	1/4	4,667.16	1/4	4,320.13	1/4	3,955.33	1/4	3,588.51	1/4	3,221.69	1/4	2,854.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,990.73	1/2	4,660.12	1/2	4,312.66	1/2	3,947.69	1/2	3,580.87	1/2	3,214.04	1/2	2,847.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,983.15	3/4	4,653.09	3/4	4,305.20	3/4	3,940.04	3/4	3,573.22	3/4	3,206.40	3/4	2,839.50
11	11	11	11	11	11	11	4,975.57	11	4,646.05	11	4,297.73	11	3,932.40	11	3,565.58	11	3,198.76	11	2,831.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,967.98	1/4	4,639.02	1/4	4,290.26	1/4	3,924.76	1/4	3,557.94	1/4	3,191.12	1/4	2,824.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,960.87	1/2	4,631.95	1/2	4,282.75	1/2	3,917.12	1/2	3,550.30	1/2	3,183.48	1/2	2,816.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.77	3/4	4,624.88	3/4	4,275.24	3/4	3,909.48	3/4	3,542.66	3/4	3,175.83	3/4	2,808.92

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
 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 29086"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 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	2,434.26	0	2,067.25	0	1,700.23	0	1,333.22	0	966.38	0	599.70	0	250.15	0		0		0	
1/4	2,426.61	1/4	2,059.60	1/4	1,692.59	1/4	1,325.57	1/4	958.75	1/4	592.05	1/4	243.37	1/4	1/4	1/4		1/4	1/4
1/2	2,418.97	1/2	2,051.95	1/2	1,684.94	1/2	1,317.93	1/2	951.12	1/2	584.41	1/2	236.68	1/2	1/2	1/2		1/2	1/2
3/4	2,411.32	3/4	2,044.31	3/4	1,677.29	3/4	1,310.28	3/4	943.49	3/4	576.77	3/4	229.98	3/4	3/4	3/4		3/4	3/4
1	2,403.67	1	2,036.66	1	1,669.65	1	1,302.64	1	935.86	1	569.12	1	223.29	1	1	1		1	1
1/4	2,396.03	1/4	2,029.02	1/4	1,662.00	1/4	1,294.99	1/4	928.22	1/4	561.48	1/4	216.60	1/4	1/4	1/4		1/4	1/4
1/2	2,388.38	1/2	2,021.37	1/2	1,654.36	1/2	1,287.34	1/2	920.59	1/2	553.86	1/2	210.00	1/2	1/2	1/2		1/2	1/2
3/4	2,380.74	3/4	2,013.72	3/4	1,646.71	3/4	1,279.70	3/4	912.96	3/4	546.23	3/4	203.40	3/4	3/4	3/4		3/4	3/4
2	2,373.09	2	2,006.08	2	1,639.06	2	1,272.05	2	905.33	2	538.60	2	196.80	2	2	2		2	2
1/4	2,365.44	1/4	1,998.43	1/4	1,631.42	1/4	1,264.41	1/4	897.69	1/4	530.97	1/4	190.20	1/4	1/4	1/4		1/4	1/4
1/2	2,357.80	1/2	1,990.78	1/2	1,623.77	1/2	1,256.76	1/2	890.06	1/2	523.39	1/2	183.69	1/2	1/2	1/2		1/2	1/2
3/4	2,350.15	3/4	1,983.14	3/4	1,616.13	3/4	1,249.11	3/4	882.43	3/4	515.80	3/4	177.17	3/4	3/4	3/4		3/4	3/4
3	2,342.51	3	1,975.49	3	1,608.48	3	1,241.47	3	874.80	3	508.22	3	170.66	3	3	3		3	3
1/4	2,334.86	1/4	1,967.85	1/4	1,600.83	1/4	1,233.82	1/4	867.17	1/4	500.63	1/4	164.15	1/4	1/4	1/4		1/4	1/4
1/2	2,327.21	1/2	1,960.20	1/2	1,593.19	1/2	1,226.17	1/2	859.53	1/2	493.12	1/2	157.73	1/2	1/2	1/2		1/2	1/2
3/4	2,319.57	3/4	1,952.55	3/4	1,585.54	3/4	1,218.53	3/4	851.90	3/4	485.61	3/4	151.32	3/4	3/4	3/4		3/4	3/4
4	2,311.92	4	1,944.91	4	1,577.90	4	1,210.88	4	844.27	4	478.10	4	144.90	4	4	4		4	4
1/4	2,304.28	1/4	1,937.26	1/4	1,570.25	1/4	1,203.24	1/4	836.64	1/4	470.59	1/4	138.48	1/4	1/4	1/4		1/4	1/4
1/2	2,296.63	1/2	1,929.62	1/2	1,562.60	1/2	1,195.59	1/2	829.00	1/2	463.18	1/2	132.15	1/2	1/2	1/2		1/2	1/2
3/4	2,288.98	3/4	1,921.97	3/4	1,554.96	3/4	1,187.94	3/4	821.37	3/4	455.76	3/4	125.82	3/4	3/4	3/4		3/4	3/4
5	2,281.34	5	1,914.32	5	1,547.31	5	1,180.30	5	813.74	5	448.34	5	119.49	5	5	5		5	5
1/4	2,273.69	1/4	1,906.68	1/4	1,539.67	1/4	1,172.65	1/4	806.11	1/4	440.92	1/4	113.17	1/4	1/4	1/4		1/4	1/4
1/2	2,266.04	1/2	1,899.03	1/2	1,532.02	1/2	1,165.01	1/2	798.47	1/2	433.59	1/2	106.93	1/2	1/2	1/2		1/2	1/2
3/4	2,258.40	3/4	1,891.39	3/4	1,524.37	3/4	1,157.36	3/4	790.83	3/4	426.26	3/4	100.70	3/4	3/4	3/4		3/4	3/4
6	2,250.75	6	1,883.74	6	1,516.73	6	1,149.71	6	783.19	6	418.93	6	94.47	6	6	6		6	6
1/4	2,243.11	1/4	1,876.09	1/4	1,509.08	1/4	1,142.07	1/4	775.55	1/4	411.61	1/4	88.24	1/4	1/4	1/4		1/4	1/4
1/2	2,235.46	1/2	1,868.45	1/2	1,501.43	1/2	1,134.42	1/2	767.91	1/2	404.37	1/2	82.12	1/2	1/2	1/2		1/2	1/2
3/4	2,227.81	3/4	1,860.80	3/4	1,493.79	3/4	1,126.78	3/4	760.26	3/4	397.13	3/4	75.99	3/4	3/4	3/4		3/4	3/4
7	2,220.17	7	1,853.16	7	1,486.14	7	1,119.13	7	752.61	7	389.90	7	69.87	7	7	7		7	7
1/4	2,212.52	1/4	1,845.51	1/4	1,478.50	1/4	1,111.48	1/4	744.97	1/4	382.66	1/4	63.75	1/4	1/4	1/4		1/4	1/4
1/2	2,204.88	1/2	1,837.86	1/2	1,470.85	1/2	1,103.84	1/2	737.32	1/2	375.51	1/2	58.19	1/2	1/2	1/2		1/2	1/2
3/4	2,197.23	3/4	1,830.22	3/4	1,463.20	3/4	1,096.20	3/4	729.68	3/4	368.37	3/4	52.63	3/4	3/4	3/4		3/4	3/4
8	2,189.58	8	1,822.57	8	1,455.56	8	1,088.55	8	722.03	8	361.22	8	47.07	8	8	8		8	8
1/4	2,181.94	1/4	1,814.92	1/4	1,447.91	1/4	1,080.91	1/4	714.39	1/4	354.07	1/4	41.51	1/4	1/4	1/4		1/4	1/4
1/2	2,174.29	1/2	1,807.28	1/2	1,440.27	1/2	1,073.27	1/2	706.74	1/2	347.02	1/2	37.02	1/2	1/2	1/2		1/2	1/2
3/4	2,166.65	3/4	1,799.63	3/4	1,432.62	3/4	1,065.63	3/4	699.09	3/4	339.96	3/4	32.52	3/4	3/4	3/4		3/4	3/4
9	2,159.00	9	1,791.99	9	1,424.97	9	1,057.99	9	691.45	9	332.91	9	28.03	9	9	9		9	9
1/4	2,151.35	1/4	1,784.34	1/4	1,417.33	1/4	1,050.35	1/4	683.80	1/4	325.85	1/4	23.53	1/4	1/4	1/4		1/4	1/4
1/2	2,143.71	1/2	1,776.69	1/2	1,409.68	1/2	1,042.72	1/2	676.16	1/2	318.89	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,136.06	3/4	1,769.05	3/4	1,402.04	3/4	1,035.08	3/4	668.51	3/4	311.92	3/4		3/4	3/4	3/4		3/4	3/4
10	2,128.41	10	1,761.40	10	1,394.39	10	1,027.45	10	660.86	10	304.96	10	10	10	10	10		10	10
1/4	2,120.77	1/4	1,753.76	1/4	1,386.74	1/4	1,019.81	1/4	653.22	1/4	297.99	1/4	1/4	1/4	1/4	1/4		1/4	1/4
1/2	2,113.12	1/2	1,746.11	1/2	1,379.10	1/2	1,012.18	1/2	645.57	1/2	291.12	1/2	1/2	1/2	1/2	1/2		1/2	1/2
3/4	2,105.48	3/4	1,738.46	3/4	1,371.45	3/4	1,004.55	3/4	637.93	3/4	284.25	3/4	3/4	3/4	3/4	3/4		3/4	3/4
11	2,097.83	11	1,730.82	11	1,363.80	11	996.91	11	630.28	11	277.37	11	11	11	11	11		11	11
1/4	2,090.18	1/4	1,723.17	1/4	1,356.16	1/4	989.28	1/4	622.63	1/4	270.50	1/4	1/4	1/4	1/4	1/4		1/4	1/4
1/2	2,082.54	1/2	1,715.53	1/2	1,348.51	1/2	981.65	1/2	614.99	1/2	263.72	1/2	1/2	1/2	1/2	1/2		1/2	1/2
3/4	2,074.89	3/4	1,707.88	3/4	1,340.87	3/4	974.02	3/4	607.34	3/4	256.93	3/4	3/4	3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

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



# BARGE "KIRBY 29086"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1		1		1		1		1		1		1		1		1		1	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2		2		2		2		2		2		2		2		2		2	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3		3		3		3		3		3		3		3	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4		4		4		4		4		4		4		4	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5		5		5		5		5		5		5		5	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6		6		6		6		6		6		6		6	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7		7		7		7		7		7		7		7	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8		8		8		8		8		8		8		8		8		8	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9		9		9		9		9		9		9		9		9		9	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10		10		10		10		10		10		10		10		10		10	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11		11		11		11		11		11		11		11		11		11	
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		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.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" 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 29086"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,326.22	0	1,981.61	0	1,637.00	0	1,292.40	0	955.48	0	617.57	0	272.98	0		0		0	
1/4	2,319.04	1/4	1,974.43	1/4	1,629.82	1/4	1,285.22	1/4	948.60	1/4	610.39	1/4	265.80	1/4	1/4		1/4		1/4
1/2	2,311.86	1/2	1,967.25	1/2	1,622.65	1/2	1,278.04	1/2	941.73	1/2	603.21	1/2	258.62	1/2	1/2		1/2		1/2
3/4	2,304.68	3/4	1,960.07	3/4	1,615.47	3/4	1,270.86	3/4	934.85	3/4	596.03	3/4	251.44	3/4	3/4		3/4		3/4
1	2,297.50	1	1,952.89	1	1,608.29	1	1,263.68	1	927.98	1	588.85	1	244.26	1	1		1		1
1/4	2,290.32	1/4	1,945.71	1/4	1,601.11	1/4	1,256.50	1/4	921.10	1/4	581.67	1/4	237.08	1/4	1/4		1/4		1/4
1/2	2,283.14	1/2	1,938.53	1/2	1,593.93	1/2	1,249.32	1/2	914.23	1/2	574.50	1/2	229.90	1/2	1/2		1/2		1/2
3/4	2,275.96	3/4	1,931.36	3/4	1,586.75	3/4	1,242.14	3/4	907.35	3/4	567.32	3/4	222.72	3/4	3/4		3/4		3/4
2	2,268.78	2	1,924.18	2	1,579.57	2	1,234.96	2	900.48	2	560.14	2	215.55	2	2		2		2
1/4	2,261.60	1/4	1,917.00	1/4	1,572.39	1/4	1,227.78	1/4	893.60	1/4	552.96	1/4	208.37	1/4	1/4		1/4		1/4
1/2	2,254.42	1/2	1,909.82	1/2	1,565.21	1/2	1,220.60	1/2	886.73	1/2	545.78	1/2	201.19	1/2	1/2		1/2		1/2
3/4	2,247.24	3/4	1,902.64	3/4	1,558.03	3/4	1,213.43	3/4	879.85	3/4	538.60	3/4	194.01	3/4	3/4		3/4		3/4
3	2,240.07	3	1,895.46	3	1,550.85	3	1,206.25	3	872.98	3	531.42	3	186.83	3	3		3		3
1/4	2,232.89	1/4	1,888.28	1/4	1,543.67	1/4	1,199.07	1/4	866.10	1/4	524.24	1/4	179.65	1/4	1/4		1/4		1/4
1/2	2,225.71	1/2	1,881.10	1/2	1,536.49	1/2	1,191.89	1/2	859.23	1/2	517.06	1/2	172.47	1/2	1/2		1/2		1/2
3/4	2,218.53	3/4	1,873.92	3/4	1,529.31	3/4	1,184.71	3/4	852.35	3/4	509.88	3/4	165.29	3/4	3/4		3/4		3/4
4	2,211.35	4	1,866.74	4	1,522.14	4	1,177.53	4	845.48	4	502.71	4	158.11	4	4		4		4
1/4	2,204.17	1/4	1,859.56	1/4	1,514.96	1/4	1,170.35	1/4	838.60	1/4	495.53	1/4	150.94	1/4	1/4		1/4		1/4
1/2	2,196.99	1/2	1,852.38	1/2	1,507.78	1/2	1,163.17	1/2	831.73	1/2	488.35	1/2	143.76	1/2	1/2		1/2		1/2
3/4	2,189.81	3/4	1,845.20	3/4	1,500.60	3/4	1,155.99	3/4	824.85	3/4	481.17	3/4	136.58	3/4	3/4		3/4		3/4
5	2,182.63	5	1,838.02	5	1,493.42	5	1,148.81	5	817.98	5	473.99	5	129.40	5	5		5		5
1/4	2,175.45	1/4	1,830.84	1/4	1,486.24	1/4	1,141.77	1/4	810.95	1/4	466.81	1/4	122.23	1/4	1/4		1/4		1/4
1/2	2,168.27	1/2	1,823.67	1/2	1,479.06	1/2	1,134.74	1/2	803.92	1/2	459.63	1/2	115.05	1/2	1/2		1/2		1/2
3/4	2,161.09	3/4	1,816.49	3/4	1,471.88	3/4	1,127.70	3/4	796.89	3/4	452.45	3/4	107.88	3/4	3/4		3/4		3/4
6	2,153.91	6	1,809.31	6	1,464.70	6	1,120.66	6	789.87	6	445.27	6	100.71	6	6		6		6
1/4	2,146.73	1/4	1,802.13	1/4	1,457.52	1/4	1,113.76	1/4	782.69	1/4	438.09	1/4	93.55	1/4	1/4		1/4		1/4
1/2	2,139.55	1/2	1,794.95	1/2	1,450.34	1/2	1,106.87	1/2	775.51	1/2	430.92	1/2	86.39	1/2	1/2		1/2		1/2
3/4	2,132.38	3/4	1,787.77	3/4	1,443.16	3/4	1,099.97	3/4	768.33	3/4	423.74	3/4	79.24	3/4	3/4		3/4		3/4
7	2,125.20	7	1,780.59	7	1,435.98	7	1,093.08	7	761.15	7	416.56	7	72.08	7	7		7		7
1/4	2,118.02	1/4	1,773.41	1/4	1,428.80	1/4	1,086.19	1/4	753.97	1/4	409.38	1/4	65.37	1/4	1/4		1/4		1/4
1/2	2,110.84	1/2	1,766.23	1/2	1,421.62	1/2	1,079.30	1/2	746.79	1/2	402.20	1/2	58.66	1/2	1/2		1/2		1/2
3/4	2,103.66	3/4	1,759.05	3/4	1,414.45	3/4	1,072.41	3/4	739.61	3/4	395.02	3/4	51.94	3/4	3/4		3/4		3/4
8	2,096.48	8	1,751.87	8	1,407.27	8	1,065.52	8	732.43	8	387.84	8	45.23	8	8		8		8
1/4	2,089.30	1/4	1,744.69	1/4	1,400.09	1/4	1,058.64	1/4	725.25	1/4	380.66	1/4	39.85	1/4	1/4		1/4		1/4
1/2	2,082.12	1/2	1,737.51	1/2	1,392.91	1/2	1,051.75	1/2	718.08	1/2	373.48	1/2	34.47	1/2	1/2		1/2		1/2
3/4	2,074.94	3/4	1,730.33	3/4	1,385.73	3/4	1,044.87	3/4	710.90	3/4	366.30	3/4	29.08	3/4	3/4		3/4		3/4
9	2,067.76	9	1,723.16	9	1,378.55	9	1,037.99	9	703.72	9	359.13	9	23.70	9	9		9		9
1/4	2,060.58	1/4	1,715.98	1/4	1,371.37	1/4	1,031.11	1/4	696.54	1/4	351.95	1/4		1/4	1/4		1/4		1/4
1/2	2,053.40	1/2	1,708.80	1/2	1,364.19	1/2	1,024.23	1/2	689.36	1/2	344.77	1/2		1/2	1/2		1/2		1/2
3/4	2,046.22	3/4	1,701.62	3/4	1,357.01	3/4	1,017.35	3/4	682.18	3/4	337.59	3/4		3/4	3/4		3/4		3/4
10	2,039.04	10	1,694.44	10	1,349.83	10	1,010.48	10	675.00	10	330.41	10		10	10		10		10
1/4	2,031.87	1/4	1,687.26	1/4	1,342.65	1/4	1,003.60	1/4	667.82	1/4	323.23	1/4		1/4	1/4		1/4		1/4
1/2	2,024.69	1/2	1,680.08	1/2	1,335.47	1/2	996.73	1/2	660.64	1/2	316.05	1/2		1/2	1/2		1/2		1/2
3/4	2,017.51	3/4	1,672.90	3/4	1,328.29	3/4	989.85	3/4	653.46	3/4	308.87	3/4		3/4	3/4		3/4		3/4
11	2,010.33	11	1,665.72	11	1,321.11	11	982.98	11	646.29	11	301.69	11		11	11		11		11
1/4	2,003.15	1/4	1,658.54	1/4	1,313.94	1/4	976.10	1/4	639.11	1/4	294.51	1/4		1/4	1/4		1/4		1/4
1/2	1,995.97	1/2	1,651.36	1/2	1,306.76	1/2	969.23	1/2	631.93	1/2	287.34	1/2		1/2	1/2		1/2		1/2
3/4	1,988.79	3/4	1,644.18	3/4	1,299.58	3/4	962.35	3/4	624.75	3/4	280.16	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

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







# BARGE "KIRBY 29086"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,354.50	0	2,009.89	0	1,665.28	0	1,320.68	0	976.22	0	631.93	0	287.34	0		0		0	
1/4	2,347.32	1/4	2,002.71	1/4	1,658.10	1/4	1,313.50	1/4	969.05	1/4	624.75	1/4	280.16	1/4	1/4		1/4		1/4
1/2	2,340.14	1/2	1,995.53	1/2	1,650.92	1/2	1,306.32	1/2	961.89	1/2	617.57	1/2	272.98	1/2	1/2		1/2		1/2
3/4	2,332.96	3/4	1,988.35	3/4	1,643.74	3/4	1,299.14	3/4	954.72	3/4	610.39	3/4	265.80	3/4	3/4		3/4		3/4
1	2,325.78	1	1,981.17	1	1,636.57	1	1,291.96	1	947.55	1	603.21	1	258.62	1	1		1		1
1/4	2,318.60	1/4	1,973.99	1/4	1,629.39	1/4	1,284.78	1/4	940.39	1/4	596.04	1/4	251.44	1/4	1/4		1/4		1/4
1/2	2,311.42	1/2	1,966.81	1/2	1,622.21	1/2	1,277.60	1/2	933.22	1/2	588.86	1/2	244.26	1/2	1/2		1/2		1/2
3/4	2,304.24	3/4	1,959.63	3/4	1,615.03	3/4	1,270.42	3/4	926.06	3/4	581.68	3/4	237.09	3/4	3/4		3/4		3/4
2	2,297.06	2	1,952.45	2	1,607.85	2	1,263.24	2	918.89	2	574.50	2	229.91	2	2		2		2
1/4	2,289.88	1/4	1,945.28	1/4	1,600.67	1/4	1,256.06	1/4	911.72	1/4	567.32	1/4	222.73	1/4	1/4		1/4		1/4
1/2	2,282.70	1/2	1,938.10	1/2	1,593.49	1/2	1,248.88	1/2	904.56	1/2	560.14	1/2	215.55	1/2	1/2		1/2		1/2
3/4	2,275.52	3/4	1,930.92	3/4	1,586.31	3/4	1,241.70	3/4	897.39	3/4	552.96	3/4	208.37	3/4	3/4		3/4		3/4
3	2,268.34	3	1,923.74	3	1,579.13	3	1,234.52	3	890.22	3	545.78	3	201.19	3	3		3		3
1/4	2,261.16	1/4	1,916.56	1/4	1,571.95	1/4	1,227.35	1/4	883.06	1/4	538.60	1/4	194.01	1/4	1/4		1/4		1/4
1/2	2,253.99	1/2	1,909.38	1/2	1,564.77	1/2	1,220.17	1/2	875.89	1/2	531.42	1/2	186.83	1/2	1/2		1/2		1/2
3/4	2,246.81	3/4	1,902.20	3/4	1,557.59	3/4	1,212.99	3/4	868.73	3/4	524.25	3/4	179.65	3/4	3/4		3/4		3/4
4	2,239.63	4	1,895.02	4	1,550.41	4	1,205.81	4	861.56	4	517.07	4	172.47	4	4		4		4
1/4	2,232.45	1/4	1,887.84	1/4	1,543.23	1/4	1,198.63	1/4	854.39	1/4	509.89	1/4	165.30	1/4	1/4		1/4		1/4
1/2	2,225.27	1/2	1,880.66	1/2	1,536.06	1/2	1,191.45	1/2	847.23	1/2	502.71	1/2	158.12	1/2	1/2		1/2		1/2
3/4	2,218.09	3/4	1,873.48	3/4	1,528.88	3/4	1,184.27	3/4	840.06	3/4	495.53	3/4	150.94	3/4	3/4		3/4		3/4
5	2,210.91	5	1,866.30	5	1,521.70	5	1,177.09	5	832.89	5	488.35	5	143.76	5	5		5		5
1/4	2,203.73	1/4	1,859.12	1/4	1,514.52	1/4	1,169.91	1/4	825.73	1/4	481.17	1/4	136.58	1/4	1/4		1/4		1/4
1/2	2,196.55	1/2	1,851.94	1/2	1,507.34	1/2	1,162.73	1/2	818.56	1/2	473.99	1/2	129.40	1/2	1/2		1/2		1/2
3/4	2,189.37	3/4	1,844.77	3/4	1,500.16	3/4	1,155.55	3/4	811.39	3/4	466.81	3/4	122.23	3/4	3/4		3/4		3/4
6	2,182.19	6	1,837.59	6	1,492.98	6	1,148.37	6	804.21	6	459.63	6	115.06	6	6		6		6
1/4	2,175.01	1/4	1,830.41	1/4	1,485.80	1/4	1,141.19	1/4	797.04	1/4	452.46	1/4	107.88	1/4	1/4		1/4		1/4
1/2	2,167.83	1/2	1,823.23	1/2	1,478.62	1/2	1,134.01	1/2	789.87	1/2	445.28	1/2	100.71	1/2	1/2		1/2		1/2
3/4	2,160.65	3/4	1,816.05	3/4	1,471.44	3/4	1,126.84	3/4	782.69	3/4	438.10	3/4	93.55	3/4	3/4		3/4		3/4
7	2,153.48	7	1,808.87	7	1,464.26	7	1,119.66	7	775.51	7	430.92	7	86.40	7	7		7		7
1/4	2,146.30	1/4	1,801.69	1/4	1,457.08	1/4	1,112.48	1/4	768.33	1/4	423.74	1/4	79.24	1/4	1/4		1/4		1/4
1/2	2,139.12	1/2	1,794.51	1/2	1,449.90	1/2	1,105.30	1/2	761.15	1/2	416.56	1/2	72.08	1/2	1/2		1/2		1/2
3/4	2,131.94	3/4	1,787.33	3/4	1,442.72	3/4	1,098.12	3/4	753.97	3/4	409.38	3/4	65.37	3/4	3/4		3/4		3/4
8	2,124.76	8	1,780.15	8	1,435.55	8	1,090.94	8	746.79	8	402.20	8	58.66	8	8		8		8
1/4	2,117.58	1/4	1,772.97	1/4	1,428.37	1/4	1,083.77	1/4	739.62	1/4	395.02	1/4	51.95	1/4	1/4		1/4		1/4
1/2	2,110.40	1/2	1,765.79	1/2	1,421.19	1/2	1,076.59	1/2	732.44	1/2	387.84	1/2	45.23	1/2	1/2		1/2		1/2
3/4	2,103.22	3/4	1,758.61	3/4	1,414.01	3/4	1,069.42	3/4	725.26	3/4	380.67	3/4	39.85	3/4	3/4		3/4		3/4
9	2,096.04	9	1,751.43	9	1,406.83	9	1,062.24	9	718.08	9	373.49	9	34.47	9	9		9		9
1/4	2,088.86	1/4	1,744.26	1/4	1,399.65	1/4	1,055.07	1/4	710.90	1/4	366.31	1/4	29.08	1/4	1/4		1/4		1/4
1/2	2,081.68	1/2	1,737.08	1/2	1,392.47	1/2	1,047.90	1/2	703.72	1/2	359.13	1/2	23.70	1/2	1/2		1/2		1/2
3/4	2,074.50	3/4	1,729.90	3/4	1,385.29	3/4	1,040.73	3/4	696.54	3/4	351.95	3/4		3/4	3/4		3/4		3/4
10	2,067.32	10	1,722.72	10	1,378.11	10	1,033.56	10	689.36	10	344.77	10		10	10		10		10
1/4	2,060.14	1/4	1,715.54	1/4	1,370.93	1/4	1,026.39	1/4	682.18	1/4	337.59	1/4		1/4	1/4		1/4		1/4
1/2	2,052.97	1/2	1,708.36	1/2	1,363.75	1/2	1,019.22	1/2	675.00	1/2	330.41	1/2		1/2	1/2		1/2		1/2
3/4	2,045.79	3/4	1,701.18	3/4	1,356.57	3/4	1,012.05	3/4	667.83	3/4	323.23	3/4		3/4	3/4		3/4		3/4
11	2,038.61	11	1,694.00	11	1,349.39	11	1,004.88	11	660.65	11	316.05	11		11	11		11		11
1/4	2,031.43	1/4	1,686.82	1/4	1,342.21	1/4	997.72	1/4	653.47	1/4	308.88	1/4		1/4	1/4		1/4		1/4
1/2	2,024.25	1/2	1,679.64	1/2	1,335.04	1/2	990.55	1/2	646.29	1/2	301.70	1/2		1/2	1/2		1/2		1/2
3/4	2,017.07	3/4	1,672.46	3/4	1,327.86	3/4	983.39	3/4	639.11	3/4	294.52	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

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



# BARGE "KIRBY 29086"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-08 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0		
0							4,542.99		4,316.81		4,075.74		3,824.25		3,542.14		3,179.07		2,815.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,538.42	1/4	4,311.93	1/4	4,070.56	1/4	3,819.01	1/4	3,534.58	1/4	3,171.49	1/4	2,807.74		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,533.86	1/2	4,307.05	1/2	4,065.37	1/2	3,813.76	1/2	3,527.03	1/2	3,163.91	1/2	2,800.16		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,529.30	3/4	4,302.17	3/4	4,060.19	3/4	3,808.51	3/4	3,519.47	3/4	3,156.34	3/4	2,792.58		
1	1	1	1	1	1	1	4,524.71	1	4,297.27	1	4,054.98	1	3,803.26	1	3,511.91	1	3,148.76	1	2,785.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,520.12	1/4	4,292.37	1/4	4,049.78	1/4	3,798.01	1/4	3,504.36	1/4	3,141.18	1/4	2,777.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,515.54	1/2	4,287.47	1/2	4,044.57	1/2	3,792.76	1/2	3,496.80	1/2	3,133.61	1/2	2,769.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,510.95	3/4	4,282.57	3/4	4,039.37	3/4	3,787.51	3/4	3,489.25	3/4	3,126.03	3/4	2,762.27		
2	2	2	2	2	2	2	4,506.34	2	4,277.64	2	4,034.14	2	3,782.26	2	3,481.69	2	3,118.45	2	2,754.69		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,501.73	1/4	4,272.72	1/4	4,028.91	1/4	3,777.01	1/4	3,474.13	1/4	3,110.88	1/4	2,747.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,497.12	1/2	4,267.79	1/2	4,023.68	1/2	3,771.76	1/2	3,466.58	1/2	3,103.30	1/2	2,739.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,492.51	3/4	4,262.87	3/4	4,018.45	3/4	3,766.51	3/4	3,459.02	3/4	3,095.72	3/4	2,731.95		
3	3	3	3	3	3	3	4,487.87	3	4,257.92	3	4,013.21	3	3,761.27	3	3,451.47	3	3,088.15	3	2,724.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,483.23	1/4	4,252.97	1/4	4,007.96	1/4	3,756.02	1/4	3,443.91	1/4	3,080.57	1/4	2,716.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,478.60	1/2	4,248.02	1/2	4,002.72	1/2	3,750.77	1/2	3,436.36	1/2	3,072.99	1/2	2,709.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,473.96	3/4	4,243.08	3/4	3,997.48	3/4	3,745.52	3/4	3,428.80	3/4	3,065.42	3/4	2,701.63		
4	4	4	4	4	4	4	4,469.30	4	4,238.10	4	3,992.23	4	3,740.27	4	3,421.24	4	3,057.84	4	2,694.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,464.64	1/4	4,233.13	1/4	3,986.98	1/4	3,735.02	1/4	3,413.69	1/4	3,050.27	1/4	2,686.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,459.98	1/2	4,228.16	1/2	3,981.73	1/2	3,729.77	1/2	3,406.13	1/2	3,042.69	1/2	2,678.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,455.32	3/4	4,223.19	3/4	3,976.48	3/4	3,724.52	3/4	3,398.58	3/4	3,035.11	3/4	2,671.32		
5	5	5	5	5	5	5	4,450.63	5	4,218.19	5	3,971.23	5	3,719.27	5	3,391.02	5	3,027.53	5	2,663.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,445.95	1/4	4,213.20	1/4	3,965.98	1/4	3,714.02	1/4	3,383.47	1/4	3,019.96	1/4	2,656.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,441.27	1/2	4,208.20	1/2	3,960.73	1/2	3,708.77	1/2	3,375.91	1/2	3,012.38	1/2	2,648.57		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,436.58	3/4	4,203.20	3/4	3,955.48	3/4	3,703.53	3/4	3,368.35	3/4	3,004.80	3/4	2,640.99		
6	6	6	6	6	6	6	4,431.88	6	4,198.17	6	3,950.23	6	3,698.28	6	3,360.80	6	2,997.22	6	2,633.40		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,656.29	1/4	4,427.17	1/4	4,193.14	1/4	3,944.98	1/4	3,693.03	1/4	3,353.24	1/4	2,989.64	1/4	2,625.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,652.60	1/2	4,422.46	1/2	4,188.11	1/2	3,939.74	1/2	3,687.78	1/2	3,345.69	1/2	2,982.06	1/2	2,618.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,648.91	3/4	4,417.76	3/4	4,183.08	3/4	3,934.49	3/4	3,682.53	3/4	3,338.13	3/4	2,974.49	3/4	2,610.64
7	7	7	7	7	7	7	4,644.08	7	4,413.02	7	4,178.02	7	3,929.24	7	3,677.28	7	3,330.56	7	2,966.91	7	2,603.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,639.25	1/4	4,408.27	1/4	4,172.96	1/4	3,923.99	1/4	3,672.03	1/4	3,323.00	1/4	2,959.33	1/4	2,595.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,634.43	1/2	4,403.53	1/2	4,167.89	1/2	3,918.74	1/2	3,666.78	1/2	3,315.43	1/2	2,951.75	1/2	2,587.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,629.60	3/4	4,398.79	3/4	4,162.83	3/4	3,913.49	3/4	3,661.53	3/4	3,307.87	3/4	2,944.17	3/4	2,580.29
8	8	8	8	8	8	8	4,624.39	8	4,394.01	8	4,157.75	8	3,908.24	8	3,655.70	8	3,300.29	8	2,936.59	8	2,572.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,619.18	1/4	4,389.23	1/4	4,152.67	1/4	3,902.99	1/4	3,649.86	1/4	3,292.71	1/4	2,929.01	1/4	2,565.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.97	1/2	4,384.44	1/2	4,147.58	1/2	3,897.74	1/2	3,644.02	1/2	3,285.14	1/2	2,921.43	1/2	2,557.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,608.76	3/4	4,379.66	3/4	4,142.50	3/4	3,892.49	3/4	3,638.19	3/4	3,277.56	3/4	2,913.85	3/4	2,549.95
9	9	9	9	9	9	9	4,603.55	9	4,374.86	9	4,137.39	9	3,887.24	9	3,631.19	9	3,269.98	9	2,906.27	9	2,542.38
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,598.34	1/4	4,370.05	1/4	4,132.28	1/4	3,882.00	1/4	3,624.20	1/4	3,262.41	1/4	2,898.69	1/4	2,534.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,593.13	1/2	4,365.25	1/2	4,127.18	1/2	3,876.75	1/2	3,617.20	1/2	3,254.83	1/2	2,891.11	1/2	2,527.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,587.92	3/4	4,360.44	3/4	4,122.07	3/4	3,871.50	3/4	3,610.21	3/4	3,247.25	3/4	2,883.53	3/4	2,519.68
10	10	10	10	10	10	10	4,582.71	10	4,355.61	10	4,116.94	10	3,866.25	10	3,602.64	10	3,239.68	10	2,875.96	10	2,512.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,577.50	1/4	4,350.78	1/4	4,111.81	1/4	3,861.00	1/4	3,595.07	1/4	3,232.10	1/4	2,868.38	1/4	2,504.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,572.29	1/2	4,345.94	1/2	4,106.68	1/2	3,855.75	1/2	3,587.51	1/2	3,224.52	1/2	2,860.80	1/2	2,497.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,567.08	3/4	4,341.11	3/4	4,101.55	3/4	3,850.50	3/4	3,579.94	3/4	3,216.95	3/4	2,853.22	3/4	2,489.49
11	11	11	11	11	11	11	4,562.20	11	4,336.25	11	4,096.39	11	3,845.25	11	3,572.38	11	3,209.37	11	2,845.64	11	2,481.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,557.32	1/4	4,331.40	1/4	4,091.23	1/4	3,840.00	1/4	3,564.82	1/4	3,201.80	1/4	2,838.06	1/4	2,474.39
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,552.43	1/2	4,326.54	1/2	4,086.08	1/2	3,834.75	1/2	3,557.25	1/2	3,194.22	1/2	2,830.48	1/2	2,466.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,547.55	3/4	4,321.69	3/4	4,080.92	3/4	3,829.50	3/4	3,549.69	3/4	3,186.64	3/4	2,822.90	3/4	2,459.30

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29086"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-08 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	2,451.75	0	2,090.10	0	1,727.27	0	1,363.12	0	1,004.95	0	645.51	0	281.19	0		0		0	
1/4	2,444.20	1/4	2,082.58	1/4	1,719.68	1/4	1,355.53	1/4	997.59	1/4	637.92	1/4	273.60	1/4	1/4		1/4		1/4
1/2	2,436.65	1/2	2,075.05	1/2	1,712.09	1/2	1,347.94	1/2	990.24	1/2	630.33	1/2	266.01	1/2	1/2		1/2		1/2
3/4	2,429.10	3/4	2,067.53	3/4	1,704.51	3/4	1,340.36	3/4	982.88	3/4	622.74	3/4	258.43	3/4	3/4		3/4		3/4
1	2,421.56	1	2,060.01	1	1,696.92	1	1,332.77	1	975.52	1	615.15	1	250.84	1	1		1		1
1/4	2,414.01	1/4	2,052.48	1/4	1,689.33	1/4	1,325.18	1/4	968.17	1/4	607.56	1/4	243.25	1/4	1/4		1/4		1/4
1/2	2,406.46	1/2	2,044.96	1/2	1,681.75	1/2	1,317.60	1/2	960.81	1/2	599.97	1/2	235.66	1/2	1/2		1/2		1/2
3/4	2,398.91	3/4	2,037.44	3/4	1,674.16	3/4	1,310.01	3/4	953.45	3/4	592.38	3/4	228.07	3/4	3/4		3/4		3/4
2	2,391.36	2	2,029.91	2	1,666.58	2	1,302.42	2	946.10	2	584.79	2	220.47	2	2		2		2
1/4	2,383.82	1/4	2,022.39	1/4	1,658.99	1/4	1,294.84	1/4	938.74	1/4	577.20	1/4	212.88	1/4	1/4		1/4		1/4
1/2	2,376.27	1/2	2,014.86	1/2	1,651.40	1/2	1,287.25	1/2	931.38	1/2	569.60	1/2	205.29	1/2	1/2		1/2		1/2
3/4	2,368.72	3/4	2,007.34	3/4	1,643.82	3/4	1,279.66	3/4	924.03	3/4	562.01	3/4	197.70	3/4	3/4		3/4		3/4
3	2,361.17	3	1,999.82	3	1,636.23	3	1,272.08	3	916.67	3	554.42	3	190.11	3	3		3		3
1/4	2,353.62	1/4	1,992.29	1/4	1,628.64	1/4	1,264.49	1/4	909.31	1/4	546.83	1/4	182.52	1/4	1/4		1/4		1/4
1/2	2,346.08	1/2	1,984.77	1/2	1,621.06	1/2	1,256.90	1/2	901.96	1/2	539.24	1/2	174.93	1/2	1/2		1/2		1/2
3/4	2,338.53	3/4	1,977.25	3/4	1,613.47	3/4	1,249.32	3/4	894.60	3/4	531.65	3/4	167.34	3/4	3/4		3/4		3/4
4	2,330.98	4	1,969.72	4	1,605.88	4	1,241.73	4	887.24	4	524.06	4	159.75	4	4		4		4
1/4	2,323.43	1/4	1,962.20	1/4	1,598.30	1/4	1,234.14	1/4	879.89	1/4	516.47	1/4	152.16	1/4	1/4		1/4		1/4
1/2	2,315.88	1/2	1,954.68	1/2	1,590.71	1/2	1,226.56	1/2	872.53	1/2	508.88	1/2	144.56	1/2	1/2		1/2		1/2
3/4	2,308.34	3/4	1,947.15	3/4	1,583.12	3/4	1,218.97	3/4	865.17	3/4	501.29	3/4	136.97	3/4	3/4		3/4		3/4
5	2,300.80	5	1,939.60	5	1,575.54	5	1,211.49	5	857.70	5	493.70	5	129.38	5	5		5		5
1/4	2,293.26	1/4	1,932.04	1/4	1,567.95	1/4	1,204.01	1/4	850.23	1/4	486.11	1/4	121.79	1/4	1/4		1/4		1/4
1/2	2,285.73	1/2	1,924.49	1/2	1,560.36	1/2	1,196.53	1/2	842.75	1/2	478.52	1/2	114.21	1/2	1/2		1/2		1/2
3/4	2,278.19	3/4	1,916.93	3/4	1,552.78	3/4	1,189.05	3/4	835.28	3/4	470.93	3/4	106.62	3/4	3/4		3/4		3/4
6	2,270.67	6	1,909.34	6	1,545.19	6	1,181.67	6	827.69	6	463.34	6	99.04	6	6		6		6
1/4	2,263.14	1/4	1,901.76	1/4	1,537.60	1/4	1,174.29	1/4	820.10	1/4	455.75	1/4	91.46	1/4	1/4		1/4		1/4
1/2	2,255.62	1/2	1,894.17	1/2	1,530.02	1/2	1,166.92	1/2	812.51	1/2	448.16	1/2	83.89	1/2	1/2		1/2		1/2
3/4	2,248.10	3/4	1,886.58	3/4	1,522.43	3/4	1,159.54	3/4	804.92	3/4	440.57	3/4	76.31	3/4	3/4		3/4		3/4
7	2,240.57	7	1,879.00	7	1,514.85	7	1,152.17	7	797.33	7	432.98	7	69.20	7	7		7		7
1/4	2,233.05	1/4	1,871.41	1/4	1,507.26	1/4	1,144.80	1/4	789.73	1/4	425.39	1/4	62.10	1/4	1/4		1/4		1/4
1/2	2,225.53	1/2	1,863.82	1/2	1,499.67	1/2	1,137.43	1/2	782.14	1/2	417.80	1/2	54.99	1/2	1/2		1/2		1/2
3/4	2,218.00	3/4	1,856.24	3/4	1,492.09	3/4	1,130.06	3/4	774.55	3/4	410.21	3/4	47.88	3/4	3/4		3/4		3/4
8	2,210.48	8	1,848.65	8	1,484.50	8	1,122.70	8	766.96	8	402.62	8	42.18	8	8		8		8
1/4	2,202.95	1/4	1,841.06	1/4	1,476.91	1/4	1,115.33	1/4	759.37	1/4	395.03	1/4	36.48	1/4	1/4		1/4		1/4
1/2	2,195.43	1/2	1,833.48	1/2	1,469.33	1/2	1,107.97	1/2	751.78	1/2	387.45	1/2	30.78	1/2	1/2		1/2		1/2
3/4	2,187.91	3/4	1,825.89	3/4	1,461.74	3/4	1,100.60	3/4	744.19	3/4	379.86	3/4	25.07	3/4	3/4		3/4		3/4
9	2,180.38	9	1,818.31	9	1,454.15	9	1,093.24	9	736.60	9	372.27	9		9	9		9		9
1/4	2,172.86	1/4	1,810.72	1/4	1,446.57	1/4	1,085.88	1/4	729.01	1/4	364.68	1/4		1/4	1/4		1/4		1/4
1/2	2,165.34	1/2	1,803.13	1/2	1,438.98	1/2	1,078.52	1/2	721.42	1/2	357.09	1/2		1/2	1/2		1/2		1/2
3/4	2,157.81	3/4	1,795.55	3/4	1,431.39	3/4	1,071.16	3/4	713.83	3/4	349.50	3/4		3/4	3/4		3/4		3/4
10	2,150.29	10	1,787.96	10	1,423.81	10	1,063.80	10	706.24	10	341.91	10		10	10		10		10
1/4	2,142.77	1/4	1,780.37	1/4	1,416.22	1/4	1,056.45	1/4	698.65	1/4	334.32	1/4		1/4	1/4		1/4		1/4
1/2	2,135.24	1/2	1,772.79	1/2	1,408.63	1/2	1,049.09	1/2	691.06	1/2	326.73	1/2		1/2	1/2		1/2		1/2
3/4	2,127.72	3/4	1,765.20	3/4	1,401.05	3/4	1,041.73	3/4	683.46	3/4	319.14	3/4		3/4	3/4		3/4		3/4
11	2,120.20	11	1,757.61	11	1,393.46	11	1,034.38	11	675.87	11	311.55	11		11	11		11		11
1/4	2,112.67	1/4	1,750.03	1/4	1,385.87	1/4	1,027.02	1/4	668.28	1/4	303.96	1/4		1/4	1/4		1/4		1/4
1/2	2,105.15	1/2	1,742.44	1/2	1,378.29	1/2	1,019.66	1/2	660.69	1/2	296.37	1/2		1/2	1/2		1/2		1/2
3/4	2,097.62	3/4	1,734.85	3/4	1,370.70	3/4	1,012.31	3/4	653.10	3/4	288.78	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

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



# BARGE "KIRBY 29086"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 16'-09 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	4,573.38	0	4,347.54	0	4,107.12	0	3,855.83	0	3,578.32	0	3,214.55	0	2,850.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,568.50	1/4	4,342.68	1/4	4,101.96	1/4	3,850.59	1/4	3,570.75	1/4	3,206.96	1/4	2,842.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,563.94	1/2	4,337.81	1/2	4,096.78	1/2	3,845.34	1/2	3,563.18	1/2	3,199.37	1/2	2,834.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,559.38	3/4	4,332.93	3/4	4,091.60	3/4	3,840.09	3/4	3,555.61	3/4	3,191.78	3/4	2,827.30
1		1		1		1	4,554.81	1	4,328.05	1	4,086.41	1	3,834.84	1	3,548.04	1	3,184.19	1	2,819.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.25	1/4	4,323.17	1/4	4,081.23	1/4	3,829.59	1/4	3,540.47	1/4	3,176.60	1/4	2,812.11
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,545.66	1/2	4,318.27	1/2	4,076.03	1/2	3,824.35	1/2	3,532.89	1/2	3,169.00	1/2	2,804.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,541.08	3/4	4,313.37	3/4	4,070.82	3/4	3,819.10	3/4	3,525.32	3/4	3,161.41	3/4	2,796.92
2		2		2		2	4,536.49	2	4,308.47	2	4,065.62	2	3,813.85	2	3,517.75	2	3,153.82	2	2,789.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,531.91	1/4	4,303.57	1/4	4,060.41	1/4	3,808.60	1/4	3,510.18	1/4	3,146.23	1/4	2,781.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,527.30	1/2	4,298.65	1/2	4,055.19	1/2	3,803.35	1/2	3,502.61	1/2	3,138.64	1/2	2,774.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,522.69	3/4	4,293.72	3/4	4,049.96	3/4	3,798.10	3/4	3,495.04	3/4	3,131.05	3/4	2,766.54
3		3		3		3	4,518.08	3	4,288.80	3	4,044.73	3	3,792.86	3	3,487.47	3	3,123.45	3	2,758.95
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,513.47	1/4	4,283.87	1/4	4,039.50	1/4	3,787.61	1/4	3,479.90	1/4	3,115.86	1/4	2,751.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,508.83	1/2	4,278.93	1/2	4,034.26	1/2	3,782.36	1/2	3,472.33	1/2	3,108.27	1/2	2,743.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,504.20	3/4	4,273.98	3/4	4,029.01	3/4	3,777.11	3/4	3,464.75	3/4	3,100.68	3/4	2,736.16
4		4		4		4	4,499.56	4	4,269.03	4	4,023.77	4	3,771.86	4	3,457.18	4	3,093.09	4	2,728.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,494.92	1/4	4,264.09	1/4	4,018.53	1/4	3,766.62	1/4	3,449.61	1/4	3,085.49	1/4	2,720.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,490.26	1/2	4,259.11	1/2	4,013.28	1/2	3,761.37	1/2	3,442.04	1/2	3,077.90	1/2	2,713.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,485.61	3/4	4,254.14	3/4	4,008.03	3/4	3,756.12	3/4	3,434.47	3/4	3,070.31	3/4	2,705.78
5		5		5		5	4,480.95	5	4,249.17	5	4,002.78	5	3,750.87	5	3,426.90	5	3,062.72	5	2,698.19
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,476.29	1/4	4,244.20	1/4	3,997.53	1/4	3,745.62	1/4	3,419.33	1/4	3,055.13	1/4	2,690.60
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,471.60	1/2	4,239.21	1/2	3,992.28	1/2	3,740.38	1/2	3,411.76	1/2	3,047.53	1/2	2,683.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,466.92	3/4	4,234.21	3/4	3,987.04	3/4	3,735.13	3/4	3,404.19	3/4	3,039.94	3/4	2,675.40
6		6		6		6	4,462.24	6	4,229.21	6	3,981.79	6	3,729.88	6	3,396.61	6	3,032.35	6	2,667.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,457.56	1/4	4,224.22	1/4	3,976.54	1/4	3,724.63	1/4	3,389.04	1/4	3,024.75	1/4	2,660.21
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,452.85	1/2	4,219.19	1/2	3,971.29	1/2	3,719.38	1/2	3,381.47	1/2	3,017.16	1/2	2,652.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,448.15	3/4	4,214.16	3/4	3,966.04	3/4	3,714.14	3/4	3,373.90	3/4	3,009.56	3/4	2,645.00
7		7	4,677.23	7	4,443.44	7	4,443.44	7	4,209.13	7	3,960.80	7	3,708.89	7	3,366.33	7	3,001.97	7	2,637.40
1/4	1/4	1/4	4,669.85	1/4	4,438.74	1/4	4,438.74	1/4	4,204.10	1/4	3,955.55	1/4	3,703.64	1/4	3,358.76	1/4	2,994.38	1/4	2,629.80
1/2	1/2	1/2	4,665.02	1/2	4,433.99	1/2	4,433.99	1/2	4,199.04	1/2	3,950.30	1/2	3,698.39	1/2	3,351.18	1/2	2,986.78	1/2	2,622.20
3/4	3/4	3/4	4,660.19	3/4	4,429.25	3/4	4,429.25	3/4	4,193.98	3/4	3,945.05	3/4	3,693.14	3/4	3,343.60	3/4	2,979.19	3/4	2,614.60
8		8	4,655.36	8	4,424.51	8	4,424.51	8	4,188.92	8	3,939.80	8	3,687.89	8	3,336.01	8	2,971.59	8	2,606.99
1/4	1/4	1/4	4,650.53	1/4	4,419.77	1/4	4,419.77	1/4	4,183.86	1/4	3,934.56	1/4	3,682.65	1/4	3,328.43	1/4	2,964.00	1/4	2,599.39
1/2	1/2	1/2	4,645.32	1/2	4,414.99	1/2	4,414.99	1/2	4,178.78	1/2	3,929.31	1/2	3,676.81	1/2	3,320.84	1/2	2,956.40	1/2	2,591.79
3/4	3/4	3/4	4,640.12	3/4	4,410.21	3/4	4,410.21	3/4	4,173.69	3/4	3,924.06	3/4	3,670.98	3/4	3,313.25	3/4	2,948.81	3/4	2,584.19
9		9	4,634.91	9	4,405.43	9	4,405.43	9	4,168.61	9	3,918.81	9	3,665.14	9	3,305.66	9	2,941.21	9	2,576.59
1/4	1/4	1/4	4,629.70	1/4	4,400.65	1/4	4,400.65	1/4	4,163.53	1/4	3,913.56	1/4	3,659.31	1/4	3,298.06	1/4	2,933.62	1/4	2,568.99
1/2	1/2	1/2	4,624.49	1/2	4,395.84	1/2	4,395.84	1/2	4,158.42	1/2	3,908.31	1/2	3,652.31	1/2	3,290.47	1/2	2,926.02	1/2	2,561.38
3/4	3/4	3/4	4,619.28	3/4	4,391.04	3/4	4,391.04	3/4	4,153.31	3/4	3,903.07	3/4	3,645.31	3/4	3,282.88	3/4	2,918.43	3/4	2,553.78
10		10	4,614.07	10	4,386.23	10	4,386.23	10	4,148.21	10	3,897.82	10	3,638.32	10	3,275.29	10	2,910.84	10	2,546.18
1/4	1/4	1/4	4,608.86	1/4	4,381.43	1/4	4,381.43	1/4	4,143.10	1/4	3,892.57	1/4	3,631.32	1/4	3,267.70	1/4	2,903.24	1/4	2,538.58
1/2	1/2	1/2	4,603.65	1/2	4,376.60	1/2	4,376.60	1/2	4,137.97	1/2	3,887.32	1/2	3,623.75	1/2	3,260.11	1/2	2,895.65	1/2	2,530.98
3/4	3/4	3/4	4,598.44	3/4	4,371.76	3/4	4,371.76	3/4	4,132.84	3/4	3,882.07	3/4	3,616.18	3/4	3,252.51	3/4	2,888.05	3/4	2,523.38
11		11	4,593.23	11	4,366.93	11	4,366.93	11	4,127.71	11	3,876.83	11	3,608.61	11	3,244.92	11	2,880.46	11	2,515.77
1/4	1/4	1/4	4,588.03	1/4	4,362.10	1/4	4,362.10	1/4	4,122.58	1/4	3,871.58	1/4	3,601.03	1/4	3,237.33	1/4	2,872.86	1/4	2,508.17
1/2	1/2	1/2	4,583.14	1/2	4,357.25	1/2	4,357.25	1/2	4,117.43	1/2	3,866.33	1/2	3,593.46	1/2	3,229.74	1/2	2,865.27	1/2	2,500.57
3/4	3/4	3/4	4,578.26	3/4	4,352.39	3/4	4,352.39	3/4	4,112.27	3/4	3,861.08	3/4	3,585.89	3/4	3,222.15	3/4	2,857.67	3/4	2,492.97

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 AT 2" DIAMETER OPENING ON "HERMETIC" CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 43'-09" 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 29086"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 4'-11"

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

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

STRAPPED: 09/09/2013 CL - SW  
NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "KIRBY 29086"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 4'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,210	0	4,199	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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

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NAME CHANGE: 10/13/2023 JS  
VERIFIED: 10/13/2023 JS

CANCELS AND SUPERCEDES  
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P.O. Box 2092  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29086"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "CTCo 314"

GAUGE HEIGHT 4'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,079	0	2,158	0	3,210	0	4,199	0		0		0		0		0	
1/4	22	1/4	1,101	1/4	2,180	1/4	3,232	1/4	4,218	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	1,124	1/2	2,203	1/2	3,253	1/2	4,238	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	1,146	3/4	2,225	3/4	3,274	3/4	4,258	3/4		3/4		3/4		3/4		3/4	
1	90	1	1,169	1	2,248	1	3,295	1	4,278	1		1		1		1		1	
1/4	112	1/4	1,191	1/4	2,270	1/4	3,316	1/4	4,298	1/4		1/4		1/4		1/4		1/4	
1/2	135	1/2	1,214	1/2	2,293	1/2	3,337	1/2	4,318	1/2		1/2		1/2		1/2		1/2	
3/4	157	3/4	1,236	3/4	2,315	3/4	3,358	3/4	4,337	3/4		3/4		3/4		3/4		3/4	
2	180	2	1,259	2	2,337	2	3,379	2	4,357	2		2		2		2		2	
1/4	202	1/4	1,281	1/4	2,360	1/4	3,400	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	225	1/2	1,304	1/2	2,382	1/2	3,421	1/2	4,396	1/2		1/2		1/2		1/2		1/2	
3/4	247	3/4	1,326	3/4	2,404	3/4	3,442	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
3	270	3	1,349	3	2,427	3	3,463	3	4,436	3		3		3		3		3	
1/4	292	1/4	1,371	1/4	2,449	1/4	3,484	1/4	4,455	1/4		1/4		1/4		1/4		1/4	
1/2	315	1/2	1,394	1/2	2,471	1/2	3,505	1/2	4,475	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	1,416	3/4	2,493	3/4	3,526	3/4	4,494	3/4		3/4		3/4		3/4		3/4	
4	360	4	1,439	4	2,516	4	3,547	4	4,514	4		4		4		4		4	
1/4	382	1/4	1,461	1/4	2,538	1/4	3,568	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	405	1/2	1,484	1/2	2,560	1/2	3,588	1/2	4,552	1/2		1/2		1/2		1/2		1/2	
3/4	427	3/4	1,506	3/4	2,582	3/4	3,609	3/4	4,572	3/4		3/4		3/4		3/4		3/4	
5	450	5	1,528	5	2,604	5	3,630	5	4,591	5		5		5		5		5	
1/4	472	1/4	1,551	1/4	2,626	1/4	3,651	1/4	4,602	1/4		1/4		1/4		1/4		1/4	
1/2	495	1/2	1,573	1/2	2,648	1/2	3,671	1/2	4,614	1/2		1/2		1/2		1/2		1/2	
3/4	517	3/4	1,596	3/4	2,670	3/4	3,692	3/4	4,625	3/4		3/4		3/4		3/4		3/4	
6	539	6	1,618	6	2,692	6	3,712	6	4,636	6		6		6		6		6	
1/4	562	1/4	1,641	1/4	2,714	1/4	3,733	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	584	1/2	1,663	1/2	2,736	1/2	3,754	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	607	3/4	1,686	3/4	2,758	3/4	3,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	629	7	1,708	7	2,780	7	3,795	7		7		7		7		7		7	
1/4	652	1/4	1,731	1/4	2,801	1/4	3,815	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	674	1/2	1,753	1/2	2,823	1/2	3,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	697	3/4	1,776	3/4	2,845	3/4	3,856	3/4		3/4		3/4		3/4		3/4		3/4	
8	719	8	1,798	8	2,867	8	3,876	8		8		8		8		8		8	
1/4	742	1/4	1,821	1/4	2,888	1/4	3,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	764	1/2	1,843	1/2	2,910	1/2	3,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	787	3/4	1,866	3/4	2,932	3/4	3,937	3/4		3/4		3/4		3/4		3/4		3/4	
9	809	9	1,888	9	2,953	9	3,958	9		9		9		9		9		9	
1/4	832	1/4	1,911	1/4	2,975	1/4	3,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	854	1/2	1,933	1/2	2,996	1/2	3,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	877	3/4	1,956	3/4	3,018	3/4	4,018	3/4		3/4		3/4		3/4		3/4		3/4	
10	899	10	1,978	10	3,039	10	4,038	10		10		10		10		10		10	
1/4	922	1/4	2,000	1/4	3,061	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	2,023	1/2	3,082	1/2	4,078	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,045	3/4	3,104	3/4	4,099	3/4		3/4		3/4		3/4		3/4		3/4	
11	989	11	2,068	11	3,125	11	4,119	11		11		11		11		11		11	
1/4	1,011	1/4	2,090	1/4	3,146	1/4	4,139	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,034	1/2	2,113	1/2	3,168	1/2	4,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,056	3/4	2,135	3/4	3,189	3/4	4,179	3/4		3/4		3/4		3/4		3/4		3/4	

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