



# BARGE "KIRBY 10121"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 163'-06"

April 9, 2014

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

<http://www.pmacorp.net>



# BARGE "KIRBY 10121"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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		0	3,554.32	0	3,301.40	0	3,048.49	0	2,789.89	0	2,494.29	0	2,197.98
1/4		1/4		1/4		1/4		1/4	3,549.05	1/4	3,296.13	1/4	3,043.22	1/4	2,783.74	1/4	2,488.11	1/4	2,191.81
1/2		1/2		1/2		1/2		1/2	3,764.62	1/2	3,543.78	1/2	3,290.87	1/2	3,037.95	1/2	2,777.58	1/2	2,481.94
3/4		3/4		3/4		3/4		3/4	3,763.59	3/4	3,538.51	3/4	3,285.60	3/4	3,032.68	3/4	2,771.43	3/4	2,475.77
1		1		1		1		1	3,762.56	1	3,533.24	1	3,280.33	1	3,027.41	1	2,765.28	1	2,469.60
1/4		1/4		1/4		1/4		1/4	3,761.53	1/4	3,527.97	1/4	3,275.06	1/4	3,022.14	1/4	2,759.12	1/4	2,463.42
1/2		1/2		1/2		1/2		1/2	3,760.49	1/2	3,522.71	1/2	3,269.79	1/2	3,016.87	1/2	2,752.97	1/2	2,457.25
3/4		3/4		3/4		3/4		3/4	3,757.39	3/4	3,517.44	3/4	3,264.52	3/4	3,011.60	3/4	2,746.81	3/4	2,451.08
2		2		2		2		2	3,754.29	2	3,512.17	2	3,259.25	2	3,006.33	2	2,740.66	2	2,444.90
1/4		1/4		1/4		1/4		1/4	3,751.20	1/4	3,506.90	1/4	3,253.98	1/4	3,001.06	1/4	2,734.50	1/4	2,438.73
1/2		1/2		1/2		1/2		1/2	3,748.10	1/2	3,501.63	1/2	3,248.71	1/2	2,995.80	1/2	2,728.35	1/2	2,432.56
3/4		3/4		3/4		3/4		3/4	3,743.95	3/4	3,496.36	3/4	3,243.44	3/4	2,990.53	3/4	2,722.19	3/4	2,426.38
3		3		3		3		3	3,739.80	3	3,491.09	3	3,238.17	3	2,985.26	3	2,716.04	3	2,420.21
1/4		1/4		1/4		1/4		1/4	3,735.65	1/4	3,485.82	1/4	3,232.91	1/4	2,979.99	1/4	2,709.88	1/4	2,414.04
1/2		1/2		1/2		1/2		1/2	3,731.50	1/2	3,480.55	1/2	3,227.64	1/2	2,974.72	1/2	2,703.73	1/2	2,407.86
3/4		3/4		3/4		3/4		3/4	3,726.36	3/4	3,475.28	3/4	3,222.37	3/4	2,969.45	3/4	2,697.57	3/4	2,401.69
4		4		4		4		4	3,721.23	4	3,470.01	4	3,217.10	4	2,964.18	4	2,691.42	4	2,395.52
1/4		1/4		1/4		1/4		1/4	3,716.09	1/4	3,464.75	1/4	3,211.83	1/4	2,958.91	1/4	2,685.27	1/4	2,389.34
1/2		1/2		1/2		1/2		1/2	3,710.96	1/2	3,459.48	1/2	3,206.56	1/2	2,953.64	1/2	2,679.11	1/2	2,383.17
3/4		3/4		3/4		3/4		3/4	3,705.79	3/4	3,454.21	3/4	3,201.29	3/4	2,948.37	3/4	2,672.96	3/4	2,377.00
5		5		5		5		5	3,700.62	5	3,448.94	5	3,196.02	5	2,943.10	5	2,666.80	5	2,370.83
1/4		1/4		1/4		1/4		1/4	3,695.45	1/4	3,443.67	1/4	3,190.75	1/4	2,937.84	1/4	2,660.65	1/4	2,364.65
1/2		1/2		1/2		1/2		1/2	3,690.28	1/2	3,438.40	1/2	3,185.48	1/2	2,932.57	1/2	2,654.49	1/2	2,358.48
3/4		3/4		3/4		3/4		3/4	3,685.09	3/4	3,433.13	3/4	3,180.21	3/4	2,927.30	3/4	2,648.34	3/4	2,352.31
6		6		6		6		6	3,679.91	6	3,427.86	6	3,174.95	6	2,922.03	6	2,642.18	6	2,346.13
1/4		1/4		1/4		1/4		1/4	3,674.72	1/4	3,422.59	1/4	3,169.68	1/4	2,916.76	1/4	2,636.03	1/4	2,339.96
1/2		1/2		1/2		1/2		1/2	3,669.54	1/2	3,417.32	1/2	3,164.41	1/2	2,911.49	1/2	2,629.87	1/2	2,333.79
3/4		3/4		3/4		3/4		3/4	3,664.36	3/4	3,412.05	3/4	3,159.14	3/4	2,906.22	3/4	2,623.72	3/4	2,327.61
7		7		7		7		7	3,659.18	7	3,406.79	7	3,153.87	7	2,900.95	7	2,617.56	7	2,321.44
1/4		1/4		1/4		1/4		1/4	3,654.00	1/4	3,401.52	1/4	3,148.60	1/4	2,895.68	1/4	2,611.41	1/4	2,315.27
1/2		1/2		1/2		1/2		1/2	3,648.81	1/2	3,396.25	1/2	3,143.33	1/2	2,890.41	1/2	2,605.26	1/2	2,309.09
3/4		3/4		3/4		3/4		3/4	3,643.63	3/4	3,390.98	3/4	3,138.06	3/4	2,885.14	3/4	2,599.10	3/4	2,302.92
8		8		8		8		8	3,638.45	8	3,385.71	8	3,132.79	8	2,879.88	8	2,592.95	8	2,296.75
1/4		1/4		1/4		1/4		1/4	3,633.27	1/4	3,380.44	1/4	3,127.52	1/4	2,874.61	1/4	2,586.79	1/4	2,290.58
1/2		1/2		1/2		1/2		1/2	3,628.09	1/2	3,375.17	1/2	3,122.25	1/2	2,869.34	1/2	2,580.64	1/2	2,284.40
3/4		3/4		3/4		3/4		3/4	3,622.82	3/4	3,369.90	3/4	3,116.99	3/4	2,864.04	3/4	2,574.48	3/4	2,278.23
9		9		9		9		9	3,617.55	9	3,364.63	9	3,111.72	9	2,858.75	9	2,568.33	9	2,272.06
1/4		1/4		1/4		1/4		1/4	3,612.28	1/4	3,359.36	1/4	3,106.45	1/4	2,853.46	1/4	2,562.17	1/4	2,265.88
1/2		1/2		1/2		1/2		1/2	3,607.01	1/2	3,354.09	1/2	3,101.18	1/2	2,848.16	1/2	2,556.02	1/2	2,259.71
3/4		3/4		3/4		3/4		3/4	3,601.74	3/4	3,348.83	3/4	3,095.91	3/4	2,842.87	3/4	2,549.85	3/4	2,253.54
10		10		10		10		10	3,596.47	10	3,343.56	10	3,090.64	10	2,837.57	10	2,543.67	10	2,247.36
1/4		1/4		1/4		1/4		1/4	3,591.20	1/4	3,338.29	1/4	3,085.37	1/4	2,832.28	1/4	2,537.50	1/4	2,241.19
1/2		1/2		1/2		1/2		1/2	3,585.94	1/2	3,333.02	1/2	3,080.10	1/2	2,826.99	1/2	2,531.33	1/2	2,235.02
3/4		3/4		3/4		3/4		3/4	3,580.67	3/4	3,327.75	3/4	3,074.83	3/4	2,820.79	3/4	2,525.15	3/4	2,228.84
11		11		11		11		11	3,575.40	11	3,322.48	11	3,069.56	11	2,814.59	11	2,518.98	11	2,222.67
1/4		1/4		1/4		1/4		1/4	3,570.13	1/4	3,317.21	1/4	3,064.29	1/4	2,808.40	1/4	2,512.81	1/4	2,216.50
1/2		1/2		1/2		1/2		1/2	3,564.86	1/2	3,311.94	1/2	3,059.03	1/2	2,802.20	1/2	2,506.63	1/2	2,210.33
3/4		3/4		3/4		3/4		3/4	3,559.59	3/4	3,306.67	3/4	3,053.76	3/4	2,796.05	3/4	2,500.46	3/4	2,204.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
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# BARGE "KIRBY 10121"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	1,901.67	0	1,605.14	0	1,308.42	0	1,011.70	0	720.82	0	424.17	0	127.23	0		0		0	
1/4	1,895.50	1/4	1,598.96	1/4	1,302.24	1/4	1,005.52	1/4	714.73	1/4	417.98	1/4	121.05	1/4		1/4		1/4	
1/2	1,889.32	1/2	1,592.78	1/2	1,296.06	1/2	999.34	1/2	708.64	1/2	411.79	1/2	114.87	1/2		1/2		1/2	
3/4	1,883.15	3/4	1,586.60	3/4	1,289.88	3/4	993.15	3/4	702.47	3/4	405.61	3/4	108.72	3/4		3/4		3/4	
1	1,876.98	1	1,580.42	1	1,283.69	1	986.97	1	696.31	1	399.42	1	102.56	1		1		1	
1/4	1,870.80	1/4	1,574.23	1/4	1,277.51	1/4	980.79	1/4	690.14	1/4	393.24	1/4	96.40	1/4		1/4		1/4	
1/2	1,864.63	1/2	1,568.05	1/2	1,271.33	1/2	974.61	1/2	683.97	1/2	387.05	1/2	90.24	1/2		1/2		1/2	
3/4	1,858.46	3/4	1,561.87	3/4	1,265.15	3/4	968.49	3/4	677.79	3/4	380.86	3/4	84.11	3/4		3/4		3/4	
2	1,852.29	2	1,555.69	2	1,258.97	2	962.37	2	671.60	2	374.68	2	77.99	2		2		2	
1/4	1,846.11	1/4	1,549.51	1/4	1,252.79	1/4	956.25	1/4	665.42	1/4	368.49	1/4	71.86	1/4		1/4		1/4	
1/2	1,839.94	1/2	1,543.33	1/2	1,246.60	1/2	950.13	1/2	659.23	1/2	362.31	1/2	65.74	1/2		1/2		1/2	
3/4	1,833.77	3/4	1,537.14	3/4	1,240.42	3/4	944.08	3/4	653.04	3/4	356.12	3/4	59.67	3/4		3/4		3/4	
3	1,827.59	3	1,530.96	3	1,234.24	3	938.02	3	646.86	3	349.93	3	53.60	3		3		3	
1/4	1,821.42	1/4	1,524.78	1/4	1,228.06	1/4	931.97	1/4	640.67	1/4	343.75	1/4	47.53	1/4		1/4		1/4	
1/2	1,815.25	1/2	1,518.60	1/2	1,221.88	1/2	925.91	1/2	634.49	1/2	337.56	1/2	41.46	1/2		1/2		1/2	
3/4	1,809.07	3/4	1,512.42	3/4	1,215.69	3/4	919.85	3/4	628.30	3/4	331.38	3/4	36.30	3/4		3/4		3/4	
4	1,802.88	4	1,506.23	4	1,209.51	4	913.80	4	622.12	4	325.19	4	31.15	4		4		4	
1/4	1,796.70	1/4	1,500.05	1/4	1,203.33	1/4	907.74	1/4	615.93	1/4	319.00	1/4	25.99	1/4		1/4		1/4	
1/2	1,790.52	1/2	1,493.87	1/2	1,197.15	1/2	901.69	1/2	609.75	1/2	312.82	1/2	20.83	1/2		1/2		1/2	
3/4	1,784.34	3/4	1,487.69	3/4	1,190.97	3/4	895.65	3/4	603.56	3/4	306.63	3/4	17.74	3/4		3/4		3/4	
5	1,778.16	5	1,481.51	5	1,184.79	5	889.61	5	597.37	5	300.45	5	14.64	5		5		5	
1/4	1,771.98	1/4	1,475.33	1/4	1,178.60	1/4	883.57	1/4	591.19	1/4	294.26	1/4	11.54	1/4		1/4		1/4	
1/2	1,765.79	1/2	1,469.14	1/2	1,172.42	1/2	877.53	1/2	585.00	1/2	288.07	1/2	8.44	1/2		1/2		1/2	
3/4	1,759.61	3/4	1,462.96	3/4	1,166.24	3/4	871.51	3/4	578.82	3/4	281.89	3/4	7.41	3/4		3/4		3/4	
6	1,753.43	6	1,456.78	6	1,160.06	6	865.49	6	572.63	6	275.70	6	6.38	6		6		6	
1/4	1,747.25	1/4	1,450.60	1/4	1,153.88	1/4	859.46	1/4	566.44	1/4	269.52	1/4	5.34	1/4		1/4		1/4	
1/2	1,741.07	1/2	1,444.42	1/2	1,147.70	1/2	853.44	1/2	560.26	1/2	263.33	1/2	4.31	1/2		1/2		1/2	
3/4	1,734.89	3/4	1,438.24	3/4	1,141.51	3/4	847.42	3/4	554.07	3/4	257.14	3/4		3/4		3/4		3/4	
7	1,728.71	7	1,432.05	7	1,135.33	7	841.40	7	547.89	7	250.96	7		7		7		7	
1/4	1,722.53	1/4	1,425.87	1/4	1,129.15	1/4	835.37	1/4	541.70	1/4	244.77	1/4		1/4		1/4		1/4	
1/2	1,716.35	1/2	1,419.69	1/2	1,122.97	1/2	829.35	1/2	535.51	1/2	238.59	1/2		1/2		1/2		1/2	
3/4	1,710.17	3/4	1,413.51	3/4	1,116.79	3/4	823.33	3/4	529.33	3/4	232.40	3/4		3/4		3/4		3/4	
8	1,703.99	8	1,407.33	8	1,110.61	8	817.31	8	523.14	8	226.21	8		8		8		8	
1/4	1,697.81	1/4	1,401.15	1/4	1,104.42	1/4	811.28	1/4	516.96	1/4	220.03	1/4		1/4		1/4		1/4	
1/2	1,691.63	1/2	1,394.96	1/2	1,098.24	1/2	805.26	1/2	510.77	1/2	213.84	1/2		1/2		1/2		1/2	
3/4	1,685.46	3/4	1,388.78	3/4	1,092.06	3/4	799.24	3/4	504.58	3/4	207.66	3/4		3/4		3/4		3/4	
9	1,679.28	9	1,382.60	9	1,085.88	9	793.22	9	498.40	9	201.47	9		9		9		9	
1/4	1,673.10	1/4	1,376.42	1/4	1,079.70	1/4	787.19	1/4	492.21	1/4	195.28	1/4		1/4		1/4		1/4	
1/2	1,666.92	1/2	1,370.24	1/2	1,073.52	1/2	781.17	1/2	486.03	1/2	189.10	1/2		1/2		1/2		1/2	
3/4	1,660.74	3/4	1,364.06	3/4	1,067.33	3/4	775.15	3/4	479.84	3/4	182.91	3/4		3/4		3/4		3/4	
10	1,654.56	10	1,357.87	10	1,061.15	10	769.12	10	473.65	10	176.73	10		10		10		10	
1/4	1,648.39	1/4	1,351.69	1/4	1,054.97	1/4	763.10	1/4	467.47	1/4	170.54	1/4		1/4		1/4		1/4	
1/2	1,642.21	1/2	1,345.51	1/2	1,048.79	1/2	757.08	1/2	461.28	1/2	164.36	1/2		1/2		1/2		1/2	
3/4	1,636.03	3/4	1,339.33	3/4	1,042.61	3/4	751.06	3/4	455.10	3/4	158.16	3/4		3/4		3/4		3/4	
11	1,629.85	11	1,333.15	11	1,036.43	11	745.03	11	448.91	11	151.97	11		11		11		11	
1/4	1,623.67	1/4	1,326.97	1/4	1,030.24	1/4	739.01	1/4	442.72	1/4	145.78	1/4		1/4		1/4		1/4	
1/2	1,617.49	1/2	1,320.78	1/2	1,024.06	1/2	732.99	1/2	436.54	1/2	139.59	1/2		1/2		1/2		1/2	
3/4	1,611.31	3/4	1,314.60	3/4	1,017.88	3/4	726.90	3/4	430.35	3/4	133.41	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 SW  
CALCULATED: 04/09/2014 CL  
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2014

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



# BARGE "KIRBY 10121"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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		0	3,264.01	0	3,001.80	0	2,739.59	0	2,476.97	0	2,213.36	0	1,949.74
1/4		1/4		1/4		1/4		1/4	3,258.55	1/4	2,996.34	1/4	2,734.13	1/4	2,471.48	1/4	2,207.86	1/4	1,944.25
1/2		1/2		1/2		1/2	3,480.02	1/2	3,253.09	1/2	2,990.88	1/2	2,728.67	1/2	2,465.99	1/2	2,202.37	1/2	1,938.76
3/4		3/4		3/4		3/4	3,479.10	3/4	3,247.62	3/4	2,985.41	3/4	2,723.20	3/4	2,460.50	3/4	2,196.88	3/4	1,933.26
1		1		1		1	3,478.19	1	3,242.16	1	2,979.95	1	2,717.74	1	2,455.00	1	2,191.39	1	1,927.77
1/4		1/4		1/4		1/4	3,477.27	1/4	3,236.70	1/4	2,974.49	1/4	2,712.28	1/4	2,449.51	1/4	2,185.90	1/4	1,922.28
1/2		1/2		1/2		1/2	3,476.36	1/2	3,231.24	1/2	2,969.03	1/2	2,706.82	1/2	2,444.02	1/2	2,180.40	1/2	1,916.79
3/4		3/4		3/4		3/4	3,473.61	3/4	3,225.77	3/4	2,963.56	3/4	2,701.35	3/4	2,438.53	3/4	2,174.91	3/4	1,911.30
2		2		2		2	3,470.86	2	3,220.31	2	2,958.10	2	2,695.89	2	2,433.04	2	2,169.42	2	1,905.80
1/4		1/4		1/4		1/4	3,468.11	1/4	3,214.85	1/4	2,952.64	1/4	2,690.43	1/4	2,427.54	1/4	2,163.93	1/4	1,900.31
1/2		1/2		1/2		1/2	3,465.36	1/2	3,209.38	1/2	2,947.17	1/2	2,684.97	1/2	2,422.05	1/2	2,158.44	1/2	1,894.82
3/4		3/4		3/4		3/4	3,460.91	3/4	3,203.92	3/4	2,941.71	3/4	2,679.50	3/4	2,416.56	3/4	2,152.94	3/4	1,889.33
3		3		3		3	3,456.47	3	3,198.46	3	2,936.25	3	2,674.04	3	2,411.07	3	2,147.45	3	1,883.84
1/4		1/4		1/4		1/4	3,452.02	1/4	3,193.00	1/4	2,930.79	1/4	2,668.58	1/4	2,405.58	1/4	2,141.96	1/4	1,878.34
1/2		1/2		1/2		1/2	3,447.57	1/2	3,187.53	1/2	2,925.32	1/2	2,663.11	1/2	2,400.08	1/2	2,136.47	1/2	1,872.85
3/4		3/4		3/4		3/4	3,442.24	3/4	3,182.07	3/4	2,919.86	3/4	2,657.65	3/4	2,394.59	3/4	2,130.98	3/4	1,867.36
4		4		4		4	3,436.92	4	3,176.61	4	2,914.40	4	2,652.19	4	2,389.10	4	2,125.48	4	1,861.87
1/4		1/4		1/4		1/4	3,431.60	1/4	3,171.15	1/4	2,908.94	1/4	2,646.73	1/4	2,383.61	1/4	2,119.99	1/4	1,856.38
1/2		1/2		1/2		1/2	3,426.27	1/2	3,165.68	1/2	2,903.47	1/2	2,641.26	1/2	2,378.12	1/2	2,114.50	1/2	1,850.88
3/4		3/4		3/4		3/4	3,420.92	3/4	3,160.22	3/4	2,898.01	3/4	2,635.80	3/4	2,372.62	3/4	2,109.01	3/4	1,845.39
5		5		5		5	3,415.56	5	3,154.76	5	2,892.55	5	2,630.34	5	2,367.13	5	2,103.52	5	1,839.90
1/4		1/4		1/4		1/4	3,410.21	1/4	3,149.29	1/4	2,887.09	1/4	2,624.88	1/4	2,361.64	1/4	2,098.02	1/4	1,834.41
1/2		1/2		1/2		1/2	3,404.86	1/2	3,143.83	1/2	2,881.62	1/2	2,619.41	1/2	2,356.15	1/2	2,092.53	1/2	1,828.92
3/4		3/4		3/4		3/4	3,399.49	3/4	3,138.37	3/4	2,876.16	3/4	2,613.95	3/4	2,350.66	3/4	2,087.04	3/4	1,823.42
6		6		6		6	3,394.12	6	3,132.91	6	2,870.70	6	2,608.49	6	2,345.16	6	2,081.55	6	1,817.93
1/4		1/4		1/4		1/4	3,388.76	1/4	3,127.44	1/4	2,865.23	1/4	2,603.02	1/4	2,339.67	1/4	2,076.06	1/4	1,812.44
1/2		1/2		1/2		1/2	3,383.39	1/2	3,121.98	1/2	2,859.77	1/2	2,597.56	1/2	2,334.18	1/2	2,070.56	1/2	1,806.95
3/4		3/4		3/4		3/4	3,378.03	3/4	3,116.52	3/4	2,854.31	3/4	2,592.10	3/4	2,328.69	3/4	2,065.07	3/4	1,801.46
7		7		7		7	3,372.66	7	3,111.06	7	2,848.85	7	2,586.64	7	2,323.20	7	2,059.58	7	1,795.96
1/4		1/4		1/4		1/4	3,367.30	1/4	3,105.59	1/4	2,843.38	1/4	2,581.17	1/4	2,317.70	1/4	2,054.09	1/4	1,790.47
1/2		1/2		1/2		1/2	3,361.94	1/2	3,100.13	1/2	2,837.92	1/2	2,575.71	1/2	2,312.21	1/2	2,048.60	1/2	1,784.98
3/4		3/4		3/4		3/4	3,356.58	3/4	3,094.67	3/4	2,832.46	3/4	2,570.25	3/4	2,306.72	3/4	2,043.10	3/4	1,779.49
8		8		8		8	3,351.21	8	3,089.20	8	2,827.00	8	2,564.79	8	2,301.23	8	2,037.61	8	1,774.00
1/4		1/4		1/4		1/4	3,345.85	1/4	3,083.74	1/4	2,821.53	1/4	2,559.32	1/4	2,295.74	1/4	2,032.12	1/4	1,768.50
1/2		1/2		1/2		1/2	3,340.49	1/2	3,078.28	1/2	2,816.07	1/2	2,553.86	1/2	2,290.24	1/2	2,026.63	1/2	1,763.01
3/4		3/4		3/4		3/4	3,335.03	3/4	3,072.82	3/4	2,810.61	3/4	2,548.37	3/4	2,284.75	3/4	2,021.14	3/4	1,757.52
9		9		9		9	3,329.56	9	3,067.35	9	2,805.14	9	2,542.88	9	2,279.26	9	2,015.64	9	1,752.03
1/4		1/4		1/4		1/4	3,324.10	1/4	3,061.89	1/4	2,799.68	1/4	2,537.38	1/4	2,273.77	1/4	2,010.15	1/4	1,746.54
1/2		1/2		1/2		1/2	3,318.64	1/2	3,056.43	1/2	2,794.22	1/2	2,531.89	1/2	2,268.28	1/2	2,004.66	1/2	1,741.04
3/4		3/4		3/4		3/4	3,313.18	3/4	3,050.97	3/4	2,788.76	3/4	2,526.40	3/4	2,262.78	3/4	1,999.17	3/4	1,735.55
10		10		10		10	3,307.71	10	3,045.50	10	2,783.29	10	2,520.91	10	2,257.29	10	1,993.68	10	1,730.06
1/4		1/4		1/4		1/4	3,302.25	1/4	3,040.04	1/4	2,777.83	1/4	2,515.42	1/4	2,251.80	1/4	1,988.18	1/4	1,724.57
1/2		1/2		1/2		1/2	3,296.79	1/2	3,034.58	1/2	2,772.37	1/2	2,509.92	1/2	2,246.31	1/2	1,982.69	1/2	1,719.08
3/4		3/4		3/4		3/4	3,291.32	3/4	3,029.12	3/4	2,766.91	3/4	2,504.43	3/4	2,240.82	3/4	1,977.20	3/4	1,713.58
11		11		11		11	3,285.86	11	3,023.65	11	2,761.44	11	2,498.94	11	2,235.32	11	1,971.71	11	1,708.09
1/4		1/4		1/4		1/4	3,280.40	1/4	3,018.19	1/4	2,755.98	1/4	2,493.45	1/4	2,229.83	1/4	1,966.22	1/4	1,702.60
1/2		1/2		1/2		1/2	3,274.94	1/2	3,012.73	1/2	2,750.52	1/2	2,487.96	1/2	2,224.34	1/2	1,960.72	1/2	1,697.11
3/4		3/4		3/4		3/4	3,269.47	3/4	3,007.26	3/4	2,745.05	3/4	2,482.46	3/4	2,218.85	3/4	1,955.23	3/4	1,691.62

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 10121"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	1,686.12	0	1,422.51	0	1,158.74	0	896.65	0	637.04	0	373.37	0	109.67	0		0		0	
1/4	1,680.63	1/4	1,417.02	1/4	1,153.24	1/4	891.24	1/4	631.59	1/4	367.87	1/4	104.19	1/4		1/4		1/4	
1/2	1,675.14	1/2	1,411.52	1/2	1,147.75	1/2	885.83	1/2	626.14	1/2	362.38	1/2	98.71	1/2		1/2		1/2	
3/4	1,669.65	3/4	1,406.03	3/4	1,142.25	3/4	880.42	3/4	620.64	3/4	356.88	3/4	93.25	3/4		3/4		3/4	
1	1,664.16	1	1,400.53	1	1,136.75	1	875.01	1	615.15	1	351.39	1	87.79	1		1		1	
1/4	1,658.66	1/4	1,395.04	1/4	1,131.26	1/4	869.60	1/4	609.65	1/4	345.89	1/4	82.33	1/4		1/4		1/4	
1/2	1,653.17	1/2	1,389.54	1/2	1,125.76	1/2	864.19	1/2	604.16	1/2	340.40	1/2	76.87	1/2		1/2		1/2	
3/4	1,647.68	3/4	1,384.05	3/4	1,120.27	3/4	858.78	3/4	598.66	3/4	334.90	3/4	71.44	3/4		3/4		3/4	
2	1,642.19	2	1,378.55	2	1,114.77	2	853.37	2	593.17	2	329.41	2	66.01	2		2		2	
1/4	1,636.70	1/4	1,373.06	1/4	1,109.28	1/4	847.96	1/4	587.67	1/4	323.91	1/4	60.57	1/4		1/4		1/4	
1/2	1,631.20	1/2	1,367.56	1/2	1,103.78	1/2	842.55	1/2	582.18	1/2	318.42	1/2	55.14	1/2		1/2		1/2	
3/4	1,625.71	3/4	1,362.07	3/4	1,098.29	3/4	837.14	3/4	576.68	3/4	312.92	3/4	49.76	3/4		3/4		3/4	
3	1,620.22	3	1,356.57	3	1,092.79	3	831.73	3	571.19	3	307.43	3	44.38	3		3		3	
1/4	1,614.73	1/4	1,351.07	1/4	1,087.30	1/4	826.32	1/4	565.69	1/4	301.93	1/4	39.00	1/4		1/4		1/4	
1/2	1,609.24	1/2	1,345.58	1/2	1,081.80	1/2	820.91	1/2	560.20	1/2	296.44	1/2	33.62	1/2		1/2		1/2	
3/4	1,603.74	3/4	1,340.08	3/4	1,076.30	3/4	815.50	3/4	554.70	3/4	290.94	3/4	29.04	3/4		3/4		3/4	
4	1,598.25	4	1,334.59	4	1,070.81	4	810.10	4	549.21	4	285.45	4	24.47	4		4		4	
1/4	1,592.76	1/4	1,329.09	1/4	1,065.31	1/4	804.69	1/4	543.71	1/4	279.95	1/4	19.90	1/4		1/4		1/4	
1/2	1,587.27	1/2	1,323.60	1/2	1,059.82	1/2	799.29	1/2	538.22	1/2	274.46	1/2	15.33	1/2		1/2		1/2	
3/4	1,581.78	3/4	1,318.10	3/4	1,054.32	3/4	793.88	3/4	532.72	3/4	268.96	3/4	12.58	3/4		3/4		3/4	
5	1,576.28	5	1,312.61	5	1,048.83	5	788.48	5	527.23	5	263.47	5	9.84	5		5		5	
1/4	1,570.79	1/4	1,307.11	1/4	1,043.33	1/4	783.07	1/4	521.73	1/4	257.97	1/4	7.09	1/4		1/4		1/4	
1/2	1,565.30	1/2	1,301.62	1/2	1,037.84	1/2	777.67	1/2	516.24	1/2	252.48	1/2	4.34	1/2		1/2		1/2	
3/4	1,559.81	3/4	1,296.12	3/4	1,032.34	3/4	772.26	3/4	510.74	3/4	246.98	3/4	3.43	3/4		3/4		3/4	
6	1,554.32	6	1,290.63	6	1,026.85	6	766.86	6	505.25	6	241.49	6	2.51	6		6		6	
1/4	1,548.82	1/4	1,285.13	1/4	1,021.35	1/4	761.45	1/4	499.75	1/4	235.99	1/4	1.60	1/4		1/4		1/4	
1/2	1,543.33	1/2	1,279.63	1/2	1,015.86	1/2	756.05	1/2	494.26	1/2	230.50	1/2	0.68	1/2		1/2		1/2	
3/4	1,537.84	3/4	1,274.14	3/4	1,010.40	3/4	750.64	3/4	488.76	3/4	225.00	3/4		3/4		3/4		3/4	
7	1,532.35	7	1,268.64	7	1,004.95	7	745.24	7	483.27	7	219.51	7		7		7		7	
1/4	1,526.86	1/4	1,263.15	1/4	999.49	1/4	739.83	1/4	477.77	1/4	214.01	1/4		1/4		1/4		1/4	
1/2	1,521.36	1/2	1,257.65	1/2	994.04	1/2	734.43	1/2	472.28	1/2	208.52	1/2		1/2		1/2		1/2	
3/4	1,515.87	3/4	1,252.16	3/4	988.63	3/4	729.02	3/4	466.78	3/4	203.02	3/4		3/4		3/4		3/4	
8	1,510.38	8	1,246.66	8	983.22	8	723.61	8	461.29	8	197.53	8		8		8		8	
1/4	1,504.89	1/4	1,241.17	1/4	977.81	1/4	718.21	1/4	455.79	1/4	192.03	1/4		1/4		1/4		1/4	
1/2	1,499.40	1/2	1,235.67	1/2	972.40	1/2	712.80	1/2	450.30	1/2	186.54	1/2		1/2		1/2		1/2	
3/4	1,493.90	3/4	1,230.18	3/4	966.99	3/4	707.40	3/4	444.80	3/4	181.04	3/4		3/4		3/4		3/4	
9	1,488.41	9	1,224.68	9	961.58	9	701.99	9	439.31	9	175.55	9		9		9		9	
1/4	1,482.92	1/4	1,219.19	1/4	956.17	1/4	696.59	1/4	433.81	1/4	170.05	1/4		1/4		1/4		1/4	
1/2	1,477.43	1/2	1,213.69	1/2	950.76	1/2	691.18	1/2	428.32	1/2	164.56	1/2		1/2		1/2		1/2	
3/4	1,471.94	3/4	1,208.19	3/4	945.35	3/4	685.78	3/4	422.82	3/4	159.06	3/4		3/4		3/4		3/4	
10	1,466.44	10	1,202.70	10	939.94	10	680.37	10	417.33	10	153.57	10		10		10		10	
1/4	1,460.95	1/4	1,197.20	1/4	934.53	1/4	674.97	1/4	411.83	1/4	148.08	1/4		1/4		1/4		1/4	
1/2	1,455.46	1/2	1,191.71	1/2	929.12	1/2	669.56	1/2	406.34	1/2	142.58	1/2		1/2		1/2		1/2	
3/4	1,449.97	3/4	1,186.21	3/4	923.71	3/4	664.16	3/4	400.84	3/4	137.09	3/4		3/4		3/4		3/4	
11	1,444.48	11	1,180.72	11	918.30	11	658.75	11	395.35	11	131.60	11		11		11		11	
1/4	1,438.98	1/4	1,175.22	1/4	912.89	1/4	653.35	1/4	389.85	1/4	126.11	1/4		1/4		1/4		1/4	
1/2	1,433.49	1/2	1,169.73	1/2	907.47	1/2	647.95	1/2	384.36	1/2	120.62	1/2		1/2		1/2		1/2	
3/4	1,428.00	3/4	1,164.23	3/4	902.06	3/4	642.49	3/4	378.86	3/4	115.14	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2014 SW  
CALCULATED: 04/09/2014 CL  
PRINTED: 04/09/2014 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2014

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



# BARGE "KIRBY 10121"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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		0	3,244.23	0	2,983.96	0	2,723.69	0	2,463.01	0	2,201.34	0	1,939.67
1/4		1/4		1/4		1/4		1/4	3,238.81	1/4	2,978.54	1/4	2,718.27	1/4	2,457.56	1/4	2,195.89	1/4	1,934.21
1/2		1/2		1/2		1/2	3,458.64	1/2	3,233.39	1/2	2,973.11	1/2	2,712.84	1/2	2,452.11	1/2	2,190.43	1/2	1,928.76
3/4		3/4		3/4		3/4	3,457.73	3/4	3,227.96	3/4	2,967.69	3/4	2,707.42	3/4	2,446.66	3/4	2,184.98	3/4	1,923.31
1		1		1		1	3,456.82	1	3,222.54	1	2,962.27	1	2,702.00	1	2,441.20	1	2,179.53	1	1,917.86
1/4		1/4		1/4		1/4	3,455.92	1/4	3,217.12	1/4	2,956.85	1/4	2,696.58	1/4	2,435.75	1/4	2,174.08	1/4	1,912.41
1/2		1/2		1/2		1/2	3,455.01	1/2	3,211.70	1/2	2,951.43	1/2	2,691.16	1/2	2,430.30	1/2	2,168.63	1/2	1,906.96
3/4		3/4		3/4		3/4	3,452.28	3/4	3,206.27	3/4	2,946.00	3/4	2,685.73	3/4	2,424.85	3/4	2,163.18	3/4	1,901.51
2		2		2		2	3,449.55	2	3,200.85	2	2,940.58	2	2,680.31	2	2,419.40	2	2,157.73	2	1,896.05
1/4		1/4		1/4		1/4	3,446.82	1/4	3,195.43	1/4	2,935.16	1/4	2,674.89	1/4	2,413.95	1/4	2,152.27	1/4	1,890.60
1/2		1/2		1/2		1/2	3,444.10	1/2	3,190.01	1/2	2,929.74	1/2	2,669.47	1/2	2,408.49	1/2	2,146.82	1/2	1,885.15
3/4		3/4		3/4		3/4	3,439.68	3/4	3,184.58	3/4	2,924.31	3/4	2,664.04	3/4	2,403.04	3/4	2,141.37	3/4	1,879.70
3		3		3		3	3,435.26	3	3,179.16	3	2,918.89	3	2,658.62	3	2,397.59	3	2,135.92	3	1,874.25
1/4		1/4		1/4		1/4	3,430.85	1/4	3,173.74	1/4	2,913.47	1/4	2,653.20	1/4	2,392.14	1/4	2,130.47	1/4	1,868.80
1/2		1/2		1/2		1/2	3,426.43	1/2	3,168.32	1/2	2,908.05	1/2	2,647.78	1/2	2,386.69	1/2	2,125.02	1/2	1,863.34
3/4		3/4		3/4		3/4	3,421.15	3/4	3,162.90	3/4	2,902.62	3/4	2,642.35	3/4	2,381.24	3/4	2,119.57	3/4	1,857.89
4		4		4		4	3,415.87	4	3,157.47	4	2,897.20	4	2,636.93	4	2,375.79	4	2,114.11	4	1,852.44
1/4		1/4		1/4		1/4	3,410.58	1/4	3,152.05	1/4	2,891.78	1/4	2,631.51	1/4	2,370.33	1/4	2,108.66	1/4	1,846.99
1/2		1/2		1/2		1/2	3,405.30	1/2	3,146.63	1/2	2,886.36	1/2	2,626.09	1/2	2,364.88	1/2	2,103.21	1/2	1,841.54
3/4		3/4		3/4		3/4	3,399.98	3/4	3,141.21	3/4	2,880.94	3/4	2,620.67	3/4	2,359.43	3/4	2,097.76	3/4	1,836.09
5		5		5		5	3,394.67	5	3,135.78	5	2,875.51	5	2,615.24	5	2,353.98	5	2,092.31	5	1,830.64
1/4		1/4		1/4		1/4	3,389.36	1/4	3,130.36	1/4	2,870.09	1/4	2,609.82	1/4	2,348.53	1/4	2,086.86	1/4	1,825.18
1/2		1/2		1/2		1/2	3,384.04	1/2	3,124.94	1/2	2,864.67	1/2	2,604.40	1/2	2,343.08	1/2	2,081.40	1/2	1,819.73
3/4		3/4		3/4		3/4	3,378.71	3/4	3,119.52	3/4	2,859.25	3/4	2,598.98	3/4	2,337.63	3/4	2,075.95	3/4	1,814.28
6		6		6		6	3,373.38	6	3,114.09	6	2,853.82	6	2,593.55	6	2,332.17	6	2,070.50	6	1,808.83
1/4		1/4		1/4		1/4	3,368.06	1/4	3,108.67	1/4	2,848.40	1/4	2,588.13	1/4	2,326.72	1/4	2,065.05	1/4	1,803.38
1/2		1/2		1/2		1/2	3,362.73	1/2	3,103.25	1/2	2,842.98	1/2	2,582.71	1/2	2,321.27	1/2	2,059.60	1/2	1,797.93
3/4		3/4		3/4		3/4	3,357.40	3/4	3,097.83	3/4	2,837.56	3/4	2,577.29	3/4	2,315.82	3/4	2,054.15	3/4	1,792.48
7		7		7		7	3,352.08	7	3,092.41	7	2,832.13	7	2,571.86	7	2,310.37	7	2,048.70	7	1,787.02
1/4		1/4		1/4		1/4	3,346.76	1/4	3,086.98	1/4	2,826.71	1/4	2,566.44	1/4	2,304.92	1/4	2,043.24	1/4	1,781.57
1/2		1/2		1/2		1/2	3,341.43	1/2	3,081.56	1/2	2,821.29	1/2	2,561.02	1/2	2,299.46	1/2	2,037.79	1/2	1,776.12
3/4		3/4		3/4		3/4	3,336.11	3/4	3,076.14	3/4	2,815.87	3/4	2,555.60	3/4	2,294.01	3/4	2,032.34	3/4	1,770.67
8		8		8		8	3,330.79	8	3,070.72	8	2,810.45	8	2,550.18	8	2,288.56	8	2,026.89	8	1,765.22
1/4		1/4		1/4		1/4	3,325.47	1/4	3,065.29	1/4	2,805.02	1/4	2,544.75	1/4	2,283.11	1/4	2,021.44	1/4	1,759.77
1/2		1/2		1/2		1/2	3,320.14	1/2	3,059.87	1/2	2,799.60	1/2	2,539.33	1/2	2,277.66	1/2	2,015.99	1/2	1,754.31
3/4		3/4		3/4		3/4	3,314.72	3/4	3,054.45	3/4	2,794.18	3/4	2,533.88	3/4	2,272.21	3/4	2,010.54	3/4	1,748.86
9		9		9		9	3,309.30	9	3,049.03	9	2,788.76	9	2,528.43	9	2,266.76	9	2,005.08	9	1,743.41
1/4		1/4		1/4		1/4	3,303.88	1/4	3,043.60	1/4	2,783.33	1/4	2,522.98	1/4	2,261.30	1/4	1,999.63	1/4	1,737.96
1/2		1/2		1/2		1/2	3,298.45	1/2	3,038.18	1/2	2,777.91	1/2	2,517.52	1/2	2,255.85	1/2	1,994.18	1/2	1,732.51
3/4		3/4		3/4		3/4	3,293.03	3/4	3,032.76	3/4	2,772.49	3/4	2,512.07	3/4	2,250.40	3/4	1,988.73	3/4	1,727.06
10		10		10		10	3,287.61	10	3,027.34	10	2,767.07	10	2,506.62	10	2,244.95	10	1,983.28	10	1,721.61
1/4		1/4		1/4		1/4	3,282.19	1/4	3,021.92	1/4	2,761.65	1/4	2,501.17	1/4	2,239.50	1/4	1,977.83	1/4	1,716.15
1/2		1/2		1/2		1/2	3,276.76	1/2	3,016.49	1/2	2,756.22	1/2	2,495.72	1/2	2,234.05	1/2	1,972.37	1/2	1,710.70
3/4		3/4		3/4		3/4	3,271.34	3/4	3,011.07	3/4	2,750.80	3/4	2,490.27	3/4	2,228.60	3/4	1,966.92	3/4	1,705.25
11		11		11		11	3,265.92	11	3,005.65	11	2,745.38	11	2,484.82	11	2,223.14	11	1,961.47	11	1,699.80
1/4		1/4		1/4		1/4	3,260.50	1/4	3,000.23	1/4	2,739.96	1/4	2,479.36	1/4	2,217.69	1/4	1,956.02	1/4	1,694.35
1/2		1/2		1/2		1/2	3,255.07	1/2	2,994.80	1/2	2,734.53	1/2	2,473.91	1/2	2,212.24	1/2	1,950.57	1/2	1,688.90
3/4		3/4		3/4		3/4	3,249.65	3/4	2,989.38	3/4	2,729.11	3/4	2,468.46	3/4	2,206.79	3/4	1,945.12	3/4	1,683.45

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 10121"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	1,677.99	0	1,416.32	0	1,154.49	0	893.45	0	632.44	0	370.63	0	108.86	0		0		0	
1/4	1,672.54	1/4	1,410.87	1/4	1,149.03	1/4	888.03	1/4	626.99	1/4	365.17	1/4	103.43	1/4		1/4		1/4	
1/2	1,667.09	1/2	1,405.42	1/2	1,143.58	1/2	882.61	1/2	621.54	1/2	359.72	1/2	97.99	1/2		1/2		1/2	
3/4	1,661.64	3/4	1,399.96	3/4	1,138.12	3/4	877.19	3/4	616.08	3/4	354.26	3/4	92.57	3/4		3/4		3/4	
1	1,656.19	1	1,394.51	1	1,132.67	1	871.78	1	610.63	1	348.81	1	87.15	1		1		1	
1/4	1,650.74	1/4	1,389.05	1/4	1,127.21	1/4	866.36	1/4	605.17	1/4	343.35	1/4	81.73	1/4		1/4		1/4	
1/2	1,645.28	1/2	1,383.60	1/2	1,121.76	1/2	860.94	1/2	599.72	1/2	337.90	1/2	76.31	1/2		1/2		1/2	
3/4	1,639.83	3/4	1,378.14	3/4	1,116.30	3/4	855.52	3/4	594.27	3/4	332.44	3/4	70.92	3/4		3/4		3/4	
2	1,634.38	2	1,372.69	2	1,110.85	2	850.10	2	588.81	2	326.99	2	65.52	2		2		2	
1/4	1,628.93	1/4	1,367.23	1/4	1,105.39	1/4	844.68	1/4	583.36	1/4	321.54	1/4	60.13	1/4		1/4		1/4	
1/2	1,623.48	1/2	1,361.78	1/2	1,099.94	1/2	839.26	1/2	577.90	1/2	316.08	1/2	54.74	1/2		1/2		1/2	
3/4	1,618.03	3/4	1,356.32	3/4	1,094.48	3/4	833.84	3/4	572.45	3/4	310.63	3/4	49.40	3/4		3/4		3/4	
3	1,612.58	3	1,350.87	3	1,089.03	3	828.43	3	566.99	3	305.17	3	44.06	3		3		3	
1/4	1,607.12	1/4	1,345.41	1/4	1,083.57	1/4	823.01	1/4	561.54	1/4	299.72	1/4	38.71	1/4		1/4		1/4	
1/2	1,601.67	1/2	1,339.96	1/2	1,078.12	1/2	817.59	1/2	556.08	1/2	294.26	1/2	33.37	1/2		1/2		1/2	
3/4	1,596.22	3/4	1,334.50	3/4	1,072.66	3/4	812.18	3/4	550.63	3/4	288.81	3/4	28.84	3/4		3/4		3/4	
4	1,590.77	4	1,329.05	4	1,067.21	4	806.76	4	545.17	4	283.35	4	24.30	4		4		4	
1/4	1,585.32	1/4	1,323.59	1/4	1,061.75	1/4	801.35	1/4	539.72	1/4	277.90	1/4	19.76	1/4		1/4		1/4	
1/2	1,579.87	1/2	1,318.14	1/2	1,056.30	1/2	795.94	1/2	534.27	1/2	272.44	1/2	15.22	1/2		1/2		1/2	
3/4	1,574.42	3/4	1,312.68	3/4	1,050.84	3/4	790.49	3/4	528.81	3/4	266.99	3/4	12.50	3/4		3/4		3/4	
5	1,568.96	5	1,307.23	5	1,045.39	5	785.04	5	523.36	5	261.54	5	9.77	5		5		5	
1/4	1,563.51	1/4	1,301.77	1/4	1,039.93	1/4	779.59	1/4	517.90	1/4	256.08	1/4	7.04	1/4		1/4		1/4	
1/2	1,558.06	1/2	1,296.32	1/2	1,034.48	1/2	774.14	1/2	512.45	1/2	250.63	1/2	4.31	1/2		1/2		1/2	
3/4	1,552.61	3/4	1,290.86	3/4	1,029.02	3/4	768.69	3/4	506.99	3/4	245.17	3/4	3.41	3/4		3/4		3/4	
6	1,547.16	6	1,285.41	6	1,023.57	6	763.24	6	501.54	6	239.72	6	2.50	6		6		6	
1/4	1,541.71	1/4	1,279.95	1/4	1,018.11	1/4	757.79	1/4	496.08	1/4	234.26	1/4	1.59	1/4		1/4		1/4	
1/2	1,536.25	1/2	1,274.50	1/2	1,012.66	1/2	752.34	1/2	490.63	1/2	228.81	1/2	0.68	1/2		1/2		1/2	
3/4	1,530.80	3/4	1,269.04	3/4	1,007.24	3/4	746.89	3/4	485.17	3/4	223.35	3/4		3/4		3/4		3/4	
7	1,525.35	7	1,263.59	7	1,001.82	7	741.44	7	479.72	7	217.90	7		7		7		7	
1/4	1,519.90	1/4	1,258.13	1/4	996.40	1/4	735.99	1/4	474.26	1/4	212.44	1/4		1/4		1/4		1/4	
1/2	1,514.45	1/2	1,252.68	1/2	990.98	1/2	730.54	1/2	468.81	1/2	206.99	1/2		1/2		1/2		1/2	
3/4	1,509.00	3/4	1,247.22	3/4	985.57	3/4	725.09	3/4	463.36	3/4	201.53	3/4		3/4		3/4		3/4	
8	1,503.55	8	1,241.77	8	980.15	8	719.64	8	457.90	8	196.08	8		8		8		8	
1/4	1,498.09	1/4	1,236.31	1/4	974.73	1/4	714.19	1/4	452.45	1/4	190.63	1/4		1/4		1/4		1/4	
1/2	1,492.64	1/2	1,230.86	1/2	969.31	1/2	708.74	1/2	446.99	1/2	185.17	1/2		1/2		1/2		1/2	
3/4	1,487.19	3/4	1,225.40	3/4	963.89	3/4	703.29	3/4	441.54	3/4	179.72	3/4		3/4		3/4		3/4	
9	1,481.74	9	1,219.95	9	958.47	9	697.84	9	436.08	9	174.26	9		9		9		9	
1/4	1,476.29	1/4	1,214.49	1/4	953.05	1/4	692.39	1/4	430.63	1/4	168.81	1/4		1/4		1/4		1/4	
1/2	1,470.84	1/2	1,209.04	1/2	947.64	1/2	686.94	1/2	425.17	1/2	163.35	1/2		1/2		1/2		1/2	
3/4	1,465.39	3/4	1,203.58	3/4	942.22	3/4	681.49	3/4	419.72	3/4	157.90	3/4		3/4		3/4		3/4	
10	1,459.93	10	1,198.13	10	936.80	10	676.04	10	414.26	10	152.44	10		10		10		10	
1/4	1,454.48	1/4	1,192.67	1/4	931.38	1/4	670.59	1/4	408.81	1/4	146.99	1/4		1/4		1/4		1/4	
1/2	1,449.03	1/2	1,187.22	1/2	925.96	1/2	665.15	1/2	403.35	1/2	141.54	1/2		1/2		1/2		1/2	
3/4	1,443.58	3/4	1,181.76	3/4	920.54	3/4	659.70	3/4	397.90	3/4	136.09	3/4		3/4		3/4		3/4	
11	1,438.13	11	1,176.31	11	915.12	11	654.25	11	392.45	11	130.64	11		11		11		11	
1/4	1,432.68	1/4	1,170.85	1/4	909.71	1/4	648.80	1/4	386.99	1/4	125.19	1/4		1/4		1/4		1/4	
1/2	1,427.22	1/2	1,165.40	1/2	904.29	1/2	643.35	1/2	381.54	1/2	119.74	1/2		1/2		1/2		1/2	
3/4	1,421.77	3/4	1,159.94	3/4	898.87	3/4	637.90	3/4	376.08	3/4	114.30	3/4		3/4		3/4		3/4	

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ALL PRIOR TO 04/2014

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