



# BARGE "KIRBY 27017"

ULLAGE TRIM TABLE  
FORMERLY: CTCO 356

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-06"

September 8, 2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 27017"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 1/2"

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	4,145.86	0	3,883.49	0	3,594.65	0	3,284.43	0	2,956.04	0	2,624.76	0	2,293.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,139.40	1/4	3,877.71	1/4	3,588.38	1/4	3,277.75	1/4	2,949.14	1/4	2,617.86	1/4	2,286.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,132.94	1/2	3,871.92	1/2	3,582.12	1/2	3,271.07	1/2	2,942.24	1/2	2,610.96	1/2	2,279.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,127.93	3/4	3,866.09	3/4	3,575.83	3/4	3,264.36	3/4	2,935.33	3/4	2,604.06	3/4	2,272.78		
1		1		1		1	4,122.91	1	3,860.27	1	3,569.54	1	3,257.65	1	2,928.43	1	2,597.16	1	2,265.88		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,117.90	1/4	3,854.44	1/4	3,563.25	1/4	3,250.94	1/4	2,921.53	1/4	2,590.25	1/4	2,258.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,112.89	1/2	3,848.61	1/2	3,556.96	1/2	3,244.23	1/2	2,914.63	1/2	2,583.35	1/2	2,252.08		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,107.85	3/4	3,842.76	3/4	3,550.64	3/4	3,237.47	3/4	2,907.73	3/4	2,576.45	3/4	2,245.17		
2		2		2		2	4,102.81	2	3,836.90	2	3,544.31	2	3,230.72	2	2,900.83	2	2,569.55	2	2,238.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,097.77	1/4	3,831.04	1/4	3,537.99	1/4	3,223.97	1/4	2,893.93	1/4	2,562.65	1/4	2,231.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,092.72	1/2	3,825.18	1/2	3,531.67	1/2	3,217.21	1/2	2,887.02	1/2	2,555.75	1/2	2,224.47		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,087.64	3/4	3,819.28	3/4	3,525.31	3/4	3,210.43	3/4	2,880.12	3/4	2,548.85	3/4	2,217.57		
3		3		3		3	4,082.55	3	3,813.38	3	3,518.94	3	3,203.65	3	2,873.22	3	2,541.94	3	2,210.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,077.47	1/4	3,807.48	1/4	3,512.58	1/4	3,196.86	1/4	2,866.32	1/4	2,535.04	1/4	2,203.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,072.38	1/2	3,801.58	1/2	3,506.22	1/2	3,190.08	1/2	2,859.42	1/2	2,528.14	1/2	2,196.86		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,067.27	3/4	3,795.65	3/4	3,499.84	3/4	3,183.27	3/4	2,852.52	3/4	2,521.24	3/4	2,189.96		
4		4		4		4	4,062.16	4	3,789.73	4	3,493.45	4	3,176.45	4	2,845.61	4	2,514.34	4	2,183.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,057.04	1/4	3,783.80	1/4	3,487.07	1/4	3,169.64	1/4	2,838.71	1/4	2,507.44	1/4	2,176.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,051.93	1/2	3,777.87	1/2	3,480.68	1/2	3,162.82	1/2	2,831.81	1/2	2,500.53	1/2	2,169.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,046.78	3/4	3,771.88	3/4	3,474.26	3/4	3,155.97	3/4	2,824.91	3/4	2,493.63	3/4	2,162.36		
5		5		5		5	4,041.64	5	3,765.90	5	3,467.83	5	3,149.12	5	2,818.01	5	2,486.73	5	2,155.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,036.49	1/4	3,759.92	1/4	3,461.41	1/4	3,142.26	1/4	2,811.11	1/4	2,479.83	1/4	2,148.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,031.35	1/2	3,753.94	1/2	3,454.98	1/2	3,135.41	1/2	2,804.20	1/2	2,472.93	1/2	2,141.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,025.76	3/4	3,747.93	3/4	3,448.53	3/4	3,128.53	3/4	2,797.30	3/4	2,466.03	3/4	2,134.75		
6		6		6		6	4,020.17	6	3,741.91	6	3,442.07	6	3,121.64	6	2,790.40	6	2,459.12	6	2,127.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,014.58	1/4	3,735.90	1/4	3,435.62	1/4	3,114.76	1/4	2,783.50	1/4	2,452.22	1/4	2,120.95		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,288.43	1/2	4,008.99	1/2	3,729.89	1/2	3,429.16	1/2	3,107.87	1/2	2,776.60	1/2	2,445.32	1/2	2,114.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,281.93	3/4	4,003.37	3/4	3,723.85	3/4	3,422.66	3/4	3,100.97	3/4	2,769.70	3/4	2,438.42	3/4	2,107.14
7		7		7		7	4,275.44	7	3,997.74	7	3,717.81	7	3,416.16	7	3,094.07	7	2,762.79	7	2,431.52	7	2,100.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,268.94	1/4	3,992.12	1/4	3,711.77	1/4	3,409.66	1/4	3,087.17	1/4	2,755.89	1/4	2,424.62	1/4	2,093.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,262.45	1/2	3,986.50	1/2	3,705.72	1/2	3,403.17	1/2	3,080.27	1/2	2,748.99	1/2	2,417.71	1/2	2,086.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,255.95	3/4	3,980.84	3/4	3,699.64	3/4	3,396.64	3/4	3,073.37	3/4	2,742.09	3/4	2,410.81	3/4	2,079.54
8		8		8		8	4,249.45	8	3,975.17	8	3,693.56	8	3,390.11	8	3,066.47	8	2,735.19	8	2,403.91	8	2,072.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,242.96	1/4	3,969.51	1/4	3,687.48	1/4	3,383.58	1/4	3,059.56	1/4	2,728.29	1/4	2,397.01	1/4	2,065.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,236.46	1/2	3,963.85	1/2	3,681.40	1/2	3,377.06	1/2	3,052.66	1/2	2,721.39	1/2	2,390.11	1/2	2,058.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,229.97	3/4	3,958.15	3/4	3,675.25	3/4	3,370.49	3/4	3,045.76	3/4	2,714.48	3/4	2,383.21	3/4	2,051.93
9		9		9		9	4,223.47	9	3,952.46	9	3,669.10	9	3,363.92	9	3,038.86	9	2,707.58	9	2,376.31	9	2,045.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,216.97	1/4	3,946.77	1/4	3,662.95	1/4	3,357.35	1/4	3,031.96	1/4	2,700.68	1/4	2,369.40	1/4	2,038.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,210.48	1/2	3,941.07	1/2	3,656.80	1/2	3,350.78	1/2	3,025.06	1/2	2,693.78	1/2	2,362.50	1/2	2,031.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,204.02	3/4	3,935.34	3/4	3,650.61	3/4	3,344.18	3/4	3,018.15	3/4	2,686.88	3/4	2,355.60	3/4	2,024.32
10		10		10		10	4,197.55	10	3,929.60	10	3,644.43	10	3,337.57	10	3,011.25	10	2,679.98	10	2,348.70	10	2,017.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,191.09	1/4	3,923.86	1/4	3,638.24	1/4	3,330.96	1/4	3,004.35	1/4	2,673.07	1/4	2,341.80	1/4	2,010.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,184.63	1/2	3,918.13	1/2	3,632.05	1/2	3,324.35	1/2	2,997.45	1/2	2,666.17	1/2	2,334.90	1/2	2,003.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,178.17	3/4	3,912.36	3/4	3,625.83	3/4	3,317.71	3/4	2,990.55	3/4	2,659.27	3/4	2,327.99	3/4	1,996.72
11		11		11		11	4,171.71	11	3,906.60	11	3,619.61	11	3,311.07	11	2,983.65	11	2,652.37	11	2,321.09	11	1,989.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,165.25	1/4	3,900.83	1/4	3,613.39	1/4	3,304.43	1/4	2,976.74	1/4	2,645.47	1/4	2,314.19	1/4	1,982.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,158.78	1/2	3,895.07	1/2	3,607.17	1/2	3,297.79	1/2	2,969.84	1/2	2,638.57	1/2	2,307.29	1/2	1,976.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,152.32	3/4	3,889.28	3/4	3,600.91	3/4	3,291.11	3/4	2,962.94	3/4	2,631.66	3/4	2,300.39	3/4	1,969.11

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 44'-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 27017"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	1,962.21	0	1,630.93	0	1,299.66	0	968.90	0	653.99	0	363.77	0	95.23	0		0		0	
1/4	1,955.31	1/4	1,624.03	1/4	1,292.75	1/4	962.10	1/4	647.67	1/4	357.96	1/4	89.87	1/4	1/4		1/4	1/4	
1/2	1,948.41	1/2	1,617.13	1/2	1,285.85	1/2	955.30	1/2	641.35	1/2	352.15	1/2	84.52	1/2	1/2		1/2	1/2	
3/4	1,941.50	3/4	1,610.23	3/4	1,278.95	3/4	948.54	3/4	635.07	3/4	346.37	3/4	79.20	3/4	3/4		3/4	3/4	
1	1,934.60	1	1,603.33	1	1,272.05	1	941.78	1	628.79	1	340.60	1	73.88	1	1		1	1	
1/4	1,927.70	1/4	1,596.42	1/4	1,265.15	1/4	935.01	1/4	622.51	1/4	334.82	1/4	68.56	1/4	1/4		1/4	1/4	
1/2	1,920.80	1/2	1,589.52	1/2	1,258.25	1/2	928.25	1/2	616.23	1/2	329.05	1/2	63.25	1/2	1/2		1/2	1/2	
3/4	1,913.90	3/4	1,582.62	3/4	1,251.34	3/4	921.53	3/4	610.02	3/4	323.29	3/4	57.97	3/4	3/4		3/4	3/4	
2	1,907.00	2	1,575.72	2	1,244.44	2	914.81	2	603.82	2	317.53	2	52.69	2	2		2	2	
1/4	1,900.09	1/4	1,568.82	1/4	1,237.54	1/4	908.09	1/4	597.61	1/4	311.77	1/4	47.42	1/4	1/4		1/4	1/4	
1/2	1,893.19	1/2	1,561.92	1/2	1,230.64	1/2	901.37	1/2	591.40	1/2	306.02	1/2	42.14	1/2	1/2		1/2	1/2	
3/4	1,886.29	3/4	1,555.01	3/4	1,223.74	3/4	894.69	3/4	585.24	3/4	300.30	3/4	37.77	3/4	3/4		3/4	3/4	
3	1,879.39	3	1,548.11	3	1,216.84	3	888.01	3	579.08	3	294.58	3	33.39	3	3		3	3	
1/4	1,872.49	1/4	1,541.21	1/4	1,209.93	1/4	881.33	1/4	572.92	1/4	288.86	1/4	29.02	1/4	1/4		1/4	1/4	
1/2	1,865.59	1/2	1,534.31	1/2	1,203.03	1/2	874.65	1/2	566.76	1/2	283.14	1/2	24.64	1/2	1/2		1/2	1/2	
3/4	1,858.69	3/4	1,527.41	3/4	1,196.13	3/4	868.00	3/4	560.64	3/4	277.47	3/4	22.03	3/4	3/4		3/4	3/4	
4	1,851.78	4	1,520.51	4	1,189.23	4	861.36	4	554.52	4	271.79	4	19.42	4	4		4	4	
1/4	1,844.88	1/4	1,513.61	1/4	1,182.33	1/4	854.72	1/4	548.40	1/4	266.11	1/4	16.82	1/4	1/4		1/4	1/4	
1/2	1,837.98	1/2	1,506.70	1/2	1,175.43	1/2	848.08	1/2	542.28	1/2	260.43	1/2	14.20	1/2	1/2		1/2	1/2	
3/4	1,831.08	3/4	1,499.80	3/4	1,168.53	3/4	841.48	3/4	536.20	3/4	254.79	3/4		3/4	3/4		3/4	3/4	
5	1,824.18	5	1,492.90	5	1,161.62	5	834.88	5	530.13	5	249.16	5		5	5		5	5	
1/4	1,817.28	1/4	1,486.00	1/4	1,154.72	1/4	828.28	1/4	524.05	1/4	243.52	1/4		1/4	1/4		1/4	1/4	
1/2	1,810.37	1/2	1,479.10	1/2	1,147.82	1/2	821.68	1/2	517.97	1/2	237.88	1/2		1/2	1/2		1/2	1/2	
3/4	1,803.47	3/4	1,472.20	3/4	1,140.92	3/4	815.12	3/4	511.93	3/4	232.28	3/4		3/4	3/4		3/4	3/4	
6	1,796.57	6	1,465.29	6	1,134.02	6	808.56	6	505.89	6	226.69	6		6	6		6	6	
1/4	1,789.67	1/4	1,458.39	1/4	1,127.12	1/4	802.00	1/4	499.85	1/4	221.09	1/4		1/4	1/4		1/4	1/4	
1/2	1,782.77	1/2	1,451.49	1/2	1,120.21	1/2	795.44	1/2	493.81	1/2	215.49	1/2		1/2	1/2		1/2	1/2	
3/4	1,775.87	3/4	1,444.59	3/4	1,113.31	3/4	788.92	3/4	487.81	3/4	209.93	3/4		3/4	3/4		3/4	3/4	
7	1,768.96	7	1,437.69	7	1,106.41	7	782.40	7	481.81	7	204.37	7		7	7		7	7	
1/4	1,762.06	1/4	1,430.79	1/4	1,099.51	1/4	775.87	1/4	475.81	1/4	198.82	1/4		1/4	1/4		1/4	1/4	
1/2	1,755.16	1/2	1,423.88	1/2	1,092.61	1/2	769.35	1/2	469.81	1/2	193.26	1/2		1/2	1/2		1/2	1/2	
3/4	1,748.26	3/4	1,416.98	3/4	1,085.71	3/4	762.87	3/4	463.85	3/4	187.74	3/4		3/4	3/4		3/4	3/4	
8	1,741.36	8	1,410.08	8	1,078.80	8	756.39	8	457.90	8	182.22	8		8	8		8	8	
1/4	1,734.46	1/4	1,403.18	1/4	1,071.90	1/4	749.91	1/4	451.94	1/4	176.71	1/4		1/4	1/4		1/4	1/4	
1/2	1,727.55	1/2	1,396.28	1/2	1,065.00	1/2	743.43	1/2	445.98	1/2	171.19	1/2		1/2	1/2		1/2	1/2	
3/4	1,720.65	3/4	1,389.38	3/4	1,058.10	3/4	736.99	3/4	440.06	3/4	165.71	3/4		3/4	3/4		3/4	3/4	
9	1,713.75	9	1,382.47	9	1,051.20	9	730.55	9	434.14	9	160.24	9		9	9		9	9	
1/4	1,706.85	1/4	1,375.57	1/4	1,044.30	1/4	724.11	1/4	428.22	1/4	154.76	1/4		1/4	1/4		1/4	1/4	
1/2	1,699.95	1/2	1,368.67	1/2	1,037.39	1/2	717.67	1/2	422.30	1/2	149.28	1/2		1/2	1/2		1/2	1/2	
3/4	1,693.05	3/4	1,361.77	3/4	1,030.51	3/4	711.27	3/4	416.42	3/4	143.84	3/4		3/4	3/4		3/4	3/4	
10	1,686.15	10	1,354.87	10	1,023.63	10	704.87	10	410.54	10	138.41	10		10	10		10	10	
1/4	1,679.24	1/4	1,347.97	1/4	1,016.75	1/4	698.47	1/4	404.67	1/4	132.97	1/4		1/4	1/4		1/4	1/4	
1/2	1,672.34	1/2	1,341.07	1/2	1,009.87	1/2	692.07	1/2	398.79	1/2	127.53	1/2		1/2	1/2		1/2	1/2	
3/4	1,665.44	3/4	1,334.16	3/4	1,003.03	3/4	685.71	3/4	392.94	3/4	122.13	3/4		3/4	3/4		3/4	3/4	
11	1,658.54	11	1,327.26	11	996.19	11	679.35	11	387.09	11	116.74	11		11	11		11	11	
1/4	1,651.64	1/4	1,320.36	1/4	989.34	1/4	672.99	1/4	381.25	1/4	111.34	1/4		1/4	1/4		1/4	1/4	
1/2	1,644.74	1/2	1,313.46	1/2	982.50	1/2	666.63	1/2	375.40	1/2	105.94	1/2		1/2	1/2		1/2	1/2	
3/4	1,637.83	3/4	1,306.56	3/4	975.70	3/4	660.31	3/4	369.59	3/4	100.59	3/4		3/4	3/4		3/4	3/4	

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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 27017"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 1/2"

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	IN	0
1/4	1,956.04	1/4	1,624.81	1/4	1,293.59	1/4	962.98	1/4	648.61	1/4	357.95	1/4	89.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,949.14	1/2	1,617.91	1/2	1,286.68	1/2	956.18	1/2	642.29	1/2	352.11	1/2	84.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,942.24	3/4	1,611.01	3/4	1,279.78	3/4	949.42	3/4	636.01	3/4	346.31	3/4	79.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	1,935.34	1	1,604.11	1	1,272.88	1	942.66	1	629.73	1	340.52	1	73.85	1	1	1	1	1	1	1	
1/4	1,928.44	1/4	1,597.21	1/4	1,265.98	1/4	935.90	1/4	623.45	1/4	334.72	1/4	68.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,921.54	1/2	1,590.31	1/2	1,259.08	1/2	929.14	1/2	617.17	1/2	328.92	1/2	63.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,914.64	3/4	1,583.41	3/4	1,252.18	3/4	922.42	3/4	610.94	3/4	323.17	3/4	57.94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
2	1,907.74	2	1,576.51	2	1,245.28	2	915.70	2	604.72	2	317.41	2	52.67	2	2	2	2	2	2	2	
1/4	1,900.84	1/4	1,569.61	1/4	1,238.38	1/4	908.98	1/4	598.49	1/4	311.65	1/4	47.39	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,893.94	1/2	1,562.71	1/2	1,231.48	1/2	902.26	1/2	592.26	1/2	305.90	1/2	42.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,887.04	3/4	1,555.81	3/4	1,224.58	3/4	895.58	3/4	586.07	3/4	300.18	3/4	37.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
3	1,880.14	3	1,548.91	3	1,217.68	3	888.90	3	579.89	3	294.47	3	33.37	3	3	3	3	3	3	3	
1/4	1,873.24	1/4	1,542.01	1/4	1,210.78	1/4	882.22	1/4	573.71	1/4	288.75	1/4	29.00	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,866.34	1/2	1,535.11	1/2	1,203.88	1/2	875.54	1/2	567.53	1/2	283.03	1/2	24.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,859.43	3/4	1,528.21	3/4	1,196.98	3/4	868.90	3/4	561.39	3/4	277.36	3/4	22.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
4	1,852.53	4	1,521.31	4	1,190.08	4	862.26	4	555.24	4	271.68	4	19.42	4	4	4	4	4	4	4	
1/4	1,845.63	1/4	1,514.40	1/4	1,183.18	1/4	855.62	1/4	549.10	1/4	266.00	1/4	16.81	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,838.73	1/2	1,507.50	1/2	1,176.28	1/2	848.98	1/2	542.96	1/2	260.33	1/2	14.20	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,831.83	3/4	1,500.60	3/4	1,169.37	3/4	842.38	3/4	536.86	3/4	254.69	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
5	1,824.93	5	1,493.70	5	1,162.47	5	835.78	5	530.75	5	249.06	5		5	5	5	5	5	5	5	
1/4	1,818.03	1/4	1,486.80	1/4	1,155.57	1/4	829.18	1/4	524.65	1/4	243.42	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,811.13	1/2	1,479.90	1/2	1,148.67	1/2	822.58	1/2	518.55	1/2	237.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,804.23	3/4	1,473.00	3/4	1,141.77	3/4	816.02	3/4	512.49	3/4	232.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
6	1,797.33	6	1,466.10	6	1,134.87	6	809.46	6	506.43	6	226.59	6		6	6	6	6	6	6	6	
1/4	1,790.43	1/4	1,459.20	1/4	1,127.97	1/4	802.90	1/4	500.36	1/4	221.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,783.53	1/2	1,452.30	1/2	1,121.07	1/2	796.34	1/2	494.30	1/2	215.40	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,776.63	3/4	1,445.40	3/4	1,114.17	3/4	789.82	3/4	488.28	3/4	209.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
7	1,769.73	7	1,438.50	7	1,107.27	7	783.30	7	482.26	7	204.29	7		7	7	7	7	7	7	7	
1/4	1,762.83	1/4	1,431.60	1/4	1,100.37	1/4	776.78	1/4	476.24	1/4	198.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,755.93	1/2	1,424.70	1/2	1,093.47	1/2	770.27	1/2	470.22	1/2	193.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,749.03	3/4	1,417.80	3/4	1,086.57	3/4	763.79	3/4	464.24	3/4	187.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
8	1,742.12	8	1,410.90	8	1,079.67	8	757.31	8	458.26	8	182.15	8		8	8	8	8	8	8	8	
1/4	1,735.22	1/4	1,404.00	1/4	1,072.77	1/4	750.83	1/4	452.28	1/4	176.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,728.32	1/2	1,397.09	1/2	1,065.87	1/2	744.35	1/2	446.30	1/2	171.12	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,721.42	3/4	1,390.19	3/4	1,058.97	3/4	737.91	3/4	440.36	3/4	165.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
9	1,714.52	9	1,383.29	9	1,052.06	9	731.47	9	434.41	9	160.17	9		9	9	9	9	9	9	9	
1/4	1,707.62	1/4	1,376.39	1/4	1,045.16	1/4	725.03	1/4	428.47	1/4	154.69	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,700.72	1/2	1,369.49	1/2	1,038.26	1/2	718.59	1/2	422.53	1/2	149.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,693.82	3/4	1,362.59	3/4	1,031.38	3/4	712.19	3/4	416.63	3/4	143.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
10	1,686.92	10	1,355.69	10	1,024.50	10	705.79	10	410.73	10	138.35	10		10	10	10	10	10	10	10	
1/4	1,680.02	1/4	1,348.79	1/4	1,017.62	1/4	699.40	1/4	404.83	1/4	132.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,673.12	1/2	1,341.89	1/2	1,010.74	1/2	693.00	1/2	398.93	1/2	127.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,666.22	3/4	1,334.99	3/4	1,003.90	3/4	686.64	3/4	393.06	3/4	122.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	
11	1,659.32	11	1,328.09	11	997.06	11	680.28	11	387.19	11	116.69	11		11	11	11	11	11	11	11	
1/4	1,652.42	1/4	1,321.19	1/4	990.22	1/4	673.92	1/4	381.32	1/4	111.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	1,645.52	1/2	1,314.29	1/2	983.38	1/2	667.56	1/2	375.45	1/2	105.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	1,638.62	3/4	1,307.39	3/4	976.58	3/4	661.24	3/4	369.62	3/4	100.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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



# BARGE "KIRBY 27017"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 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	5,024.07	0	4,715.98	0	4,378.22	0	4,015.35	0	3,630.94	0	3,242.91	0	2,854.89
1/4		1/4		1/4		1/4	5,016.50	1/4	4,709.20	1/4	4,370.88	1/4	4,007.52	1/4	3,622.86	1/4	3,234.83	1/4	2,846.80
1/2		1/2		1/2		1/2	5,008.93	1/2	4,702.43	1/2	4,363.55	1/2	3,999.70	1/2	3,614.77	1/2	3,226.75	1/2	2,838.72
3/4		3/4		3/4		3/4	5,001.36	3/4	4,695.65	3/4	4,356.21	3/4	3,991.87	3/4	3,606.69	3/4	3,218.66	3/4	2,830.63
1		1		1		1	4,995.50	1	4,688.82	1	4,348.84	1	3,984.01	1	3,598.60	1	3,210.58	1	2,822.55
1/4		1/4		1/4		1/4	4,989.63	1/4	4,682.00	1/4	4,341.48	1/4	3,976.15	1/4	3,590.52	1/4	3,202.49	1/4	2,814.47
1/2		1/2		1/2		1/2	4,983.76	1/2	4,675.18	1/2	4,334.11	1/2	3,968.29	1/2	3,582.44	1/2	3,194.41	1/2	2,806.38
3/4		3/4		3/4		3/4	4,977.89	3/4	4,668.35	3/4	4,326.74	3/4	3,960.43	3/4	3,574.35	3/4	3,186.33	3/4	2,798.30
2		2		2		2	4,971.98	2	4,661.49	2	4,319.33	2	3,952.52	2	3,566.27	2	3,178.24	2	2,790.21
1/4		1/4		1/4		1/4	4,966.08	1/4	4,654.63	1/4	4,311.93	1/4	3,944.61	1/4	3,558.19	1/4	3,170.16	1/4	2,782.13
1/2		1/2		1/2		1/2	4,960.17	1/2	4,647.77	1/2	4,304.52	1/2	3,936.70	1/2	3,550.10	1/2	3,162.07	1/2	2,774.05
3/4		3/4		3/4		3/4	4,954.26	3/4	4,640.90	3/4	4,297.12	3/4	3,928.79	3/4	3,542.02	3/4	3,153.99	3/4	2,765.96
3		3		3		3	4,948.31	3	4,633.99	3	4,289.66	3	3,920.84	3	3,533.93	3	3,145.91	3	2,757.88
1/4		1/4		1/4		1/4	4,942.35	1/4	4,627.09	1/4	4,282.21	1/4	3,912.90	1/4	3,525.85	1/4	3,137.82	1/4	2,749.80
1/2		1/2		1/2		1/2	4,936.40	1/2	4,620.18	1/2	4,274.76	1/2	3,904.95	1/2	3,517.77	1/2	3,129.74	1/2	2,741.71
3/4		3/4		3/4		3/4	4,930.44	3/4	4,613.27	3/4	4,267.31	3/4	3,897.01	3/4	3,509.68	3/4	3,121.65	3/4	2,733.63
4		4		4		4	4,924.45	4	4,606.32	4	4,259.83	4	3,889.03	4	3,501.60	4	3,113.57	4	2,725.54
1/4		1/4		1/4		1/4	4,918.46	1/4	4,599.38	1/4	4,252.35	1/4	3,881.05	1/4	3,493.51	1/4	3,105.49	1/4	2,717.46
1/2		1/2		1/2		1/2	4,912.47	1/2	4,592.43	1/2	4,244.87	1/2	3,873.06	1/2	3,485.43	1/2	3,097.40	1/2	2,709.38
3/4		3/4		3/4		3/4	4,906.49	3/4	4,585.49	3/4	4,237.40	3/4	3,865.08	3/4	3,477.35	3/4	3,089.32	3/4	2,701.29
5		5		5		5	4,900.46	5	4,578.48	5	4,229.87	5	3,857.05	5	3,469.26	5	3,081.23	5	2,693.21
1/4		1/4		1/4		1/4	4,894.43	1/4	4,571.47	1/4	4,222.34	1/4	3,849.03	1/4	3,461.18	1/4	3,073.15	1/4	2,685.12
1/2		1/2		1/2		1/2	4,888.41	1/2	4,564.47	1/2	4,214.82	1/2	3,841.00	1/2	3,453.09	1/2	3,065.07	1/2	2,677.04
3/4		3/4		3/4		3/4	4,882.38	3/4	4,557.46	3/4	4,207.29	3/4	3,832.97	3/4	3,445.01	3/4	3,056.98	3/4	2,668.96
6		6		6		6	4,875.83	6	4,550.42	6	4,199.73	6	3,824.90	6	3,436.93	6	3,048.90	6	2,660.87
1/4		1/4		1/4		1/4	4,869.28	1/4	4,543.38	1/4	4,192.17	1/4	3,816.84	1/4	3,428.84	1/4	3,040.82	1/4	2,652.79
1/2		1/2		1/2		1/2	4,862.74	1/2	4,536.34	1/2	4,184.61	1/2	3,808.77	1/2	3,420.76	1/2	3,032.73	1/2	2,644.70
3/4		3/4		3/4		3/4	5,183.49	3/4	4,856.19	3/4	4,529.30	3/4	4,177.05	3/4	3,800.70	3/4	3,412.67	3/4	3,024.65
7		7		7		7	4,849.60	7	4,522.22	7	4,169.43	7	3,792.62	7	3,404.59	7	3,016.56	7	2,628.54
1/4		1/4		1/4		1/4	5,168.27	1/4	4,843.02	1/4	4,515.14	1/4	4,161.82	1/4	3,784.53	1/4	3,396.51	1/4	3,008.48
1/2		1/2		1/2		1/2	5,160.66	1/2	4,836.43	1/2	4,508.07	1/2	4,154.21	1/2	3,776.45	1/2	3,388.42	1/2	3,000.40
3/4		3/4		3/4		3/4	5,153.05	3/4	4,829.85	3/4	4,500.99	3/4	4,146.60	3/4	3,768.37	3/4	3,380.34	3/4	2,992.31
8		8		8		8	5,145.45	8	4,823.22	8	4,493.87	8	4,138.95	8	3,760.28	8	3,372.26	8	2,984.23
1/4		1/4		1/4		1/4	5,137.84	1/4	4,816.58	1/4	4,486.74	1/4	4,131.31	1/4	3,752.20	1/4	3,364.17	1/4	2,976.14
1/2		1/2		1/2		1/2	5,130.23	1/2	4,809.95	1/2	4,479.62	1/2	4,123.66	1/2	3,744.11	1/2	3,356.09	1/2	2,968.06
3/4		3/4		3/4		3/4	5,122.62	3/4	4,803.32	3/4	4,472.50	3/4	4,116.02	3/4	3,736.03	3/4	3,348.00	3/4	2,959.98
9		9		9		9	5,115.01	9	4,796.65	9	4,465.29	9	4,108.32	9	3,727.95	9	3,339.92	9	2,951.89
1/4		1/4		1/4		1/4	5,107.40	1/4	4,789.98	1/4	4,458.09	1/4	4,100.63	1/4	3,719.86	1/4	3,331.84	1/4	2,943.81
1/2		1/2		1/2		1/2	5,099.79	1/2	4,783.31	1/2	4,450.89	1/2	4,092.94	1/2	3,711.78	1/2	3,323.75	1/2	2,935.72
3/4		3/4		3/4		3/4	5,092.18	3/4	4,776.64	3/4	4,443.69	3/4	4,085.24	3/4	3,703.70	3/4	3,315.67	3/4	2,927.64
10		10		10		10	5,084.62	10	4,769.93	10	4,436.44	10	4,077.50	10	3,695.61	10	3,307.58	10	2,919.56
1/4		1/4		1/4		1/4	5,077.05	1/4	4,763.21	1/4	4,429.19	1/4	4,069.76	1/4	3,687.53	1/4	3,299.50	1/4	2,911.47
1/2		1/2		1/2		1/2	5,069.48	1/2	4,756.49	1/2	4,421.94	1/2	4,062.02	1/2	3,679.44	1/2	3,291.42	1/2	2,903.39
3/4		3/4		3/4		3/4	5,061.91	3/4	4,749.77	3/4	4,414.69	3/4	4,054.28	3/4	3,671.36	3/4	3,283.33	3/4	2,895.31
11		11		11		11	5,054.34	11	4,743.02	11	4,407.41	11	4,046.50	11	3,663.28	11	3,275.25	11	2,887.22
1/4		1/4		1/4		1/4	5,046.77	1/4	4,736.27	1/4	4,400.12	1/4	4,038.73	1/4	3,655.19	1/4	3,267.16	1/4	2,879.14
1/2		1/2		1/2		1/2	5,039.21	1/2	4,729.51	1/2	4,392.84	1/2	4,030.95	1/2	3,647.11	1/2	3,259.08	1/2	2,871.05
3/4		3/4		3/4		3/4	5,031.64	3/4	4,722.76	3/4	4,385.55	3/4	4,023.17	3/4	3,639.02	3/4	3,251.00	3/4	2,862.97

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 WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 51'-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 27017"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 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	2,466.86	0	2,078.83	0	1,690.80	0	1,302.78	0	914.75	0	540.48	0	154.00	0		0		0	
1/4	2,458.77	1/4	2,070.75	1/4	1,682.72	1/4	1,294.69	1/4	906.67	1/4	532.70	1/4	145.91	1/4	1/4		1/4		1/4
1/2	2,450.69	1/2	2,062.66	1/2	1,674.64	1/2	1,286.61	1/2	898.58	1/2	524.93	1/2	137.83	1/2	1/2		1/2		1/2
3/4	2,442.61	3/4	2,054.58	3/4	1,666.55	3/4	1,278.53	3/4	890.50	3/4	517.15	3/4	129.75	3/4	3/4		3/4		3/4
1	2,434.52	1	2,046.50	1	1,658.47	1	1,270.44	1	882.57	1	509.22	1	121.66	1	1		1		1
1/4	2,426.44	1/4	2,038.41	1/4	1,650.38	1/4	1,262.36	1/4	874.64	1/4	501.29	1/4	113.58	1/4	1/4		1/4		1/4
1/2	2,418.36	1/2	2,030.33	1/2	1,642.30	1/2	1,254.27	1/2	866.71	1/2	493.36	1/2	105.49	1/2	1/2		1/2		1/2
3/4	2,410.27	3/4	2,022.24	3/4	1,634.22	3/4	1,246.19	3/4	858.78	3/4	485.42	3/4	97.41	3/4	3/4		3/4		3/4
2	2,402.19	2	2,014.16	2	1,626.13	2	1,238.11	2	851.01	2	477.34	2	89.33	2	2		2		2
1/4	2,394.10	1/4	2,006.08	1/4	1,618.05	1/4	1,230.02	1/4	843.24	1/4	469.26	1/4	81.24	1/4	1/4		1/4		1/4
1/2	2,386.02	1/2	1,997.99	1/2	1,609.97	1/2	1,221.94	1/2	835.47	1/2	461.17	1/2	73.16	1/2	1/2		1/2		1/2
3/4	2,377.94	3/4	1,989.91	3/4	1,601.88	3/4	1,213.85	3/4	827.70	3/4	453.09	3/4	65.08	3/4	3/4		3/4		3/4
3	2,369.85	3	1,981.82	3	1,593.80	3	1,205.77	3	819.94	3	445.01	3	58.00	3	3		3		3
1/4	2,361.77	1/4	1,973.74	1/4	1,585.71	1/4	1,197.69	1/4	812.18	1/4	436.92	1/4	50.93	1/4	1/4		1/4		1/4
1/2	2,353.68	1/2	1,965.66	1/2	1,577.63	1/2	1,189.60	1/2	804.42	1/2	428.84	1/2	43.85	1/2	1/2		1/2		1/2
3/4	2,345.60	3/4	1,957.57	3/4	1,569.55	3/4	1,181.52	3/4	796.65	3/4	420.76	3/4	36.78	3/4	3/4		3/4		3/4
4	2,337.52	4	1,949.49	4	1,561.46	4	1,173.43	4	788.89	4	412.67	4	31.73	4	4		4		4
1/4	2,329.43	1/4	1,941.40	1/4	1,553.38	1/4	1,165.35	1/4	781.13	1/4	404.59	1/4	26.68	1/4	1/4		1/4		1/4
1/2	2,321.35	1/2	1,933.32	1/2	1,545.29	1/2	1,157.27	1/2	773.37	1/2	396.50	1/2	21.62	1/2	1/2		1/2		1/2
3/4	2,313.26	3/4	1,925.24	3/4	1,537.21	3/4	1,149.18	3/4	765.61	3/4	388.42	3/4	16.57	3/4	3/4		3/4		3/4
5	2,305.18	5	1,917.15	5	1,529.13	5	1,141.10	5	757.84	5	380.34	5		5	5		5		5
1/4	2,297.10	1/4	1,909.07	1/4	1,521.04	1/4	1,133.01	1/4	750.08	1/4	372.25	1/4		1/4	1/4		1/4		1/4
1/2	2,289.01	1/2	1,900.99	1/2	1,512.96	1/2	1,124.93	1/2	742.32	1/2	364.17	1/2		1/2	1/2		1/2		1/2
3/4	2,280.93	3/4	1,892.90	3/4	1,504.87	3/4	1,116.85	3/4	734.56	3/4	356.09	3/4		3/4	3/4		3/4		3/4
6	2,272.84	6	1,884.82	6	1,496.79	6	1,108.76	6	726.80	6	348.00	6		6	6		6		6
1/4	2,264.76	1/4	1,876.73	1/4	1,488.71	1/4	1,100.68	1/4	719.04	1/4	339.92	1/4		1/4	1/4		1/4		1/4
1/2	2,256.68	1/2	1,868.65	1/2	1,480.62	1/2	1,092.60	1/2	711.27	1/2	331.84	1/2		1/2	1/2		1/2		1/2
3/4	2,248.59	3/4	1,860.57	3/4	1,472.54	3/4	1,084.51	3/4	703.51	3/4	323.75	3/4		3/4	3/4		3/4		3/4
7	2,240.51	7	1,852.48	7	1,464.45	7	1,076.43	7	695.75	7	315.67	7		7	7		7		7
1/4	2,232.43	1/4	1,844.40	1/4	1,456.37	1/4	1,068.34	1/4	687.99	1/4	307.58	1/4		1/4	1/4		1/4		1/4
1/2	2,224.34	1/2	1,836.31	1/2	1,448.29	1/2	1,060.26	1/2	680.23	1/2	299.50	1/2		1/2	1/2		1/2		1/2
3/4	2,216.26	3/4	1,828.23	3/4	1,440.20	3/4	1,052.18	3/4	672.47	3/4	291.42	3/4		3/4	3/4		3/4		3/4
8	2,208.17	8	1,820.15	8	1,432.12	8	1,044.09	8	664.71	8	283.33	8		8	8		8		8
1/4	2,200.09	1/4	1,812.06	1/4	1,424.04	1/4	1,036.01	1/4	656.95	1/4	275.25	1/4		1/4	1/4		1/4		1/4
1/2	2,192.01	1/2	1,803.98	1/2	1,415.95	1/2	1,027.92	1/2	649.19	1/2	267.17	1/2		1/2	1/2		1/2		1/2
3/4	2,183.92	3/4	1,795.89	3/4	1,407.87	3/4	1,019.84	3/4	641.43	3/4	259.08	3/4		3/4	3/4		3/4		3/4
9	2,175.84	9	1,787.81	9	1,399.78	9	1,011.76	9	633.67	9	251.00	9		9	9		9		9
1/4	2,167.75	1/4	1,779.73	1/4	1,391.70	1/4	1,003.67	1/4	625.90	1/4	242.92	1/4		1/4	1/4		1/4		1/4
1/2	2,159.67	1/2	1,771.64	1/2	1,383.62	1/2	995.59	1/2	618.14	1/2	234.83	1/2		1/2	1/2		1/2		1/2
3/4	2,151.59	3/4	1,763.56	3/4	1,375.53	3/4	987.50	3/4	610.38	3/4	226.75	3/4		3/4	3/4		3/4		3/4
10	2,143.50	10	1,755.48	10	1,367.45	10	979.42	10	602.62	10	218.67	10		10	10		10		10
1/4	2,135.42	1/4	1,747.39	1/4	1,359.36	1/4	971.34	1/4	594.86	1/4	210.58	1/4		1/4	1/4		1/4		1/4
1/2	2,127.33	1/2	1,739.31	1/2	1,351.28	1/2	963.25	1/2	587.09	1/2	202.50	1/2		1/2	1/2		1/2		1/2
3/4	2,119.25	3/4	1,731.22	3/4	1,343.20	3/4	955.17	3/4	579.33	3/4	194.41	3/4		3/4	3/4		3/4		3/4
11	2,111.17	11	1,723.14	11	1,335.11	11	947.09	11	571.56	11	186.33	11		11	11		11		11
1/4	2,103.08	1/4	1,715.06	1/4	1,327.03	1/4	939.00	1/4	563.80	1/4	178.25	1/4		1/4	1/4		1/4		1/4
1/2	2,095.00	1/2	1,706.97	1/2	1,318.94	1/2	930.92	1/2	556.03	1/2	170.16	1/2		1/2	1/2		1/2		1/2
3/4	2,086.92	3/4	1,698.89	3/4	1,310.86	3/4	922.83	3/4	548.26	3/4	162.08	3/4		3/4	3/4		3/4		3/4

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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 27017"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 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	5,038.34	0	4,730.22	0	4,392.46	0	4,029.61	0	3,645.24	0	3,257.26	0	2,869.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,030.77	1/4	4,723.45	1/4	4,385.12	1/4	4,021.78	1/4	3,637.16	1/4	3,249.17	1/4	2,861.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,023.20	1/2	4,716.67	1/2	4,377.79	1/2	4,013.96	1/2	3,629.07	1/2	3,241.09	1/2	2,853.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,015.64	3/4	4,709.89	3/4	4,370.45	3/4	4,006.14	3/4	3,620.99	3/4	3,233.01	3/4	2,845.02
1		1		1		1	5,009.77	1	4,703.06	1	4,363.09	1	3,998.28	1	3,612.91	1	3,224.92	1	2,836.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,003.89	1/4	4,696.24	1/4	4,355.72	1/4	3,990.42	1/4	3,604.82	1/4	3,216.84	1/4	2,828.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,998.02	1/2	4,689.42	1/2	4,348.35	1/2	3,982.56	1/2	3,596.74	1/2	3,208.76	1/2	2,820.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,992.15	3/4	4,682.59	3/4	4,340.98	3/4	3,974.70	3/4	3,588.66	3/4	3,200.67	3/4	2,812.69
2		2		2		2	4,986.25	2	4,675.73	2	4,333.57	2	3,966.78	2	3,580.58	2	3,192.59	2	2,804.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,980.34	1/4	4,668.87	1/4	4,326.17	1/4	3,958.87	1/4	3,572.49	1/4	3,184.51	1/4	2,796.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.43	1/2	4,662.00	1/2	4,318.76	1/2	3,950.96	1/2	3,564.41	1/2	3,176.43	1/2	2,788.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,968.53	3/4	4,655.14	3/4	4,311.36	3/4	3,943.05	3/4	3,556.33	3/4	3,168.34	3/4	2,780.36
3		3		3		3	4,962.57	3	4,648.23	3	4,303.91	3	3,935.11	3	3,548.24	3	3,160.26	3	2,772.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,956.61	1/4	4,641.32	1/4	4,296.45	1/4	3,927.17	1/4	3,540.16	1/4	3,152.18	1/4	2,764.19
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,950.66	1/2	4,634.41	1/2	4,289.00	1/2	3,919.22	1/2	3,532.08	1/2	3,144.09	1/2	2,756.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,944.70	3/4	4,627.50	3/4	4,281.55	3/4	3,911.28	3/4	3,523.99	3/4	3,136.01	3/4	2,748.03
4		4		4		4	4,938.71	4	4,620.56	4	4,274.07	4	3,903.30	4	3,515.91	4	3,127.93	4	2,739.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,932.72	1/4	4,613.61	1/4	4,266.60	1/4	3,895.32	1/4	3,507.83	1/4	3,119.84	1/4	2,731.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,926.73	1/2	4,606.67	1/2	4,259.12	1/2	3,887.34	1/2	3,499.75	1/2	3,111.76	1/2	2,723.78
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,920.74	3/4	4,599.72	3/4	4,251.64	3/4	3,879.36	3/4	3,491.66	3/4	3,103.68	3/4	2,715.69
5		5		5		5	4,914.71	5	4,592.72	5	4,244.12	5	3,871.33	5	3,483.58	5	3,095.59	5	2,707.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,908.69	1/4	4,585.71	1/4	4,236.59	1/4	3,863.30	1/4	3,475.50	1/4	3,087.51	1/4	2,699.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,902.66	1/2	4,578.70	1/2	4,229.06	1/2	3,855.28	1/2	3,467.41	1/2	3,079.43	1/2	2,691.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,896.63	3/4	4,571.70	3/4	4,221.54	3/4	3,847.25	3/4	3,459.33	3/4	3,071.35	3/4	2,683.36
6		6		6		6	4,890.08	6	4,564.66	6	4,213.98	6	3,839.18	6	3,451.25	6	3,063.26	6	2,675.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,883.53	1/4	4,557.62	1/4	4,206.42	1/4	3,831.12	1/4	3,443.16	1/4	3,055.18	1/4	2,667.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,876.99	1/2	4,550.58	1/2	4,198.86	1/2	3,823.05	1/2	3,435.08	1/2	3,047.10	1/2	2,659.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,197.75	3/4	4,870.44	3/4	4,543.54	3/4	4,191.29	3/4	3,814.98	3/4	3,427.00	3/4	3,039.01
7		7		7		7	5,190.14	7	4,863.85	7	4,536.46	7	4,183.68	7	3,806.90	7	3,418.92	7	3,030.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,182.53	1/4	4,857.27	1/4	4,529.38	1/4	4,176.07	1/4	3,798.82	1/4	3,410.83	1/4	3,022.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,174.93	1/2	4,850.68	1/2	4,522.30	1/2	4,168.46	1/2	3,790.73	1/2	3,402.75	1/2	3,014.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,167.32	3/4	4,844.10	3/4	4,515.23	3/4	4,160.85	3/4	3,782.65	3/4	3,394.67	3/4	3,006.68
8		8		8		8	5,159.71	8	4,837.46	8	4,508.10	8	4,153.20	8	3,774.57	8	3,386.58	8	2,998.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,152.10	1/4	4,830.83	1/4	4,500.98	1/4	4,145.56	1/4	3,766.48	1/4	3,378.50	1/4	2,990.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,144.49	1/2	4,824.20	1/2	4,493.86	1/2	4,137.91	1/2	3,758.40	1/2	3,370.42	1/2	2,982.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,136.88	3/4	4,817.56	3/4	4,486.73	3/4	4,130.27	3/4	3,750.32	3/4	3,362.33	3/4	2,974.35
9		9		9		9	5,129.28	9	4,810.90	9	4,479.53	9	4,122.58	9	3,742.24	9	3,354.25	9	2,966.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,121.67	1/4	4,804.23	1/4	4,472.33	1/4	4,114.88	1/4	3,734.15	1/4	3,346.17	1/4	2,958.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,114.06	1/2	4,797.56	1/2	4,465.13	1/2	4,107.19	1/2	3,726.07	1/2	3,338.09	1/2	2,950.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,106.45	3/4	4,790.89	3/4	4,457.93	3/4	4,099.50	3/4	3,717.99	3/4	3,330.00	3/4	2,942.02
10		10		10		10	5,098.88	10	4,784.17	10	4,450.68	10	4,091.76	10	3,709.90	10	3,321.92	10	2,933.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,091.31	1/4	4,777.45	1/4	4,443.43	1/4	4,084.02	1/4	3,701.82	1/4	3,313.84	1/4	2,925.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,083.75	1/2	4,770.73	1/2	4,436.18	1/2	4,076.28	1/2	3,693.74	1/2	3,305.75	1/2	2,917.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,076.18	3/4	4,764.01	3/4	4,428.93	3/4	4,068.54	3/4	3,685.65	3/4	3,297.67	3/4	2,909.69
11		11		11		11	5,068.61	11	4,757.26	11	4,421.65	11	4,060.76	11	3,677.57	11	3,289.59	11	2,901.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,061.04	1/4	4,750.51	1/4	4,414.36	1/4	4,052.99	1/4	3,669.49	1/4	3,281.50	1/4	2,893.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,053.48	1/2	4,743.76	1/2	4,407.08	1/2	4,045.21	1/2	3,661.41	1/2	3,273.42	1/2	2,885.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,045.91	3/4	4,737.00	3/4	4,399.79	3/4	4,037.43	3/4	3,653.32	3/4	3,265.34	3/4	2,877.35

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 51'-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 27017"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356"

GAUGE HEIGHT 16'-04 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	2,481.29	0	2,093.30	0	1,705.32	0	1,317.33	0	929.35	0	541.95	0	153.98	0		0		0	
1/4	2,473.20	1/4	2,085.22	1/4	1,697.24	1/4	1,309.25	1/4	921.27	1/4	533.87	1/4	145.90	1/4	1/4		1/4		1/4
1/2	2,465.12	1/2	2,077.14	1/2	1,689.15	1/2	1,301.17	1/2	913.18	1/2	525.79	1/2	137.81	1/2	1/2		1/2		1/2
3/4	2,457.04	3/4	2,069.05	3/4	1,681.07	3/4	1,293.09	3/4	905.10	3/4	517.71	3/4	129.73	3/4	3/4		3/4		3/4
1	2,448.95	1	2,060.97	1	1,672.99	1	1,285.00	1	897.02	1	509.62	1	121.65	1	1		1		1
1/4	2,440.87	1/4	2,052.89	1/4	1,664.90	1/4	1,276.92	1/4	888.94	1/4	501.54	1/4	113.57	1/4	1/4		1/4		1/4
1/2	2,432.79	1/2	2,044.80	1/2	1,656.82	1/2	1,268.84	1/2	880.85	1/2	493.46	1/2	105.48	1/2	1/2		1/2		1/2
3/4	2,424.71	3/4	2,036.72	3/4	1,648.74	3/4	1,260.75	3/4	872.77	3/4	485.37	3/4	97.40	3/4	3/4		3/4		3/4
2	2,416.62	2	2,028.64	2	1,640.65	2	1,252.67	2	864.70	2	477.29	2	89.32	2	2		2		2
1/4	2,408.54	1/4	2,020.56	1/4	1,632.57	1/4	1,244.59	1/4	856.62	1/4	469.21	1/4	81.23	1/4	1/4		1/4		1/4
1/2	2,400.46	1/2	2,012.47	1/2	1,624.49	1/2	1,236.50	1/2	848.55	1/2	461.13	1/2	73.15	1/2	1/2		1/2		1/2
3/4	2,392.37	3/4	2,004.39	3/4	1,616.41	3/4	1,228.42	3/4	840.47	3/4	453.04	3/4	65.07	3/4	3/4		3/4		3/4
3	2,384.29	3	1,996.31	3	1,608.32	3	1,220.34	3	832.41	3	444.96	3	58.00	3	3		3		3
1/4	2,376.21	1/4	1,988.22	1/4	1,600.24	1/4	1,212.26	1/4	824.34	1/4	436.88	1/4	50.92	1/4	1/4		1/4		1/4
1/2	2,368.12	1/2	1,980.14	1/2	1,592.16	1/2	1,204.17	1/2	816.27	1/2	428.80	1/2	43.85	1/2	1/2		1/2		1/2
3/4	2,360.04	3/4	1,972.06	3/4	1,584.07	3/4	1,196.09	3/4	808.20	3/4	420.71	3/4	36.78	3/4	3/4		3/4		3/4
4	2,351.96	4	1,963.97	4	1,575.99	4	1,188.01	4	800.14	4	412.63	4	31.72	4	4		4		4
1/4	2,343.88	1/4	1,955.89	1/4	1,567.91	1/4	1,179.92	1/4	792.07	1/4	404.55	1/4	26.67	1/4	1/4		1/4		1/4
1/2	2,335.79	1/2	1,947.81	1/2	1,559.82	1/2	1,171.84	1/2	784.00	1/2	396.46	1/2	21.62	1/2	1/2		1/2		1/2
3/4	2,327.71	3/4	1,939.73	3/4	1,551.74	3/4	1,163.76	3/4	775.94	3/4	388.38	3/4	16.56	3/4	3/4		3/4		3/4
5	2,319.63	5	1,931.64	5	1,543.66	5	1,155.67	5	767.87	5	380.30	5		5	5		5		5
1/4	2,311.54	1/4	1,923.56	1/4	1,535.58	1/4	1,147.59	1/4	759.80	1/4	372.22	1/4		1/4	1/4		1/4		1/4
1/2	2,303.46	1/2	1,915.48	1/2	1,527.49	1/2	1,139.51	1/2	751.73	1/2	364.13	1/2		1/2	1/2		1/2		1/2
3/4	2,295.38	3/4	1,907.39	3/4	1,519.41	3/4	1,131.43	3/4	743.67	3/4	356.05	3/4		3/4	3/4		3/4		3/4
6	2,287.29	6	1,899.31	6	1,511.33	6	1,123.34	6	735.60	6	347.97	6		6	6		6		6
1/4	2,279.21	1/4	1,891.23	1/4	1,503.24	1/4	1,115.26	1/4	727.53	1/4	339.88	1/4		1/4	1/4		1/4		1/4
1/2	2,271.13	1/2	1,883.14	1/2	1,495.16	1/2	1,107.18	1/2	719.47	1/2	331.80	1/2		1/2	1/2		1/2		1/2
3/4	2,263.05	3/4	1,875.06	3/4	1,487.08	3/4	1,099.09	3/4	711.40	3/4	323.72	3/4		3/4	3/4		3/4		3/4
7	2,254.96	7	1,866.98	7	1,478.99	7	1,091.01	7	703.33	7	315.64	7		7	7		7		7
1/4	2,246.88	1/4	1,858.90	1/4	1,470.91	1/4	1,082.93	1/4	695.27	1/4	307.55	1/4		1/4	1/4		1/4		1/4
1/2	2,238.80	1/2	1,850.81	1/2	1,462.83	1/2	1,074.84	1/2	687.20	1/2	299.47	1/2		1/2	1/2		1/2		1/2
3/4	2,230.71	3/4	1,842.73	3/4	1,454.75	3/4	1,066.76	3/4	679.13	3/4	291.39	3/4		3/4	3/4		3/4		3/4
8	2,222.63	8	1,834.65	8	1,446.66	8	1,058.68	8	671.07	8	283.30	8		8	8		8		8
1/4	2,214.55	1/4	1,826.56	1/4	1,438.58	1/4	1,050.60	1/4	663.00	1/4	275.22	1/4		1/4	1/4		1/4		1/4
1/2	2,206.46	1/2	1,818.48	1/2	1,430.50	1/2	1,042.51	1/2	654.93	1/2	267.14	1/2		1/2	1/2		1/2		1/2
3/4	2,198.38	3/4	1,810.40	3/4	1,422.41	3/4	1,034.43	3/4	646.87	3/4	259.06	3/4		3/4	3/4		3/4		3/4
9	2,190.30	9	1,802.31	9	1,414.33	9	1,026.35	9	638.80	9	250.97	9		9	9		9		9
1/4	2,182.22	1/4	1,794.23	1/4	1,406.25	1/4	1,018.26	1/4	630.73	1/4	242.89	1/4		1/4	1/4		1/4		1/4
1/2	2,174.13	1/2	1,786.15	1/2	1,398.16	1/2	1,010.18	1/2	622.67	1/2	234.81	1/2		1/2	1/2		1/2		1/2
3/4	2,166.05	3/4	1,778.07	3/4	1,390.08	3/4	1,002.10	3/4	614.60	3/4	226.73	3/4		3/4	3/4		3/4		3/4
10	2,157.97	10	1,769.98	10	1,382.00	10	994.01	10	606.53	10	218.64	10		10	10		10		10
1/4	2,149.88	1/4	1,761.90	1/4	1,373.92	1/4	985.93	1/4	598.47	1/4	210.56	1/4		1/4	1/4		1/4		1/4
1/2	2,141.80	1/2	1,753.82	1/2	1,365.83	1/2	977.85	1/2	590.40	1/2	202.48	1/2		1/2	1/2		1/2		1/2
3/4	2,133.72	3/4	1,745.73	3/4	1,357.75	3/4	969.77	3/4	582.33	3/4	194.39	3/4		3/4	3/4		3/4		3/4
11	2,125.63	11	1,737.65	11	1,349.67	11	961.68	11	574.26	11	186.31	11		11	11		11		11
1/4	2,117.55	1/4	1,729.57	1/4	1,341.58	1/4	953.60	1/4	566.18	1/4	178.23	1/4		1/4	1/4		1/4		1/4
1/2	2,109.47	1/2	1,721.48	1/2	1,333.50	1/2	945.52	1/2	558.11	1/2	170.15	1/2		1/2	1/2		1/2		1/2
3/4	2,101.39	3/4	1,713.40	3/4	1,325.42	3/4	937.43	3/4	550.04	3/4	162.06	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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



# BARGE "KIRBY 27017"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356

GAUGE HEIGHT 16'-04 1/2"

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	4,282.97	0	4,083.30	0	3,864.61	0	3,622.91	0	3,359.96	0	3,007.68	0	2,647.16
1/4		1/4		1/4		1/4	4,277.49	1/4	4,078.99	1/4	3,859.80	1/4	3,617.60	1/4	3,354.43	1/4	3,000.18	1/4	2,639.65
1/2		1/2		1/2		1/2	4,272.00	1/2	4,074.68	1/2	3,854.98	1/2	3,612.30	1/2	3,348.89	1/2	2,992.68	1/2	2,632.14
3/4		3/4		3/4		3/4	4,268.10	3/4	4,070.33	3/4	3,850.14	3/4	3,606.96	3/4	3,342.37	3/4	2,985.17	3/4	2,624.63
1		1		1		1	4,264.19	1	4,065.98	1	3,845.29	1	3,601.62	1	3,335.84	1	2,977.66	1	2,617.12
1/4		1/4		1/4		1/4	4,260.29	1/4	4,061.63	1/4	3,840.44	1/4	3,596.29	1/4	3,329.32	1/4	2,970.15	1/4	2,609.60
1/2		1/2		1/2		1/2	4,256.39	1/2	4,057.27	1/2	3,835.60	1/2	3,590.95	1/2	3,322.80	1/2	2,962.64	1/2	2,602.09
3/4		3/4		3/4		3/4	4,252.45	3/4	4,052.89	3/4	3,830.72	3/4	3,585.56	3/4	3,315.29	3/4	2,955.12	3/4	2,594.58
2		2		2		2	4,248.51	2	4,048.50	2	3,825.84	2	3,580.18	2	3,307.78	2	2,947.61	2	2,587.07
1/4		1/4		1/4		1/4	4,244.57	1/4	4,044.11	1/4	3,820.96	1/4	3,574.80	1/4	3,300.26	1/4	2,940.10	1/4	2,579.56
1/2		1/2		1/2		1/2	4,240.64	1/2	4,039.73	1/2	3,816.08	1/2	3,569.41	1/2	3,292.75	1/2	2,932.59	1/2	2,572.05
3/4		3/4		3/4		3/4	4,236.65	3/4	4,035.30	3/4	3,811.15	3/4	3,564.00	3/4	3,285.24	3/4	2,925.08	3/4	2,564.53
3		3		3		3	4,232.67	3	4,030.86	3	3,806.23	3	3,558.58	3	3,277.73	3	2,917.57	3	2,557.01
1/4		1/4		1/4		1/4	4,228.69	1/4	4,026.43	1/4	3,801.31	1/4	3,553.17	1/4	3,270.22	1/4	2,910.06	1/4	2,549.49
1/2		1/2		1/2		1/2	4,224.70	1/2	4,022.00	1/2	3,796.38	1/2	3,547.75	1/2	3,262.71	1/2	2,902.54	1/2	2,541.96
3/4		3/4		3/4		3/4	4,220.69	3/4	4,017.54	3/4	3,791.43	3/4	3,542.30	3/4	3,255.21	3/4	2,895.03	3/4	2,534.44
4		4		4		4	4,216.67	4	4,013.07	4	3,786.48	4	3,536.85	4	3,247.71	4	2,887.52	4	2,526.92
1/4		1/4		1/4		1/4	4,212.66	1/4	4,008.61	1/4	3,781.53	1/4	3,531.40	1/4	3,240.21	1/4	2,880.01	1/4	2,519.40
1/2		1/2		1/2		1/2	4,208.64	1/2	4,004.14	1/2	3,776.58	1/2	3,525.95	1/2	3,232.71	1/2	2,872.50	1/2	2,511.88
3/4		3/4		3/4		3/4	4,204.59	3/4	3,999.63	3/4	3,771.59	3/4	3,520.46	3/4	3,225.21	3/4	2,864.99	3/4	2,504.36
5		5		5		5	4,200.54	5	3,995.11	5	3,766.59	5	3,514.97	5	3,217.71	5	2,857.48	5	2,496.84
1/4		1/4		1/4		1/4	4,196.49	1/4	3,990.59	1/4	3,761.60	1/4	3,509.47	1/4	3,210.21	1/4	2,849.97	1/4	2,489.32
1/2		1/2		1/2		1/2	4,192.44	1/2	3,986.07	1/2	3,756.60	1/2	3,503.98	1/2	3,202.71	1/2	2,842.45	1/2	2,481.80
3/4		3/4		3/4		3/4	4,188.35	3/4	3,981.52	3/4	3,751.58	3/4	3,498.45	3/4	3,195.20	3/4	2,834.94	3/4	2,474.28
6		6		6		6	4,184.26	6	3,976.97	6	3,746.55	6	3,492.93	6	3,187.70	6	2,827.43	6	2,466.76
1/4		1/4		1/4		1/4	4,180.16	1/4	3,972.42	1/4	3,741.52	1/4	3,487.40	1/4	3,180.20	1/4	2,819.92	1/4	2,459.24
1/2		1/2		1/2	4,407.88	1/2	4,176.07	1/2	3,967.87	1/2	3,736.49	1/2	3,481.87	1/2	3,172.70	1/2	2,812.41	1/2	2,451.72
3/4		3/4		3/4	4,401.38	3/4	4,171.95	3/4	3,963.28	3/4	3,731.42	3/4	3,476.33	3/4	3,165.20	3/4	2,804.90	3/4	2,444.20
7		7		7	4,394.88	7	4,167.82	7	3,958.70	7	3,726.34	7	3,470.78	7	3,157.70	7	2,797.39	7	2,436.68
1/4		1/4		1/4	4,388.38	1/4	4,163.69	1/4	3,954.11	1/4	3,721.27	1/4	3,465.23	1/4	3,150.20	1/4	2,789.88	1/4	2,429.15
1/2		1/2		1/2	4,381.88	1/2	4,159.56	1/2	3,949.53	1/2	3,716.19	1/2	3,459.69	1/2	3,142.70	1/2	2,782.36	1/2	2,421.63
3/4		3/4		3/4	4,376.37	3/4	4,155.39	3/4	3,944.90	3/4	3,711.09	3/4	3,454.14	3/4	3,135.20	3/4	2,774.85	3/4	2,414.11
8		8		8	4,370.86	8	4,151.22	8	3,940.27	8	3,705.98	8	3,448.60	8	3,127.70	8	2,767.34	8	2,406.59
1/4		1/4		1/4	4,365.35	1/4	4,147.05	1/4	3,935.64	1/4	3,700.88	1/4	3,443.05	1/4	3,120.20	1/4	2,759.83	1/4	2,399.07
1/2		1/2		1/2	4,359.84	1/2	4,142.88	1/2	3,931.02	1/2	3,695.77	1/2	3,437.50	1/2	3,112.69	1/2	2,752.32	1/2	2,391.55
3/4		3/4		3/4	4,354.33	3/4	4,138.67	3/4	3,926.33	3/4	3,690.63	3/4	3,431.96	3/4	3,105.19	3/4	2,744.81	3/4	2,384.03
9		9		9	4,348.82	9	4,134.47	9	3,921.63	9	3,685.48	9	3,426.41	9	3,097.69	9	2,737.30	9	2,376.51
1/4		1/4		1/4	4,343.31	1/4	4,130.26	1/4	3,916.94	1/4	3,680.33	1/4	3,420.87	1/4	3,090.19	1/4	2,729.78	1/4	2,368.99
1/2		1/2		1/2	4,337.79	1/2	4,126.06	1/2	3,912.25	1/2	3,675.18	1/2	3,415.32	1/2	3,082.69	1/2	2,722.27	1/2	2,361.47
3/4		3/4		3/4	4,332.31	3/4	4,121.81	3/4	3,907.52	3/4	3,669.99	3/4	3,409.78	3/4	3,075.19	3/4	2,714.76	3/4	2,353.95
10		10		10	4,326.83	10	4,117.55	10	3,902.78	10	3,664.80	10	3,404.25	10	3,067.69	10	2,707.25	10	2,346.43
1/4		1/4		1/4	4,321.35	1/4	4,113.30	1/4	3,898.05	1/4	3,659.61	1/4	3,398.71	1/4	3,060.19	1/4	2,699.74	1/4	2,338.91
1/2		1/2		1/2	4,315.86	1/2	4,109.05	1/2	3,893.31	1/2	3,654.42	1/2	3,393.18	1/2	3,052.69	1/2	2,692.23	1/2	2,331.39
3/4		3/4		3/4	4,310.38	3/4	4,104.77	3/4	3,888.55	3/4	3,649.19	3/4	3,387.64	3/4	3,045.19	3/4	2,684.72	3/4	2,323.86
11		11		11	4,304.90	11	4,100.49	11	3,883.78	11	3,643.96	11	3,382.11	11	3,037.69	11	2,677.21	11	2,316.34
1/4		1/4		1/4	4,299.42	1/4	4,096.20	1/4	3,879.01	1/4	3,638.74	1/4	3,376.57	1/4	3,030.18	1/4	2,669.69	1/4	2,308.82
1/2		1/2		1/2	4,293.93	1/2	4,091.92	1/2	3,874.24	1/2	3,633.51	1/2	3,371.04	1/2	3,022.68	1/2	2,662.18	1/2	2,301.30
3/4		3/4		3/4	4,288.45	3/4	4,087.61	3/4	3,869.43	3/4	3,628.21	3/4	3,365.50	3/4	3,015.18	3/4	2,654.67	3/4	2,293.78

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 45'-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 27017"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356

GAUGE HEIGHT 16'-04 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,286.26	0	1,925.27	0	1,565.27	0	1,204.56	0	843.73	0	495.74	0	135.82	0		0		0	
1/4	2,278.74	1/4	1,917.75	1/4	1,557.78	1/4	1,197.04	1/4	836.21	1/4	488.50	1/4	128.29	1/4	1/4	1/4		1/4	1/4
1/2	2,271.22	1/2	1,910.23	1/2	1,550.28	1/2	1,189.53	1/2	828.69	1/2	481.26	1/2	120.77	1/2	1/2	1/2		1/2	1/2
3/4	2,263.70	3/4	1,902.71	3/4	1,542.78	3/4	1,182.01	3/4	821.31	3/4	473.89	3/4	113.25	3/4	3/4	3/4		3/4	3/4
1	2,256.18	1	1,895.18	1	1,535.29	1	1,174.49	1	813.93	1	466.52	1	105.72	1	1	1		1	1
1/4	2,248.66	1/4	1,887.66	1/4	1,527.79	1/4	1,166.97	1/4	806.54	1/4	459.15	1/4	98.20	1/4	1/4	1/4		1/4	1/4
1/2	2,241.14	1/2	1,880.14	1/2	1,520.29	1/2	1,159.46	1/2	799.16	1/2	451.77	1/2	90.68	1/2	1/2	1/2		1/2	1/2
3/4	2,233.62	3/4	1,872.65	3/4	1,512.77	3/4	1,151.94	3/4	791.92	3/4	444.25	3/4	83.16	3/4	3/4	3/4		3/4	3/4
2	2,226.10	2	1,865.15	2	1,505.26	2	1,144.42	2	784.68	2	436.73	2	75.63	2	2	2		2	2
1/4	2,218.57	1/4	1,857.65	1/4	1,497.74	1/4	1,136.90	1/4	777.45	1/4	429.20	1/4	68.11	1/4	1/4	1/4		1/4	1/4
1/2	2,211.05	1/2	1,850.16	1/2	1,490.22	1/2	1,129.39	1/2	770.21	1/2	421.68	1/2	60.59	1/2	1/2	1/2		1/2	1/2
3/4	2,203.53	3/4	1,842.66	3/4	1,482.70	3/4	1,121.87	3/4	762.98	3/4	414.16	3/4	54.00	3/4	3/4	3/4		3/4	3/4
3	2,196.01	3	1,835.16	3	1,475.19	3	1,114.35	3	755.74	3	406.64	3	47.42	3	3	3		3	3
1/4	2,188.49	1/4	1,827.66	1/4	1,467.67	1/4	1,106.83	1/4	748.51	1/4	399.11	1/4	40.84	1/4	1/4	1/4		1/4	1/4
1/2	2,180.97	1/2	1,820.17	1/2	1,460.15	1/2	1,099.32	1/2	741.28	1/2	391.59	1/2	34.25	1/2	1/2	1/2		1/2	1/2
3/4	2,173.45	3/4	1,812.67	3/4	1,452.64	3/4	1,091.80	3/4	734.06	3/4	384.07	3/4	29.55	3/4	3/4	3/4		3/4	3/4
4	2,165.93	4	1,805.17	4	1,445.12	4	1,084.28	4	726.84	4	376.55	4	24.85	4	4	4		4	4
1/4	2,158.41	1/4	1,797.68	1/4	1,437.60	1/4	1,076.77	1/4	719.62	1/4	369.02	1/4	20.15	1/4	1/4	1/4		1/4	1/4
1/2	2,150.89	1/2	1,790.18	1/2	1,430.08	1/2	1,069.25	1/2	712.40	1/2	361.50	1/2	15.45	1/2	1/2	1/2		1/2	1/2
3/4	2,143.37	3/4	1,782.68	3/4	1,422.57	3/4	1,061.73	3/4	705.18	3/4	353.98	3/4		3/4	3/4	3/4		3/4	3/4
5	2,135.85	5	1,775.19	5	1,415.05	5	1,054.21	5	697.96	5	346.45	5		5	5	5		5	5
1/4	2,128.33	1/4	1,767.69	1/4	1,407.53	1/4	1,046.70	1/4	690.74	1/4	338.93	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,120.81	1/2	1,760.19	1/2	1,400.01	1/2	1,039.18	1/2	683.52	1/2	331.41	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,113.28	3/4	1,752.70	3/4	1,392.50	3/4	1,031.66	3/4	676.30	3/4	323.89	3/4		3/4	3/4	3/4		3/4	3/4
6	2,105.76	6	1,745.20	6	1,384.98	6	1,024.14	6	669.08	6	316.36	6		6	6	6		6	6
1/4	2,098.24	1/4	1,737.70	1/4	1,377.46	1/4	1,016.63	1/4	661.86	1/4	308.84	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,090.72	1/2	1,730.21	1/2	1,369.94	1/2	1,009.11	1/2	654.63	1/2	301.32	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,083.20	3/4	1,722.71	3/4	1,362.43	3/4	1,001.59	3/4	647.42	3/4	293.79	3/4		3/4	3/4	3/4		3/4	3/4
7	2,075.68	7	1,715.21	7	1,354.91	7	994.07	7	640.20	7	286.27	7		7	7	7		7	7
1/4	2,068.16	1/4	1,707.71	1/4	1,347.39	1/4	986.56	1/4	632.98	1/4	278.75	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,060.64	1/2	1,700.22	1/2	1,339.87	1/2	979.04	1/2	625.76	1/2	271.23	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,053.12	3/4	1,692.72	3/4	1,332.36	3/4	971.52	3/4	618.54	3/4	263.70	3/4		3/4	3/4	3/4		3/4	3/4
8	2,045.60	8	1,685.22	8	1,324.84	8	964.00	8	611.32	8	256.18	8		8	8	8		8	8
1/4	2,038.08	1/4	1,677.73	1/4	1,317.32	1/4	956.49	1/4	604.10	1/4	248.66	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,030.56	1/2	1,670.23	1/2	1,309.80	1/2	948.97	1/2	596.88	1/2	241.13	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,023.04	3/4	1,662.73	3/4	1,302.29	3/4	941.45	3/4	589.66	3/4	233.61	3/4		3/4	3/4	3/4		3/4	3/4
9	2,015.52	9	1,655.24	9	1,294.77	9	933.93	9	582.44	9	226.09	9		9	9	9		9	9
1/4	2,008.00	1/4	1,647.74	1/4	1,287.25	1/4	926.42	1/4	575.22	1/4	218.57	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,000.47	1/2	1,640.24	1/2	1,279.74	1/2	918.90	1/2	568.00	1/2	211.04	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,992.95	3/4	1,632.75	3/4	1,272.22	3/4	911.38	3/4	560.78	3/4	203.52	3/4		3/4	3/4	3/4		3/4	3/4
10	1,985.43	10	1,625.25	10	1,264.70	10	903.87	10	553.56	10	196.00	10		10	10	10		10	10
1/4	1,977.91	1/4	1,617.75	1/4	1,257.18	1/4	896.35	1/4	546.34	1/4	188.48	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,970.39	1/2	1,610.25	1/2	1,249.67	1/2	888.83	1/2	539.12	1/2	180.95	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,962.87	3/4	1,602.76	3/4	1,242.15	3/4	881.31	3/4	531.89	3/4	173.43	3/4		3/4	3/4	3/4		3/4	3/4
11	1,955.35	11	1,595.26	11	1,234.63	11	873.80	11	524.66	11	165.91	11		11	11	11		11	11
1/4	1,947.83	1/4	1,587.76	1/4	1,227.11	1/4	866.28	1/4	517.44	1/4	158.38	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,940.31	1/2	1,580.27	1/2	1,219.60	1/2	858.76	1/2	510.21	1/2	150.86	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,932.79	3/4	1,572.77	3/4	1,212.08	3/4	851.24	3/4	502.97	3/4	143.34	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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 27017"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356

GAUGE HEIGHT 16'-04 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	4,295.18	0	4,091.16	0	3,870.02	0	3,626.85	0	3,363.87	0	3,013.00	0	2,652.41		
1/4		1/4		1/4		1/4	4,289.63	1/4	4,086.78	1/4	3,865.17	1/4	3,621.54	1/4	3,358.32	1/4	3,005.49	1/4	2,644.90		
1/2		1/2		1/2		1/2	4,284.08	1/2	4,082.40	1/2	3,860.31	1/2	3,616.23	1/2	3,352.77	1/2	2,997.98	1/2	2,637.39		
3/4		3/4		3/4		3/4	4,278.53	3/4	4,078.01	3/4	3,855.46	3/4	3,610.93	3/4	3,347.22	3/4	2,990.46	3/4	2,629.87		
1		1		1		1	4,274.56	1	4,073.59	1	3,850.58	1	3,605.58	1	3,340.69	1	2,982.95	1	2,622.36		
1/4		1/4		1/4		1/4	4,270.59	1/4	4,069.16	1/4	3,845.69	1/4	3,600.24	1/4	3,334.15	1/4	2,975.44	1/4	2,614.85		
1/2		1/2		1/2		1/2	4,266.62	1/2	4,064.73	1/2	3,840.81	1/2	3,594.90	1/2	3,327.61	1/2	2,967.93	1/2	2,607.34		
3/4		3/4		3/4		3/4	4,262.65	3/4	4,060.31	3/4	3,835.93	3/4	3,589.56	3/4	3,321.07	3/4	2,960.41	3/4	2,599.82		
2		2		2		2	4,258.65	2	4,055.85	2	3,831.01	2	3,584.17	2	3,313.56	2	2,952.90	2	2,592.31		
1/4		1/4		1/4		1/4	4,254.64	1/4	4,051.39	1/4	3,826.09	1/4	3,578.78	1/4	3,306.04	1/4	2,945.39	1/4	2,584.80		
1/2		1/2		1/2		1/2	4,250.64	1/2	4,046.92	1/2	3,821.17	1/2	3,573.39	1/2	3,298.52	1/2	2,937.88	1/2	2,577.29		
3/4		3/4		3/4		3/4	4,246.64	3/4	4,042.46	3/4	3,816.25	3/4	3,568.01	3/4	3,291.01	3/4	2,930.37	3/4	2,569.78		
3		3		3		3	4,242.59	3	4,037.96	3	3,811.29	3	3,562.59	3	3,283.49	3	2,922.85	3	2,562.26		
1/4		1/4		1/4		1/4	4,238.54	1/4	4,033.45	1/4	3,806.33	1/4	3,557.17	1/4	3,275.98	1/4	2,915.34	1/4	2,554.75		
1/2		1/2		1/2		1/2	4,234.49	1/2	4,028.95	1/2	3,801.37	1/2	3,551.75	1/2	3,268.46	1/2	2,907.83	1/2	2,547.24		
3/4		3/4		3/4		3/4	4,230.44	3/4	4,024.44	3/4	3,796.41	3/4	3,546.33	3/4	3,260.95	3/4	2,900.32	3/4	2,539.73		
4		4		4		4	4,226.36	4	4,019.91	4	3,791.41	4	3,540.88	4	3,253.43	4	2,892.80	4	2,532.23		
1/4		1/4		1/4		1/4	4,222.27	1/4	4,015.37	1/4	3,786.41	1/4	3,535.42	1/4	3,245.92	1/4	2,885.29	1/4	2,524.73		
1/2		1/2		1/2		1/2	4,218.19	1/2	4,010.83	1/2	3,781.42	1/2	3,529.97	1/2	3,238.40	1/2	2,877.78	1/2	2,517.23		
3/4		3/4		3/4		3/4	4,214.11	3/4	4,006.29	3/4	3,776.42	3/4	3,524.51	3/4	3,230.88	3/4	2,870.27	3/4	2,509.73		
5		5		5		5	4,210.00	5	4,001.70	5	3,771.38	5	3,519.02	5	3,223.37	5	2,862.75	5	2,502.23		
1/4		1/4		1/4		1/4	4,205.88	1/4	3,997.12	1/4	3,766.34	1/4	3,513.52	1/4	3,215.85	1/4	2,855.24	1/4	2,494.73		
1/2		1/2		1/2		1/2	4,201.77	1/2	3,992.53	1/2	3,761.30	1/2	3,508.02	1/2	3,208.34	1/2	2,847.73	1/2	2,487.24		
3/4		3/4		3/4		3/4	4,197.65	3/4	3,987.95	3/4	3,756.26	3/4	3,502.53	3/4	3,200.82	3/4	2,840.22	3/4	2,479.74		
6		6		6		6	4,193.49	6	3,983.33	6	3,751.19	6	3,496.99	6	3,193.31	6	2,832.71	6	2,472.24		
1/4		1/4		1/4		1/4	4,189.33	1/4	3,978.72	1/4	3,746.11	1/4	3,491.46	1/4	3,185.79	1/4	2,825.19	1/4	2,464.74		
1/2		1/2		1/2		1/2	4,185.17	1/2	3,974.10	1/2	3,741.04	1/2	3,485.93	1/2	3,178.27	1/2	2,817.68	1/2	2,457.24		
3/4		3/4		3/4		3/4	4,415.66	3/4	4,181.02	3/4	3,969.48	3/4	3,735.96	3/4	3,480.40	3/4	3,170.76	3/4	2,449.74		
7		7		7		7	4,409.12	7	4,176.82	7	3,964.83	7	3,730.84	7	3,474.85	7	3,163.25	7	2,802.66	7	2,442.24
1/4		1/4		1/4		1/4	4,402.58	1/4	4,172.63	1/4	3,960.18	1/4	3,725.72	1/4	3,469.30	1/4	3,155.73	1/4	2,795.14	1/4	2,434.74
1/2		1/2		1/2		1/2	4,396.05	1/2	4,168.44	1/2	3,955.53	1/2	3,720.60	1/2	3,463.75	1/2	3,148.22	1/2	2,787.63	1/2	2,427.25
3/4		3/4		3/4		3/4	4,389.51	3/4	4,164.24	3/4	3,950.88	3/4	3,715.48	3/4	3,458.20	3/4	3,140.71	3/4	2,780.12	3/4	2,419.75
8		8		8		8	4,383.96	8	4,160.01	8	3,946.19	8	3,710.33	8	3,452.66	8	3,133.20	8	2,772.61	8	2,412.25
1/4		1/4		1/4		1/4	4,378.41	1/4	4,155.77	1/4	3,941.49	1/4	3,705.18	1/4	3,447.11	1/4	3,125.69	1/4	2,765.10	1/4	2,404.75
1/2		1/2		1/2		1/2	4,372.86	1/2	4,151.53	1/2	3,936.80	1/2	3,700.03	1/2	3,441.56	1/2	3,118.17	1/2	2,757.58	1/2	2,397.25
3/4		3/4		3/4		3/4	4,367.31	3/4	4,147.29	3/4	3,932.10	3/4	3,694.88	3/4	3,436.01	3/4	3,110.66	3/4	2,750.07	3/4	2,389.75
9		9		9		9	4,361.76	9	4,143.02	9	3,927.38	9	3,689.69	9	3,430.46	9	3,103.15	9	2,742.56	9	2,382.25
1/4		1/4		1/4		1/4	4,356.21	1/4	4,138.75	1/4	3,922.65	1/4	3,684.50	1/4	3,424.91	1/4	3,095.64	1/4	2,735.05	1/4	2,374.75
1/2		1/2		1/2		1/2	4,350.67	1/2	4,134.48	1/2	3,917.92	1/2	3,679.32	1/2	3,419.36	1/2	3,088.12	1/2	2,727.53	1/2	2,367.26
3/4		3/4		3/4		3/4	4,345.12	3/4	4,130.21	3/4	3,913.19	3/4	3,674.13	3/4	3,413.81	3/4	3,080.61	3/4	2,720.02	3/4	2,359.76
10		10		10		10	4,339.57	10	4,125.89	10	3,908.42	10	3,668.90	10	3,408.26	10	3,073.10	10	2,712.51	10	2,352.26
1/4		1/4		1/4		1/4	4,334.02	1/4	4,121.57	1/4	3,903.64	1/4	3,663.67	1/4	3,402.71	1/4	3,065.59	1/4	2,705.00	1/4	2,344.76
1/2		1/2		1/2		1/2	4,328.47	1/2	4,117.26	1/2	3,898.87	1/2	3,658.44	1/2	3,397.17	1/2	3,058.07	1/2	2,697.48	1/2	2,337.26
3/4		3/4		3/4		3/4	4,322.92	3/4	4,112.94	3/4	3,894.10	3/4	3,653.21	3/4	3,391.62	3/4	3,050.56	3/4	2,689.97	3/4	2,329.76
11		11		11		11	4,317.37	11	4,108.59	11	3,889.29	11	3,647.95	11	3,386.07	11	3,043.05	11	2,682.46	11	2,322.26
1/4		1/4		1/4		1/4	4,311.82	1/4	4,104.24	1/4	3,884.49	1/4	3,642.69	1/4	3,380.52	1/4	3,035.54	1/4	2,674.95	1/4	2,314.77
1/2		1/2		1/2		1/2	4,306.27	1/2	4,099.89	1/2	3,879.68	1/2	3,637.42	1/2	3,374.97	1/2	3,028.03	1/2	2,667.44	1/2	2,307.27
3/4		3/4		3/4		3/4	4,300.72	3/4	4,095.55	3/4	3,874.87	3/4	3,632.16	3/4	3,369.42	3/4	3,020.51	3/4	2,659.92	3/4	2,299.77

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC CLOSED GAUGING DEVICE"  
 GAUGE POINT: (HERMETIC) LOCATED 12'-03" OFF CENTERLINE AND 45'-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 27017"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY: CTCO 356

GAUGE HEIGHT 16'-04 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,292.25	0	1,931.51	0	1,572.43	0	1,212.78	0	852.04	0	502.72	0	143.26	0		0		0	
1/4	2,284.74	1/4	1,924.00	1/4	1,564.97	1/4	1,205.26	1/4	844.53	1/4	495.46	1/4	135.74	1/4	1/4		1/4		1/4
1/2	2,277.22	1/2	1,916.48	1/2	1,557.51	1/2	1,197.75	1/2	837.01	1/2	488.20	1/2	128.23	1/2	1/2		1/2		1/2
3/4	2,269.71	3/4	1,908.97	3/4	1,550.05	3/4	1,190.23	3/4	829.50	3/4	480.93	3/4	120.71	3/4	3/4		3/4		3/4
1	2,262.19	1	1,901.45	1	1,542.60	1	1,182.72	1	822.11	1	473.55	1	113.20	1	1		1		1
1/4	2,254.68	1/4	1,893.94	1/4	1,535.14	1/4	1,175.20	1/4	814.72	1/4	466.16	1/4	105.68	1/4	1/4		1/4		1/4
1/2	2,247.16	1/2	1,886.42	1/2	1,527.68	1/2	1,167.69	1/2	807.33	1/2	458.77	1/2	98.17	1/2	1/2		1/2		1/2
3/4	2,239.64	3/4	1,878.91	3/4	1,520.22	3/4	1,160.17	3/4	799.94	3/4	451.38	3/4	90.65	3/4	3/4		3/4		3/4
2	2,232.13	2	1,871.39	2	1,512.76	2	1,152.66	2	792.69	2	443.86	2	83.14	2	2		2		2
1/4	2,224.61	1/4	1,863.87	1/4	1,505.31	1/4	1,145.14	1/4	785.43	1/4	436.35	1/4	75.62	1/4	1/4		1/4		1/4
1/2	2,217.10	1/2	1,856.36	1/2	1,497.85	1/2	1,137.63	1/2	778.18	1/2	428.83	1/2	68.11	1/2	1/2		1/2		1/2
3/4	2,209.58	3/4	1,848.84	3/4	1,490.39	3/4	1,130.11	3/4	770.92	3/4	421.32	3/4	60.59	3/4	3/4		3/4		3/4
3	2,202.07	3	1,841.33	3	1,482.93	3	1,122.59	3	763.67	3	413.80	3	54.02	3	3		3		3
1/4	2,194.55	1/4	1,833.81	1/4	1,475.47	1/4	1,115.08	1/4	756.43	1/4	406.29	1/4	47.44	1/4	1/4		1/4		1/4
1/2	2,187.04	1/2	1,826.30	1/2	1,468.01	1/2	1,107.56	1/2	749.18	1/2	398.77	1/2	40.87	1/2	1/2		1/2		1/2
3/4	2,179.52	3/4	1,818.78	3/4	1,460.56	3/4	1,100.05	3/4	741.93	3/4	391.26	3/4	34.29	3/4	3/4		3/4		3/4
4	2,172.01	4	1,811.27	4	1,453.10	4	1,092.53	4	734.68	4	383.74	4	29.59	4	4		4		4
1/4	2,164.49	1/4	1,803.75	1/4	1,445.64	1/4	1,085.02	1/4	727.44	1/4	376.23	1/4	24.88	1/4	1/4		1/4		1/4
1/2	2,156.98	1/2	1,796.24	1/2	1,438.18	1/2	1,077.50	1/2	720.19	1/2	368.71	1/2	20.18	1/2	1/2		1/2		1/2
3/4	2,149.46	3/4	1,788.72	3/4	1,430.72	3/4	1,069.99	3/4	712.94	3/4	361.20	3/4	15.47	3/4	3/4		3/4		3/4
5	2,141.94	5	1,781.26	5	1,423.21	5	1,062.47	5	705.69	5	353.68	5		5	5		5		5
1/4	2,134.43	1/4	1,773.80	1/4	1,415.69	1/4	1,054.96	1/4	698.45	1/4	346.17	1/4		1/4	1/4		1/4		1/4
1/2	2,126.91	1/2	1,766.35	1/2	1,408.18	1/2	1,047.44	1/2	691.20	1/2	338.65	1/2		1/2	1/2		1/2		1/2
3/4	2,119.40	3/4	1,758.89	3/4	1,400.66	3/4	1,039.93	3/4	683.95	3/4	331.14	3/4		3/4	3/4		3/4		3/4
6	2,111.88	6	1,751.43	6	1,393.15	6	1,032.41	6	676.70	6	323.62	6		6	6		6		6
1/4	2,104.37	1/4	1,743.97	1/4	1,385.63	1/4	1,024.90	1/4	669.45	1/4	316.11	1/4		1/4	1/4		1/4		1/4
1/2	2,096.85	1/2	1,736.51	1/2	1,378.11	1/2	1,017.38	1/2	662.21	1/2	308.59	1/2		1/2	1/2		1/2		1/2
3/4	2,089.34	3/4	1,729.05	3/4	1,370.60	3/4	1,009.87	3/4	654.96	3/4	301.08	3/4		3/4	3/4		3/4		3/4
7	2,081.82	7	1,721.60	7	1,363.08	7	1,002.35	7	647.71	7	293.56	7		7	7		7		7
1/4	2,074.31	1/4	1,714.14	1/4	1,355.57	1/4	994.83	1/4	640.47	1/4	286.05	1/4		1/4	1/4		1/4		1/4
1/2	2,066.79	1/2	1,706.68	1/2	1,348.05	1/2	987.32	1/2	633.22	1/2	278.53	1/2		1/2	1/2		1/2		1/2
3/4	2,059.27	3/4	1,699.22	3/4	1,340.54	3/4	979.80	3/4	625.97	3/4	271.02	3/4		3/4	3/4		3/4		3/4
8	2,051.76	8	1,691.76	8	1,333.02	8	972.29	8	618.73	8	263.50	8		8	8		8		8
1/4	2,044.24	1/4	1,684.30	1/4	1,325.51	1/4	964.77	1/4	611.48	1/4	255.99	1/4		1/4	1/4		1/4		1/4
1/2	2,036.73	1/2	1,676.85	1/2	1,317.99	1/2	957.26	1/2	604.23	1/2	248.47	1/2		1/2	1/2		1/2		1/2
3/4	2,029.21	3/4	1,669.39	3/4	1,310.48	3/4	949.74	3/4	596.99	3/4	240.96	3/4		3/4	3/4		3/4		3/4
9	2,021.70	9	1,661.93	9	1,302.96	9	942.23	9	589.74	9	233.44	9		9	9		9		9
1/4	2,014.18	1/4	1,654.47	1/4	1,295.45	1/4	934.71	1/4	582.49	1/4	225.93	1/4		1/4	1/4		1/4		1/4
1/2	2,006.67	1/2	1,647.01	1/2	1,287.93	1/2	927.20	1/2	575.24	1/2	218.41	1/2		1/2	1/2		1/2		1/2
3/4	1,999.15	3/4	1,639.55	3/4	1,280.42	3/4	919.68	3/4	567.99	3/4	210.90	3/4		3/4	3/4		3/4		3/4
10	1,991.64	10	1,632.10	10	1,272.90	10	912.17	10	560.75	10	203.38	10		10	10		10		10
1/4	1,984.12	1/4	1,624.64	1/4	1,265.39	1/4	904.65	1/4	553.50	1/4	195.86	1/4		1/4	1/4		1/4		1/4
1/2	1,976.61	1/2	1,617.18	1/2	1,257.87	1/2	897.14	1/2	546.25	1/2	188.35	1/2		1/2	1/2		1/2		1/2
3/4	1,969.09	3/4	1,609.72	3/4	1,250.35	3/4	889.62	3/4	539.00	3/4	180.83	3/4		3/4	3/4		3/4		3/4
11	1,961.57	11	1,602.26	11	1,242.84	11	882.11	11	531.75	11	173.32	11		11	11		11		11
1/4	1,954.06	1/4	1,594.80	1/4	1,235.32	1/4	874.59	1/4	524.50	1/4	165.80	1/4		1/4	1/4		1/4		1/4
1/2	1,946.54	1/2	1,587.35	1/2	1,227.81	1/2	867.07	1/2	517.24	1/2	158.29	1/2		1/2	1/2		1/2		1/2
3/4	1,939.03	3/4	1,579.89	3/4	1,220.29	3/4	859.56	3/4	509.99	3/4	150.77	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/09/2014 PMA  
RECALCULATED: 09/08/2019 SW  
NAME CHANGE: 09/09/2019

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2019

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