



# BARGE "KIRBY 30080"

## ULLAGE TRIM TABLE

Formerly "WTC 3011"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

### EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 5'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

July 14, 2023

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

<http://www.pmacorp.net>





# BARGE "KIRBY 30080"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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	2,502.97	0	2,137.02	0	1,771.07	0	1,405.12	0	1,039.11	0	672.64	0	313.39	0		0		0	
1/4	2,495.35	1/4	2,129.40	1/4	1,763.45	1/4	1,397.49	1/4	1,031.47	1/4	664.93	1/4	306.30	1/4	1/4	1/4		1/4	1/4
1/2	2,487.72	1/2	2,121.77	1/2	1,755.82	1/2	1,389.87	1/2	1,023.84	1/2	657.23	1/2	299.20	1/2	1/2	1/2		1/2	1/2
3/4	2,480.10	3/4	2,114.15	3/4	1,748.20	3/4	1,382.25	3/4	1,016.21	3/4	649.52	3/4	292.11	3/4	3/4	3/4		3/4	3/4
1	2,472.48	1	2,106.53	1	1,740.57	1	1,374.62	1	1,008.57	1	641.96	1	285.01	1	1	1		1	1
1/4	2,464.85	1/4	2,098.90	1/4	1,732.95	1/4	1,367.00	1/4	1,000.94	1/4	634.40	1/4	277.92	1/4	1/4	1/4		1/4	1/4
1/2	2,457.23	1/2	2,091.28	1/2	1,725.32	1/2	1,359.37	1/2	993.30	1/2	626.85	1/2	270.82	1/2	1/2	1/2		1/2	1/2
3/4	2,449.61	3/4	2,083.66	3/4	1,717.70	3/4	1,351.75	3/4	985.67	3/4	619.29	3/4	263.73	3/4	3/4	3/4		3/4	3/4
2	2,442.08	2	2,076.03	2	1,710.08	2	1,344.13	2	978.04	2	611.66	2	256.74	2	2	2		2	2
1/4	2,434.55	1/4	2,068.41	1/4	1,702.45	1/4	1,336.50	1/4	970.40	1/4	604.02	1/4	249.75	1/4	1/4	1/4		1/4	1/4
1/2	2,427.02	1/2	2,060.78	1/2	1,694.83	1/2	1,328.88	1/2	962.77	1/2	596.39	1/2	242.76	1/2	1/2	1/2		1/2	1/2
3/4	2,419.49	3/4	2,053.16	3/4	1,687.21	3/4	1,321.26	3/4	955.14	3/4	588.76	3/4	235.77	3/4	3/4	3/4		3/4	3/4
3	2,411.77	3	2,045.53	3	1,679.58	3	1,313.63	3	947.51	3	581.13	3	228.88	3	3	3		3	3
1/4	2,404.05	1/4	2,037.91	1/4	1,671.96	1/4	1,306.01	1/4	939.87	1/4	573.49	1/4	222.00	1/4	1/4	1/4		1/4	1/4
1/2	2,396.34	1/2	2,030.28	1/2	1,664.33	1/2	1,298.38	1/2	932.24	1/2	565.86	1/2	215.11	1/2	1/2	1/2		1/2	1/2
3/4	2,388.62	3/4	2,022.66	3/4	1,656.71	3/4	1,290.76	3/4	924.61	3/4	558.23	3/4	208.23	3/4	3/4	3/4		3/4	3/4
4	2,380.99	4	2,015.04	4	1,649.09	4	1,283.13	4	916.98	4	550.59	4	201.34	4	4	4		4	4
1/4	2,373.37	1/4	2,007.41	1/4	1,641.46	1/4	1,275.51	1/4	909.34	1/4	542.96	1/4	194.46	1/4	1/4	1/4		1/4	1/4
1/2	2,365.74	1/2	1,999.79	1/2	1,633.84	1/2	1,267.88	1/2	901.71	1/2	535.32	1/2	187.57	1/2	1/2	1/2		1/2	1/2
3/4	2,358.12	3/4	1,992.17	3/4	1,626.22	3/4	1,260.26	3/4	894.08	3/4	527.69	3/4	180.69	3/4	3/4	3/4		3/4	3/4
5	2,350.49	5	1,984.54	5	1,618.59	5	1,252.64	5	886.45	5	520.12	5	173.91	5	5	5		5	5
1/4	2,342.87	1/4	1,976.92	1/4	1,610.97	1/4	1,245.01	1/4	878.81	1/4	512.55	1/4	167.13	1/4	1/4	1/4		1/4	1/4
1/2	2,335.24	1/2	1,969.29	1/2	1,603.34	1/2	1,237.39	1/2	871.18	1/2	504.98	1/2	160.35	1/2	1/2	1/2		1/2	1/2
3/4	2,327.62	3/4	1,961.67	3/4	1,595.72	3/4	1,229.77	3/4	863.55	3/4	497.41	3/4	153.57	3/4	3/4	3/4		3/4	3/4
6	2,320.00	6	1,954.05	6	1,588.09	6	1,222.14	6	855.91	6	489.90	6	146.89	6	6	6		6	6
1/4	2,312.37	1/4	1,946.42	1/4	1,580.47	1/4	1,214.52	1/4	848.28	1/4	482.39	1/4	140.21	1/4	1/4	1/4		1/4	1/4
1/2	2,304.75	1/2	1,938.80	1/2	1,572.84	1/2	1,206.89	1/2	840.64	1/2	474.88	1/2	133.53	1/2	1/2	1/2		1/2	1/2
3/4	2,297.13	3/4	1,931.18	3/4	1,565.22	3/4	1,199.27	3/4	833.01	3/4	467.37	3/4	126.85	3/4	3/4	3/4		3/4	3/4
7	2,289.50	7	1,923.55	7	1,557.60	7	1,191.65	7	825.38	7	459.86	7	120.18	7	7	7		7	7
1/4	2,281.88	1/4	1,915.93	1/4	1,549.97	1/4	1,184.02	1/4	817.74	1/4	452.35	1/4	113.50	1/4	1/4	1/4		1/4	1/4
1/2	2,274.25	1/2	1,908.30	1/2	1,542.35	1/2	1,176.40	1/2	810.11	1/2	444.84	1/2	106.83	1/2	1/2	1/2		1/2	1/2
3/4	2,266.63	3/4	1,900.68	3/4	1,534.73	3/4	1,168.78	3/4	802.48	3/4	437.33	3/4	100.16	3/4	3/4	3/4		3/4	3/4
8	2,259.01	8	1,893.05	8	1,527.10	8	1,161.15	8	794.85	8	429.92	8	93.59	8	8	8		8	8
1/4	2,251.38	1/4	1,885.43	1/4	1,519.48	1/4	1,153.53	1/4	787.21	1/4	422.51	1/4	87.01	1/4	1/4	1/4		1/4	1/4
1/2	2,243.76	1/2	1,877.80	1/2	1,511.85	1/2	1,145.90	1/2	779.58	1/2	415.11	1/2	80.44	1/2	1/2	1/2		1/2	1/2
3/4	2,236.14	3/4	1,870.18	3/4	1,504.23	3/4	1,138.28	3/4	771.95	3/4	407.70	3/4	73.87	3/4	3/4	3/4		3/4	3/4
9	2,228.51	9	1,862.56	9	1,496.61	9	1,130.65	9	764.32	9	400.40	9	68.09	9	9	9		9	9
1/4	2,220.89	1/4	1,854.93	1/4	1,488.98	1/4	1,123.03	1/4	756.68	1/4	393.09	1/4	62.30	1/4	1/4	1/4		1/4	1/4
1/2	2,213.26	1/2	1,847.31	1/2	1,481.36	1/2	1,115.40	1/2	749.05	1/2	385.79	1/2	56.52	1/2	1/2	1/2		1/2	1/2
3/4	2,205.64	3/4	1,839.69	3/4	1,473.74	3/4	1,107.78	3/4	741.42	3/4	378.49	3/4	50.74	3/4	3/4	3/4		3/4	3/4
10	2,198.01	10	1,832.06	10	1,466.11	10	1,100.15	10	733.79	10	371.19	10	45.92	10	10	10		10	10
1/4	2,190.39	1/4	1,824.44	1/4	1,458.49	1/4	1,092.52	1/4	726.15	1/4	363.88	1/4	41.09	1/4	1/4	1/4		1/4	1/4
1/2	2,182.76	1/2	1,816.81	1/2	1,450.86	1/2	1,084.90	1/2	718.52	1/2	356.58	1/2	36.27	1/2	1/2	1/2		1/2	1/2
3/4	2,175.14	3/4	1,809.19	3/4	1,443.24	3/4	1,077.27	3/4	710.89	3/4	349.28	3/4	31.45	3/4	3/4	3/4		3/4	3/4
11	2,167.52	11	1,801.57	11	1,435.61	11	1,069.64	11	703.25	11	342.08	11	27.83	11	11	11		11	11
1/4	2,159.89	1/4	1,793.94	1/4	1,427.99	1/4	1,062.00	1/4	695.62	1/4	334.88	1/4	24.20	1/4	1/4	1/4		1/4	1/4
1/2	2,152.27	1/2	1,786.32	1/2	1,420.36	1/2	1,054.37	1/2	687.98	1/2	327.69	1/2	20.58	1/2	1/2	1/2		1/2	1/2
3/4	2,144.65	3/4	1,778.70	3/4	1,412.74	3/4	1,046.74	3/4	680.35	3/4	320.49	3/4	16.96	3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

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



# BARGE "KIRBY 30080"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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	5,064.64	0	4,698.69	0	4,332.73	0	3,966.78	0	3,600.83	0	3,234.88	0	2,868.93
1/4		1/4		1/4		1/4	5,057.02	1/4	4,691.06	1/4	4,325.11	1/4	3,959.16	1/4	3,593.21	1/4	3,227.25	1/4	2,861.30
1/2		1/2		1/2		1/2	5,049.39	1/2	4,683.44	1/2	4,317.48	1/2	3,951.53	1/2	3,585.58	1/2	3,219.63	1/2	2,853.68
3/4		3/4		3/4		3/4	5,041.77	3/4	4,675.82	3/4	4,309.86	3/4	3,943.91	3/4	3,577.96	3/4	3,212.01	3/4	2,846.06
1		1		1		1	5,034.14	1	4,668.19	1	4,302.24	1	3,936.29	1	3,570.33	1	3,204.38	1	2,838.43
1/4		1/4		1/4		1/4	5,026.52	1/4	4,660.57	1/4	4,294.61	1/4	3,928.66	1/4	3,562.71	1/4	3,196.76	1/4	2,830.81
1/2		1/2		1/2		1/2	5,018.89	1/2	4,652.94	1/2	4,286.99	1/2	3,921.04	1/2	3,555.08	1/2	3,189.13	1/2	2,823.18
3/4		3/4		3/4		3/4	5,011.27	3/4	4,645.32	3/4	4,279.37	3/4	3,913.42	3/4	3,547.46	3/4	3,181.51	3/4	2,815.56
2		2		2		2	5,003.65	2	4,637.69	2	4,271.74	2	3,905.79	2	3,539.84	2	3,173.89	2	2,807.93
1/4		1/4		1/4		1/4	4,996.02	1/4	4,630.07	1/4	4,264.12	1/4	3,898.17	1/4	3,532.21	1/4	3,166.26	1/4	2,800.31
1/2		1/2		1/2		1/2	4,988.40	1/2	4,622.44	1/2	4,256.49	1/2	3,890.54	1/2	3,524.59	1/2	3,158.64	1/2	2,792.68
3/4		3/4		3/4		3/4	4,980.78	3/4	4,614.82	3/4	4,248.87	3/4	3,882.92	3/4	3,516.97	3/4	3,151.02	3/4	2,785.06
3		3		3		3	4,973.15	3	4,607.20	3	4,241.25	3	3,875.29	3	3,509.34	3	3,143.39	3	2,777.44
1/4		1/4		1/4		1/4	4,965.53	1/4	4,599.57	1/4	4,233.62	1/4	3,867.67	1/4	3,501.72	1/4	3,135.77	1/4	2,769.81
1/2		1/2		1/2		1/2	4,957.90	1/2	4,591.95	1/2	4,226.00	1/2	3,860.04	1/2	3,494.09	1/2	3,128.14	1/2	2,762.19
3/4		3/4		3/4		3/4	4,950.28	3/4	4,584.33	3/4	4,218.38	3/4	3,852.42	3/4	3,486.47	3/4	3,120.52	3/4	2,754.57
4		4		4		4	4,942.65	4	4,576.70	4	4,210.75	4	3,844.80	4	3,478.85	4	3,112.89	4	2,746.94
1/4		1/4		1/4		1/4	4,935.03	1/4	4,569.08	1/4	4,203.13	1/4	3,837.17	1/4	3,471.22	1/4	3,105.27	1/4	2,739.32
1/2		1/2		1/2		1/2	4,927.40	1/2	4,561.45	1/2	4,195.50	1/2	3,829.55	1/2	3,463.60	1/2	3,097.64	1/2	2,731.69
3/4		3/4		3/4		3/4	4,919.78	3/4	4,553.83	3/4	4,187.88	3/4	3,821.93	3/4	3,455.98	3/4	3,090.02	3/4	2,724.07
5		5		5		5	4,912.16	5	4,546.21	5	4,180.25	5	3,814.30	5	3,448.35	5	3,082.40	5	2,716.45
1/4		1/4		1/4		1/4	4,904.53	1/4	4,538.58	1/4	4,172.63	1/4	3,806.68	1/4	3,440.73	1/4	3,074.77	1/4	2,708.82
1/2		1/2		1/2		1/2	4,896.91	1/2	4,530.96	1/2	4,165.00	1/2	3,799.05	1/2	3,433.10	1/2	3,067.15	1/2	2,701.20
3/4		3/4		3/4		3/4	5,171.40	3/4	4,889.29	3/4	4,523.34	3/4	4,157.38	3/4	3,791.43	3/4	3,425.48	3/4	3,059.53
6		6		6		6	5,170.54	6	4,881.66	6	4,515.71	6	4,149.51	6	3,783.81	6	3,417.85	6	3,051.90
1/4		1/4		1/4		1/4	5,169.68	1/4	4,874.04	1/4	4,508.09	1/4	4,141.63	1/4	3,776.18	1/4	3,410.23	1/4	3,044.28
1/2		1/2		1/2		1/2	5,168.81	1/2	4,866.41	1/2	4,500.46	1/2	4,133.76	1/2	3,768.56	1/2	3,402.60	1/2	3,036.65
3/4		3/4		3/4		3/4	5,167.95	3/4	4,858.79	3/4	4,492.84	3/4	4,125.89	3/4	3,760.94	3/4	3,394.98	3/4	3,029.03
7		7		7		7	5,165.87	7	4,851.17	7	4,485.21	7	4,118.51	7	3,753.31	7	3,387.36	7	3,021.41
1/4		1/4		1/4		1/4	5,163.79	1/4	4,843.54	1/4	4,477.59	1/4	4,111.14	1/4	3,745.69	1/4	3,379.73	1/4	3,013.78
1/2		1/2		1/2		1/2	5,161.71	1/2	4,835.92	1/2	4,469.96	1/2	4,103.76	1/2	3,738.06	1/2	3,372.11	1/2	3,006.16
3/4		3/4		3/4		3/4	5,159.63	3/4	4,828.30	3/4	4,462.34	3/4	4,096.39	3/4	3,730.44	3/4	3,364.49	3/4	2,998.54
8		8		8		8	5,156.17	8	4,820.67	8	4,454.72	8	4,088.77	8	3,722.81	8	3,356.86	8	2,990.91
1/4		1/4		1/4		1/4	5,152.70	1/4	4,813.05	1/4	4,447.09	1/4	4,081.14	1/4	3,715.19	1/4	3,349.24	1/4	2,983.29
1/2		1/2		1/2		1/2	5,149.24	1/2	4,805.42	1/2	4,439.47	1/2	4,073.52	1/2	3,707.56	1/2	3,341.61	1/2	2,975.66
3/4		3/4		3/4		3/4	5,145.77	3/4	4,797.80	3/4	4,431.85	3/4	4,065.90	3/4	3,699.94	3/4	3,333.99	3/4	2,968.04
9		9		9		9	5,140.92	9	4,790.17	9	4,424.22	9	4,058.27	9	3,692.32	9	3,326.37	9	2,960.41
1/4		1/4		1/4		1/4	5,136.07	1/4	4,782.55	1/4	4,416.60	1/4	4,050.65	1/4	3,684.69	1/4	3,318.74	1/4	2,952.79
1/2		1/2		1/2		1/2	5,131.21	1/2	4,774.92	1/2	4,408.97	1/2	4,043.02	1/2	3,677.07	1/2	3,311.12	1/2	2,945.16
3/4		3/4		3/4		3/4	5,126.36	3/4	4,767.30	3/4	4,401.35	3/4	4,035.40	3/4	3,669.45	3/4	3,303.50	3/4	2,937.54
10		10		10		10	5,120.12	10	4,759.68	10	4,393.73	10	4,027.77	10	3,661.82	10	3,295.87	10	2,929.92
1/4		1/4		1/4		1/4	5,113.88	1/4	4,752.05	1/4	4,386.10	1/4	4,020.15	1/4	3,654.20	1/4	3,288.25	1/4	2,922.29
1/2		1/2		1/2		1/2	5,107.63	1/2	4,744.43	1/2	4,378.48	1/2	4,012.52	1/2	3,646.57	1/2	3,280.62	1/2	2,914.67
3/4		3/4		3/4		3/4	5,101.39	3/4	4,736.81	3/4	4,370.86	3/4	4,004.90	3/4	3,638.95	3/4	3,273.00	3/4	2,907.05
11		11		11		11	5,094.11	11	4,729.18	11	4,363.23	11	3,997.28	11	3,631.33	11	3,265.37	11	2,899.42
1/4		1/4		1/4		1/4	5,086.83	1/4	4,721.56	1/4	4,355.61	1/4	3,989.65	1/4	3,623.70	1/4	3,257.75	1/4	2,891.80
1/2		1/2		1/2		1/2	5,079.54	1/2	4,713.93	1/2	4,347.98	1/2	3,982.03	1/2	3,616.08	1/2	3,250.12	1/2	2,884.17
3/4		3/4		3/4		3/4	5,072.26	3/4	4,706.31	3/4	4,340.36	3/4	3,974.41	3/4	3,608.46	3/4	3,242.50	3/4	2,876.55

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" DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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Pearland, Texas 77588  
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# BARGE "KIRBY 30080"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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	2,502.97	0	2,137.02	0	1,771.07	0	1,405.12	0	1,039.11	0	672.64	0	313.39	0		0		0	
1/4	2,495.35	1/4	2,129.40	1/4	1,763.45	1/4	1,397.49	1/4	1,031.47	1/4	664.93	1/4	306.30	1/4	1/4	1/4		1/4	1/4
1/2	2,487.72	1/2	2,121.77	1/2	1,755.82	1/2	1,389.87	1/2	1,023.84	1/2	657.23	1/2	299.20	1/2	1/2	1/2		1/2	1/2
3/4	2,480.10	3/4	2,114.15	3/4	1,748.20	3/4	1,382.25	3/4	1,016.21	3/4	649.52	3/4	292.11	3/4	3/4	3/4		3/4	3/4
1	2,472.48	1	2,106.53	1	1,740.57	1	1,374.62	1	1,008.57	1	641.96	1	285.01	1	1	1		1	1
1/4	2,464.85	1/4	2,098.90	1/4	1,732.95	1/4	1,367.00	1/4	1,000.94	1/4	634.40	1/4	277.92	1/4	1/4	1/4		1/4	1/4
1/2	2,457.23	1/2	2,091.28	1/2	1,725.32	1/2	1,359.37	1/2	993.30	1/2	626.85	1/2	270.82	1/2	1/2	1/2		1/2	1/2
3/4	2,449.61	3/4	2,083.66	3/4	1,717.70	3/4	1,351.75	3/4	985.67	3/4	619.29	3/4	263.73	3/4	3/4	3/4		3/4	3/4
2	2,442.08	2	2,076.03	2	1,710.08	2	1,344.13	2	978.04	2	611.66	2	256.74	2	2	2		2	2
1/4	2,434.55	1/4	2,068.41	1/4	1,702.45	1/4	1,336.50	1/4	970.40	1/4	604.02	1/4	249.75	1/4	1/4	1/4		1/4	1/4
1/2	2,427.02	1/2	2,060.78	1/2	1,694.83	1/2	1,328.88	1/2	962.77	1/2	596.39	1/2	242.76	1/2	1/2	1/2		1/2	1/2
3/4	2,419.49	3/4	2,053.16	3/4	1,687.21	3/4	1,321.26	3/4	955.14	3/4	588.76	3/4	235.77	3/4	3/4	3/4		3/4	3/4
3	2,411.77	3	2,045.53	3	1,679.58	3	1,313.63	3	947.51	3	581.13	3	228.88	3	3	3		3	3
1/4	2,404.05	1/4	2,037.91	1/4	1,671.96	1/4	1,306.01	1/4	939.87	1/4	573.49	1/4	222.00	1/4	1/4	1/4		1/4	1/4
1/2	2,396.34	1/2	2,030.28	1/2	1,664.33	1/2	1,298.38	1/2	932.24	1/2	565.86	1/2	215.11	1/2	1/2	1/2		1/2	1/2
3/4	2,388.62	3/4	2,022.66	3/4	1,656.71	3/4	1,290.76	3/4	924.61	3/4	558.23	3/4	208.23	3/4	3/4	3/4		3/4	3/4
4	2,380.99	4	2,015.04	4	1,649.09	4	1,283.13	4	916.98	4	550.59	4	201.34	4	4	4		4	4
1/4	2,373.37	1/4	2,007.41	1/4	1,641.46	1/4	1,275.51	1/4	909.34	1/4	542.96	1/4	194.46	1/4	1/4	1/4		1/4	1/4
1/2	2,365.74	1/2	1,999.79	1/2	1,633.84	1/2	1,267.88	1/2	901.71	1/2	535.32	1/2	187.57	1/2	1/2	1/2		1/2	1/2
3/4	2,358.12	3/4	1,992.17	3/4	1,626.22	3/4	1,260.26	3/4	894.08	3/4	527.69	3/4	180.69	3/4	3/4	3/4		3/4	3/4
5	2,350.49	5	1,984.54	5	1,618.59	5	1,252.64	5	886.45	5	520.12	5	173.91	5	5	5		5	5
1/4	2,342.87	1/4	1,976.92	1/4	1,610.97	1/4	1,245.01	1/4	878.81	1/4	512.55	1/4	167.13	1/4	1/4	1/4		1/4	1/4
1/2	2,335.24	1/2	1,969.29	1/2	1,603.34	1/2	1,237.39	1/2	871.18	1/2	504.98	1/2	160.35	1/2	1/2	1/2		1/2	1/2
3/4	2,327.62	3/4	1,961.67	3/4	1,595.72	3/4	1,229.77	3/4	863.55	3/4	497.41	3/4	153.57	3/4	3/4	3/4		3/4	3/4
6	2,320.00	6	1,954.05	6	1,588.09	6	1,222.14	6	855.91	6	489.90	6	146.89	6	6	6		6	6
1/4	2,312.37	1/4	1,946.42	1/4	1,580.47	1/4	1,214.52	1/4	848.28	1/4	482.39	1/4	140.21	1/4	1/4	1/4		1/4	1/4
1/2	2,304.75	1/2	1,938.80	1/2	1,572.84	1/2	1,206.89	1/2	840.64	1/2	474.88	1/2	133.53	1/2	1/2	1/2		1/2	1/2
3/4	2,297.13	3/4	1,931.18	3/4	1,565.22	3/4	1,199.27	3/4	833.01	3/4	467.37	3/4	126.85	3/4	3/4	3/4		3/4	3/4
7	2,289.50	7	1,923.55	7	1,557.60	7	1,191.65	7	825.38	7	459.86	7	120.18	7	7	7		7	7
1/4	2,281.88	1/4	1,915.93	1/4	1,549.97	1/4	1,184.02	1/4	817.74	1/4	452.35	1/4	113.50	1/4	1/4	1/4		1/4	1/4
1/2	2,274.25	1/2	1,908.30	1/2	1,542.35	1/2	1,176.40	1/2	810.11	1/2	444.84	1/2	106.83	1/2	1/2	1/2		1/2	1/2
3/4	2,266.63	3/4	1,900.68	3/4	1,534.73	3/4	1,168.78	3/4	802.48	3/4	437.33	3/4	100.16	3/4	3/4	3/4		3/4	3/4
8	2,259.01	8	1,893.05	8	1,527.10	8	1,161.15	8	794.85	8	429.92	8	93.59	8	8	8		8	8
1/4	2,251.38	1/4	1,885.43	1/4	1,519.48	1/4	1,153.53	1/4	787.21	1/4	422.51	1/4	87.01	1/4	1/4	1/4		1/4	1/4
1/2	2,243.76	1/2	1,877.80	1/2	1,511.85	1/2	1,145.90	1/2	779.58	1/2	415.11	1/2	80.44	1/2	1/2	1/2		1/2	1/2
3/4	2,236.14	3/4	1,870.18	3/4	1,504.23	3/4	1,138.28	3/4	771.95	3/4	407.70	3/4	73.87	3/4	3/4	3/4		3/4	3/4
9	2,228.51	9	1,862.56	9	1,496.61	9	1,130.65	9	764.32	9	400.40	9	68.09	9	9	9		9	9
1/4	2,220.89	1/4	1,854.93	1/4	1,488.98	1/4	1,123.03	1/4	756.68	1/4	393.09	1/4	62.30	1/4	1/4	1/4		1/4	1/4
1/2	2,213.26	1/2	1,847.31	1/2	1,481.36	1/2	1,115.40	1/2	749.05	1/2	385.79	1/2	56.52	1/2	1/2	1/2		1/2	1/2
3/4	2,205.64	3/4	1,839.69	3/4	1,473.74	3/4	1,107.78	3/4	741.42	3/4	378.49	3/4	50.74	3/4	3/4	3/4		3/4	3/4
10	2,198.01	10	1,832.06	10	1,466.11	10	1,100.15	10	733.79	10	371.19	10	45.92	10	10	10		10	10
1/4	2,190.39	1/4	1,824.44	1/4	1,458.49	1/4	1,092.52	1/4	726.15	1/4	363.88	1/4	41.09	1/4	1/4	1/4		1/4	1/4
1/2	2,182.76	1/2	1,816.81	1/2	1,450.86	1/2	1,084.90	1/2	718.52	1/2	356.58	1/2	36.27	1/2	1/2	1/2		1/2	1/2
3/4	2,175.14	3/4	1,809.19	3/4	1,443.24	3/4	1,077.27	3/4	710.89	3/4	349.28	3/4	31.45	3/4	3/4	3/4		3/4	3/4
11	2,167.52	11	1,801.57	11	1,435.61	11	1,069.64	11	703.25	11	342.08	11	27.83	11	11	11		11	11
1/4	2,159.89	1/4	1,793.94	1/4	1,427.99	1/4	1,062.00	1/4	695.62	1/4	334.88	1/4	24.20	1/4	1/4	1/4		1/4	1/4
1/2	2,152.27	1/2	1,786.32	1/2	1,420.36	1/2	1,054.37	1/2	687.98	1/2	327.69	1/2	20.58	1/2	1/2	1/2		1/2	1/2
3/4	2,144.65	3/4	1,778.70	3/4	1,412.74	3/4	1,046.74	3/4	680.35	3/4	320.49	3/4	16.96	3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

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



# BARGE "KIRBY 30080"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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		0		0		0		0		0		0
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 30080"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,386.57	0	2,042.80	0	1,699.02	0	1,355.25	0	1,011.71	0	668.14	0	323.45	0		0		0	
1/4	2,379.41	1/4	2,035.63	1/4	1,691.85	1/4	1,348.08	1/4	1,004.56	1/4	660.95	1/4	316.26	1/4	1/4	1/4		1/4	1/4
1/2	2,372.25	1/2	2,028.47	1/2	1,684.69	1/2	1,340.92	1/2	997.41	1/2	653.77	1/2	309.08	1/2	1/2	1/2		1/2	1/2
3/4	2,365.09	3/4	2,021.31	3/4	1,677.53	3/4	1,333.76	3/4	990.26	3/4	646.59	3/4	301.90	3/4	3/4	3/4		3/4	3/4
1	2,357.93	1	2,014.15	1	1,670.37	1	1,326.60	1	983.11	1	639.41	1	294.72	1	1	1		1	1
1/4	2,350.76	1/4	2,006.98	1/4	1,663.21	1/4	1,319.43	1/4	975.96	1/4	632.23	1/4	287.54	1/4	1/4	1/4		1/4	1/4
1/2	2,343.60	1/2	1,999.82	1/2	1,656.05	1/2	1,312.27	1/2	968.81	1/2	625.05	1/2	280.36	1/2	1/2	1/2		1/2	1/2
3/4	2,336.44	3/4	1,992.66	3/4	1,648.89	3/4	1,305.11	3/4	961.66	3/4	617.87	3/4	273.18	3/4	3/4	3/4		3/4	3/4
2	2,329.28	2	1,985.50	2	1,641.73	2	1,297.95	2	954.51	2	610.69	2	266.00	2	2	2		2	2
1/4	2,322.11	1/4	1,978.33	1/4	1,634.56	1/4	1,290.78	1/4	947.36	1/4	603.50	1/4	258.82	1/4	1/4	1/4		1/4	1/4
1/2	2,314.95	1/2	1,971.17	1/2	1,627.40	1/2	1,283.62	1/2	940.21	1/2	596.32	1/2	251.64	1/2	1/2	1/2		1/2	1/2
3/4	2,307.79	3/4	1,964.01	3/4	1,620.24	3/4	1,276.46	3/4	933.06	3/4	589.14	3/4	244.46	3/4	3/4	3/4		3/4	3/4
3	2,300.63	3	1,956.85	3	1,613.08	3	1,269.30	3	925.91	3	581.96	3	237.28	3	3	3		3	3
1/4	2,293.46	1/4	1,949.69	1/4	1,605.91	1/4	1,262.13	1/4	918.76	1/4	574.78	1/4	230.09	1/4	1/4	1/4		1/4	1/4
1/2	2,286.30	1/2	1,942.53	1/2	1,598.75	1/2	1,254.97	1/2	911.61	1/2	567.60	1/2	222.91	1/2	1/2	1/2		1/2	1/2
3/4	2,279.14	3/4	1,935.37	3/4	1,591.59	3/4	1,247.81	3/4	904.46	3/4	560.42	3/4	215.73	3/4	3/4	3/4		3/4	3/4
4	2,271.98	4	1,928.21	4	1,584.43	4	1,240.65	4	897.31	4	553.24	4	208.55	4	4	4		4	4
1/4	2,264.81	1/4	1,921.04	1/4	1,577.26	1/4	1,233.49	1/4	890.16	1/4	546.06	1/4	201.37	1/4	1/4	1/4		1/4	1/4
1/2	2,257.65	1/2	1,913.88	1/2	1,570.10	1/2	1,226.33	1/2	883.01	1/2	538.88	1/2	194.19	1/2	1/2	1/2		1/2	1/2
3/4	2,250.49	3/4	1,906.72	3/4	1,562.94	3/4	1,219.17	3/4	875.86	3/4	531.70	3/4	187.01	3/4	3/4	3/4		3/4	3/4
5	2,243.33	5	1,899.56	5	1,555.78	5	1,212.01	5	868.71	5	524.52	5	179.83	5	5	5		5	5
1/4	2,236.17	1/4	1,892.39	1/4	1,548.61	1/4	1,204.84	1/4	861.56	1/4	517.33	1/4	172.64	1/4	1/4	1/4		1/4	1/4
1/2	2,229.01	1/2	1,885.23	1/2	1,541.45	1/2	1,197.68	1/2	854.41	1/2	510.15	1/2	165.46	1/2	1/2	1/2		1/2	1/2
3/4	2,221.85	3/4	1,878.07	3/4	1,534.29	3/4	1,190.52	3/4	847.26	3/4	502.97	3/4	158.28	3/4	3/4	3/4		3/4	3/4
6	2,214.69	6	1,870.91	6	1,527.13	6	1,183.36	6	840.11	6	495.79	6	151.10	6	6	6		6	6
1/4	2,207.52	1/4	1,863.74	1/4	1,519.97	1/4	1,176.19	1/4	832.96	1/4	488.61	1/4	143.92	1/4	1/4	1/4		1/4	1/4
1/2	2,200.36	1/2	1,856.58	1/2	1,512.81	1/2	1,169.03	1/2	825.81	1/2	481.43	1/2	136.74	1/2	1/2	1/2		1/2	1/2
3/4	2,193.20	3/4	1,849.42	3/4	1,505.65	3/4	1,161.88	3/4	818.66	3/4	474.25	3/4	129.56	3/4	3/4	3/4		3/4	3/4
7	2,186.04	7	1,842.26	7	1,498.49	7	1,154.72	7	811.51	7	467.07	7	122.38	7	7	7		7	7
1/4	2,178.87	1/4	1,835.09	1/4	1,491.32	1/4	1,147.57	1/4	804.36	1/4	459.88	1/4	115.20	1/4	1/4	1/4		1/4	1/4
1/2	2,171.71	1/2	1,827.93	1/2	1,484.16	1/2	1,140.41	1/2	797.21	1/2	452.70	1/2	108.02	1/2	1/2	1/2		1/2	1/2
3/4	2,164.55	3/4	1,820.77	3/4	1,477.00	3/4	1,133.26	3/4	790.06	3/4	445.52	3/4	100.84	3/4	3/4	3/4		3/4	3/4
8	2,157.39	8	1,813.61	8	1,469.84	8	1,126.11	8	782.91	8	438.34	8	93.66	8	8	8		8	8
1/4	2,150.22	1/4	1,806.45	1/4	1,462.67	1/4	1,118.96	1/4	775.76	1/4	431.16	1/4	86.47	1/4	1/4	1/4		1/4	1/4
1/2	2,143.06	1/2	1,799.29	1/2	1,455.51	1/2	1,111.81	1/2	768.61	1/2	423.98	1/2	79.29	1/2	1/2	1/2		1/2	1/2
3/4	2,135.90	3/4	1,792.13	3/4	1,448.35	3/4	1,104.66	3/4	761.44	3/4	416.80	3/4	72.93	3/4	3/4	3/4		3/4	3/4
9	2,128.74	9	1,784.97	9	1,441.19	9	1,097.51	9	754.28	9	409.62	9	66.57	9	9	9		9	9
1/4	2,121.57	1/4	1,777.80	1/4	1,434.02	1/4	1,090.36	1/4	747.11	1/4	402.44	1/4	60.20	1/4	1/4	1/4		1/4	1/4
1/2	2,114.41	1/2	1,770.64	1/2	1,426.86	1/2	1,083.21	1/2	739.94	1/2	395.26	1/2	53.84	1/2	1/2	1/2		1/2	1/2
3/4	2,107.25	3/4	1,763.48	3/4	1,419.70	3/4	1,076.06	3/4	732.76	3/4	388.08	3/4	48.62	3/4	3/4	3/4		3/4	3/4
10	2,100.09	10	1,756.32	10	1,412.54	10	1,068.91	10	725.58	10	380.90	10	43.40	10	10	10		10	10
1/4	2,092.93	1/4	1,749.15	1/4	1,405.37	1/4	1,061.76	1/4	718.40	1/4	373.71	1/4	38.18	1/4	1/4	1/4		1/4	1/4
1/2	2,085.77	1/2	1,741.99	1/2	1,398.21	1/2	1,054.61	1/2	711.22	1/2	366.53	1/2	32.96	1/2	1/2	1/2		1/2	1/2
3/4	2,078.61	3/4	1,734.83	3/4	1,391.05	3/4	1,047.46	3/4	704.04	3/4	359.35	3/4	29.05	3/4	3/4	3/4		3/4	3/4
11	2,071.45	11	1,727.67	11	1,383.89	11	1,040.31	11	696.86	11	352.17	11	25.14	11	11	11		11	11
1/4	2,064.28	1/4	1,720.50	1/4	1,376.73	1/4	1,033.16	1/4	689.68	1/4	344.99	1/4	21.23	1/4	1/4	1/4		1/4	1/4
1/2	2,057.12	1/2	1,713.34	1/2	1,369.57	1/2	1,026.01	1/2	682.50	1/2	337.81	1/2	17.32	1/2	1/2	1/2		1/2	1/2
3/4	2,049.96	3/4	1,706.18	3/4	1,362.41	3/4	1,018.86	3/4	675.32	3/4	330.63	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

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





# BARGE "KIRBY 30080"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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	4,793.01	0	4,449.22	0	4,105.45	0	3,761.67	0	3,417.89	0	3,074.12	0	2,730.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.84	1/4	4,442.06	1/4	4,098.29	1/4	3,754.51	1/4	3,410.73	1/4	3,066.96	1/4	2,723.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.68	1/2	4,434.90	1/2	4,091.13	1/2	3,747.35	1/2	3,403.57	1/2	3,059.80	1/2	2,716.02
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,771.52	3/4	4,427.74	3/4	4,083.97	3/4	3,740.19	3/4	3,396.41	3/4	3,052.64	3/4	2,708.86
1	1	1	1	1	1	1	4,764.36	1	4,420.57	1	4,076.80	1	3,733.02	1	3,389.25	1	3,045.47	1	2,701.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,757.19	1/4	4,413.41	1/4	4,069.64	1/4	3,725.86	1/4	3,382.09	1/4	3,038.31	1/4	2,694.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,750.03	1/2	4,406.25	1/2	4,062.48	1/2	3,718.70	1/2	3,374.93	1/2	3,031.15	1/2	2,687.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,742.87	3/4	4,399.09	3/4	4,055.32	3/4	3,711.54	3/4	3,367.77	3/4	3,023.99	3/4	2,680.21
2	2	2	2	2	2	2	4,735.71	2	4,391.93	2	4,048.15	2	3,704.37	2	3,360.60	2	3,016.82	2	2,673.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,728.54	1/4	4,384.77	1/4	4,040.99	1/4	3,697.21	1/4	3,353.44	1/4	3,009.66	1/4	2,665.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.38	1/2	4,377.61	1/2	4,033.83	1/2	3,690.05	1/2	3,346.28	1/2	3,002.50	1/2	2,658.73
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.22	3/4	4,370.45	3/4	4,026.67	3/4	3,682.89	3/4	3,339.12	3/4	2,995.34	3/4	2,651.57
3	3	3	3	3	3	3	4,707.06	3	4,363.28	3	4,019.50	3	3,675.73	3	3,331.95	3	2,988.17	3	2,644.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,699.89	1/4	4,356.12	1/4	4,012.34	1/4	3,668.57	1/4	3,324.79	1/4	2,981.01	1/4	2,637.24
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,692.73	1/2	4,348.96	1/2	4,005.18	1/2	3,661.41	1/2	3,317.63	1/2	2,973.85	1/2	2,630.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.57	3/4	4,341.80	3/4	3,998.02	3/4	3,654.25	3/4	3,310.47	3/4	2,966.69	3/4	2,622.92
4	4	4	4	4	4	4	4,678.41	4	4,334.63	4	3,990.85	4	3,647.08	4	3,303.30	4	2,959.53	4	2,615.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.25	1/4	4,327.47	1/4	3,983.69	1/4	3,639.92	1/4	3,296.14	1/4	2,952.37	1/4	2,608.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.09	1/2	4,320.31	1/2	3,976.53	1/2	3,632.76	1/2	3,288.98	1/2	2,945.21	1/2	2,601.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,656.93	3/4	4,313.15	3/4	3,969.37	3/4	3,625.60	3/4	3,281.82	3/4	2,938.05	3/4	2,594.27
5	5	5	5	5	5	5	4,649.77	5	4,305.98	5	3,962.21	5	3,618.43	5	3,274.65	5	2,930.88	5	2,587.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.60	1/4	4,298.82	1/4	3,955.05	1/4	3,611.27	1/4	3,267.49	1/4	2,923.72	1/4	2,579.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,900.53	1/2	4,635.44	1/2	4,291.66	1/2	3,947.89	1/2	3,604.11	1/2	3,260.33	1/2	2,916.56
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.72	3/4	4,628.28	3/4	4,284.50	3/4	3,940.73	3/4	3,596.95	3/4	3,253.17	3/4	2,909.40
6	6	6	6	6	6	6	4,898.92	6	4,621.12	6	4,277.33	6	3,933.56	6	3,589.78	6	3,246.01	6	2,902.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,898.11	1/4	4,613.95	1/4	4,270.17	1/4	3,926.40	1/4	3,582.62	1/4	3,238.85	1/4	2,895.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,897.30	1/2	4,606.79	1/2	4,263.01	1/2	3,919.24	1/2	3,575.46	1/2	3,231.69	1/2	2,887.91
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,895.35	3/4	4,599.63	3/4	4,255.85	3/4	3,912.08	3/4	3,568.30	3/4	3,224.53	3/4	2,880.75
7	7	7	7	7	7	7	4,893.40	7	4,592.46	7	4,248.69	7	3,904.91	7	3,561.13	7	3,217.36	7	2,873.58
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,891.44	1/4	4,585.30	1/4	4,241.53	1/4	3,897.75	1/4	3,553.97	1/4	3,210.20	1/4	2,866.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,889.49	1/2	4,578.14	1/2	4,234.37	1/2	3,890.59	1/2	3,546.81	1/2	3,203.04	1/2	2,859.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.23	3/4	4,570.98	3/4	4,227.21	3/4	3,883.43	3/4	3,539.65	3/4	3,195.88	3/4	2,852.10
8	8	8	8	8	8	8	4,882.98	8	4,563.81	8	4,220.04	8	3,876.26	8	3,532.49	8	3,188.71	8	2,844.93
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.72	1/4	4,556.65	1/4	4,212.88	1/4	3,869.10	1/4	3,525.33	1/4	3,181.55	1/4	2,837.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,876.46	1/2	4,549.49	1/2	4,205.72	1/2	3,861.94	1/2	3,518.17	1/2	3,174.39	1/2	2,830.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,871.90	3/4	4,542.33	3/4	4,198.56	3/4	3,854.78	3/4	3,511.01	3/4	3,167.23	3/4	2,823.45
9	9	9	9	9	9	9	4,867.33	9	4,535.17	9	4,191.39	9	3,847.61	9	3,503.84	9	3,160.06	9	2,816.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,862.77	1/4	4,528.01	1/4	4,184.23	1/4	3,840.45	1/4	3,496.68	1/4	3,152.90	1/4	2,809.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,858.20	1/2	4,520.85	1/2	4,177.07	1/2	3,833.29	1/2	3,489.52	1/2	3,145.74	1/2	2,801.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,852.33	3/4	4,513.69	3/4	4,169.91	3/4	3,826.13	3/4	3,482.36	3/4	3,138.58	3/4	2,794.81
10	10	10	10	10	10	10	4,846.45	10	4,506.52	10	4,162.74	10	3,818.97	10	3,475.19	10	3,131.41	10	2,787.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.58	1/4	4,499.36	1/4	4,155.58	1/4	3,811.81	1/4	3,468.03	1/4	3,124.25	1/4	2,780.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,834.70	1/2	4,492.20	1/2	4,148.42	1/2	3,804.65	1/2	3,460.87	1/2	3,117.09	1/2	2,773.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,827.86	3/4	4,485.04	3/4	4,141.26	3/4	3,797.49	3/4	3,453.71	3/4	3,109.93	3/4	2,766.16
11	11	11	11	11	11	11	4,821.02	11	4,477.87	11	4,134.09	11	3,790.32	11	3,446.54	11	3,102.77	11	2,759.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,814.17	1/4	4,470.71	1/4	4,126.93	1/4	3,783.16	1/4	3,439.38	1/4	3,095.61	1/4	2,751.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,807.33	1/2	4,463.55	1/2	4,119.77	1/2	3,776.00	1/2	3,432.22	1/2	3,088.45	1/2	2,744.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,800.17	3/4	4,456.39	3/4	4,112.61	3/4	3,768.84	3/4	3,425.06	3/4	3,081.29	3/4	2,737.51

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" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "KIRBY 30080"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,386.57	0	2,042.80	0	1,699.02	0	1,355.25	0	1,011.71	0	668.14	0	323.45	0		0		0	
1/4	2,379.41	1/4	2,035.63	1/4	1,691.85	1/4	1,348.08	1/4	1,004.56	1/4	660.95	1/4	316.26	1/4	1/4	1/4		1/4	
1/2	2,372.25	1/2	2,028.47	1/2	1,684.69	1/2	1,340.92	1/2	997.41	1/2	653.77	1/2	309.08	1/2	1/2	1/2		1/2	
3/4	2,365.09	3/4	2,021.31	3/4	1,677.53	3/4	1,333.76	3/4	990.26	3/4	646.59	3/4	301.90	3/4	3/4	3/4		3/4	
1	2,357.93	1	2,014.15	1	1,670.37	1	1,326.60	1	983.11	1	639.41	1	294.72	1	1	1		1	
1/4	2,350.76	1/4	2,006.98	1/4	1,663.21	1/4	1,319.43	1/4	975.96	1/4	632.23	1/4	287.54	1/4	1/4	1/4		1/4	
1/2	2,343.60	1/2	1,999.82	1/2	1,656.05	1/2	1,312.27	1/2	968.81	1/2	625.05	1/2	280.36	1/2	1/2	1/2		1/2	
3/4	2,336.44	3/4	1,992.66	3/4	1,648.89	3/4	1,305.11	3/4	961.66	3/4	617.87	3/4	273.18	3/4	3/4	3/4		3/4	
2	2,329.28	2	1,985.50	2	1,641.73	2	1,297.95	2	954.51	2	610.69	2	266.00	2	2	2		2	
1/4	2,322.11	1/4	1,978.33	1/4	1,634.56	1/4	1,290.78	1/4	947.36	1/4	603.50	1/4	258.82	1/4	1/4	1/4		1/4	
1/2	2,314.95	1/2	1,971.17	1/2	1,627.40	1/2	1,283.62	1/2	940.21	1/2	596.32	1/2	251.64	1/2	1/2	1/2		1/2	
3/4	2,307.79	3/4	1,964.01	3/4	1,620.24	3/4	1,276.46	3/4	933.06	3/4	589.14	3/4	244.46	3/4	3/4	3/4		3/4	
3	2,300.63	3	1,956.85	3	1,613.08	3	1,269.30	3	925.91	3	581.96	3	237.28	3	3	3		3	
1/4	2,293.46	1/4	1,949.69	1/4	1,605.91	1/4	1,262.13	1/4	918.76	1/4	574.78	1/4	230.09	1/4	1/4	1/4		1/4	
1/2	2,286.30	1/2	1,942.53	1/2	1,598.75	1/2	1,254.97	1/2	911.61	1/2	567.60	1/2	222.91	1/2	1/2	1/2		1/2	
3/4	2,279.14	3/4	1,935.37	3/4	1,591.59	3/4	1,247.81	3/4	904.46	3/4	560.42	3/4	215.73	3/4	3/4	3/4		3/4	
4	2,271.98	4	1,928.21	4	1,584.43	4	1,240.65	4	897.31	4	553.24	4	208.55	4	4	4		4	
1/4	2,264.81	1/4	1,921.04	1/4	1,577.26	1/4	1,233.49	1/4	890.16	1/4	546.06	1/4	201.37	1/4	1/4	1/4		1/4	
1/2	2,257.65	1/2	1,913.88	1/2	1,570.10	1/2	1,226.33	1/2	883.01	1/2	538.88	1/2	194.19	1/2	1/2	1/2		1/2	
3/4	2,250.49	3/4	1,906.72	3/4	1,562.94	3/4	1,219.17	3/4	875.86	3/4	531.70	3/4	187.01	3/4	3/4	3/4		3/4	
5	2,243.33	5	1,899.56	5	1,555.78	5	1,212.01	5	868.71	5	524.52	5	179.83	5	5	5		5	
1/4	2,236.17	1/4	1,892.39	1/4	1,548.61	1/4	1,204.84	1/4	861.56	1/4	517.33	1/4	172.64	1/4	1/4	1/4		1/4	
1/2	2,229.01	1/2	1,885.23	1/2	1,541.45	1/2	1,197.68	1/2	854.41	1/2	510.15	1/2	165.46	1/2	1/2	1/2		1/2	
3/4	2,221.85	3/4	1,878.07	3/4	1,534.29	3/4	1,190.52	3/4	847.26	3/4	502.97	3/4	158.28	3/4	3/4	3/4		3/4	
6	2,214.69	6	1,870.91	6	1,527.13	6	1,183.36	6	840.11	6	495.79	6	151.10	6	6	6		6	
1/4	2,207.52	1/4	1,863.74	1/4	1,519.97	1/4	1,176.19	1/4	832.96	1/4	488.61	1/4	143.92	1/4	1/4	1/4		1/4	
1/2	2,200.36	1/2	1,856.58	1/2	1,512.81	1/2	1,169.03	1/2	825.81	1/2	481.43	1/2	136.74	1/2	1/2	1/2		1/2	
3/4	2,193.20	3/4	1,849.42	3/4	1,505.65	3/4	1,161.88	3/4	818.66	3/4	474.25	3/4	129.56	3/4	3/4	3/4		3/4	
7	2,186.04	7	1,842.26	7	1,498.49	7	1,154.72	7	811.51	7	467.07	7	122.38	7	7	7		7	
1/4	2,178.87	1/4	1,835.09	1/4	1,491.32	1/4	1,147.57	1/4	804.36	1/4	459.88	1/4	115.20	1/4	1/4	1/4		1/4	
1/2	2,171.71	1/2	1,827.93	1/2	1,484.16	1/2	1,140.41	1/2	797.21	1/2	452.70	1/2	108.02	1/2	1/2	1/2		1/2	
3/4	2,164.55	3/4	1,820.77	3/4	1,477.00	3/4	1,133.26	3/4	790.06	3/4	445.52	3/4	100.84	3/4	3/4	3/4		3/4	
8	2,157.39	8	1,813.61	8	1,469.84	8	1,126.11	8	782.91	8	438.34	8	93.66	8	8	8		8	
1/4	2,150.22	1/4	1,806.45	1/4	1,462.67	1/4	1,118.96	1/4	775.76	1/4	431.16	1/4	86.47	1/4	1/4	1/4		1/4	
1/2	2,143.06	1/2	1,799.29	1/2	1,455.51	1/2	1,111.81	1/2	768.61	1/2	423.98	1/2	79.29	1/2	1/2	1/2		1/2	
3/4	2,135.90	3/4	1,792.13	3/4	1,448.35	3/4	1,104.66	3/4	761.44	3/4	416.80	3/4	72.93	3/4	3/4	3/4		3/4	
9	2,128.74	9	1,784.97	9	1,441.19	9	1,097.51	9	754.28	9	409.62	9	66.57	9	9	9		9	
1/4	2,121.57	1/4	1,777.80	1/4	1,434.02	1/4	1,090.36	1/4	747.11	1/4	402.44	1/4	60.20	1/4	1/4	1/4		1/4	
1/2	2,114.41	1/2	1,770.64	1/2	1,426.86	1/2	1,083.21	1/2	739.94	1/2	395.26	1/2	53.84	1/2	1/2	1/2		1/2	
3/4	2,107.25	3/4	1,763.48	3/4	1,419.70	3/4	1,076.06	3/4	732.76	3/4	388.08	3/4	48.62	3/4	3/4	3/4		3/4	
10	2,100.09	10	1,756.32	10	1,412.54	10	1,068.91	10	725.58	10	380.90	10	43.40	10	10	10		10	
1/4	2,092.93	1/4	1,749.15	1/4	1,405.37	1/4	1,061.76	1/4	718.40	1/4	373.71	1/4	38.18	1/4	1/4	1/4		1/4	
1/2	2,085.77	1/2	1,741.99	1/2	1,398.21	1/2	1,054.61	1/2	711.22	1/2	366.53	1/2	32.96	1/2	1/2	1/2		1/2	
3/4	2,078.61	3/4	1,734.83	3/4	1,391.05	3/4	1,047.46	3/4	704.04	3/4	359.35	3/4	29.05	3/4	3/4	3/4		3/4	
11	2,071.45	11	1,727.67	11	1,383.89	11	1,040.31	11	696.86	11	352.17	11	25.14	11	11	11		11	
1/4	2,064.28	1/4	1,720.50	1/4	1,376.73	1/4	1,033.16	1/4	689.68	1/4	344.99	1/4	21.23	1/4	1/4	1/4		1/4	
1/2	2,057.12	1/2	1,713.34	1/2	1,369.57	1/2	1,026.01	1/2	682.50	1/2	337.81	1/2	17.32	1/2	1/2	1/2		1/2	
3/4	2,049.96	3/4	1,706.18	3/4	1,362.41	3/4	1,018.86	3/4	675.32	3/4	330.63	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

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



# BARGE "KIRBY 30080"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 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	4,539.74	0	4,300.46	0	4,061.18	0	3,821.90	0	3,582.62	0	3,252.60	0	2,888.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,534.76	1/4	4,295.48	1/4	4,056.20	1/4	3,816.92	1/4	3,577.64	1/4	3,245.02	1/4	2,881.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,529.77	1/2	4,290.49	1/2	4,051.21	1/2	3,811.93	1/2	3,572.65	1/2	3,237.44	1/2	2,873.55
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,524.79	3/4	4,285.51	3/4	4,046.23	3/4	3,806.95	3/4	3,567.38	3/4	3,229.86	3/4	2,865.97
1		1		1		1	4,519.80	1	4,280.52	1	4,041.24	1	3,801.96	1	3,562.10	1	3,222.28	1	2,858.39
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,514.82	1/4	4,275.54	1/4	4,036.26	1/4	3,796.98	1/4	3,556.83	1/4	3,214.69	1/4	2,850.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,509.83	1/2	4,270.55	1/2	4,031.27	1/2	3,791.99	1/2	3,551.55	1/2	3,207.11	1/2	2,843.23
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,504.85	3/4	4,265.57	3/4	4,026.29	3/4	3,787.01	3/4	3,545.86	3/4	3,199.53	3/4	2,835.65
2		2		2		2	4,499.86	2	4,260.58	2	4,021.30	2	3,782.02	2	3,540.18	2	3,191.95	2	2,828.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,494.88	1/4	4,255.60	1/4	4,016.32	1/4	3,777.04	1/4	3,534.49	1/4	3,184.37	1/4	2,820.48
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,489.89	1/2	4,250.61	1/2	4,011.33	1/2	3,772.05	1/2	3,528.80	1/2	3,176.79	1/2	2,812.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,484.91	3/4	4,245.63	3/4	4,006.35	3/4	3,767.07	3/4	3,522.64	3/4	3,169.21	3/4	2,805.32
3		3		3		3	4,479.92	3	4,240.64	3	4,001.36	3	3,762.08	3	3,516.47	3	3,161.63	3	2,797.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,474.94	1/4	4,235.66	1/4	3,996.38	1/4	3,757.10	1/4	3,510.31	1/4	3,154.05	1/4	2,790.16
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,469.95	1/2	4,230.67	1/2	3,991.39	1/2	3,752.11	1/2	3,504.14	1/2	3,146.47	1/2	2,782.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,464.97	3/4	4,225.69	3/4	3,986.41	3/4	3,747.13	3/4	3,497.50	3/4	3,138.89	3/4	2,775.00
4		4		4		4	4,459.98	4	4,220.70	4	3,981.42	4	3,742.14	4	3,490.87	4	3,131.31	4	2,767.42
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,455.00	1/4	4,215.72	1/4	3,976.44	1/4	3,737.16	1/4	3,484.23	1/4	3,123.72	1/4	2,759.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,450.01	1/2	4,210.73	1/2	3,971.45	1/2	3,732.17	1/2	3,477.59	1/2	3,116.14	1/2	2,752.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,445.03	3/4	4,205.75	3/4	3,966.47	3/4	3,727.19	3/4	3,470.49	3/4	3,108.56	3/4	2,744.67
5		5		5		5	4,440.04	5	4,200.76	5	3,961.48	5	3,722.20	5	3,463.39	5	3,100.98	5	2,737.09
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,435.06	1/4	4,195.78	1/4	3,956.50	1/4	3,717.22	1/4	3,456.29	1/4	3,093.40	1/4	2,729.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,614.42	1/2	4,430.07	1/2	4,190.79	1/2	3,951.51	1/2	3,712.23	1/2	3,449.19	1/2	3,085.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,613.86	3/4	4,425.09	3/4	4,185.81	3/4	3,946.53	3/4	3,707.25	3/4	3,441.74	3/4	3,078.24
6		6		6		6	4,613.30	6	4,420.10	6	4,180.82	6	3,941.54	6	3,702.26	6	3,434.29	6	3,070.66
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,612.74	1/4	4,415.12	1/4	4,175.84	1/4	3,936.56	1/4	3,697.28	1/4	3,426.83	1/4	3,063.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,612.18	1/2	4,410.13	1/2	4,170.85	1/2	3,931.57	1/2	3,692.29	1/2	3,419.38	1/2	3,055.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,610.83	3/4	4,405.15	3/4	4,165.87	3/4	3,926.59	3/4	3,687.31	3/4	3,411.80	3/4	3,047.91
7		7		7		7	4,609.48	7	4,400.16	7	4,160.88	7	3,921.60	7	3,682.32	7	3,404.22	7	3,040.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,608.12	1/4	4,395.18	1/4	4,155.90	1/4	3,916.62	1/4	3,677.34	1/4	3,396.64	1/4	3,032.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,606.77	1/2	4,390.19	1/2	4,150.91	1/2	3,911.63	1/2	3,672.35	1/2	3,389.06	1/2	3,025.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,604.51	3/4	4,385.21	3/4	4,145.93	3/4	3,906.65	3/4	3,667.37	3/4	3,381.48	3/4	3,017.59
8		8		8		8	4,602.25	8	4,380.22	8	4,140.94	8	3,901.66	8	3,662.38	8	3,373.90	8	3,010.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,599.99	1/4	4,375.24	1/4	4,135.96	1/4	3,896.68	1/4	3,657.40	1/4	3,366.31	1/4	3,002.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,597.73	1/2	4,370.25	1/2	4,130.97	1/2	3,891.69	1/2	3,652.41	1/2	3,358.73	1/2	2,994.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,594.56	3/4	4,365.27	3/4	4,125.99	3/4	3,886.71	3/4	3,647.43	3/4	3,351.15	3/4	2,987.27
9		9		9		9	4,591.39	9	4,360.28	9	4,121.00	9	3,881.72	9	3,642.44	9	3,343.57	9	2,979.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,588.22	1/4	4,355.30	1/4	4,116.02	1/4	3,876.74	1/4	3,637.46	1/4	3,335.99	1/4	2,972.10
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,585.05	1/2	4,350.31	1/2	4,111.03	1/2	3,871.75	1/2	3,632.47	1/2	3,328.41	1/2	2,964.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,580.97	3/4	4,345.33	3/4	4,106.05	3/4	3,866.77	3/4	3,627.49	3/4	3,320.83	3/4	2,956.94
10		10		10		10	4,576.90	10	4,340.34	10	4,101.06	10	3,861.78	10	3,622.50	10	3,313.25	10	2,949.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,572.82	1/4	4,335.36	1/4	4,096.08	1/4	3,856.80	1/4	3,617.52	1/4	3,305.67	1/4	2,941.78
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,568.74	1/2	4,330.37	1/2	4,091.09	1/2	3,851.81	1/2	3,612.53	1/2	3,298.09	1/2	2,934.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,563.98	3/4	4,325.39	3/4	4,086.11	3/4	3,846.83	3/4	3,607.55	3/4	3,290.51	3/4	2,926.62
11		11		11		11	4,559.23	11	4,320.40	11	4,081.12	11	3,841.84	11	3,602.56	11	3,282.93	11	2,919.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,554.47	1/4	4,315.42	1/4	4,076.14	1/4	3,836.86	1/4	3,597.58	1/4	3,275.34	1/4	2,911.45
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,549.71	1/2	4,310.43	1/2	4,071.15	1/2	3,831.87	1/2	3,592.59	1/2	3,267.76	1/2	2,903.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,544.73	3/4	4,305.45	3/4	4,066.17	3/4	3,826.89	3/4	3,587.61	3/4	3,260.18	3/4	2,896.29

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" DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 30080"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,524.83	0	2,160.94	0	1,797.05	0	1,433.16	0	1,069.27	0	705.39	0	341.50	0		0		0	
1/4	2,517.24	1/4	2,153.35	1/4	1,789.47	1/4	1,425.58	1/4	1,061.69	1/4	697.80	1/4	333.91	1/4	1/4	1/4		1/4	1/4
1/2	2,509.66	1/2	2,145.77	1/2	1,781.89	1/2	1,418.00	1/2	1,054.11	1/2	690.22	1/2	326.33	1/2	1/2	1/2		1/2	1/2
3/4	2,502.08	3/4	2,138.19	3/4	1,774.31	3/4	1,410.42	3/4	1,046.53	3/4	682.64	3/4	318.75	3/4	3/4	3/4		3/4	3/4
1	2,494.50	1	2,130.61	1	1,766.73	1	1,402.84	1	1,038.95	1	675.06	1	311.17	1	1	1		1	1
1/4	2,486.92	1/4	2,123.03	1/4	1,759.14	1/4	1,395.25	1/4	1,031.37	1/4	667.48	1/4	303.59	1/4	1/4	1/4		1/4	1/4
1/2	2,479.34	1/2	2,115.45	1/2	1,751.56	1/2	1,387.67	1/2	1,023.79	1/2	659.90	1/2	296.01	1/2	1/2	1/2		1/2	1/2
3/4	2,471.76	3/4	2,107.87	3/4	1,743.98	3/4	1,380.09	3/4	1,016.21	3/4	652.32	3/4	288.43	3/4	3/4	3/4		3/4	3/4
2	2,464.18	2	2,100.29	2	1,736.40	2	1,372.51	2	1,008.63	2	644.74	2	280.85	2	2	2		2	2
1/4	2,456.59	1/4	2,092.71	1/4	1,728.82	1/4	1,364.93	1/4	1,001.04	1/4	637.15	1/4	273.27	1/4	1/4	1/4		1/4	1/4
1/2	2,449.01	1/2	2,085.13	1/2	1,721.24	1/2	1,357.35	1/2	993.46	1/2	629.57	1/2	265.69	1/2	1/2	1/2		1/2	1/2
3/4	2,441.43	3/4	2,077.50	3/4	1,713.66	3/4	1,349.77	3/4	985.88	3/4	621.99	3/4	258.11	3/4	3/4	3/4		3/4	3/4
3	2,433.85	3	2,069.87	3	1,706.08	3	1,342.19	3	978.30	3	614.41	3	250.53	3	3	3		3	3
1/4	2,426.27	1/4	2,062.23	1/4	1,698.49	1/4	1,334.61	1/4	970.72	1/4	606.83	1/4	242.94	1/4	1/4	1/4		1/4	1/4
1/2	2,418.69	1/2	2,054.60	1/2	1,690.91	1/2	1,327.03	1/2	963.14	1/2	599.25	1/2	235.36	1/2	1/2	1/2		1/2	1/2
3/4	2,411.11	3/4	2,047.07	3/4	1,683.33	3/4	1,319.45	3/4	955.56	3/4	591.67	3/4	227.78	3/4	3/4	3/4		3/4	3/4
4	2,403.53	4	2,039.54	4	1,675.75	4	1,311.87	4	947.98	4	584.09	4	220.20	4	4	4		4	4
1/4	2,395.95	1/4	2,032.01	1/4	1,668.17	1/4	1,304.28	1/4	940.39	1/4	576.51	1/4	212.62	1/4	1/4	1/4		1/4	1/4
1/2	2,388.37	1/2	2,024.48	1/2	1,660.59	1/2	1,296.70	1/2	932.81	1/2	568.93	1/2	205.04	1/2	1/2	1/2		1/2	1/2
3/4	2,380.79	3/4	2,016.90	3/4	1,653.01	3/4	1,289.12	3/4	925.23	3/4	561.35	3/4	197.46	3/4	3/4	3/4		3/4	3/4
5	2,373.21	5	2,009.32	5	1,645.43	5	1,281.54	5	917.65	5	553.77	5	189.88	5	5	5		5	5
1/4	2,365.62	1/4	2,001.73	1/4	1,637.85	1/4	1,273.96	1/4	910.07	1/4	546.18	1/4	182.29	1/4	1/4	1/4		1/4	1/4
1/2	2,358.04	1/2	1,994.15	1/2	1,630.27	1/2	1,266.38	1/2	902.49	1/2	538.60	1/2	174.71	1/2	1/2	1/2		1/2	1/2
3/4	2,350.46	3/4	1,986.57	3/4	1,622.69	3/4	1,258.80	3/4	894.91	3/4	531.02	3/4	167.13	3/4	3/4	3/4		3/4	3/4
6	2,342.88	6	1,978.99	6	1,615.11	6	1,251.22	6	887.33	6	523.44	6	159.55	6	6	6		6	6
1/4	2,335.30	1/4	1,971.41	1/4	1,607.52	1/4	1,243.63	1/4	879.75	1/4	515.86	1/4	151.97	1/4	1/4	1/4		1/4	1/4
1/2	2,327.72	1/2	1,963.83	1/2	1,599.94	1/2	1,236.05	1/2	872.17	1/2	508.28	1/2	144.39	1/2	1/2	1/2		1/2	1/2
3/4	2,320.14	3/4	1,956.25	3/4	1,592.36	3/4	1,228.47	3/4	864.59	3/4	500.70	3/4	136.81	3/4	3/4	3/4		3/4	3/4
7	2,312.56	7	1,948.67	7	1,584.78	7	1,220.89	7	857.01	7	493.12	7	129.23	7	7	7		7	7
1/4	2,304.97	1/4	1,941.09	1/4	1,577.20	1/4	1,213.31	1/4	849.42	1/4	485.53	1/4	121.65	1/4	1/4	1/4		1/4	1/4
1/2	2,297.39	1/2	1,933.51	1/2	1,569.62	1/2	1,205.73	1/2	841.84	1/2	477.95	1/2	114.07	1/2	1/2	1/2		1/2	1/2
3/4	2,289.81	3/4	1,925.93	3/4	1,562.04	3/4	1,198.15	3/4	834.26	3/4	470.37	3/4	106.49	3/4	3/4	3/4		3/4	3/4
8	2,282.23	8	1,918.35	8	1,554.46	8	1,190.57	8	826.68	8	462.79	8	98.91	8	8	8		8	8
1/4	2,274.65	1/4	1,910.76	1/4	1,546.87	1/4	1,182.99	1/4	819.10	1/4	455.21	1/4	91.32	1/4	1/4	1/4		1/4	1/4
1/2	2,267.07	1/2	1,903.18	1/2	1,539.29	1/2	1,175.41	1/2	811.52	1/2	447.63	1/2	83.74	1/2	1/2	1/2		1/2	1/2
3/4	2,259.49	3/4	1,895.60	3/4	1,531.71	3/4	1,167.83	3/4	803.94	3/4	440.05	3/4	77.02	3/4	3/4	3/4		3/4	3/4
9	2,251.91	9	1,888.02	9	1,524.13	9	1,160.25	9	796.36	9	432.47	9	70.30	9	9	9		9	9
1/4	2,244.33	1/4	1,880.44	1/4	1,516.55	1/4	1,152.66	1/4	788.77	1/4	424.89	1/4	63.57	1/4	1/4	1/4		1/4	1/4
1/2	2,236.75	1/2	1,872.86	1/2	1,508.97	1/2	1,145.08	1/2	781.19	1/2	417.31	1/2	56.85	1/2	1/2	1/2		1/2	1/2
3/4	2,229.17	3/4	1,865.28	3/4	1,501.39	3/4	1,137.50	3/4	773.61	3/4	409.73	3/4	51.34	3/4	3/4	3/4		3/4	3/4
10	2,221.59	10	1,857.70	10	1,493.81	10	1,129.92	10	766.03	10	402.15	10	45.83	10	10	10		10	10
1/4	2,214.00	1/4	1,850.11	1/4	1,486.23	1/4	1,122.34	1/4	758.45	1/4	394.56	1/4	40.31	1/4	1/4	1/4		1/4	1/4
1/2	2,206.42	1/2	1,842.53	1/2	1,478.65	1/2	1,114.76	1/2	750.87	1/2	386.98	1/2	34.80	1/2	1/2	1/2		1/2	1/2
3/4	2,198.84	3/4	1,834.95	3/4	1,471.07	3/4	1,107.18	3/4	743.29	3/4	379.40	3/4	30.67	3/4	3/4	3/4		3/4	3/4
11	2,191.26	11	1,827.37	11	1,463.49	11	1,099.60	11	735.71	11	371.82	11	26.55	11	11	11		11	11
1/4	2,183.68	1/4	1,819.79	1/4	1,455.90	1/4	1,092.01	1/4	728.13	1/4	364.24	1/4	22.42	1/4	1/4	1/4		1/4	1/4
1/2	2,176.10	1/2	1,812.21	1/2	1,448.32	1/2	1,084.43	1/2	720.55	1/2	356.66	1/2	18.29	1/2	1/2	1/2		1/2	1/2
3/4	2,168.52	3/4	1,804.63	3/4	1,440.74	3/4	1,076.85	3/4	712.97	3/4	349.08	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

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



# BARGE "KIRBY 30080"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 1/2"

0 FT.				1 FT.				2 FT.				3 FT.				4 FT.				5 FT.				6 FT.				7 FT.				8 FT.				9 FT.							
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN					
0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4				
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2				
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4				
1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4				
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2				
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4				

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "KIRBY 30080"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3011"

GAUGE HEIGHT 16'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,524.83	0	2,160.94	0	1,797.05	0	1,433.16	0	1,069.27	0	705.39	0	341.50	0		0		0	
1/4	2,517.24	1/4	2,153.35	1/4	1,789.47	1/4	1,425.58	1/4	1,061.69	1/4	697.80	1/4	333.91	1/4	1/4	1/4		1/4	1/4
1/2	2,509.66	1/2	2,145.77	1/2	1,781.89	1/2	1,418.00	1/2	1,054.11	1/2	690.22	1/2	326.33	1/2	1/2	1/2		1/2	1/2
3/4	2,502.08	3/4	2,138.19	3/4	1,774.31	3/4	1,410.42	3/4	1,046.53	3/4	682.64	3/4	318.75	3/4	3/4	3/4		3/4	3/4
1	2,494.50	1	2,130.61	1	1,766.73	1	1,402.84	1	1,038.95	1	675.06	1	311.17	1	1	1		1	1
1/4	2,486.92	1/4	2,123.03	1/4	1,759.14	1/4	1,395.25	1/4	1,031.37	1/4	667.48	1/4	303.59	1/4	1/4	1/4		1/4	1/4
1/2	2,479.34	1/2	2,115.45	1/2	1,751.56	1/2	1,387.67	1/2	1,023.79	1/2	659.90	1/2	296.01	1/2	1/2	1/2		1/2	1/2
3/4	2,471.76	3/4	2,107.87	3/4	1,743.98	3/4	1,380.09	3/4	1,016.21	3/4	652.32	3/4	288.43	3/4	3/4	3/4		3/4	3/4
2	2,464.18	2	2,100.29	2	1,736.40	2	1,372.51	2	1,008.63	2	644.74	2	280.85	2	2	2		2	2
1/4	2,456.59	1/4	2,092.71	1/4	1,728.82	1/4	1,364.93	1/4	1,001.04	1/4	637.15	1/4	273.27	1/4	1/4	1/4		1/4	1/4
1/2	2,449.01	1/2	2,085.13	1/2	1,721.24	1/2	1,357.35	1/2	993.46	1/2	629.57	1/2	265.69	1/2	1/2	1/2		1/2	1/2
3/4	2,441.43	3/4	2,077.50	3/4	1,713.66	3/4	1,349.77	3/4	985.88	3/4	621.99	3/4	258.11	3/4	3/4	3/4		3/4	3/4
3	2,433.85	3	2,069.87	3	1,706.08	3	1,342.19	3	978.30	3	614.41	3	250.53	3	3	3		3	3
1/4	2,426.27	1/4	2,062.23	1/4	1,698.49	1/4	1,334.61	1/4	970.72	1/4	606.83	1/4	242.94	1/4	1/4	1/4		1/4	1/4
1/2	2,418.69	1/2	2,054.60	1/2	1,690.91	1/2	1,327.03	1/2	963.14	1/2	599.25	1/2	235.36	1/2	1/2	1/2		1/2	1/2
3/4	2,411.11	3/4	2,047.07	3/4	1,683.33	3/4	1,319.45	3/4	955.56	3/4	591.67	3/4	227.78	3/4	3/4	3/4		3/4	3/4
4	2,403.53	4	2,039.54	4	1,675.75	4	1,311.87	4	947.98	4	584.09	4	220.20	4	4	4		4	4
1/4	2,395.95	1/4	2,032.01	1/4	1,668.17	1/4	1,304.28	1/4	940.39	1/4	576.51	1/4	212.62	1/4	1/4	1/4		1/4	1/4
1/2	2,388.37	1/2	2,024.48	1/2	1,660.59	1/2	1,296.70	1/2	932.81	1/2	568.93	1/2	205.04	1/2	1/2	1/2		1/2	1/2
3/4	2,380.79	3/4	2,016.90	3/4	1,653.01	3/4	1,289.12	3/4	925.23	3/4	561.35	3/4	197.46	3/4	3/4	3/4		3/4	3/4
5	2,373.21	5	2,009.32	5	1,645.43	5	1,281.54	5	917.65	5	553.77	5	189.88	5	5	5		5	5
1/4	2,365.62	1/4	2,001.73	1/4	1,637.85	1/4	1,273.96	1/4	910.07	1/4	546.18	1/4	182.29	1/4	1/4	1/4		1/4	1/4
1/2	2,358.04	1/2	1,994.15	1/2	1,630.27	1/2	1,266.38	1/2	902.49	1/2	538.60	1/2	174.71	1/2	1/2	1/2		1/2	1/2
3/4	2,350.46	3/4	1,986.57	3/4	1,622.69	3/4	1,258.80	3/4	894.91	3/4	531.02	3/4	167.13	3/4	3/4	3/4		3/4	3/4
6	2,342.88	6	1,978.99	6	1,615.11	6	1,251.22	6	887.33	6	523.44	6	159.55	6	6	6		6	6
1/4	2,335.30	1/4	1,971.41	1/4	1,607.52	1/4	1,243.63	1/4	879.75	1/4	515.86	1/4	151.97	1/4	1/4	1/4		1/4	1/4
1/2	2,327.72	1/2	1,963.83	1/2	1,599.94	1/2	1,236.05	1/2	872.17	1/2	508.28	1/2	144.39	1/2	1/2	1/2		1/2	1/2
3/4	2,320.14	3/4	1,956.25	3/4	1,592.36	3/4	1,228.47	3/4	864.59	3/4	500.70	3/4	136.81	3/4	3/4	3/4		3/4	3/4
7	2,312.56	7	1,948.67	7	1,584.78	7	1,220.89	7	857.01	7	493.12	7	129.23	7	7	7		7	7
1/4	2,304.97	1/4	1,941.09	1/4	1,577.20	1/4	1,213.31	1/4	849.42	1/4	485.53	1/4	121.65	1/4	1/4	1/4		1/4	1/4
1/2	2,297.39	1/2	1,933.51	1/2	1,569.62	1/2	1,205.73	1/2	841.84	1/2	477.95	1/2	114.07	1/2	1/2	1/2		1/2	1/2
3/4	2,289.81	3/4	1,925.93	3/4	1,562.04	3/4	1,198.15	3/4	834.26	3/4	470.37	3/4	106.49	3/4	3/4	3/4		3/4	3/4
8	2,282.23	8	1,918.35	8	1,554.46	8	1,190.57	8	826.68	8	462.79	8	98.91	8	8	8		8	8
1/4	2,274.65	1/4	1,910.76	1/4	1,546.87	1/4	1,182.99	1/4	819.10	1/4	455.21	1/4	91.32	1/4	1/4	1/4		1/4	1/4
1/2	2,267.07	1/2	1,903.18	1/2	1,539.29	1/2	1,175.41	1/2	811.52	1/2	447.63	1/2	83.74	1/2	1/2	1/2		1/2	1/2
3/4	2,259.49	3/4	1,895.60	3/4	1,531.71	3/4	1,167.83	3/4	803.94	3/4	440.05	3/4	77.02	3/4	3/4	3/4		3/4	3/4
9	2,251.91	9	1,888.02	9	1,524.13	9	1,160.25	9	796.36	9	432.47	9	70.30	9	9	9		9	9
1/4	2,244.33	1/4	1,880.44	1/4	1,516.55	1/4	1,152.66	1/4	788.77	1/4	424.89	1/4	63.57	1/4	1/4	1/4		1/4	1/4
1/2	2,236.75	1/2	1,872.86	1/2	1,508.97	1/2	1,145.08	1/2	781.19	1/2	417.31	1/2	56.85	1/2	1/2	1/2		1/2	1/2
3/4	2,229.17	3/4	1,865.28	3/4	1,501.39	3/4	1,137.50	3/4	773.61	3/4	409.73	3/4	51.34	3/4	3/4	3/4		3/4	3/4
10	2,221.59	10	1,857.70	10	1,493.81	10	1,129.92	10	766.03	10	402.15	10	45.83	10	10	10		10	10
1/4	2,214.00	1/4	1,850.11	1/4	1,486.23	1/4	1,122.34	1/4	758.45	1/4	394.56	1/4	40.31	1/4	1/4	1/4		1/4	1/4
1/2	2,206.42	1/2	1,842.53	1/2	1,478.65	1/2	1,114.76	1/2	750.87	1/2	386.98	1/2	34.80	1/2	1/2	1/2		1/2	1/2
3/4	2,198.84	3/4	1,834.95	3/4	1,471.07	3/4	1,107.18	3/4	743.29	3/4	379.40	3/4	30.67	3/4	3/4	3/4		3/4	3/4
11	2,191.26	11	1,827.37	11	1,463.49	11	1,099.60	11	735.71	11	371.82	11	26.55	11	11	11		11	11
1/4	2,183.68	1/4	1,819.79	1/4	1,455.90	1/4	1,092.01	1/4	728.13	1/4	364.24	1/4	22.42	1/4	1/4	1/4		1/4	1/4
1/2	2,176.10	1/2	1,812.21	1/2	1,448.32	1/2	1,084.43	1/2	720.55	1/2	356.66	1/2	18.29	1/2	1/2	1/2		1/2	1/2
3/4	2,168.52	3/4	1,804.63	3/4	1,440.74	3/4	1,076.85	3/4	712.97	3/4	349.08	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/14/2003 INSP  
DECK MEASUREMENTS: 07/13/2023 CL  
RECOMPUTED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

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





# BARGE "KIRBY 30080"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-07"

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	988	0	1,976	0	2,963	0	3,951	0		0		0		0		0	
1/4	21	1/4	1,008	1/4	1,996	1/4	2,984	1/4	3,972	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,029	1/2	2,017	1/2	3,005	1/2	3,992	1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	1,050	3/4	2,037	3/4	3,025	3/4	4,013	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,070	1	2,058	1	3,046	1	4,034	1		1		1		1		1	
1/4	103	1/4	1,091	1/4	2,079	1/4	3,066	1/4	4,054	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,111	1/2	2,099	1/2	3,087	1/2	4,075	1/2		1/2		1/2		1/2		1/2	
3/4	144	3/4	1,132	3/4	2,120	3/4	3,108	3/4	4,095	3/4		3/4		3/4		3/4		3/4	
2	165	2	1,152	2	2,140	2	3,128	2	4,116	2		2		2		2		2	
1/4	185	1/4	1,173	1/4	2,161	1/4	3,149	1/4	4,137	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	1,194	1/2	2,181	1/2	3,169	1/2	4,157	1/2		1/2		1/2		1/2		1/2	
3/4	226	3/4	1,214	3/4	2,202	3/4	3,190	3/4	4,178	3/4		3/4		3/4		3/4		3/4	
3	247	3	1,235	3	2,223	3	3,210	3	4,198	3		3		3		3		3	
1/4	268	1/4	1,255	1/4	2,243	1/4	3,231	1/4	4,219	1/4		1/4		1/4		1/4		1/4	
1/2	288	1/2	1,276	1/2	2,264	1/2	3,252	1/2	4,239	1/2		1/2		1/2		1/2		1/2	
3/4	309	3/4	1,297	3/4	2,284	3/4	3,272	3/4	4,260	3/4		3/4		3/4		3/4		3/4	
4	329	4	1,317	4	2,305	4	3,293	4	4,281	4		4		4		4		4	
1/4	350	1/4	1,338	1/4	2,326	1/4	3,313	1/4	4,301	1/4		1/4		1/4		1/4		1/4	
1/2	370	1/2	1,358	1/2	2,346	1/2	3,334	1/2	4,322	1/2		1/2		1/2		1/2		1/2	
3/4	391	3/4	1,379	3/4	2,367	3/4	3,355	3/4	4,342	3/4		3/4		3/4		3/4		3/4	
5	412	5	1,399	5	2,387	5	3,375	5	4,363	5		5		5		5		5	
1/4	432	1/4	1,420	1/4	2,408	1/4	3,396	1/4	4,383	1/4		1/4		1/4		1/4		1/4	
1/2	453	1/2	1,441	1/2	2,428	1/2	3,416	1/2	4,404	1/2		1/2		1/2		1/2		1/2	
3/4	473	3/4	1,461	3/4	2,449	3/4	3,437	5/8	4,414	3/4		3/4		3/4		3/4		3/4	
6	494	6	1,482	6	2,470	6	3,457	6		6		6		6		6		6	
1/4	514	1/4	1,502	1/4	2,490	1/4	3,478	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	535	1/2	1,523	1/2	2,511	1/2	3,499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	556	3/4	1,543	3/4	2,531	3/4	3,519	3/4		3/4		3/4		3/4		3/4		3/4	
7	576	7	1,564	7	2,552	7	3,540	7		7		7		7		7		7	
1/4	597	1/4	1,585	1/4	2,572	1/4	3,560	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	617	1/2	1,605	1/2	2,593	1/2	3,581	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	638	3/4	1,626	3/4	2,614	3/4	3,601	3/4		3/4		3/4		3/4		3/4		3/4	
8	659	8	1,646	8	2,634	8	3,622	8		8		8		8		8		8	
1/4	679	1/4	1,667	1/4	2,655	1/4	3,643	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	700	1/2	1,688	1/2	2,675	1/2	3,663	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	720	3/4	1,708	3/4	2,696	3/4	3,684	3/4		3/4		3/4		3/4		3/4		3/4	
9	741	9	1,729	9	2,717	9	3,704	9		9		9		9		9		9	
1/4	761	1/4	1,749	1/4	2,737	1/4	3,725	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	782	1/2	1,770	1/2	2,758	1/2	3,746	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,790	3/4	2,778	3/4	3,766	3/4		3/4		3/4		3/4		3/4		3/4	
10	823	10	1,811	10	2,799	10	3,787	10		10		10		10		10		10	
1/4	844	1/4	1,832	1/4	2,819	1/4	3,807	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	864	1/2	1,852	1/2	2,840	1/2	3,828	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	885	3/4	1,873	3/4	2,861	3/4	3,848	3/4		3/4		3/4		3/4		3/4		3/4	
11	906	11	1,893	11	2,881	11	3,869	11		11		11		11		11		11	
1/4	926	1/4	1,914	1/4	2,902	1/4	3,890	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	947	1/2	1,935	1/2	2,922	1/2	3,910	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	1,955	3/4	2,943	3/4	3,931	3/4		3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 07/13/2023 CL  
 CALCULATED: 07/14/2023 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 07/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "KIRBY 30080"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-07"

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	986	0	1,973	0	2,959	0	3,945	0		0		0		0		0	
1/4	21	1/4	1,007	1/4	1,993	1/4	2,979	1/4	3,966	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,027	1/2	2,014	1/2	3,000	1/2	3,986	1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	1,048	3/4	2,034	3/4	3,020	3/4	4,007	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,068	1	2,055	1	3,041	1	4,027	1		1		1		1		1	
1/4	103	1/4	1,089	1/4	2,075	1/4	3,062	1/4	4,048	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,110	1/2	2,096	1/2	3,082	1/2	4,068	1/2		1/2		1/2		1/2		1/2	
3/4	144	3/4	1,130	3/4	2,116	3/4	3,103	3/4	4,089	3/4		3/4		3/4		3/4		3/4	
2	164	2	1,151	2	2,137	2	3,123	2	4,109	2		2		2		2		2	
1/4	185	1/4	1,171	1/4	2,157	1/4	3,144	1/4	4,130	1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,192	1/2	2,178	1/2	3,164	1/2	4,150	1/2		1/2		1/2		1/2		1/2	
3/4	226	3/4	1,212	3/4	2,199	3/4	3,185	3/4	4,171	3/4		3/4		3/4		3/4		3/4	
3	247	3	1,233	3	2,219	3	3,205	3	4,192	3		3		3		3		3	
1/4	267	1/4	1,253	1/4	2,240	1/4	3,226	1/4	4,212	1/4		1/4		1/4		1/4		1/4	
1/2	288	1/2	1,274	1/2	2,260	1/2	3,246	1/2	4,233	1/2		1/2		1/2		1/2		1/2	
3/4	308	3/4	1,294	3/4	2,281	3/4	3,267	3/4	4,253	3/4		3/4		3/4		3/4		3/4	
4	329	4	1,315	4	2,301	4	3,288	4	4,274	4		4		4		4		4	
1/4	349	1/4	1,336	1/4	2,322	1/4	3,308	1/4	4,294	1/4		1/4		1/4		1/4		1/4	
1/2	370	1/2	1,356	1/2	2,342	1/2	3,329	1/2	4,315	1/2		1/2		1/2		1/2		1/2	
3/4	390	3/4	1,377	3/4	2,363	3/4	3,349	3/4	4,335	3/4		3/4		3/4		3/4		3/4	
5	411	5	1,397	5	2,383	5	3,370	5	4,356	5		5		5		5		5	
1/4	431	1/4	1,418	1/4	2,404	1/4	3,390	1/4	4,377	1/4		1/4		1/4		1/4		1/4	
1/2	452	1/2	1,438	1/2	2,425	1/2	3,411	1/2	4,397	1/2		1/2		1/2		1/2		1/2	
3/4	473	3/4	1,459	3/4	2,445	3/4	3,431	5/8	4,407	3/4		3/4		3/4		3/4		3/4	
6	493	6	1,479	6	2,466	6	3,452	6	=====	6		6		6		6		6	
1/4	514	1/4	1,500	1/4	2,486	1/4	3,472	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	534	1/2	1,520	1/2	2,507	1/2	3,493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	555	3/4	1,541	3/4	2,527	3/4	3,514	3/4		3/4		3/4		3/4		3/4		3/4	
7	575	7	1,562	7	2,548	7	3,534	7		7		7		7		7		7	
1/4	596	1/4	1,582	1/4	2,568	1/4	3,555	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	616	1/2	1,603	1/2	2,589	1/2	3,575	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	637	3/4	1,623	3/4	2,609	3/4	3,596	3/4		3/4		3/4		3/4		3/4		3/4	
8	658	8	1,644	8	2,630	8	3,616	8		8		8		8		8		8	
1/4	678	1/4	1,664	1/4	2,651	1/4	3,637	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	699	1/2	1,685	1/2	2,671	1/2	3,657	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	719	3/4	1,705	3/4	2,692	3/4	3,678	3/4		3/4		3/4		3/4		3/4		3/4	
9	740	9	1,726	9	2,712	9	3,698	9		9		9		9		9		9	
1/4	760	1/4	1,746	1/4	2,733	1/4	3,719	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	781	1/2	1,767	1/2	2,753	1/2	3,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	801	3/4	1,788	3/4	2,774	3/4	3,760	3/4		3/4		3/4		3/4		3/4		3/4	
10	822	10	1,808	10	2,794	10	3,781	10		10		10		10		10		10	
1/4	842	1/4	1,829	1/4	2,815	1/4	3,801	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	863	1/2	1,849	1/2	2,835	1/2	3,822	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	884	3/4	1,870	3/4	2,856	3/4	3,842	3/4		3/4		3/4		3/4		3/4		3/4	
11	904	11	1,890	11	2,877	11	3,863	11		11		11		11		11		11	
1/4	925	1/4	1,911	1/4	2,897	1/4	3,883	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	945	1/2	1,931	1/2	2,918	1/2	3,904	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	966	3/4	1,952	3/4	2,938	3/4	3,924	3/4		3/4		3/4		3/4		3/4		3/4	

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

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# BARGE "KIRBY 30080"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	395	0	790	0	1,185	0	1,579	0		0		0		0		0	
1/4	8	1/4	403	1/4	798	1/4	1,193	1/4	1,588	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	411	1/2	806	1/2	1,201	1/2	1,596	1/2		1/2		1/2		1/2		1/2	
3/4	25	3/4	420	3/4	814	3/4	1,209	3/4	1,604	3/4		3/4		3/4		3/4		3/4	
1	33	1	428	1	823	1	1,218	1	1,612	1		1		1		1		1	
1/4	41	1/4	436	1/4	831	1/4	1,226	1/4	1,621	1/4		1/4		1/4		1/4		1/4	
1/2	49	1/2	444	1/2	839	1/2	1,234	1/2	1,629	1/2		1/2		1/2		1/2		1/2	
3/4	58	3/4	452	3/4	847	3/4	1,242	3/4	1,637	3/4		3/4		3/4		3/4		3/4	
2	66	2	461	2	856	2	1,250	2	1,645	2		2		2		2		2	
1/4	74	1/4	469	1/4	864	1/4	1,259	1/4	1,654	1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	477	1/2	872	1/2	1,267	1/2	1,662	1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	485	3/4	880	3/4	1,275	3/4	1,670	3/4		3/4		3/4		3/4		3/4	
3	99	3	494	3	888	3	1,283	3	1,678	3		3		3		3		3	
1/4	107	1/4	502	1/4	897	1/4	1,292	1/4	1,686	1/4		1/4		1/4		1/4		1/4	
1/2	115	1/2	510	1/2	905	1/2	1,300	1/2	1,695	1/2		1/2		1/2		1/2		1/2	
3/4	123	3/4	518	3/4	913	3/4	1,308	3/4	1,703	3/4		3/4		3/4		3/4		3/4	
4	132	4	526	4	921	4	1,316	4	1,711	4		4		4		4		4	
1/4	140	1/4	535	1/4	930	1/4	1,324	1/4	1,719	1/4		1/4		1/4		1/4		1/4	
1/2	148	1/2	543	1/2	938	1/2	1,333	1/2	1,728	1/2		1/2		1/2		1/2		1/2	
3/4	156	3/4	551	3/4	946	3/4	1,341	3/4	1,736	3/4		3/4		3/4		3/4		3/4	
5	165	5	559	5	954	5	1,349	5	1,744	5		5		5		5		5	
1/4	173	1/4	568	1/4	963	1/4	1,357	1/4	1,752	1/4		1/4		1/4		1/4		1/4	
1/2	181	1/2	576	1/2	971	1/2	1,366	1/2	1,760	1/2		1/2		1/2		1/2		1/2	
3/4	189	3/4	584	3/4	979	3/4	1,374	3/4	1,769	3/4		3/4		3/4		3/4		3/4	
6	197	6	592	6	987	6	1,382	7/8	1,773	6		6		6		6		6	
1/4	206	1/4	601	1/4	995	1/4	1,390	1/4	=====	1/4		1/4		1/4		1/4		1/4	
1/2	214	1/2	609	1/2	1,004	1/2	1,399	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	222	3/4	617	3/4	1,012	3/4	1,407	3/4		3/4		3/4		3/4		3/4		3/4	
7	230	7	625	7	1,020	7	1,415	7		7		7		7		7		7	
1/4	239	1/4	633	1/4	1,028	1/4	1,423	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	247	1/2	642	1/2	1,037	1/2	1,431	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	650	3/4	1,045	3/4	1,440	3/4		3/4		3/4		3/4		3/4		3/4	
8	263	8	658	8	1,053	8	1,448	8		8		8		8		8		8	
1/4	271	1/4	666	1/4	1,061	1/4	1,456	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	280	1/2	675	1/2	1,069	1/2	1,464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	288	3/4	683	3/4	1,078	3/4	1,473	3/4		3/4		3/4		3/4		3/4		3/4	
9	296	9	691	9	1,086	9	1,481	9		9		9		9		9		9	
1/4	304	1/4	699	1/4	1,094	1/4	1,489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	313	1/2	707	1/2	1,102	1/2	1,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	321	3/4	716	3/4	1,111	3/4	1,505	3/4		3/4		3/4		3/4		3/4		3/4	
10	329	10	724	10	1,119	10	1,514	10		10		10		10		10		10	
1/4	337	1/4	732	1/4	1,127	1/4	1,522	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	346	1/2	740	1/2	1,135	1/2	1,530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	354	3/4	749	3/4	1,143	3/4	1,538	3/4		3/4		3/4		3/4		3/4		3/4	
11	362	11	757	11	1,152	11	1,547	11		11		11		11		11		11	
1/4	370	1/4	765	1/4	1,160	1/4	1,555	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	378	1/2	773	1/2	1,168	1/2	1,563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	387	3/4	782	3/4	1,176	3/4	1,571	3/4		3/4		3/4		3/4		3/4		3/4	

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