



# BARGE "KIRBY 22400"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
4 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
4 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
5 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
5 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
6 PORT	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8
6 STBD	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-5/8	- 02-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 221'-09"

August 30, 2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-00 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	1,847.17	0	1,680.33	0	1,513.48	0	1,346.01	0	1,178.49	0	1,010.97	0	843.45	0	675.93			
1/4	1/4	1/4	1,843.70	1/4	1,676.85	1/4	1,510.00	1/4	1,342.52	1/4	1,175.00	1/4	1,007.48	1/4	839.96	1/4	672.44			
1/2	1/2	1/2	1,840.22	1/2	1,673.37	1/2	1,506.52	1/2	1,339.03	1/2	1,171.51	1/2	1,003.99	1/2	836.47	1/2	668.95			
3/4	3/4	3/4	1,836.75	3/4	1,669.90	3/4	1,503.04	3/4	1,335.54	3/4	1,168.02	3/4	1,000.50	3/4	832.98	3/4	665.46			
1	1	1	1,833.27	1	1,666.42	1	1,499.56	1	1,332.05	1	1,164.53	1	997.01	1	829.49	1	661.97			
1/4	1/4	1/4	1,829.80	1/4	1,662.95	1/4	1,496.07	1/4	1,328.56	1/4	1,161.04	1/4	993.52	1/4	826.00	1/4	658.48			
1/2	1/2	1/2	1,826.32	1/2	1,659.47	1/2	1,492.59	1/2	1,325.07	1/2	1,157.55	1/2	990.03	1/2	822.51	1/2	654.99			
3/4	3/4	3/4	1,822.84	3/4	1,655.99	3/4	1,489.10	3/4	1,321.58	3/4	1,154.06	3/4	986.54	3/4	819.02	3/4	651.50			
2	2	2	1,819.37	2	1,652.52	2	1,485.61	2	1,318.09	2	1,150.57	2	983.05	2	815.53	2	648.01			
1/4	1/4	1,926.94	1/4	1,815.89	1/4	1,649.04	1/4	1,482.12	1/4	1,314.60	1/4	1,147.08	1/4	979.56	1/4	812.04	1/4	644.52		
1/2	1/2	1,926.73	1/2	1,812.41	1/2	1,645.56	1/2	1,478.63	1/2	1,311.11	1/2	1,143.59	1/2	976.07	1/2	808.55	1/2	641.03		
3/4	3/4	1,926.42	3/4	1,808.94	3/4	1,642.09	3/4	1,475.14	3/4	1,307.62	3/4	1,140.10	3/4	972.58	3/4	805.06	3/4	637.54		
3	3	1,926.10	3	1,805.46	3	1,638.61	3	1,471.65	3	1,304.13	3	1,136.61	3	969.09	3	801.57	3	634.05		
1/4	1/4	1,925.79	1/4	1,801.99	1/4	1,635.14	1/4	1,468.16	1/4	1,300.64	1/4	1,133.12	1/4	965.60	1/4	798.08	1/4	630.56		
1/2	1/2	1,925.47	1/2	1,798.51	1/2	1,631.66	1/2	1,464.67	1/2	1,297.15	1/2	1,129.63	1/2	962.11	1/2	794.59	1/2	627.07		
3/4	3/4	1,924.72	3/4	1,795.03	3/4	1,628.19	3/4	1,461.18	3/4	1,293.66	3/4	1,126.14	3/4	958.62	3/4	791.10	3/4	623.58		
4	4	1,923.97	4	1,791.56	4	1,624.71	4	1,457.69	4	1,290.17	4	1,122.65	4	955.13	4	787.61	4	620.09		
1/4	1/4	1,923.22	1/4	1,788.08	1/4	1,621.24	1/4	1,454.20	1/4	1,286.68	1/4	1,119.16	1/4	951.64	1/4	784.12	1/4	616.60		
1/2	1/2	1,922.47	1/2	1,784.60	1/2	1,617.76	1/2	1,450.71	1/2	1,283.19	1/2	1,115.67	1/2	948.15	1/2	780.63	1/2	613.11		
3/4	3/4	1,921.28	3/4	1,781.13	3/4	1,614.28	3/4	1,447.22	3/4	1,279.70	3/4	1,112.18	3/4	944.66	3/4	777.14	3/4	609.62		
5	5	1,920.10	5	1,777.65	5	1,610.81	5	1,443.73	5	1,276.21	5	1,108.69	5	941.17	5	773.65	5	606.13		
1/4	1/4	1,918.91	1/4	1,774.18	1/4	1,607.33	1/4	1,440.24	1/4	1,272.72	1/4	1,105.20	1/4	937.68	1/4	770.16	1/4	602.64		
1/2	1/2	1,917.72	1/2	1,770.70	1/2	1,603.85	1/2	1,436.75	1/2	1,269.23	1/2	1,101.71	1/2	934.19	1/2	766.67	1/2	599.15		
3/4	3/4	1,916.10	3/4	1,767.23	3/4	1,600.38	3/4	1,433.26	3/4	1,265.74	3/4	1,098.22	3/4	930.70	3/4	763.18	3/4	595.66		
6	6	1,914.48	6	1,763.75	6	1,596.90	6	1,429.77	6	1,262.25	6	1,094.73	6	927.21	6	759.69	6	592.17		
1/4	1/4	1,912.85	1/4	1,760.28	1/4	1,593.43	1/4	1,426.28	1/4	1,258.76	1/4	1,091.24	1/4	923.72	1/4	756.20	1/4	588.68		
1/2	1/2	1,911.23	1/2	1,756.80	1/2	1,589.95	1/2	1,422.79	1/2	1,255.27	1/2	1,087.75	1/2	920.23	1/2	752.71	1/2	585.19		
3/4	3/4	1,909.17	3/4	1,753.32	3/4	1,586.47	3/4	1,419.30	3/4	1,251.78	3/4	1,084.26	3/4	916.74	3/4	749.22	3/4	581.70		
7	7	1,907.11	7	1,749.85	7	1,583.00	7	1,415.81	7	1,248.29	7	1,080.77	7	913.25	7	745.73	7	578.21		
1/4	1/4	1,905.05	1/4	1,746.37	1/4	1,579.52	1/4	1,412.32	1/4	1,244.80	1/4	1,077.28	1/4	909.76	1/4	742.24	1/4	574.72		
1/2	1/2	1,902.99	1/2	1,742.89	1/2	1,576.04	1/2	1,408.83	1/2	1,241.31	1/2	1,073.79	1/2	906.27	1/2	738.75	1/2	571.23		
3/4	3/4	1,900.50	3/4	1,739.42	3/4	1,572.57	3/4	1,405.34	3/4	1,237.82	3/4	1,070.30	3/4	902.78	3/4	735.26	3/4	567.74		
8	8	1,898.00	8	1,735.94	8	1,569.09	8	1,401.85	8	1,234.33	8	1,066.81	8	899.29	8	731.77	8	564.25		
1/4	1/4	1,895.51	1/4	1,732.47	1/4	1,565.62	1/4	1,398.36	1/4	1,230.84	1/4	1,063.32	1/4	895.80	1/4	728.28	1/4	560.76		
1/2	1/2	1,893.01	1/2	1,728.99	1/2	1,562.14	1/2	1,394.87	1/2	1,227.35	1/2	1,059.83	1/2	892.31	1/2	724.79	1/2	557.27		
3/4	3/4	1,890.08	3/4	1,725.51	3/4	1,558.67	3/4	1,391.38	3/4	1,223.86	3/4	1,056.34	3/4	888.82	3/4	721.30	3/4	553.78		
9	9	1,887.15	9	1,722.04	9	1,555.19	9	1,387.89	9	1,220.37	9	1,052.85	9	885.33	9	717.81	9	550.29		
1/4	1/4	1,884.21	1/4	1,718.56	1/4	1,551.72	1/4	1,384.40	1/4	1,216.88	1/4	1,049.36	1/4	881.84	1/4	714.32	1/4	546.80		
1/2	1/2	1,881.28	1/2	1,715.08	1/2	1,548.24	1/2	1,380.91	1/2	1,213.39	1/2	1,045.87	1/2	878.35	1/2	710.83	1/2	543.31		
3/4	3/4	1,877.97	3/4	1,711.61	3/4	1,544.76	3/4	1,377.42	3/4	1,209.90	3/4	1,042.38	3/4	874.86	3/4	707.34	3/4	539.82		
10	10	1,874.66	10	1,708.13	10	1,541.29	10	1,373.93	10	1,206.41	10	1,038.89	10	871.37	10	703.85	10	536.33		
1/4	1/4	1,871.34	1/4	1,704.66	1/4	1,537.81	1/4	1,370.44	1/4	1,202.92	1/4	1,035.40	1/4	867.88	1/4	700.36	1/4	532.84		
1/2	1/2	1,868.03	1/2	1,701.18	1/2	1,534.33	1/2	1,366.95	1/2	1,199.43	1/2	1,031.91	1/2	864.39	1/2	696.87	1/2	529.35		
3/4	3/4	1,864.55	3/4	1,697.71	3/4	1,530.86	3/4	1,363.46	3/4	1,195.94	3/4	1,028.42	3/4	860.90	3/4	693.38	3/4	525.86		
11	11	1,861.08	11	1,694.23	11	1,527.38	11	1,359.97	11	1,192.45	11	1,024.93	11	857.41	11	689.89	11	522.37		
1/4	1/4	1,857.60	1/4	1,690.76	1/4	1,523.91	1/4	1,356.48	1/4	1,188.96	1/4	1,021.44	1/4	853.92	1/4	686.40	1/4	518.88		
1/2	1/2	1,854.12	1/2	1,687.28	1/2	1,520.43	1/2	1,352.99	1/2	1,185.47	1/2	1,017.95	1/2	850.43	1/2	682.91	1/2	515.39		
3/4	3/4	1,850.65	3/4	1,683.80	3/4	1,516.95	3/4	1,349.50	3/4	1,181.98	3/4	1,014.46	3/4	846.94	3/4	679.42	3/4	511.90		

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "KIRBY 22400"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-00 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	508.41	0	340.89	0	173.37	0	13.22	0		0		0		0		0		0	
1/4	504.92	1/4	337.40	1/4	169.88	1/4	11.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	501.43	1/2	333.91	1/2	166.39	1/2	9.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	497.94	3/4	330.42	3/4	162.90	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	494.45	1	326.93	1	159.41	1		1		1		1		1		1		1	
1/4	490.96	1/4	323.44	1/4	155.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	487.47	1/2	319.95	1/2	152.43	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	483.98	3/4	316.46	3/4	148.94	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	480.49	2	312.97	2	145.45	2		2		2		2		2		2		2	
1/4	477.00	1/4	309.48	1/4	141.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	473.51	1/2	305.99	1/2	138.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	470.02	3/4	302.50	3/4	134.98	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	466.53	3	299.01	3	131.49	3		3		3		3		3		3		3	
1/4	463.04	1/4	295.52	1/4	128.00	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	459.55	1/2	292.03	1/2	124.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	456.06	3/4	288.54	3/4	121.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	452.57	4	285.05	4	117.53	4		4		4		4		4		4		4	
1/4	449.08	1/4	281.56	1/4	114.04	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	445.59	1/2	278.07	1/2	110.55	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442.10	3/4	274.58	3/4	107.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	438.61	5	271.09	5	103.57	5		5		5		5		5		5		5	
1/4	435.12	1/4	267.60	1/4	100.08	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	431.63	1/2	264.11	1/2	96.59	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	428.14	3/4	260.62	3/4	93.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	424.65	6	257.13	6	89.61	6		6		6		6		6		6		6	
1/4	421.16	1/4	253.64	1/4	86.12	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	417.67	1/2	250.15	1/2	82.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	414.18	3/4	246.66	3/4	79.14	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	410.69	7	243.17	7	75.65	7		7		7		7		7		7		7	
1/4	407.20	1/4	239.68	1/4	72.16	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	403.71	1/2	236.19	1/2	68.67	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	400.22	3/4	232.70	3/4	65.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	396.73	8	229.21	8	61.69	8		8		8		8		8		8		8	
1/4	393.24	1/4	225.72	1/4	58.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	389.75	1/2	222.23	1/2	54.71	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	386.26	3/4	218.74	3/4	51.22	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	382.77	9	215.25	9	47.73	9		9		9		9		9		9		9	
1/4	379.28	1/4	211.76	1/4	44.24	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	375.79	1/2	208.27	1/2	40.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	372.30	3/4	204.78	3/4	37.26	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	368.81	10	201.29	10	33.77	10		10		10		10		10		10		10	
1/4	365.32	1/4	197.80	1/4	30.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	361.83	1/2	194.31	1/2	26.79	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	358.34	3/4	190.82	3/4	23.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	354.85	11	187.33	11	19.81	11		11		11		11		11		11		11	
1/4	351.36	1/4	183.84	1/4	16.32	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	347.87	1/2	180.35	1/2	12.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	344.38	3/4	176.86	3/4	9.34	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

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



# BARGE "KIRBY 22400"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 3/4"

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	1,850.65	0	1,683.80	0	1,516.95	0	1,349.50	0	1,181.98	0	1,014.46	0	846.94	0	679.42		
1/4	1/4	1/4	1,847.17	1/4	1,680.33	1/4	1,513.48	1/4	1,346.01	1/4	1,178.49	1/4	1,010.97	1/4	843.45	1/4	675.93		
1/2	1/2	1/2	1,843.70	1/2	1,676.85	1/2	1,510.00	1/2	1,342.52	1/2	1,175.00	1/2	1,007.48	1/2	839.96	1/2	672.44		
3/4	3/4	3/4	1,840.22	3/4	1,673.37	3/4	1,506.52	3/4	1,339.03	3/4	1,171.51	3/4	1,003.99	3/4	836.47	3/4	668.95		
1	1	1	1,836.75	1	1,669.90	1	1,503.04	1	1,335.54	1	1,168.02	1	1,000.50	1	832.98	1	665.46		
1/4	1/4	1/4	1,833.27	1/4	1,666.42	1/4	1,499.56	1/4	1,332.05	1/4	1,164.53	1/4	997.01	1/4	829.49	1/4	661.97		
1/2	1/2	1/2	1,829.80	1/2	1,662.95	1/2	1,496.07	1/2	1,328.56	1/2	1,161.04	1/2	993.52	1/2	826.00	1/2	658.48		
3/4	3/4	3/4	1,826.32	3/4	1,659.47	3/4	1,492.59	3/4	1,325.07	3/4	1,157.55	3/4	990.03	3/4	822.51	3/4	654.99		
2	2	2	1,822.84	2	1,655.99	2	1,489.10	2	1,321.58	2	1,154.06	2	986.54	2	819.02	2	651.50		
1/4	1/4	1/4	1,819.37	1/4	1,652.52	1/4	1,485.61	1/4	1,318.09	1/4	1,150.57	1/4	983.05	1/4	815.53	1/4	648.01		
1/2	1/2	1,926.94	1,815.89	1/2	1,649.04	1/2	1,482.12	1/2	1,314.60	1/2	1,147.08	1/2	979.56	1/2	812.04	1/2	644.52		
3/4	3/4	1,926.73	1,812.41	3/4	1,645.56	3/4	1,478.63	3/4	1,311.11	3/4	1,143.59	3/4	976.07	3/4	808.55	3/4	641.03		
3	3	1,926.42	1,808.94	3	1,642.09	3	1,475.14	3	1,307.62	3	1,140.10	3	972.58	3	805.06	3	637.54		
1/4	1/4	1,926.10	1,805.46	1/4	1,638.61	1/4	1,471.65	1/4	1,304.13	1/4	1,136.61	1/4	969.09	1/4	801.57	1/4	634.05		
1/2	1/2	1,925.79	1,801.99	1/2	1,635.14	1/2	1,468.16	1/2	1,300.64	1/2	1,133.12	1/2	965.60	1/2	798.08	1/2	630.56		
3/4	3/4	1,925.47	1,798.51	3/4	1,631.66	3/4	1,464.67	3/4	1,297.15	3/4	1,129.63	3/4	962.11	3/4	794.59	3/4	627.07		
4	4	1,924.72	1,795.03	4	1,628.19	4	1,461.18	4	1,293.66	4	1,126.14	4	958.62	4	791.10	4	623.58		
1/4	1/4	1,923.97	1,791.56	1/4	1,624.71	1/4	1,457.69	1/4	1,290.17	1/4	1,122.65	1/4	955.13	1/4	787.61	1/4	620.09		
1/2	1/2	1,923.22	1,788.08	1/2	1,621.24	1/2	1,454.20	1/2	1,286.68	1/2	1,119.16	1/2	951.64	1/2	784.12	1/2	616.60		
3/4	3/4	1,922.47	1,784.60	3/4	1,617.76	3/4	1,450.71	3/4	1,283.19	3/4	1,115.67	3/4	948.15	3/4	780.63	3/4	613.11		
5	5	1,921.28	1,781.13	5	1,614.28	5	1,447.22	5	1,279.70	5	1,112.18	5	944.66	5	777.14	5	609.62		
1/4	1/4	1,920.10	1,777.65	1/4	1,610.81	1/4	1,443.73	1/4	1,276.21	1/4	1,108.69	1/4	941.17	1/4	773.65	1/4	606.13		
1/2	1/2	1,918.91	1,774.18	1/2	1,607.33	1/2	1,440.24	1/2	1,272.72	1/2	1,105.20	1/2	937.68	1/2	770.16	1/2	602.64		
3/4	3/4	1,917.72	1,770.70	3/4	1,603.85	3/4	1,436.75	3/4	1,269.23	3/4	1,101.71	3/4	934.19	3/4	766.67	3/4	599.15		
6	6	1,916.10	1,767.23	6	1,600.38	6	1,433.26	6	1,265.74	6	1,098.22	6	930.70	6	763.18	6	595.66		
1/4	1/4	1,914.48	1,763.75	1/4	1,596.90	1/4	1,429.77	1/4	1,262.25	1/4	1,094.73	1/4	927.21	1/4	759.69	1/4	592.17		
1/2	1/2	1,912.85	1,760.28	1/2	1,593.43	1/2	1,426.28	1/2	1,258.76	1/2	1,091.24	1/2	923.72	1/2	756.20	1/2	588.68		
3/4	3/4	1,911.23	1,756.80	3/4	1,589.95	3/4	1,422.79	3/4	1,255.27	3/4	1,087.75	3/4	920.23	3/4	752.71	3/4	585.19		
7	7	1,909.17	1,753.32	7	1,586.47	7	1,419.30	7	1,251.78	7	1,084.26	7	916.74	7	749.22	7	581.70		
1/4	1/4	1,907.11	1,749.85	1/4	1,583.00	1/4	1,415.81	1/4	1,248.29	1/4	1,080.77	1/4	913.25	1/4	745.73	1/4	578.21		
1/2	1/2	1,905.05	1,746.37	1/2	1,579.52	1/2	1,412.32	1/2	1,244.80	1/2	1,077.28	1/2	909.76	1/2	742.24	1/2	574.72		
3/4	3/4	1,902.99	1,742.89	3/4	1,576.04	3/4	1,408.83	3/4	1,241.31	3/4	1,073.79	3/4	906.27	3/4	738.75	3/4	571.23		
8	8	1,900.50	1,739.42	8	1,572.57	8	1,405.34	8	1,237.82	8	1,070.30	8	902.78	8	735.26	8	567.74		
1/4	1/4	1,898.00	1,735.94	1/4	1,569.09	1/4	1,401.85	1/4	1,234.33	1/4	1,066.81	1/4	899.29	1/4	731.77	1/4	564.25		
1/2	1/2	1,895.51	1,732.47	1/2	1,565.62	1/2	1,398.36	1/2	1,230.84	1/2	1,063.32	1/2	895.80	1/2	728.28	1/2	560.76		
3/4	3/4	1,893.01	1,728.99	3/4	1,562.14	3/4	1,394.87	3/4	1,227.35	3/4	1,059.83	3/4	892.31	3/4	724.79	3/4	557.27		
9	9	1,890.08	1,725.51	9	1,558.67	9	1,391.38	9	1,223.86	9	1,056.34	9	888.82	9	721.30	9	553.78		
1/4	1/4	1,887.15	1,722.04	1/4	1,555.19	1/4	1,387.89	1/4	1,220.37	1/4	1,052.85	1/4	885.33	1/4	717.81	1/4	550.29		
1/2	1/2	1,884.21	1,718.56	1/2	1,551.72	1/2	1,384.40	1/2	1,216.88	1/2	1,049.36	1/2	881.84	1/2	714.32	1/2	546.80		
3/4	3/4	1,881.28	1,715.08	3/4	1,548.24	3/4	1,380.91	3/4	1,213.39	3/4	1,045.87	3/4	878.35	3/4	710.83	3/4	543.31		
10	10	1,877.97	1,711.61	10	1,544.76	10	1,377.42	10	1,209.90	10	1,042.38	10	874.86	10	707.34	10	539.82		
1/4	1/4	1,874.66	1,708.13	1/4	1,541.29	1/4	1,373.93	1/4	1,206.41	1/4	1,038.89	1/4	871.37	1/4	703.85	1/4	536.33		
1/2	1/2	1,871.34	1,704.66	1/2	1,537.81	1/2	1,370.44	1/2	1,202.92	1/2	1,035.40	1/2	867.88	1/2	700.36	1/2	532.84		
3/4	3/4	1,868.03	1,701.18	3/4	1,534.33	3/4	1,366.95	3/4	1,199.43	3/4	1,031.91	3/4	864.39	3/4	696.87	3/4	529.35		
11	11	1,864.55	1,697.71	11	1,530.86	11	1,363.46	11	1,195.94	11	1,028.42	11	860.90	11	693.38	11	525.86		
1/4	1/4	1,861.08	1,694.23	1/4	1,527.38	1/4	1,359.97	1/4	1,192.45	1/4	1,024.93	1/4	857.41	1/4	689.89	1/4	522.37		
1/2	1/2	1,857.60	1,690.76	1/2	1,523.91	1/2	1,356.48	1/2	1,188.96	1/2	1,021.44	1/2	853.92	1/2	686.40	1/2	518.88		
3/4	3/4	1,854.12	1,687.28	3/4	1,520.43	3/4	1,352.99	3/4	1,185.47	3/4	1,017.95	3/4	850.43	3/4	682.91	3/4	515.39		

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 3" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-00 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	511.90	0	344.38	0	176.86	0	15.21	0		0		0		0		0		0	
1/4	508.41	1/4	340.89	1/4	173.37	1/4	13.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	504.92	1/2	337.40	1/2	169.88	1/2	11.22	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	501.43	3/4	333.91	3/4	166.39	3/4	9.23	3/4		3/4		3/4		3/4		3/4		3/4	
1	497.94	1	330.42	1	162.90	1		1		1		1		1		1		1	
1/4	494.45	1/4	326.93	1/4	159.41	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	490.96	1/2	323.44	1/2	155.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	487.47	3/4	319.95	3/4	152.43	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	483.98	2	316.46	2	148.94	2		2		2		2		2		2		2	
1/4	480.49	1/4	312.97	1/4	145.45	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	477.00	1/2	309.48	1/2	141.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	473.51	3/4	305.99	3/4	138.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	470.02	3	302.50	3	134.98	3		3		3		3		3		3		3	
1/4	466.53	1/4	299.01	1/4	131.49	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	463.04	1/2	295.52	1/2	128.00	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	459.55	3/4	292.03	3/4	124.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	456.06	4	288.54	4	121.02	4		4		4		4		4		4		4	
1/4	452.57	1/4	285.05	1/4	117.53	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	449.08	1/2	281.56	1/2	114.04	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	445.59	3/4	278.07	3/4	110.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	442.10	5	274.58	5	107.06	5		5		5		5		5		5		5	
1/4	438.61	1/4	271.09	1/4	103.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	435.12	1/2	267.60	1/2	100.08	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	431.63	3/4	264.11	3/4	96.59	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	428.14	6	260.62	6	93.10	6		6		6		6		6		6		6	
1/4	424.65	1/4	257.13	1/4	89.61	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	421.16	1/2	253.64	1/2	86.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.67	3/4	250.15	3/4	82.63	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	414.18	7	246.66	7	79.14	7		7		7		7		7		7		7	
1/4	410.69	1/4	243.17	1/4	75.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	407.20	1/2	239.68	1/2	72.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.71	3/4	236.19	3/4	68.67	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	400.22	8	232.70	8	65.18	8		8		8		8		8		8		8	
1/4	396.73	1/4	229.21	1/4	61.69	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.24	1/2	225.72	1/2	58.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.75	3/4	222.23	3/4	54.71	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	386.26	9	218.74	9	51.22	9		9		9		9		9		9		9	
1/4	382.77	1/4	215.25	1/4	47.73	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.28	1/2	211.76	1/2	44.24	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.79	3/4	208.27	3/4	40.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	372.30	10	204.78	10	37.26	10		10		10		10		10		10		10	
1/4	368.81	1/4	201.29	1/4	33.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.32	1/2	197.80	1/2	30.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361.83	3/4	194.31	3/4	26.79	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	358.34	11	190.82	11	23.30	11		11		11		11		11		11		11	
1/4	354.85	1/4	187.33	1/4	19.81	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.36	1/2	183.84	1/2	16.32	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	347.87	3/4	180.35	3/4	12.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 08/2019

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# BARGE "KIRBY 22400"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,835.04	0	1,669.92	0	1,504.80	0	1,339.09	0	1,173.30	0	1,007.51	0	841.72	0	675.92		
1/4	1/4	1/4	1,831.60	1/4	1,666.48	1/4	1,501.36	1/4	1,335.64	1/4	1,169.85	1/4	1,004.06	1/4	838.26	1/4	672.47		
1/2	1/2	1/2	1,828.16	1/2	1,663.04	1/2	1,497.92	1/2	1,332.19	1/2	1,166.40	1/2	1,000.60	1/2	834.81	1/2	669.01		
3/4	3/4	3/4	1,824.72	3/4	1,659.60	3/4	1,494.48	3/4	1,328.73	3/4	1,162.94	3/4	997.14	3/4	831.35	3/4	665.56		
1	1	1	1,821.28	1	1,656.16	1	1,491.04	1	1,325.28	1	1,159.49	1	993.69	1	827.90	1	662.11		
1/4	1/4	1/4	1,817.84	1/4	1,652.72	1/4	1,487.59	1/4	1,321.82	1/4	1,156.03	1/4	990.24	1/4	824.44	1/4	658.65		
1/2	1/2	1/2	1,814.40	1/2	1,649.28	1/2	1,484.15	1/2	1,318.37	1/2	1,152.58	1/2	986.78	1/2	820.99	1/2	655.20		
3/4	3/4	3/4	1,810.96	3/4	1,645.84	3/4	1,480.70	3/4	1,314.92	3/4	1,149.13	3/4	983.33	3/4	817.53	3/4	651.74		
2	2	2	1,807.52	2	1,642.40	2	1,477.25	2	1,311.46	2	1,145.67	2	979.88	2	814.08	2	648.29		
1/4	1/4	1/4	1,804.08	1/4	1,638.96	1/4	1,473.80	1/4	1,308.01	1/4	1,142.22	1/4	976.42	1/4	810.63	1/4	644.84		
1/2	1/2	1/2	1,800.64	1/2	1,635.52	1/2	1,470.34	1/2	1,304.55	1/2	1,138.76	1/2	972.97	1/2	807.17	1/2	641.38		
3/4	3/4	3/4	1,907.10	3/4	1,797.20	3/4	1,632.08	3/4	1,466.89	3/4	1,301.10	3/4	1,135.31	3/4	969.51	3/4	803.72	3/4	637.93
3	3	3	1,906.89	3	1,793.76	3	1,628.64	3	1,463.44	3	1,297.65	3	1,131.85	3	966.06	3	800.27	3	634.48
1/4	1/4	1/4	1,906.58	1/4	1,790.32	1/4	1,625.20	1/4	1,459.98	1/4	1,294.19	1/4	1,128.40	1/4	962.60	1/4	796.81	1/4	631.02
1/2	1/2	1/2	1,906.27	1/2	1,786.88	1/2	1,621.76	1/2	1,456.53	1/2	1,290.74	1/2	1,124.95	1/2	959.15	1/2	793.36	1/2	627.57
3/4	3/4	3/4	1,905.96	3/4	1,783.44	3/4	1,618.32	3/4	1,453.07	3/4	1,287.28	3/4	1,121.49	3/4	955.69	3/4	789.90	3/4	624.11
4	4	4	1,905.65	4	1,780.00	4	1,614.88	4	1,449.62	4	1,283.83	4	1,118.04	4	952.24	4	786.45	4	620.66
1/4	1/4	1/4	1,904.91	1/4	1,776.56	1/4	1,611.44	1/4	1,446.17	1/4	1,280.38	1/4	1,114.59	1/4	948.79	1/4	783.00	1/4	617.20
1/2	1/2	1/2	1,904.16	1/2	1,773.12	1/2	1,608.00	1/2	1,442.71	1/2	1,276.92	1/2	1,111.13	1/2	945.33	1/2	779.54	1/2	613.75
3/4	3/4	3/4	1,903.42	3/4	1,769.68	3/4	1,604.56	3/4	1,439.26	3/4	1,273.47	3/4	1,107.68	3/4	941.88	3/4	776.09	3/4	610.29
5	5	5	1,902.67	5	1,766.24	5	1,601.12	5	1,435.81	5	1,270.01	5	1,104.22	5	938.43	5	772.64	5	606.84
1/4	1/4	1/4	1,901.50	1/4	1,762.80	1/4	1,597.68	1/4	1,432.35	1/4	1,266.56	1/4	1,100.77	1/4	934.97	1/4	769.18	1/4	603.39
1/2	1/2	1/2	1,900.33	1/2	1,759.36	1/2	1,594.24	1/2	1,428.90	1/2	1,263.11	1/2	1,097.31	1/2	931.52	1/2	765.73	1/2	599.93
3/4	3/4	3/4	1,899.15	3/4	1,755.92	3/4	1,590.80	3/4	1,425.44	3/4	1,259.65	3/4	1,093.86	3/4	928.06	3/4	762.27	3/4	596.48
6	6	6	1,897.98	6	1,752.48	6	1,587.36	6	1,421.99	6	1,256.20	6	1,090.40	6	924.61	6	758.82	6	593.03
1/4	1/4	1/4	1,896.37	1/4	1,749.04	1/4	1,583.92	1/4	1,418.53	1/4	1,252.74	1/4	1,086.95	1/4	921.16	1/4	755.36	1/4	589.57
1/2	1/2	1/2	1,894.77	1/2	1,745.60	1/2	1,580.48	1/2	1,415.08	1/2	1,249.29	1/2	1,083.50	1/2	917.70	1/2	751.91	1/2	586.12
3/4	3/4	3/4	1,893.16	3/4	1,742.16	3/4	1,577.04	3/4	1,411.63	3/4	1,245.84	3/4	1,080.04	3/4	914.25	3/4	748.45	3/4	582.66
7	7	7	1,891.55	7	1,738.72	7	1,573.60	7	1,408.17	7	1,242.38	7	1,076.59	7	910.80	7	745.00	7	579.21
1/4	1/4	1/4	1,889.51	1/4	1,735.28	1/4	1,570.16	1/4	1,404.72	1/4	1,238.93	1/4	1,073.14	1/4	907.34	1/4	741.55	1/4	575.76
1/2	1/2	1/2	1,887.48	1/2	1,731.84	1/2	1,566.72	1/2	1,401.26	1/2	1,235.47	1/2	1,069.68	1/2	903.89	1/2	738.09	1/2	572.30
3/4	3/4	3/4	1,885.44	3/4	1,728.40	3/4	1,563.28	3/4	1,397.81	3/4	1,232.02	3/4	1,066.23	3/4	900.43	3/4	734.64	3/4	568.85
8	8	8	1,883.40	8	1,724.96	8	1,559.84	8	1,394.36	8	1,228.57	8	1,062.77	8	896.98	8	731.19	8	565.40
1/4	1/4	1/4	1,880.93	1/4	1,721.52	1/4	1,556.40	1/4	1,390.90	1/4	1,225.11	1/4	1,059.32	1/4	893.52	1/4	727.73	1/4	561.94
1/2	1/2	1/2	1,878.46	1/2	1,718.08	1/2	1,552.96	1/2	1,387.45	1/2	1,221.66	1/2	1,055.87	1/2	890.07	1/2	724.28	1/2	558.49
3/4	3/4	3/4	1,875.99	3/4	1,714.64	3/4	1,549.52	3/4	1,383.99	3/4	1,218.20	3/4	1,052.41	3/4	886.61	3/4	720.82	3/4	555.03
9	9	9	1,873.52	9	1,711.20	9	1,546.08	9	1,380.54	9	1,214.75	9	1,048.96	9	883.16	9	717.37	9	551.58
1/4	1/4	1/4	1,870.62	1/4	1,707.76	1/4	1,542.64	1/4	1,377.09	1/4	1,211.30	1/4	1,045.51	1/4	879.71	1/4	713.92	1/4	548.12
1/2	1/2	1/2	1,867.72	1/2	1,704.32	1/2	1,539.20	1/2	1,373.63	1/2	1,207.84	1/2	1,042.05	1/2	876.25	1/2	710.46	1/2	544.67
3/4	3/4	3/4	1,864.82	3/4	1,700.88	3/4	1,535.76	3/4	1,370.18	3/4	1,204.39	3/4	1,038.60	3/4	872.80	3/4	707.01	3/4	541.21
10	10	10	1,861.92	10	1,697.44	10	1,532.32	10	1,366.73	10	1,200.93	10	1,035.14	10	869.35	10	703.56	10	537.76
1/4	1/4	1/4	1,858.64	1/4	1,694.00	1/4	1,528.88	1/4	1,363.27	1/4	1,197.48	1/4	1,031.69	1/4	865.89	1/4	700.10	1/4	534.31
1/2	1/2	1/2	1,855.36	1/2	1,690.56	1/2	1,525.44	1/2	1,359.82	1/2	1,194.03	1/2	1,028.23	1/2	862.44	1/2	696.65	1/2	530.85
3/4	3/4	3/4	1,852.08	3/4	1,687.12	3/4	1,522.00	3/4	1,356.36	3/4	1,190.57	3/4	1,024.78	3/4	858.98	3/4	693.19	3/4	527.40
11	11	11	1,848.80	11	1,683.68	11	1,518.56	11	1,352.91	11	1,187.12	11	1,021.32	11	855.53	11	689.74	11	523.95
1/4	1/4	1/4	1,845.36	1/4	1,680.24	1/4	1,515.12	1/4	1,349.46	1/4	1,183.66	1/4	1,017.87	1/4	852.08	1/4	686.28	1/4	520.49
1/2	1/2	1/2	1,841.92	1/2	1,676.80	1/2	1,511.68	1/2	1,346.00	1/2	1,180.21	1/2	1,014.42	1/2	848.62	1/2	682.83	1/2	517.04
3/4	3/4	3/4	1,838.48	3/4	1,673.36	3/4	1,508.24	3/4	1,342.55	3/4	1,176.76	3/4	1,010.96	3/4	845.17	3/4	679.37	3/4	513.58

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	510.13	0	344.34	0	178.55	0	17.03	0		0		0		0		0		0	
1/4	506.68	1/4	340.88	1/4	175.09	1/4	15.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	503.22	1/2	337.43	1/2	171.64	1/2	13.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	499.77	3/4	333.97	3/4	168.18	3/4	11.10	3/4		3/4		3/4		3/4		3/4		3/4	
1	496.32	1	330.52	1	164.73	1	9.13	1		1		1		1		1		1	
1/4	492.86	1/4	327.07	1/4	161.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489.41	1/2	323.61	1/2	157.82	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.95	3/4	320.16	3/4	154.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	482.50	2	316.71	2	150.92	2		2		2		2		2		2		2	
1/4	479.04	1/4	313.25	1/4	147.46	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.59	1/2	309.80	1/2	144.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	472.13	3/4	306.34	3/4	140.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	468.68	3	302.89	3	137.10	3		3		3		3		3		3		3	
1/4	465.23	1/4	299.44	1/4	133.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.77	1/2	295.98	1/2	130.19	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.32	3/4	292.53	3/4	126.74	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	454.87	4	289.08	4	123.29	4		4		4		4		4		4		4	
1/4	451.41	1/4	285.62	1/4	119.83	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.96	1/2	282.17	1/2	116.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.50	3/4	278.71	3/4	112.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	441.05	5	275.26	5	109.47	5		5		5		5		5		5		5	
1/4	437.60	1/4	271.81	1/4	106.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.14	1/2	268.35	1/2	102.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.69	3/4	264.90	3/4	99.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	427.24	6	261.45	6	95.65	6		6		6		6		6		6		6	
1/4	423.78	1/4	257.99	1/4	92.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.33	1/2	254.54	1/2	88.74	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	416.87	3/4	251.08	3/4	85.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	413.42	7	247.63	7	81.84	7		7		7		7		7		7		7	
1/4	409.96	1/4	244.17	1/4	78.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.51	1/2	240.72	1/2	74.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.05	3/4	237.26	3/4	71.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	399.60	8	233.81	8	68.02	8		8		8		8		8		8		8	
1/4	396.15	1/4	230.36	1/4	64.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	392.69	1/2	226.90	1/2	61.11	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.24	3/4	223.45	3/4	57.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	385.79	9	220.00	9	54.21	9		9		9		9		9		9		9	
1/4	382.33	1/4	216.54	1/4	50.75	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	378.88	1/2	213.09	1/2	47.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.42	3/4	209.63	3/4	43.84	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	371.97	10	206.18	10	40.39	10		10		10		10		10		10		10	
1/4	368.52	1/4	202.73	1/4	37.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.06	1/2	199.27	1/2	33.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361.61	3/4	195.82	3/4	30.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	358.16	11	192.37	11	27.55	11		11		11		11		11		11		11	
1/4	354.70	1/4	188.91	1/4	24.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.25	1/2	185.46	1/2	22.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	347.79	3/4	182.00	3/4	19.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 3/4"

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	1,831.60	0	1,666.48	0	1,501.36	0	1,335.64	0	1,169.85	0	1,004.06	0	838.26	0	672.47		
1/4	1/4	1/4	1,828.16	1/4	1,663.04	1/4	1,497.92	1/4	1,332.19	1/4	1,166.40	1/4	1,000.60	1/4	834.81	1/4	669.01		
1/2	1/2	1/2	1,824.72	1/2	1,659.60	1/2	1,494.48	1/2	1,328.73	1/2	1,162.94	1/2	997.14	1/2	831.35	1/2	665.56		
3/4	3/4	3/4	1,821.28	3/4	1,656.16	3/4	1,491.04	3/4	1,325.28	3/4	1,159.49	3/4	993.69	3/4	827.90	3/4	662.11		
1	1	1	1,817.84	1	1,652.72	1	1,487.59	1	1,321.82	1	1,156.03	1	990.24	1	824.44	1	658.65		
1/4	1/4	1/4	1,814.40	1/4	1,649.28	1/4	1,484.15	1/4	1,318.37	1/4	1,152.58	1/4	986.78	1/4	820.99	1/4	655.20		
1/2	1/2	1/2	1,810.96	1/2	1,645.84	1/2	1,480.70	1/2	1,314.92	1/2	1,149.13	1/2	983.33	1/2	817.53	1/2	651.74		
3/4	3/4	3/4	1,807.52	3/4	1,642.40	3/4	1,477.25	3/4	1,311.46	3/4	1,145.67	3/4	979.88	3/4	814.08	3/4	648.29		
2	2	2	1,804.08	2	1,638.96	2	1,473.80	2	1,308.01	2	1,142.22	2	976.42	2	810.63	2	644.84		
1/4	1/4	1/4	1,800.64	1/4	1,635.52	1/4	1,470.34	1/4	1,304.55	1/4	1,138.76	1/4	972.97	1/4	807.17	1/4	641.38		
1/2	1/2	1,907.10	1,797.20	1,632.08	1,466.89	1,301.10	1,135.31	969.51	803.72	637.93									
3/4	3/4	1,906.89	1,793.76	1,628.64	1,463.44	1,297.65	1,131.85	966.06	800.27	634.48									
3	3	3	1,906.58	3	1,790.32	3	1,625.20	3	1,459.98	3	1,294.19	3	962.60	3	796.81	3	631.02		
1/4	1/4	1,906.27	1,786.88	1,621.76	1,456.53	1,290.74	1,128.95	959.15	793.36	627.57									
1/2	1/2	1,905.96	1,783.44	1,618.32	1,453.07	1,287.28	1,121.49	955.69	789.90	624.11									
3/4	3/4	1,905.65	1,780.00	1,614.88	1,449.62	1,283.83	1,118.04	952.24	786.45	620.66									
4	4	4	1,904.91	4	1,776.56	4	1,611.44	4	1,446.17	4	1,280.38	4	948.79	4	783.00	4	617.20		
1/4	1/4	1,904.16	1,773.12	1,608.00	1,442.71	1,276.92	1,114.13	945.33	779.54	613.75									
1/2	1/2	1,903.42	1,769.68	1,604.56	1,439.26	1,273.47	1,107.68	941.88	776.09	610.29									
3/4	3/4	1,902.67	1,766.24	1,601.12	1,435.81	1,270.01	1,104.22	938.43	772.64	606.84									
5	5	5	1,901.50	5	1,762.80	5	1,597.68	5	1,432.35	5	1,266.56	5	934.97	5	769.18	5	603.39		
1/4	1/4	1,900.33	1,759.36	1,594.24	1,428.90	1,263.11	1,097.31	931.52	765.73	599.93									
1/2	1/2	1,899.15	1,755.92	1,590.80	1,425.44	1,259.65	1,093.86	928.06	762.27	596.48									
3/4	3/4	1,897.98	1,752.48	1,587.36	1,421.99	1,256.20	1,090.40	924.61	758.82	593.03									
6	6	6	1,896.37	6	1,749.04	6	1,583.92	6	1,418.53	6	1,252.74	6	921.16	6	755.36	6	589.57		
1/4	1/4	1,894.77	1,745.60	1,580.48	1,415.08	1,249.29	1,083.50	917.70	751.91	586.12									
1/2	1/2	1,893.16	1,742.16	1,577.04	1,411.63	1,245.84	1,080.04	914.25	748.45	582.66									
3/4	3/4	1,891.55	1,738.72	1,573.60	1,408.17	1,242.38	1,076.59	910.80	745.00	579.21									
7	7	7	1,889.51	7	1,735.28	7	1,570.16	7	1,404.72	7	1,238.93	7	907.34	7	741.55	7	575.76		
1/4	1/4	1,887.48	1,731.84	1,566.72	1,401.26	1,235.47	1,069.68	903.89	738.09	572.30									
1/2	1/2	1,885.44	1,728.40	1,563.28	1,397.81	1,232.02	1,066.23	900.43	734.64	568.85									
3/4	3/4	1,883.40	1,724.96	1,559.84	1,394.36	1,228.57	1,062.77	896.98	731.19	565.40									
8	8	8	1,880.93	8	1,721.52	8	1,556.40	8	1,390.90	8	1,225.11	8	903.52	8	727.73	8	561.94		
1/4	1/4	1,878.46	1,718.08	1,552.96	1,387.45	1,221.66	1,055.87	899.07	724.28	558.49									
1/2	1/2	1,875.99	1,714.64	1,549.52	1,383.99	1,218.20	1,052.41	886.61	720.82	555.03									
3/4	3/4	1,873.52	1,711.20	1,546.08	1,380.54	1,214.75	1,048.96	883.16	717.37	551.58									
9	9	9	1,870.62	9	1,707.76	9	1,542.64	9	1,377.09	9	1,211.30	9	879.71	9	713.92	9	548.12		
1/4	1/4	1,867.72	1,704.32	1,539.20	1,373.63	1,207.84	1,042.05	876.25	710.46	544.67									
1/2	1/2	1,864.82	1,700.88	1,535.76	1,370.18	1,204.39	1,038.60	872.80	707.01	541.21									
3/4	3/4	1,861.92	1,697.44	1,532.32	1,366.73	1,200.93	1,035.14	869.35	703.56	537.76									
10	10	10	1,858.64	10	1,694.00	10	1,528.88	10	1,363.27	10	1,197.48	10	865.89	10	700.10	10	534.31		
1/4	1/4	1,855.36	1,690.56	1,525.44	1,359.82	1,194.03	1,028.23	862.44	696.65	530.85									
1/2	1/2	1,852.08	1,687.12	1,522.00	1,356.36	1,190.57	1,024.78	858.98	693.19	527.40									
3/4	3/4	1,848.80	1,683.68	1,518.56	1,352.91	1,187.12	1,021.32	855.53	689.74	523.95									
11	11	11	1,845.36	11	1,680.24	11	1,515.12	11	1,349.46	11	1,183.66	11	852.08	11	686.28	11	520.49		
1/4	1/4	1,841.92	1,676.80	1,511.68	1,346.00	1,180.21	1,014.42	848.62	682.83	517.04									
1/2	1/2	1,838.48	1,673.36	1,508.24	1,342.55	1,176.76	1,010.96	845.17	679.37	513.58									
3/4	3/4	1,835.04	1,669.92	1,504.80	1,339.09	1,173.30	1,007.51	841.72	675.92	510.13									

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

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





# BARGE "KIRBY 22400"

**2 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-00 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	506.68	0	340.88	0	175.09	0	15.05	0		0		0		0		0		0	
1/4	503.22	1/4	337.43	1/4	171.64	1/4	13.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	499.77	1/2	333.97	1/2	168.18	1/2	11.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	496.32	3/4	330.52	3/4	164.73	3/4	9.13	3/4		3/4		3/4		3/4		3/4		3/4	
1	492.86	1	327.07	1	161.28	1		1		1		1		1		1		1	
1/4	489.41	1/4	323.61	1/4	157.82	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	485.95	1/2	320.16	1/2	154.37	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	482.50	3/4	316.71	3/4	150.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	479.04	2	313.25	2	147.46	2		2		2		2		2		2		2	
1/4	475.59	1/4	309.80	1/4	144.01	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	472.13	1/2	306.34	1/2	140.55	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	468.68	3/4	302.89	3/4	137.10	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	465.23	3	299.44	3	133.65	3		3		3		3		3		3		3	
1/4	461.77	1/4	295.98	1/4	130.19	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	458.32	1/2	292.53	1/2	126.74	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	454.87	3/4	289.08	3/4	123.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	451.41	4	285.62	4	119.83	4		4		4		4		4		4		4	
1/4	447.96	1/4	282.17	1/4	116.38	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	444.50	1/2	278.71	1/2	112.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	441.05	3/4	275.26	3/4	109.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	437.60	5	271.81	5	106.01	5		5		5		5		5		5		5	
1/4	434.14	1/4	268.35	1/4	102.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430.69	1/2	264.90	1/2	99.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	427.24	3/4	261.45	3/4	95.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	423.78	6	257.99	6	92.20	6		6		6		6		6		6		6	
1/4	420.33	1/4	254.54	1/4	88.74	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	416.87	1/2	251.08	1/2	85.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	413.42	3/4	247.63	3/4	81.84	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	409.96	7	244.17	7	78.38	7		7		7		7		7		7		7	
1/4	406.51	1/4	240.72	1/4	74.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	403.05	1/2	237.26	1/2	71.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	399.60	3/4	233.81	3/4	68.02	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	396.15	8	230.36	8	64.57	8		8		8		8		8		8		8	
1/4	392.69	1/4	226.90	1/4	61.11	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	389.24	1/2	223.45	1/2	57.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	385.79	3/4	220.00	3/4	54.21	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	382.33	9	216.54	9	50.75	9		9		9		9		9		9		9	
1/4	378.88	1/4	213.09	1/4	47.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	375.42	1/2	209.63	1/2	43.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	371.97	3/4	206.18	3/4	40.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	368.52	10	202.73	10	37.18	10		10		10		10		10		10		10	
1/4	365.06	1/4	199.27	1/4	33.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	361.61	1/2	195.82	1/2	30.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	358.16	3/4	192.37	3/4	27.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	354.70	11	188.91	11	24.92	11		11		11		11		11		11		11	
1/4	351.25	1/4	185.46	1/4	22.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	347.79	1/2	182.00	1/2	19.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	344.34	3/4	178.55	3/4	17.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	1,835.65	0	1,670.25	0	1,504.84	0	1,339.09	0	1,173.30	0	1,007.51	0	841.72	0	675.92
1/4	1/4	1/4	1/4	1/4	1,832.21	1/4	1,666.80	1/4	1,501.39	1/4	1,335.64	1/4	1,169.85	1/4	1,004.06	1/4	838.27	1/4	672.47
1/2	1/2	1/2	1/2	1/2	1,828.76	1/2	1,663.36	1/2	1,497.95	1/2	1,332.19	1/2	1,166.40	1/2	1,000.60	1/2	834.81	1/2	669.02
3/4	3/4	3/4	3/4	3/4	1,825.32	3/4	1,659.91	3/4	1,494.50	3/4	1,328.73	3/4	1,162.94	3/4	997.15	3/4	831.36	3/4	665.56
1	1	1	1	1	1,821.87	1	1,656.46	1	1,491.05	1	1,325.28	1	1,159.49	1	993.69	1	827.90	1	662.11
1/4	1/4	1/4	1/4	1/4	1,818.43	1/4	1,653.02	1/4	1,487.60	1/4	1,321.83	1/4	1,156.04	1/4	990.24	1/4	824.45	1/4	658.66
1/2	1/2	1/2	1/2	1/2	1,814.98	1/2	1,649.57	1/2	1,484.15	1/2	1,318.37	1/2	1,152.58	1/2	986.79	1/2	820.99	1/2	655.20
3/4	3/4	3/4	3/4	3/4	1,811.54	3/4	1,646.13	3/4	1,480.70	3/4	1,314.92	3/4	1,149.13	3/4	983.33	3/4	817.54	3/4	651.75
2	2	2	2	2	1,808.09	2	1,642.68	2	1,477.25	2	1,311.46	2	1,145.67	2	979.88	2	814.08	2	648.29
1/4	1/4	1/4	1/4	1/4	1,804.64	1/4	1,639.23	1/4	1,473.80	1/4	1,308.01	1/4	1,142.22	1/4	976.43	1/4	810.63	1/4	644.84
1/2	1/2	1/2	1/2	1/2	1,801.20	1/2	1,635.79	1/2	1,470.35	1/2	1,304.56	1/2	1,138.76	1/2	972.97	1/2	807.18	1/2	641.39
3/4	3/4	3/4	3/4	3/4	1,907.74	3/4	1,797.75	3/4	1,632.34	3/4	1,466.89	3/4	1,301.10	3/4	1,135.31	3/4	969.52	3/4	637.93
3	3	3	3	3	1,907.54	3	1,794.30	3	1,628.89	3	1,463.44	3	1,297.65	3	1,131.85	3	966.06	3	634.48
1/4	1/4	1/4	1/4	1/4	1,907.23	1/4	1,790.86	1/4	1,625.45	1/4	1,459.99	1/4	1,294.20	1/4	1,128.40	1/4	962.61	1/4	631.03
1/2	1/2	1/2	1/2	1/2	1,906.92	1/2	1,787.41	1/2	1,622.00	1/2	1,456.53	1/2	1,290.74	1/2	1,124.95	1/2	959.15	1/2	627.57
3/4	3/4	3/4	3/4	3/4	1,906.60	3/4	1,783.97	3/4	1,618.56	3/4	1,453.08	3/4	1,287.29	3/4	1,121.49	3/4	955.70	3/4	624.12
4	4	4	4	4	1,906.29	4	1,780.52	4	1,615.11	4	1,449.62	4	1,283.83	4	1,118.04	4	952.24	4	620.66
1/4	1/4	1/4	1/4	1/4	1,905.55	1/4	1,777.07	1/4	1,611.67	1/4	1,446.17	1/4	1,280.38	1/4	1,114.59	1/4	948.79	1/4	617.21
1/2	1/2	1/2	1/2	1/2	1,904.80	1/2	1,773.63	1/2	1,608.22	1/2	1,442.72	1/2	1,276.92	1/2	1,111.13	1/2	945.34	1/2	613.75
3/4	3/4	3/4	3/4	3/4	1,904.06	3/4	1,770.18	3/4	1,604.78	3/4	1,439.26	3/4	1,273.47	3/4	1,107.68	3/4	941.88	3/4	610.30
5	5	5	5	5	1,903.31	5	1,766.73	5	1,601.33	5	1,435.81	5	1,270.01	5	1,104.22	5	938.43	5	606.84
1/4	1/4	1/4	1/4	1/4	1,902.14	1/4	1,763.29	1/4	1,597.88	1/4	1,432.36	1/4	1,266.56	1/4	1,100.77	1/4	934.98	1/4	603.39
1/2	1/2	1/2	1/2	1/2	1,900.97	1/2	1,759.84	1/2	1,594.44	1/2	1,428.90	1/2	1,263.11	1/2	1,097.31	1/2	931.52	1/2	599.94
3/4	3/4	3/4	3/4	3/4	1,899.79	3/4	1,756.40	3/4	1,590.99	3/4	1,425.45	3/4	1,259.65	3/4	1,093.86	3/4	928.07	3/4	596.48
6	6	6	6	6	1,898.62	6	1,752.95	6	1,587.54	6	1,421.99	6	1,256.20	6	1,090.40	6	924.61	6	593.03
1/4	1/4	1/4	1/4	1/4	1,897.01	1/4	1,749.51	1/4	1,584.10	1/4	1,418.54	1/4	1,252.75	1/4	1,086.95	1/4	921.16	1/4	589.58
1/2	1/2	1/2	1/2	1/2	1,895.41	1/2	1,746.06	1/2	1,580.65	1/2	1,415.08	1/2	1,249.29	1/2	1,083.50	1/2	917.71	1/2	586.12
3/4	3/4	3/4	3/4	3/4	1,893.80	3/4	1,742.62	3/4	1,577.21	3/4	1,411.63	3/4	1,245.84	3/4	1,080.04	3/4	914.25	3/4	582.67
7	7	7	7	7	1,892.19	7	1,739.17	7	1,573.76	7	1,408.17	7	1,242.38	7	1,076.59	7	910.80	7	579.21
1/4	1/4	1/4	1/4	1/4	1,890.15	1/4	1,735.72	1/4	1,570.31	1/4	1,404.72	1/4	1,238.43	1/4	1,073.14	1/4	907.35	1/4	575.76
1/2	1/2	1/2	1/2	1/2	1,888.12	1/2	1,732.28	1/2	1,566.87	1/2	1,401.27	1/2	1,234.48	1/2	1,069.68	1/2	903.89	1/2	572.31
3/4	3/4	3/4	3/4	3/4	1,886.08	3/4	1,728.83	3/4	1,563.42	3/4	1,397.81	3/4	1,230.52	3/4	1,066.23	3/4	900.44	3/4	568.85
8	8	8	8	8	1,884.04	8	1,725.38	8	1,559.97	8	1,394.36	8	1,226.57	8	1,062.77	8	896.98	8	565.40
1/4	1/4	1/4	1/4	1/4	1,881.57	1/4	1,721.94	1/4	1,556.53	1/4	1,390.91	1/4	1,223.62	1/4	1,059.32	1/4	893.53	1/4	561.95
1/2	1/2	1/2	1/2	1/2	1,879.10	1/2	1,718.49	1/2	1,553.08	1/2	1,387.45	1/2	1,220.66	1/2	1,055.87	1/2	890.07	1/2	558.49
3/4	3/4	3/4	3/4	3/4	1,876.63	3/4	1,715.05	3/4	1,549.64	3/4	1,384.00	3/4	1,217.71	3/4	1,052.41	3/4	886.62	3/4	555.04
9	9	9	9	9	1,874.16	9	1,711.60	9	1,546.19	9	1,380.54	9	1,214.75	9	1,048.96	9	883.16	9	551.58
1/4	1/4	1/4	1/4	1/4	1,871.26	1/4	1,708.15	1/4	1,542.75	1/4	1,377.09	1/4	1,211.30	1/4	1,045.51	1/4	879.71	1/4	548.13
1/2	1/2	1/2	1/2	1/2	1,868.36	1/2	1,704.71	1/2	1,539.30	1/2	1,373.64	1/2	1,207.84	1/2	1,042.05	1/2	876.26	1/2	544.67
3/4	3/4	3/4	3/4	3/4	1,865.46	3/4	1,701.26	3/4	1,535.86	3/4	1,370.18	3/4	1,204.39	3/4	1,038.60	3/4	872.80	3/4	541.22
10	10	10	10	10	1,862.56	10	1,697.81	10	1,532.41	10	1,366.73	10	1,200.93	10	1,035.14	10	869.35	10	537.76
1/4	1/4	1/4	1/4	1/4	1,859.28	1/4	1,694.37	1/4	1,528.96	1/4	1,363.28	1/4	1,197.48	1/4	1,031.69	1/4	865.90	1/4	534.31
1/2	1/2	1/2	1/2	1/2	1,856.00	1/2	1,690.92	1/2	1,525.52	1/2	1,359.82	1/2	1,194.03	1/2	1,028.23	1/2	862.44	1/2	530.86
3/4	3/4	3/4	3/4	3/4	1,852.72	3/4	1,687.48	3/4	1,522.07	3/4	1,356.37	3/4	1,190.57	3/4	1,024.78	3/4	858.99	3/4	527.40
11	11	11	11	11	1,849.44	11	1,684.03	11	1,518.62	11	1,352.91	11	1,187.12	11	1,021.32	11	855.53	11	523.95
1/4	1/4	1/4	1/4	1/4	1,845.99	1/4	1,680.59	1/4	1,515.18	1/4	1,349.46	1/4	1,183.67	1/4	1,017.87	1/4	852.08	1/4	520.50
1/2	1/2	1/2	1/2	1/2	1,842.55	1/2	1,677.14	1/2	1,511.73	1/2	1,346.00	1/2	1,180.21	1/2	1,014.42	1/2	848.63	1/2	517.04
3/4	3/4	3/4	3/4	3/4	1,839.10	3/4	1,673.70	3/4	1,508.29	3/4	1,342.55	3/4	1,176.76	3/4	1,010.96	3/4	845.17	3/4	513.59

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	510.13	0	344.34	0	178.00	0	17.03	0		0		0		0		0		0	
1/4	506.68	1/4	340.89	1/4	174.68	1/4	15.06	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	503.23	1/2	337.43	1/2	171.37	1/2	13.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	499.77	3/4	333.98	3/4	168.05	3/4	11.11	3/4		3/4		3/4		3/4		3/4		3/4	
1	496.32	1	330.52	1	164.73	1	9.13	1		1		1		1		1		1	
1/4	492.87	1/4	327.07	1/4	161.28	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489.41	1/2	323.62	1/2	157.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	485.96	3/4	320.16	3/4	154.37	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	482.50	2	316.71	2	150.92	2		2		2		2		2		2		2	
1/4	479.05	1/4	313.26	1/4	147.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	475.59	1/2	309.80	1/2	144.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	472.14	3/4	306.35	3/4	140.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	468.68	3	302.89	3	137.10	3		3		3		3		3		3		3	
1/4	465.23	1/4	299.44	1/4	133.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	461.78	1/2	295.99	1/2	130.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.32	3/4	292.53	3/4	126.74	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	454.87	4	289.08	4	123.29	4		4		4		4		4		4		4	
1/4	451.42	1/4	285.63	1/4	119.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	447.96	1/2	282.17	1/2	116.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.51	3/4	278.72	3/4	112.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	441.05	5	275.26	5	109.47	5		5		5		5		5		5		5	
1/4	437.60	1/4	271.81	1/4	106.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.15	1/2	268.36	1/2	102.56	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	430.69	3/4	264.90	3/4	99.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	427.24	6	261.45	6	95.65	6		6		6		6		6		6		6	
1/4	423.79	1/4	258.00	1/4	92.20	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.33	1/2	254.54	1/2	88.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	416.88	3/4	251.09	3/4	85.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	413.42	7	247.63	7	81.84	7		7		7		7		7		7		7	
1/4	409.97	1/4	244.18	1/4	78.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.51	1/2	240.72	1/2	74.93	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.06	3/4	237.27	3/4	71.48	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	399.60	8	233.81	8	68.02	8		8		8		8		8		8		8	
1/4	396.15	1/4	230.36	1/4	64.57	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	392.70	1/2	226.91	1/2	61.12	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.24	3/4	223.45	3/4	57.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	385.79	9	220.00	9	54.21	9		9		9		9		9		9		9	
1/4	382.34	1/4	216.55	1/4	50.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	378.88	1/2	213.09	1/2	47.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.43	3/4	209.64	3/4	43.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	371.97	10	206.18	10	40.39	10		10		10		10		10		10		10	
1/4	368.52	1/4	202.73	1/4	37.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.07	1/2	199.28	1/2	33.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361.61	3/4	195.82	3/4	30.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	358.16	11	192.37	11	27.55	11		11		11		11		11		11		11	
1/4	354.71	1/4	188.78	1/4	24.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.25	1/2	185.19	1/2	22.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	347.80	3/4	181.59	3/4	19.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-01 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	1,839.10	0	1,673.70	0	1,508.29	0	1,342.55	0	1,176.76	0	1,010.96	0	845.17	0	679.38		
1/4	1/4	1/4	1/4	1/4	1,835.65	1/4	1,670.25	1/4	1,504.84	1/4	1,339.09	1/4	1,173.30	1/4	1,007.51	1/4	841.72	1/4	675.92		
1/2	1/2	1/2	1/2	1/2	1,832.21	1/2	1,666.80	1/2	1,501.39	1/2	1,335.64	1/2	1,169.85	1/2	1,004.06	1/2	838.27	1/2	672.47		
3/4	3/4	3/4	3/4	3/4	1,828.76	3/4	1,663.36	3/4	1,497.95	3/4	1,332.19	3/4	1,166.40	3/4	1,000.60	3/4	834.81	3/4	669.02		
1	1	1	1	1	1,825.32	1	1,659.91	1	1,494.50	1	1,328.73	1	1,162.94	1	997.15	1	831.36	1	665.56		
1/4	1/4	1/4	1/4	1/4	1,821.87	1/4	1,656.46	1/4	1,491.05	1/4	1,325.28	1/4	1,159.49	1/4	993.69	1/4	827.90	1/4	662.11		
1/2	1/2	1/2	1/2	1/2	1,818.43	1/2	1,653.02	1/2	1,487.60	1/2	1,321.83	1/2	1,156.04	1/2	990.24	1/2	824.45	1/2	658.66		
3/4	3/4	3/4	3/4	3/4	1,814.98	3/4	1,649.57	3/4	1,484.15	3/4	1,318.37	3/4	1,152.58	3/4	986.79	3/4	820.99	3/4	655.20		
2	2	2	2	2	1,811.54	2	1,646.13	2	1,480.70	2	1,314.92	2	1,149.13	2	983.33	2	817.54	2	651.75		
1/4	1/4	1/4	1/4	1/4	1,808.09	1/4	1,642.68	1/4	1,477.25	1/4	1,311.46	1/4	1,145.67	1/4	979.88	1/4	814.08	1/4	648.29		
1/2	1/2	1/2	1/2	1/2	1,804.64	1/2	1,639.23	1/2	1,473.80	1/2	1,308.01	1/2	1,142.22	1/2	976.43	1/2	810.63	1/2	644.84		
3/4	3/4	3/4	3/4	3/4	1,801.20	3/4	1,635.79	3/4	1,470.35	3/4	1,304.56	3/4	1,138.76	3/4	972.97	3/4	807.18	3/4	641.39		
3	3	3	3	3	1,907.74	3	1,797.75	3	1,632.34	3	1,466.89	3	1,301.10	3	1,135.31	3	969.52	3	803.72	3	637.93
1/4	1/4	1/4	1/4	1/4	1,907.54	1/4	1,794.30	1/4	1,628.89	1/4	1,463.44	1/4	1,297.65	1/4	1,131.85	1/4	966.06	1/4	800.27	1/4	634.48
1/2	1/2	1/2	1/2	1/2	1,907.23	1/2	1,790.86	1/2	1,625.45	1/2	1,459.99	1/2	1,294.20	1/2	1,128.40	1/2	962.61	1/2	796.82	1/2	631.03
3/4	3/4	3/4	3/4	3/4	1,906.92	3/4	1,787.41	3/4	1,622.00	3/4	1,456.53	3/4	1,290.74	3/4	1,124.95	3/4	959.15	3/4	793.36	3/4	627.57
4	4	4	4	4	1,906.60	4	1,783.97	4	1,618.56	4	1,453.08	4	1,287.29	4	1,121.49	4	955.70	4	789.91	4	624.12
1/4	1/4	1/4	1/4	1/4	1,906.29	1/4	1,780.52	1/4	1,615.11	1/4	1,449.62	1/4	1,283.83	1/4	1,118.04	1/4	952.24	1/4	786.45	1/4	620.66
1/2	1/2	1/2	1/2	1/2	1,905.55	1/2	1,777.07	1/2	1,611.67	1/2	1,446.17	1/2	1,280.38	1/2	1,114.59	1/2	948.79	1/2	783.00	1/2	617.21
3/4	3/4	3/4	3/4	3/4	1,904.80	3/4	1,773.63	3/4	1,608.22	3/4	1,442.72	3/4	1,276.92	3/4	1,111.13	3/4	945.34	3/4	779.55	3/4	613.75
5	5	5	5	5	1,904.06	5	1,770.18	5	1,604.78	5	1,439.26	5	1,273.47	5	1,107.68	5	941.88	5	776.09	5	610.30
1/4	1/4	1/4	1/4	1/4	1,903.31	1/4	1,766.73	1/4	1,601.33	1/4	1,435.81	1/4	1,270.01	1/4	1,104.22	1/4	938.43	1/4	772.64	1/4	606.84
1/2	1/2	1/2	1/2	1/2	1,902.14	1/2	1,763.29	1/2	1,597.88	1/2	1,432.36	1/2	1,266.56	1/2	1,100.77	1/2	934.98	1/2	769.19	1/2	603.39
3/4	3/4	3/4	3/4	3/4	1,900.97	3/4	1,759.84	3/4	1,594.44	3/4	1,428.90	3/4	1,263.11	3/4	1,097.31	3/4	931.52	3/4	765.73	3/4	599.94
6	6	6	6	6	1,899.79	6	1,756.40	6	1,590.99	6	1,425.45	6	1,259.65	6	1,093.86	6	928.07	6	762.28	6	596.48
1/4	1/4	1/4	1/4	1/4	1,898.62	1/4	1,752.95	1/4	1,587.54	1/4	1,421.99	1/4	1,256.20	1/4	1,090.40	1/4	924.61	1/4	758.82	1/4	593.03
1/2	1/2	1/2	1/2	1/2	1,897.01	1/2	1,749.51	1/2	1,584.10	1/2	1,418.54	1/2	1,252.75	1/2	1,086.95	1/2	921.16	1/2	755.37	1/2	589.58
3/4	3/4	3/4	3/4	3/4	1,895.41	3/4	1,746.06	3/4	1,580.65	3/4	1,415.08	3/4	1,249.29	3/4	1,083.50	3/4	917.71	3/4	751.91	3/4	586.12
7	7	7	7	7	1,893.80	7	1,742.62	7	1,577.21	7	1,411.63	7	1,245.84	7	1,080.04	7	914.25	7	748.46	7	582.67
1/4	1/4	1/4	1/4	1/4	1,892.19	1/4	1,739.17	1/4	1,573.76	1/4	1,408.17	1/4	1,242.38	1/4	1,076.59	1/4	910.80	1/4	745.00	1/4	579.21
1/2	1/2	1/2	1/2	1/2	1,890.15	1/2	1,735.72	1/2	1,570.31	1/2	1,404.72	1/2	1,238.43	1/2	1,073.14	1/2	907.35	1/2	741.55	1/2	575.76
3/4	3/4	3/4	3/4	3/4	1,888.12	3/4	1,732.28	3/4	1,566.87	3/4	1,401.27	3/4	1,234.48	3/4	1,069.68	3/4	903.89	3/4	738.10	3/4	572.31
8	8	8	8	8	1,886.08	8	1,728.83	8	1,563.42	8	1,397.81	8	1,230.52	8	1,066.23	8	900.44	8	734.64	8	568.85
1/4	1/4	1/4	1/4	1/4	1,884.04	1/4	1,725.38	1/4	1,559.97	1/4	1,394.36	1/4	1,226.57	1/4	1,062.77	1/4	896.98	1/4	731.19	1/4	565.40
1/2	1/2	1/2	1/2	1/2	1,881.57	1/2	1,721.94	1/2	1,556.53	1/2	1,390.91	1/2	1,223.62	1/2	1,059.32	1/2	893.53	1/2	727.74	1/2	561.95
3/4	3/4	3/4	3/4	3/4	1,879.10	3/4	1,718.49	3/4	1,553.08	3/4	1,387.45	3/4	1,220.66	3/4	1,055.87	3/4	890.07	3/4	724.28	3/4	558.49
9	9	9	9	9	1,876.63	9	1,715.05	9	1,549.64	9	1,384.00	9	1,217.71	9	1,052.41	9	886.62	9	720.83	9	555.04
1/4	1/4	1/4	1/4	1/4	1,874.16	1/4	1,711.60	1/4	1,546.19	1/4	1,380.54	1/4	1,214.75	1/4	1,048.96	1/4	883.16	1/4	717.37	1/4	551.58
1/2	1/2	1/2	1/2	1/2	1,871.26	1/2	1,708.15	1/2	1,542.75	1/2	1,377.09	1/2	1,211.30	1/2	1,045.51	1/2	879.71	1/2	713.92	1/2	548.13
3/4	3/4	3/4	3/4	3/4	1,868.36	3/4	1,704.71	3/4	1,539.30	3/4	1,373.64	3/4	1,207.84	3/4	1,042.05	3/4	876.26	3/4	710.47	3/4	544.67
10	10	10	10	10	1,865.46	10	1,701.26	10	1,535.86	10	1,370.18	10	1,204.39	10	1,038.60	10	872.80	10	707.01	10	541.22
1/4	1/4	1/4	1/4	1/4	1,862.56	1/4	1,697.81	1/4	1,532.41	1/4	1,366.73	1/4	1,200.93	1/4	1,035.14	1/4	869.35	1/4	703.56	1/4	537.76
1/2	1/2	1/2	1/2	1/2	1,859.28	1/2	1,694.37	1/2	1,528.96	1/2	1,363.28	1/2	1,197.48	1/2	1,031.69	1/2	865.90	1/2	700.11	1/2	534.31
3/4	3/4	3/4	3/4	3/4	1,856.00	3/4	1,690.92	3/4	1,525.52	3/4	1,359.82	3/4	1,194.03	3/4	1,028.23	3/4	862.44	3/4	696.65	3/4	530.86
11	11	11	11	11	1,852.72	11	1,687.48	11	1,522.07	11	1,356.37	11	1,190.57	11	1,024.78	11	858.99	11	693.20	11	527.40
1/4	1/4	1/4	1/4	1/4	1,849.44	1/4	1,684.03	1/4	1,518.62	1/4	1,352.91	1/4	1,187.12	1/4	1,021.32	1/4	855.53	1/4	689.74	1/4	523.95
1/2	1/2	1/2	1/2	1/2	1,845.99	1/2	1,680.59	1/2	1,515.18	1/2	1,349.46	1/2	1,183.67	1/2	1,017.87	1/2	852.08	1/2	686.29	1/2	520.50
3/4	3/4	3/4	3/4	3/4	1,842.55	3/4	1,677.14	3/4	1,511.73	3/4	1,346.00	3/4	1,180.21	3/4	1,014.42	3/4	848.63	3/4	682.83	3/4	517.04

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

**3 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-01 1/4"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	513.59	0	347.80	0	181.59	0	19.66	0		0		0		0		0		0	
1/4	510.13	1/4	344.34	1/4	178.00	1/4	17.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	506.68	1/2	340.89	1/2	174.68	1/2	15.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	503.23	3/4	337.43	3/4	171.37	3/4	13.08	3/4		3/4		3/4		3/4		3/4		3/4	
1	499.77	1	333.98	1	168.05	1	11.11	1		1		1		1		1		1	
1/4	496.32	1/4	330.52	1/4	164.73	1/4	9.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	492.87	1/2	327.07	1/2	161.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	489.41	3/4	323.62	3/4	157.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	485.96	2	320.16	2	154.37	2		2		2		2		2		2		2	
1/4	482.50	1/4	316.71	1/4	150.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	479.05	1/2	313.26	1/2	147.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	475.59	3/4	309.80	3/4	144.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	472.14	3	306.35	3	140.56	3		3		3		3		3		3		3	
1/4	468.68	1/4	302.89	1/4	137.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	465.23	1/2	299.44	1/2	133.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	461.78	3/4	295.99	3/4	130.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	458.32	4	292.53	4	126.74	4		4		4		4		4		4		4	
1/4	454.87	1/4	289.08	1/4	123.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	451.42	1/2	285.63	1/2	119.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	447.96	3/4	282.17	3/4	116.38	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	444.51	5	278.72	5	112.93	5		5		5		5		5		5		5	
1/4	441.05	1/4	275.26	1/4	109.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	437.60	1/2	271.81	1/2	106.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	434.15	3/4	268.36	3/4	102.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	430.69	6	264.90	6	99.11	6		6		6		6		6		6		6	
1/4	427.24	1/4	261.45	1/4	95.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	423.79	1/2	258.00	1/2	92.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	420.33	3/4	254.54	3/4	88.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	416.88	7	251.09	7	85.29	7		7		7		7		7		7		7	
1/4	413.42	1/4	247.63	1/4	81.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	409.97	1/2	244.18	1/2	78.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	406.51	3/4	240.72	3/4	74.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	403.06	8	237.27	8	71.48	8		8		8		8		8		8		8	
1/4	399.60	1/4	233.81	1/4	68.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	396.15	1/2	230.36	1/2	64.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	392.70	3/4	226.91	3/4	61.12	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	389.24	9	223.45	9	57.66	9		9		9		9		9		9		9	
1/4	385.79	1/4	220.00	1/4	54.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	382.34	1/2	216.55	1/2	50.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378.88	3/4	213.09	3/4	47.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	375.43	10	209.64	10	43.85	10		10		10		10		10		10		10	
1/4	371.97	1/4	206.18	1/4	40.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368.52	1/2	202.73	1/2	37.18	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365.07	3/4	199.28	3/4	33.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	361.61	11	195.82	11	30.76	11		11		11		11		11		11		11	
1/4	358.16	1/4	192.37	1/4	27.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	354.71	1/2	188.78	1/2	24.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	351.25	3/4	185.19	3/4	22.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 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	1,825.12	0	1,659.81	0	1,494.50	0	1,328.73	0	1,162.94	0	997.15	0	831.35	0	665.56		
1/4	1/4	1/4	1,821.67	1/4	1,656.36	1/4	1,491.05	1/4	1,325.28	1/4	1,159.49	1/4	993.69	1/4	827.90	1/4	662.11		
1/2	1/2	1/2	1,818.23	1/2	1,652.92	1/2	1,487.60	1/2	1,321.83	1/2	1,156.04	1/2	990.24	1/2	824.44	1/2	658.65		
3/4	3/4	3/4	1,814.79	3/4	1,649.48	3/4	1,484.15	3/4	1,318.37	3/4	1,152.58	3/4	986.79	3/4	820.99	3/4	655.20		
1	1	1	1,811.34	1	1,646.03	1	1,480.70	1	1,314.92	1	1,149.13	1	983.33	1	817.53	1	651.74		
1/4	1/4	1/4	1,807.90	1/4	1,642.59	1/4	1,477.25	1/4	1,311.46	1/4	1,145.67	1/4	979.88	1/4	814.08	1/4	648.29		
1/2	1/2	1/2	1,804.46	1/2	1,639.15	1/2	1,473.80	1/2	1,308.01	1/2	1,142.22	1/2	976.43	1/2	810.63	1/2	644.84		
3/4	3/4	3/4	1,801.01	3/4	1,635.70	3/4	1,470.35	3/4	1,304.56	3/4	1,138.76	3/4	972.97	3/4	807.17	3/4	641.38		
2	2	2	1,907.53	2	1,797.57	2	1,632.26	2	1,466.89	2	1,301.10	2	1,135.31	2	969.52	2	803.72	2	637.93
1/4	1/4	1/4	1,907.32	1/4	1,794.12	1/4	1,628.81	1/4	1,463.44	1/4	1,297.65	1/4	1,131.85	1/4	966.06	1/4	800.27	1/4	634.48
1/2	1/2	1/2	1,907.01	1/2	1,790.68	1/2	1,625.37	1/2	1,459.99	1/2	1,294.20	1/2	1,128.40	1/2	962.61	1/2	796.81	1/2	631.02
3/4	3/4	3/4	1,906.70	3/4	1,787.24	3/4	1,621.92	3/4	1,456.53	3/4	1,290.74	3/4	1,124.95	3/4	959.15	3/4	793.36	3/4	627.57
3	3	3	1,906.38	3	1,783.79	3	1,618.48	3	1,453.08	3	1,287.29	3	1,121.49	3	955.69	3	789.90	3	624.11
1/4	1/4	1/4	1,906.07	1/4	1,780.35	1/4	1,615.03	1/4	1,449.62	1/4	1,283.83	1/4	1,118.04	1/4	952.24	1/4	786.45	1/4	620.66
1/2	1/2	1/2	1,905.33	1/2	1,776.91	1/2	1,611.59	1/2	1,446.17	1/2	1,280.38	1/2	1,114.59	1/2	948.79	1/2	783.00	1/2	617.20
3/4	3/4	3/4	1,904.59	3/4	1,773.46	3/4	1,608.15	3/4	1,442.72	3/4	1,276.92	3/4	1,111.13	3/4	945.33	3/4	779.54	3/4	613.75
4	4	4	1,903.84	4	1,770.02	4	1,604.70	4	1,439.26	4	1,273.47	4	1,107.68	4	941.88	4	776.09	4	610.29
1/4	1/4	1/4	1,903.10	1/4	1,766.57	1/4	1,601.26	1/4	1,435.81	1/4	1,270.01	1/4	1,104.22	1/4	938.43	1/4	772.64	1/4	606.84
1/2	1/2	1/2	1,901.93	1/2	1,763.13	1/2	1,597.82	1/2	1,432.36	1/2	1,266.56	1/2	1,100.77	1/2	934.97	1/2	769.18	1/2	603.39
3/4	3/4	3/4	1,900.75	3/4	1,759.68	3/4	1,594.37	3/4	1,428.90	3/4	1,263.11	3/4	1,097.31	3/4	931.52	3/4	765.73	3/4	599.93
5	5	5	1,899.58	5	1,756.24	5	1,590.93	5	1,425.45	5	1,259.65	5	1,093.86	5	928.06	5	762.27	5	596.48
1/4	1/4	1/4	1,898.40	1/4	1,752.79	1/4	1,587.48	1/4	1,421.99	1/4	1,256.20	1/4	1,090.40	1/4	924.61	1/4	758.82	1/4	593.03
1/2	1/2	1/2	1,896.80	1/2	1,749.35	1/2	1,584.04	1/2	1,418.54	1/2	1,252.75	1/2	1,086.95	1/2	921.16	1/2	755.36	1/2	589.57
3/4	3/4	3/4	1,895.19	3/4	1,745.91	3/4	1,580.60	3/4	1,415.08	3/4	1,249.29	3/4	1,083.50	3/4	917.70	3/4	751.91	3/4	586.12
6	6	6	1,893.59	6	1,742.46	6	1,577.15	6	1,411.63	6	1,245.84	6	1,080.04	6	914.25	6	748.45	6	582.66
1/4	1/4	1/4	1,891.98	1/4	1,739.02	1/4	1,573.71	1/4	1,408.17	1/4	1,242.38	1/4	1,076.59	1/4	910.80	1/4	745.00	1/4	579.21
1/2	1/2	1/2	1,889.94	1/2	1,735.58	1/2	1,570.27	1/2	1,404.72	1/2	1,238.93	1/2	1,073.14	1/2	907.34	1/2	741.55	1/2	575.76
3/4	3/4	3/4	1,887.91	3/4	1,732.13	3/4	1,566.82	3/4	1,401.27	3/4	1,235.48	3/4	1,069.68	3/4	903.89	3/4	738.09	3/4	572.30
7	7	7	1,885.87	7	1,728.69	7	1,563.38	7	1,397.81	7	1,232.02	7	1,066.23	7	900.43	7	734.64	7	568.85
1/4	1/4	1/4	1,883.83	1/4	1,725.24	1/4	1,559.93	1/4	1,394.36	1/4	1,228.57	1/4	1,062.77	1/4	896.98	1/4	731.19	1/4	565.40
1/2	1/2	1/2	1,881.36	1/2	1,721.80	1/2	1,556.49	1/2	1,390.91	1/2	1,225.12	1/2	1,059.32	1/2	893.52	1/2	727.73	1/2	561.94
3/4	3/4	3/4	1,878.89	3/4	1,718.36	3/4	1,553.04	3/4	1,387.45	3/4	1,221.66	3/4	1,055.87	3/4	890.07	3/4	724.28	3/4	558.49
8	8	8	1,876.42	8	1,714.91	8	1,549.60	8	1,384.00	8	1,218.21	8	1,052.41	8	886.61	8	720.82	8	555.03
1/4	1/4	1/4	1,873.95	1/4	1,711.47	1/4	1,546.15	1/4	1,380.54	1/4	1,214.75	1/4	1,048.96	1/4	883.16	1/4	717.37	1/4	551.58
1/2	1/2	1/2	1,871.05	1/2	1,708.03	1/2	1,542.71	1/2	1,377.09	1/2	1,211.30	1/2	1,045.51	1/2	879.71	1/2	713.92	1/2	548.12
3/4	3/4	3/4	1,868.15	3/4	1,704.58	3/4	1,539.27	3/4	1,373.64	3/4	1,207.84	3/4	1,042.05	3/4	876.25	3/4	710.46	3/4	544.67
9	9	9	1,865.25	9	1,701.14	9	1,535.82	9	1,370.18	9	1,204.39	9	1,038.60	9	872.80	9	707.01	9	541.21
1/4	1/4	1/4	1,862.35	1/4	1,697.69	1/4	1,532.38	1/4	1,366.73	1/4	1,200.93	1/4	1,035.14	1/4	869.35	1/4	703.56	1/4	537.76
1/2	1/2	1/2	1,859.07	1/2	1,694.25	1/2	1,528.94	1/2	1,363.28	1/2	1,197.48	1/2	1,031.69	1/2	865.89	1/2	700.10	1/2	534.31
3/4	3/4	3/4	1,855.79	3/4	1,690.80	3/4	1,525.49	3/4	1,359.82	3/4	1,194.03	3/4	1,028.23	3/4	862.44	3/4	696.65	3/4	530.85
10	10	10	1,852.51	10	1,687.36	10	1,522.05	10	1,356.37	10	1,190.57	10	1,024.78	10	858.98	10	693.19	10	527.40
1/4	1/4	1/4	1,849.23	1/4	1,683.91	1/4	1,518.60	1/4	1,352.91	1/4	1,187.12	1/4	1,021.32	1/4	855.53	1/4	689.74	1/4	523.95
1/2	1/2	1/2	1,845.79	1/2	1,680.47	1/2	1,515.16	1/2	1,349.46	1/2	1,183.67	1/2	1,017.87	1/2	852.08	1/2	686.28	1/2	520.49
3/4	3/4	3/4	1,842.34	3/4	1,677.03	3/4	1,511.72	3/4	1,346.00	3/4	1,180.21	3/4	1,014.42	3/4	848.62	3/4	682.83	3/4	517.04
11	11	11	1,838.90	11	1,673.58	11	1,508.27	11	1,342.55	11	1,176.76	11	1,010.96	11	845.17	11	679.37	11	513.58
1/4	1/4	1/4	1,835.45	1/4	1,670.14	1/4	1,504.83	1/4	1,339.09	1/4	1,173.30	1/4	1,007.51	1/4	841.72	1/4	675.92	1/4	510.13
1/2	1/2	1/2	1,832.01	1/2	1,666.70	1/2	1,501.39	1/2	1,335.64	1/2	1,169.85	1/2	1,004.06	1/2	838.26	1/2	672.47	1/2	506.68
3/4	3/4	3/4	1,828.56	3/4	1,663.25	3/4	1,497.94	3/4	1,332.19	3/4	1,166.40	3/4	1,000.60	3/4	834.81	3/4	669.01	3/4	503.22

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-00 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	499.77	0	333.97	0	168.18	0	11.10	0		0		0		0		0		0	
1/4	496.32	1/4	330.52	1/4	164.73	1/4	9.13	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	492.86	1/2	327.07	1/2	161.28	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	489.41	3/4	323.61	3/4	157.82	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	485.95	1	320.16	1	154.37	1		1		1		1		1		1		1	
1/4	482.50	1/4	316.71	1/4	150.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	479.04	1/2	313.25	1/2	147.46	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	475.59	3/4	309.80	3/4	144.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	472.13	2	306.34	2	140.55	2		2		2		2		2		2		2	
1/4	468.68	1/4	302.89	1/4	137.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	465.23	1/2	299.44	1/2	133.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	461.77	3/4	295.98	3/4	130.19	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	458.32	3	292.53	3	126.74	3		3		3		3		3		3		3	
1/4	454.87	1/4	289.08	1/4	123.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	451.41	1/2	285.62	1/2	119.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	447.96	3/4	282.17	3/4	116.38	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	444.50	4	278.71	4	112.92	4		4		4		4		4		4		4	
1/4	441.05	1/4	275.26	1/4	109.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	437.60	1/2	271.81	1/2	106.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	434.14	3/4	268.35	3/4	102.56	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	430.69	5	264.90	5	99.10	5		5		5		5		5		5		5	
1/4	427.24	1/4	261.45	1/4	95.65	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	423.78	1/2	257.99	1/2	92.20	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	420.33	3/4	254.54	3/4	88.74	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	416.87	6	251.08	6	85.29	6		6		6		6		6		6		6	
1/4	413.42	1/4	247.63	1/4	81.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	409.96	1/2	244.17	1/2	78.38	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	406.51	3/4	240.72	3/4	74.93	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	403.05	7	237.26	7	71.47	7		7		7		7		7		7		7	
1/4	399.60	1/4	233.81	1/4	68.02	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	396.15	1/2	230.36	1/2	64.57	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	392.69	3/4	226.90	3/4	61.11	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	389.24	8	223.45	8	57.66	8		8		8		8		8		8		8	
1/4	385.79	1/4	220.00	1/4	54.21	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	382.33	1/2	216.54	1/2	50.75	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	378.88	3/4	213.09	3/4	47.30	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	375.42	9	209.63	9	43.84	9		9		9		9		9		9		9	
1/4	371.97	1/4	206.18	1/4	40.39	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	368.52	1/2	202.73	1/2	37.18	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365.06	3/4	199.27	3/4	33.97	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	361.61	10	195.82	10	30.76	10		10		10		10		10		10		10	
1/4	358.16	1/4	192.37	1/4	27.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	354.70	1/2	188.91	1/2	24.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	351.25	3/4	185.46	3/4	22.29	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	347.79	11	182.00	11	19.66	11		11		11		11		11		11		11	
1/4	344.34	1/4	178.55	1/4	17.03	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	340.88	1/2	175.09	1/2	15.05	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	337.43	3/4	171.64	3/4	13.08	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 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	1,828.56	0	1,663.25	0	1,497.94	0	1,332.19	0	1,166.40	0	1,000.60	0	834.81	0	669.01
1/4		1/4		1/4	1,825.12	1/4	1,659.81	1/4	1,494.50	1/4	1,328.73	1/4	1,162.94	1/4	997.15	1/4	831.35	1/4	665.56
1/2		1/2		1/2	1,821.67	1/2	1,656.36	1/2	1,491.05	1/2	1,325.28	1/2	1,159.49	1/2	993.69	1/2	827.90	1/2	662.11
3/4		3/4		3/4	1,818.23	3/4	1,652.92	3/4	1,487.60	3/4	1,321.83	3/4	1,156.04	3/4	990.24	3/4	824.44	3/4	658.65
1	1	1	1	1	1,814.79	1	1,649.48	1	1,484.15	1	1,318.37	1	1,152.58	1	986.79	1	820.99	1	655.20
1/4		1/4		1/4	1,811.34	1/4	1,646.03	1/4	1,480.70	1/4	1,314.92	1/4	1,149.13	1/4	983.33	1/4	817.53	1/4	651.74
1/2		1/2		1/2	1,807.90	1/2	1,642.59	1/2	1,477.25	1/2	1,311.46	1/2	1,145.67	1/2	979.88	1/2	814.08	1/2	648.29
3/4		3/4		3/4	1,804.46	3/4	1,639.15	3/4	1,473.80	3/4	1,308.01	3/4	1,142.22	3/4	976.43	3/4	810.63	3/4	644.84
2	2	2	2	2	1,801.01	2	1,635.70	2	1,470.35	2	1,304.56	2	1,138.76	2	972.97	2	807.17	2	641.38
1/4		1/4	1,907.53	1/4	1,797.57	1/4	1,632.26	1/4	1,466.89	1/4	1,301.10	1/4	1,135.31	1/4	969.52	1/4	803.72	1/4	637.93
1/2		1/2	1,907.32	1/2	1,794.12	1/2	1,628.81	1/2	1,463.44	1/2	1,297.65	1/2	1,131.85	1/2	966.06	1/2	800.27	1/2	634.48
3/4		3/4	1,907.01	3/4	1,790.68	3/4	1,625.37	3/4	1,459.99	3/4	1,294.20	3/4	1,128.40	3/4	962.61	3/4	796.81	3/4	631.02
3	3	3	3	3	1,787.24	3	1,621.92	3	1,456.53	3	1,290.74	3	1,124.95	3	959.15	3	793.36	3	627.57
1/4		1/4	1,906.38	1/4	1,783.79	1/4	1,618.48	1/4	1,453.08	1/4	1,287.29	1/4	1,121.49	1/4	955.69	1/4	789.90	1/4	624.11
1/2		1/2	1,906.07	1/2	1,780.35	1/2	1,615.03	1/2	1,449.62	1/2	1,283.83	1/2	1,118.04	1/2	952.24	1/2	786.45	1/2	620.66
3/4		3/4	1,905.33	3/4	1,776.91	3/4	1,611.59	3/4	1,446.17	3/4	1,280.38	3/4	1,114.59	3/4	948.79	3/4	783.00	3/4	617.20
4	4	4	4	4	1,773.46	4	1,608.15	4	1,442.72	4	1,276.92	4	1,111.13	4	945.33	4	779.54	4	613.75
1/4		1/4	1,903.84	1/4	1,770.02	1/4	1,604.70	1/4	1,439.26	1/4	1,273.47	1/4	1,107.68	1/4	941.88	1/4	776.09	1/4	610.29
1/2		1/2	1,903.10	1/2	1,766.57	1/2	1,601.26	1/2	1,435.81	1/2	1,270.01	1/2	1,104.22	1/2	938.43	1/2	772.64	1/2	606.84
3/4		3/4	1,901.93	3/4	1,763.13	3/4	1,597.82	3/4	1,432.36	3/4	1,266.56	3/4	1,100.77	3/4	934.97	3/4	769.18	3/4	603.39
5	5	5	5	5	1,759.68	5	1,594.37	5	1,428.90	5	1,263.11	5	1,097.31	5	931.52	5	765.73	5	599.93
1/4		1/4	1,899.58	1/4	1,756.24	1/4	1,590.93	1/4	1,425.45	1/4	1,259.65	1/4	1,093.86	1/4	928.06	1/4	762.27	1/4	596.48
1/2		1/2	1,898.40	1/2	1,752.79	1/2	1,587.48	1/2	1,421.99	1/2	1,256.20	1/2	1,090.40	1/2	924.61	1/2	758.82	1/2	593.03
3/4		3/4	1,896.80	3/4	1,749.35	3/4	1,584.04	3/4	1,418.54	3/4	1,252.75	3/4	1,086.95	3/4	921.16	3/4	755.36	3/4	589.57
6	6	6	6	6	1,745.91	6	1,580.60	6	1,415.08	6	1,249.29	6	1,083.50	6	917.70	6	751.91	6	586.12
1/4		1/4	1,893.59	1/4	1,742.46	1/4	1,577.15	1/4	1,411.63	1/4	1,245.84	1/4	1,080.04	1/4	914.25	1/4	748.45	1/4	582.66
1/2		1/2	1,891.98	1/2	1,739.02	1/2	1,573.71	1/2	1,408.17	1/2	1,242.38	1/2	1,076.59	1/2	910.80	1/2	745.00	1/2	579.21
3/4		3/4	1,889.94	3/4	1,735.58	3/4	1,570.27	3/4	1,404.72	3/4	1,238.93	3/4	1,073.14	3/4	907.34	3/4	741.55	3/4	575.76
7	7	7	7	7	1,732.13	7	1,566.82	7	1,401.27	7	1,235.48	7	1,069.68	7	903.89	7	738.09	7	572.30
1/4		1/4	1,885.87	1/4	1,728.69	1/4	1,563.38	1/4	1,397.81	1/4	1,232.02	1/4	1,066.23	1/4	900.43	1/4	734.64	1/4	568.85
1/2		1/2	1,883.83	1/2	1,725.24	1/2	1,559.93	1/2	1,394.36	1/2	1,228.57	1/2	1,062.77	1/2	896.98	1/2	731.19	1/2	565.40
3/4		3/4	1,881.36	3/4	1,721.80	3/4	1,556.49	3/4	1,390.91	3/4	1,225.12	3/4	1,059.32	3/4	893.52	3/4	727.73	3/4	561.94
8	8	8	8	8	1,718.89	8	1,553.04	8	1,387.45	8	1,221.66	8	1,055.87	8	890.07	8	724.28	8	558.49
1/4		1/4	1,876.42	1/4	1,714.91	1/4	1,549.60	1/4	1,384.00	1/4	1,218.21	1/4	1,052.41	1/4	886.61	1/4	720.82	1/4	555.03
1/2		1/2	1,873.95	1/2	1,711.47	1/2	1,546.15	1/2	1,380.54	1/2	1,214.75	1/2	1,048.96	1/2	883.16	1/2	717.37	1/2	551.58
3/4		3/4	1,871.05	3/4	1,708.03	3/4	1,542.71	3/4	1,377.09	3/4	1,211.30	3/4	1,045.51	3/4	879.71	3/4	713.92	3/4	548.12
9	9	9	9	9	1,704.58	9	1,539.27	9	1,373.64	9	1,207.84	9	1,042.05	9	876.25	9	710.46	9	544.67
1/4		1/4	1,865.25	1/4	1,701.14	1/4	1,535.82	1/4	1,370.18	1/4	1,204.39	1/4	1,038.60	1/4	872.80	1/4	707.01	1/4	541.21
1/2		1/2	1,862.35	1/2	1,697.69	1/2	1,532.38	1/2	1,366.73	1/2	1,200.93	1/2	1,035.14	1/2	869.35	1/2	703.56	1/2	537.76
3/4		3/4	1,859.07	3/4	1,694.25	3/4	1,528.94	3/4	1,363.28	3/4	1,197.48	3/4	1,031.69	3/4	865.89	3/4	700.10	3/4	534.31
10	10	10	10	10	1,855.79	10	1,525.49	10	1,359.82	10	1,194.03	10	1,028.23	10	862.44	10	696.65	10	530.85
1/4		1/4	1,852.51	1/4	1,687.36	1/4	1,522.05	1/4	1,356.37	1/4	1,190.57	1/4	1,024.78	1/4	858.98	1/4	693.19	1/4	527.40
1/2		1/2	1,849.23	1/2	1,683.91	1/2	1,518.60	1/2	1,352.91	1/2	1,187.12	1/2	1,021.32	1/2	855.53	1/2	689.74	1/2	523.95
3/4		3/4	1,845.79	3/4	1,680.47	3/4	1,515.16	3/4	1,349.46	3/4	1,183.67	3/4	1,017.87	3/4	852.08	3/4	686.28	3/4	520.49
11	11	11	11	11	1,842.34	11	1,511.72	11	1,346.00	11	1,180.21	11	1,014.42	11	848.62	11	682.83	11	517.04
1/4		1/4	1,838.90	1/4	1,673.58	1/4	1,508.27	1/4	1,342.55	1/4	1,176.76	1/4	1,010.96	1/4	845.17	1/4	679.37	1/4	513.58
1/2		1/2	1,835.45	1/2	1,670.14	1/2	1,504.83	1/2	1,339.09	1/2	1,173.30	1/2	1,007.51	1/2	841.72	1/2	675.92	1/2	510.13
3/4		3/4	1,832.01	3/4	1,666.70	3/4	1,501.39	3/4	1,335.64	3/4	1,169.85	3/4	1,004.06	3/4	838.26	3/4	672.47	3/4	506.68

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 19' 6" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 22400"

**4 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-00 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	503.22	0	337.43	0	171.64	0	13.08	0		0		0		0		0		0	
1/4	499.77	1/4	333.97	1/4	168.18	1/4	11.10	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	496.32	1/2	330.52	1/2	164.73	1/2	9.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	492.86	3/4	327.07	3/4	161.28	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
1	489.41	1	323.61	1	157.82	1		1		1		1		1		1		1	
1/4	485.95	1/4	320.16	1/4	154.37	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	482.50	1/2	316.71	1/2	150.92	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	479.04	3/4	313.25	3/4	147.46	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	475.59	2	309.80	2	144.01	2		2		2		2		2		2		2	
1/4	472.13	1/4	306.34	1/4	140.55	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	468.68	1/2	302.89	1/2	137.10	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	465.23	3/4	299.44	3/4	133.65	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	461.77	3	295.98	3	130.19	3		3		3		3		3		3		3	
1/4	458.32	1/4	292.53	1/4	126.74	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	454.87	1/2	289.08	1/2	123.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	451.41	3/4	285.62	3/4	119.83	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	447.96	4	282.17	4	116.38	4		4		4		4		4		4		4	
1/4	444.50	1/4	278.71	1/4	112.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	441.05	1/2	275.26	1/2	109.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	437.60	3/4	271.81	3/4	106.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	434.14	5	268.35	5	102.56	5		5		5		5		5		5		5	
1/4	430.69	1/4	264.90	1/4	99.10	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	427.24	1/2	261.45	1/2	95.65	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	423.78	3/4	257.99	3/4	92.20	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	420.33	6	254.54	6	88.74	6		6		6		6		6		6		6	
1/4	416.87	1/4	251.08	1/4	85.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	413.42	1/2	247.63	1/2	81.84	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	409.96	3/4	244.17	3/4	78.38	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	406.51	7	240.72	7	74.93	7		7		7		7		7		7		7	
1/4	403.05	1/4	237.26	1/4	71.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	399.60	1/2	233.81	1/2	68.02	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	396.15	3/4	230.36	3/4	64.57	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	392.69	8	226.90	8	61.11	8		8		8		8		8		8		8	
1/4	389.24	1/4	223.45	1/4	57.66	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	385.79	1/2	220.00	1/2	54.21	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	382.33	3/4	216.54	3/4	50.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	378.88	9	213.09	9	47.30	9		9		9		9		9		9		9	
1/4	375.42	1/4	209.63	1/4	43.84	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	371.97	1/2	206.18	1/2	40.39	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	368.52	3/4	202.73	3/4	37.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	365.06	10	199.27	10	33.97	10		10		10		10		10		10		10	
1/4	361.61	1/4	195.82	1/4	30.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	358.16	1/2	192.37	1/2	27.55	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	354.70	3/4	188.91	3/4	24.92	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	351.25	11	185.46	11	22.29	11		11		11		11		11		11		11	
1/4	347.79	1/4	182.00	1/4	19.66	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	344.34	1/2	178.55	1/2	17.03	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	340.88	3/4	175.09	3/4	15.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,836.72	0	1,671.60	0	1,506.48	0	1,340.60	0	1,174.62	0	1,008.63	0	842.65	0	676.67		
1/4	1/4	1/4	1,833.28	1/4	1,668.16	1/4	1,503.04	1/4	1,337.14	1/4	1,171.16	1/4	1,005.17	1/4	839.19	1/4	673.21		
1/2	1/2	1/2	1,829.84	1/2	1,664.72	1/2	1,499.60	1/2	1,333.68	1/2	1,167.70	1/2	1,001.71	1/2	835.73	1/2	669.75		
3/4	3/4	3/4	1,826.40	3/4	1,661.28	3/4	1,496.16	3/4	1,330.23	3/4	1,164.25	3/4	998.26	3/4	832.28	3/4	666.29		
1	1	1	1,822.96	1	1,657.84	1	1,492.72	1	1,326.77	1	1,160.79	1	994.80	1	828.82	1	662.83		
1/4	1/4	1/4	1,819.52	1/4	1,654.40	1/4	1,489.27	1/4	1,323.31	1/4	1,157.33	1/4	991.34	1/4	825.36	1/4	659.37		
1/2	1/2	1/2	1,816.08	1/2	1,650.96	1/2	1,485.82	1/2	1,319.85	1/2	1,153.87	1/2	987.88	1/2	821.90	1/2	655.91		
3/4	3/4	3/4	1,812.64	3/4	1,647.52	3/4	1,482.37	3/4	1,316.40	3/4	1,150.41	3/4	984.43	3/4	818.45	3/4	652.46		
2	2	2	1,809.20	2	1,644.08	2	1,478.92	2	1,312.94	2	1,146.95	2	980.97	2	814.99	2	649.00		
1/4	1/4	1/4	1,805.76	1/4	1,640.64	1/4	1,475.46	1/4	1,309.48	1/4	1,143.49	1/4	977.51	1/4	811.53	1/4	645.54		
1/2	1/2	1/2	1,802.32	1/2	1,637.20	1/2	1,472.00	1/2	1,306.02	1/2	1,140.03	1/2	974.05	1/2	808.07	1/2	642.08		
3/4	3/4	3/4	1,908.77	3/4	1,798.88	3/4	1,633.76	3/4	1,468.55	3/4	1,302.57	3/4	1,136.58	3/4	970.60	3/4	804.61	3/4	638.63
3	3	3	1,908.57	3	1,795.44	3	1,630.32	3	1,465.09	3	1,299.11	3	1,133.12	3	967.14	3	801.15	3	635.17
1/4	1/4	1/4	1,908.26	1/4	1,792.00	1/4	1,626.88	1/4	1,461.63	1/4	1,295.65	1/4	1,129.66	1/4	963.68	1/4	797.69	1/4	631.71
1/2	1/2	1/2	1,907.95	1/2	1,788.56	1/2	1,623.44	1/2	1,458.17	1/2	1,292.19	1/2	1,126.20	1/2	960.22	1/2	794.23	1/2	628.25
3/4	3/4	3/4	1,907.63	3/4	1,785.12	3/4	1,620.00	3/4	1,454.72	3/4	1,288.73	3/4	1,122.75	3/4	956.77	3/4	790.78	3/4	624.80
4	4	4	1,907.32	4	1,781.68	4	1,616.56	4	1,451.26	4	1,285.27	4	1,119.29	4	953.31	4	787.32	4	621.34
1/4	1/4	1/4	1,906.58	1/4	1,778.24	1/4	1,613.12	1/4	1,447.80	1/4	1,281.81	1/4	1,115.83	1/4	949.85	1/4	783.86	1/4	617.88
1/2	1/2	1/2	1,905.84	1/2	1,774.80	1/2	1,609.68	1/2	1,444.34	1/2	1,278.35	1/2	1,112.37	1/2	946.39	1/2	780.40	1/2	614.42
3/4	3/4	3/4	1,905.09	3/4	1,771.36	3/4	1,606.24	3/4	1,440.89	3/4	1,274.90	3/4	1,108.92	3/4	942.93	3/4	776.95	3/4	610.97
5	5	5	1,904.35	5	1,767.92	5	1,602.80	5	1,437.43	5	1,271.44	5	1,105.46	5	939.47	5	773.49	5	607.51
1/4	1/4	1/4	1,903.18	1/4	1,764.48	1/4	1,599.36	1/4	1,433.97	1/4	1,267.98	1/4	1,102.00	1/4	936.01	1/4	770.03	1/4	604.05
1/2	1/2	1/2	1,902.00	1/2	1,761.04	1/2	1,595.92	1/2	1,430.51	1/2	1,264.52	1/2	1,098.54	1/2	932.55	1/2	766.57	1/2	600.59
3/4	3/4	3/4	1,900.83	3/4	1,757.59	3/4	1,592.48	3/4	1,427.05	3/4	1,261.07	3/4	1,095.09	3/4	929.10	3/4	763.12	3/4	597.13
6	6	6	1,899.65	6	1,754.15	6	1,589.04	6	1,423.59	6	1,257.61	6	1,091.63	6	925.64	6	759.66	6	593.67
1/4	1/4	1/4	1,898.05	1/4	1,750.71	1/4	1,585.60	1/4	1,420.13	1/4	1,254.15	1/4	1,088.17	1/4	922.11	1/4	756.20	1/4	590.21
1/2	1/2	1/2	1,896.44	1/2	1,747.28	1/2	1,582.16	1/2	1,416.67	1/2	1,250.69	1/2	1,084.71	1/2	918.57	1/2	752.74	1/2	586.75
3/4	3/4	3/4	1,894.84	3/4	1,743.84	3/4	1,578.72	3/4	1,413.22	3/4	1,247.24	3/4	1,081.25	3/4	915.04	3/4	749.29	3/4	583.30
7	7	7	1,893.23	7	1,740.40	7	1,575.28	7	1,409.76	7	1,243.78	7	1,077.79	7	911.51	7	745.83	7	579.84
1/4	1/4	1/4	1,891.19	1/4	1,736.95	1/4	1,571.84	1/4	1,406.30	1/4	1,240.32	1/4	1,074.33	1/4	908.13	1/4	742.37	1/4	576.38
1/2	1/2	1/2	1,889.16	1/2	1,733.50	1/2	1,568.40	1/2	1,402.84	1/2	1,236.86	1/2	1,070.87	1/2	904.74	1/2	738.91	1/2	572.92
3/4	3/4	3/4	1,887.12	3/4	1,730.05	3/4	1,564.96	3/4	1,399.39	3/4	1,233.41	3/4	1,067.42	3/4	901.36	3/4	735.45	3/4	569.47
8	8	8	1,885.08	8	1,726.60	8	1,561.52	8	1,395.93	8	1,229.95	8	1,063.96	8	897.98	8	731.99	8	566.01
1/4	1/4	1/4	1,882.61	1/4	1,723.17	1/4	1,558.08	1/4	1,392.47	1/4	1,226.49	1/4	1,060.50	1/4	894.52	1/4	728.53	1/4	562.55
1/2	1/2	1/2	1,880.14	1/2	1,719.74	1/2	1,554.64	1/2	1,389.01	1/2	1,223.03	1/2	1,057.04	1/2	891.06	1/2	725.07	1/2	559.09
3/4	3/4	3/4	1,877.67	3/4	1,716.31	3/4	1,551.20	3/4	1,385.56	3/4	1,219.57	3/4	1,053.59	3/4	887.61	3/4	721.62	3/4	555.64
9	9	9	1,875.20	9	1,712.88	9	1,547.76	9	1,382.10	9	1,216.11	9	1,050.13	9	884.15	9	718.16	9	552.18
1/4	1/4	1/4	1,872.30	1/4	1,709.44	1/4	1,544.32	1/4	1,378.64	1/4	1,212.65	1/4	1,046.67	1/4	880.69	1/4	714.70	1/4	548.72
1/2	1/2	1/2	1,869.40	1/2	1,706.00	1/2	1,540.88	1/2	1,375.18	1/2	1,209.19	1/2	1,043.21	1/2	877.23	1/2	711.24	1/2	545.26
3/4	3/4	3/4	1,866.50	3/4	1,702.56	3/4	1,537.44	3/4	1,371.73	3/4	1,205.74	3/4	1,039.76	3/4	873.77	3/4	707.79	3/4	541.80
10	10	10	1,863.60	10	1,699.12	10	1,534.00	10	1,368.27	10	1,202.28	10	1,036.30	10	870.31	10	704.33	10	538.34
1/4	1/4	1/4	1,860.32	1/4	1,695.68	1/4	1,530.56	1/4	1,364.81	1/4	1,198.82	1/4	1,032.84	1/4	866.85	1/4	700.87	1/4	534.88
1/2	1/2	1/2	1,857.04	1/2	1,692.24	1/2	1,527.12	1/2	1,361.35	1/2	1,195.36	1/2	1,029.39	1/2	863.39	1/2	697.41	1/2	531.42
3/4	3/4	3/4	1,853.76	3/4	1,688.80	3/4	1,523.68	3/4	1,357.89	3/4	1,191.91	3/4	1,025.93	3/4	859.94	3/4	693.96	3/4	527.97
11	11	11	1,850.48	11	1,685.36	11	1,520.24	11	1,354.43	11	1,188.45	11	1,022.47	11	856.48	11	690.50	11	524.51
1/4	1/4	1/4	1,847.04	1/4	1,681.92	1/4	1,516.80	1/4	1,350.97	1/4	1,184.99	1/4	1,019.01	1/4	853.02	1/4	687.04	1/4	521.03
1/2	1/2	1/2	1,843.60	1/2	1,678.48	1/2	1,513.36	1/2	1,347.51	1/2	1,181.53	1/2	1,015.55	1/2	849.56	1/2	683.58	1/2	517.54
3/4	3/4	3/4	1,840.16	3/4	1,675.04	3/4	1,509.92	3/4	1,344.06	3/4	1,178.08	3/4	1,012.09	3/4	846.11	3/4	680.13	3/4	514.06

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# BARGE "KIRBY 22400"

## 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	510.58	0	344.70	0	178.71	0	17.03	0		0		0		0		0		0	
1/4	507.15	1/4	341.24	1/4	175.25	1/4	15.05	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	503.71	1/2	337.78	1/2	171.79	1/2	13.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	500.28	3/4	334.33	3/4	168.34	3/4	11.10	3/4		3/4		3/4		3/4		3/4		3/4	
1	496.85	1	330.87	1	164.88	1	9.13	1		1		1		1		1		1	
1/4	493.39	1/4	327.41	1/4	161.42	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	489.93	1/2	323.95	1/2	157.96	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	486.48	3/4	320.49	3/4	154.51	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	483.02	2	317.03	2	151.05	2		2		2		2		2		2		2	
1/4	479.56	1/4	313.57	1/4	147.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	476.10	1/2	310.11	1/2	144.13	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	472.64	3/4	306.66	3/4	140.68	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	469.18	3	303.20	3	137.22	3		3		3		3		3		3		3	
1/4	465.72	1/4	299.74	1/4	133.76	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	462.26	1/2	296.28	1/2	130.30	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	458.81	3/4	292.83	3/4	126.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	455.35	4	289.37	4	123.39	4		4		4		4		4		4		4	
1/4	451.89	1/4	285.91	1/4	119.93	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	448.43	1/2	282.45	1/2	116.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	444.98	3/4	279.00	3/4	113.01	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	441.52	5	275.54	5	109.55	5		5		5		5		5		5		5	
1/4	438.06	1/4	269.58	1/4	106.09	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	434.60	1/2	263.62	1/2	102.63	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	431.15	3/4	257.67	3/4	99.18	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	427.69	6	251.71	6	95.72	6		6		6		6		6		6		6	
1/4	424.23	1/4	250.75	1/4	92.26	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	420.77	1/2	249.79	1/2	88.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	417.32	3/4	248.83	3/4	85.35	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	413.86	7	247.87	7	81.89	7		7		7		7		7		7		7	
1/4	410.40	1/4	244.41	1/4	78.43	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	406.94	1/2	240.95	1/2	74.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	403.49	3/4	237.50	3/4	71.52	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	400.03	8	234.04	8	68.06	8		8		8		8		8		8		8	
1/4	396.57	1/4	230.58	1/4	64.60	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393.11	1/2	227.12	1/2	61.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	389.65	3/4	223.67	3/4	57.69	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	386.19	9	220.21	9	54.23	9		9		9		9		9		9		9	
1/4	382.73	1/4	216.75	1/4	50.77	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	379.27	1/2	213.29	1/2	47.31	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	375.82	3/4	209.84	3/4	43.85	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	372.36	10	206.38	10	40.39	10		10		10		10		10		10		10	
1/4	368.90	1/4	202.92	1/4	37.18	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	365.44	1/2	199.46	1/2	33.97	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361.99	3/4	196.01	3/4	30.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	358.53	11	192.55	11	27.55	11		11		11		11		11		11		11	
1/4	355.07	1/4	189.09	1/4	24.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351.61	1/2	185.63	1/2	22.29	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	348.16	3/4	182.17	3/4	19.66	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

PRECISION MEASUREMENT  
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# BARGE "KIRBY 22400"

## 5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 3/4"

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	1,833.28	0	1,668.16	0	1,503.04	0	1,337.14	0	1,171.16	0	1,005.17	0	839.19	0	673.21		
1/4	1/4	1/4	1,829.84	1/4	1,664.72	1/4	1,499.60	1/4	1,333.68	1/4	1,167.70	1/4	1,001.71	1/4	835.73	1/4	669.75		
1/2	1/2	1/2	1,826.40	1/2	1,661.28	1/2	1,496.16	1/2	1,330.23	1/2	1,164.25	1/2	998.26	1/2	832.28	1/2	666.29		
3/4	3/4	3/4	1,822.96	3/4	1,657.84	3/4	1,492.72	3/4	1,326.77	3/4	1,160.79	3/4	994.80	3/4	828.82	3/4	662.83		
1	1	1	1,819.52	1	1,654.40	1	1,489.27	1	1,323.31	1	1,157.33	1	991.34	1	825.36	1	659.37		
1/4	1/4	1/4	1,816.08	1/4	1,650.96	1/4	1,485.82	1/4	1,319.85	1/4	1,153.87	1/4	987.88	1/4	821.90	1/4	655.91		
1/2	1/2	1/2	1,812.64	1/2	1,647.52	1/2	1,482.37	1/2	1,316.40	1/2	1,150.41	1/2	984.43	1/2	818.45	1/2	652.46		
3/4	3/4	3/4	1,809.20	3/4	1,644.08	3/4	1,478.92	3/4	1,312.94	3/4	1,146.95	3/4	980.97	3/4	814.99	3/4	649.00		
2	2	2	1,805.76	2	1,640.64	2	1,475.46	2	1,309.48	2	1,143.49	2	977.51	2	811.53	2	645.54		
1/4	1/4	1/4	1,802.32	1/4	1,637.20	1/4	1,472.00	1/4	1,306.02	1/4	1,140.03	1/4	974.05	1/4	808.07	1/4	642.08		
1/2	1/2	1,908.77	1,798.88	1/2	1,633.76	1/2	1,468.55	1/2	1,302.57	1/2	1,136.58	1/2	970.60	1/2	804.61	1/2	638.63		
3/4	3/4	1,908.57	1,795.44	3/4	1,630.32	3/4	1,465.09	3/4	1,299.11	3/4	1,133.12	3/4	967.14	3/4	801.15	3/4	635.17		
3	3	1,908.26	1,792.00	3	1,626.88	3	1,461.63	3	1,295.65	3	1,129.66	3	963.68	3	797.69	3	631.71		
1/4	1/4	1,907.95	1,788.56	1/4	1,623.44	1/4	1,458.17	1/4	1,292.19	1/4	1,126.20	1/4	960.22	1/4	794.23	1/4	628.25		
1/2	1/2	1,907.63	1,785.12	1/2	1,620.00	1/2	1,454.72	1/2	1,288.73	1/2	1,122.75	1/2	956.77	1/2	790.78	1/2	624.80		
3/4	3/4	1,907.32	1,781.68	3/4	1,616.56	3/4	1,451.26	3/4	1,285.27	3/4	1,119.29	3/4	953.31	3/4	787.32	3/4	621.34		
4	4	1,906.58	1,778.24	4	1,613.12	4	1,447.80	4	1,281.81	4	1,115.83	4	949.85	4	783.86	4	617.88		
1/4	1/4	1,905.84	1,774.80	1/4	1,609.68	1/4	1,444.34	1/4	1,278.35	1/4	1,112.37	1/4	946.39	1/4	780.40	1/4	614.42		
1/2	1/2	1,905.09	1,771.36	1/2	1,606.24	1/2	1,440.89	1/2	1,274.90	1/2	1,108.92	1/2	942.93	1/2	776.95	1/2	610.97		
3/4	3/4	1,904.35	1,767.92	3/4	1,602.80	3/4	1,437.43	3/4	1,271.44	3/4	1,105.46	3/4	939.47	3/4	773.49	3/4	607.51		
5	5	1,903.18	1,764.48	5	1,599.36	5	1,433.97	5	1,267.98	5	1,102.00	5	936.01	5	770.03	5	604.05		
1/4	1/4	1,902.00	1,761.04	1/4	1,595.92	1/4	1,430.51	1/4	1,264.52	1/4	1,098.54	1/4	932.55	1/4	766.57	1/4	600.59		
1/2	1/2	1,900.83	1,757.59	1/2	1,592.48	1/2	1,427.05	1/2	1,261.07	1/2	1,095.09	1/2	929.10	1/2	763.12	1/2	597.13		
3/4	3/4	1,899.65	1,754.15	3/4	1,589.04	3/4	1,423.59	3/4	1,257.61	3/4	1,091.63	3/4	925.64	3/4	759.66	3/4	593.67		
6	6	1,898.05	1,750.71	6	1,585.60	6	1,420.13	6	1,254.15	6	1,088.17	6	922.11	6	756.20	6	590.21		
1/4	1/4	1,896.44	1,747.28	1/4	1,582.16	1/4	1,416.67	1/4	1,250.69	1/4	1,084.71	1/4	918.57	1/4	752.74	1/4	586.75		
1/2	1/2	1,894.84	1,743.84	1/2	1,578.72	1/2	1,413.22	1/2	1,247.24	1/2	1,081.25	1/2	915.04	1/2	749.29	1/2	583.30		
3/4	3/4	1,893.23	1,740.40	3/4	1,575.28	3/4	1,409.76	3/4	1,243.78	3/4	1,077.79	3/4	911.51	3/4	745.83	3/4	579.84		
7	7	1,891.19	1,736.95	7	1,571.84	7	1,406.30	7	1,240.32	7	1,074.33	7	908.13	7	742.37	7	576.38		
1/4	1/4	1,889.16	1,733.50	1/4	1,568.40	1/4	1,402.84	1/4	1,236.86	1/4	1,070.87	1/4	904.74	1/4	738.91	1/4	572.92		
1/2	1/2	1,887.12	1,730.05	1/2	1,564.96	1/2	1,399.39	1/2	1,233.41	1/2	1,067.42	1/2	901.36	1/2	735.45	1/2	569.47		
3/4	3/4	1,885.08	1,726.60	3/4	1,561.52	3/4	1,395.93	3/4	1,229.95	3/4	1,063.96	3/4	897.98	3/4	731.99	3/4	566.01		
8	8	1,882.61	1,723.17	8	1,558.08	8	1,392.47	8	1,226.49	8	1,060.50	8	894.52	8	728.53	8	562.55		
1/4	1/4	1,880.14	1,719.74	1/4	1,554.64	1/4	1,389.01	1/4	1,223.03	1/4	1,057.04	1/4	891.06	1/4	725.07	1/4	559.09		
1/2	1/2	1,877.67	1,716.31	1/2	1,551.20	1/2	1,385.56	1/2	1,219.57	1/2	1,053.59	1/2	887.61	1/2	721.62	1/2	555.64		
3/4	3/4	1,875.20	1,712.88	3/4	1,547.76	3/4	1,382.10	3/4	1,216.11	3/4	1,050.13	3/4	884.15	3/4	718.16	3/4	552.18		
9	9	1,872.30	1,709.44	9	1,544.32	9	1,378.64	9	1,212.65	9	1,046.67	9	880.69	9	714.70	9	548.72		
1/4	1/4	1,869.40	1,706.00	1/4	1,540.88	1/4	1,375.18	1/4	1,209.19	1/4	1,043.21	1/4	877.23	1/4	711.24	1/4	545.26		
1/2	1/2	1,866.50	1,702.56	1/2	1,537.44	1/2	1,371.73	1/2	1,205.74	1/2	1,039.76	1/2	873.77	1/2	707.79	1/2	541.80		
3/4	3/4	1,863.60	1,699.12	3/4	1,534.00	3/4	1,368.27	3/4	1,202.28	3/4	1,036.30	3/4	870.31	3/4	704.33	3/4	538.34		
10	10	1,860.32	1,695.68	10	1,530.56	10	1,364.81	10	1,198.82	10	1,032.84	10	866.85	10	700.87	10	534.88		
1/4	1/4	1,857.04	1,692.24	1/4	1,527.12	1/4	1,361.35	1/4	1,195.36	1/4	1,029.39	1/4	863.39	1/4	697.41	1/4	531.42		
1/2	1/2	1,853.76	1,688.80	1/2	1,523.68	1/2	1,357.89	1/2	1,191.91	1/2	1,025.93	1/2	859.94	1/2	693.96	1/2	527.97		
3/4	3/4	1,850.48	1,685.36	3/4	1,520.24	3/4	1,354.43	3/4	1,188.45	3/4	1,022.47	3/4	856.48	3/4	690.50	3/4	524.51		
11	11	1,847.04	1,681.92	11	1,516.80	11	1,350.97	11	1,184.99	11	1,019.01	11	853.02	11	687.04	11	521.03		
1/4	1/4	1,843.60	1,678.48	1/4	1,513.36	1/4	1,347.51	1/4	1,181.53	1/4	1,015.55	1/4	849.56	1/4	683.58	1/4	517.54		
1/2	1/2	1,840.16	1,675.04	1/2	1,509.92	1/2	1,344.06	1/2	1,178.08	1/2	1,012.09	1/2	846.11	1/2	680.13	1/2	514.06		
3/4	3/4	1,836.72	1,671.60	3/4	1,506.48	3/4	1,340.60	3/4	1,174.62	3/4	1,008.63	3/4	842.65	3/4	676.67	3/4	510.58		

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 20' 00" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 22400"

**5 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-00 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	507.15	0	341.24	0	175.25	0	15.05	0		0		0		0		0		0	
1/4	503.71	1/4	337.78	1/4	171.79	1/4	13.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	500.28	1/2	334.33	1/2	168.34	1/2	11.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	496.85	3/4	330.87	3/4	164.88	3/4	9.13	3/4		3/4		3/4		3/4		3/4		3/4	
1	493.39	1	327.41	1	161.42	1		1		1		1		1		1		1	
1/4	489.93	1/4	323.95	1/4	157.96	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	486.48	1/2	320.49	1/2	154.51	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	483.02	3/4	317.03	3/4	151.05	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	479.56	2	313.57	2	147.59	2		2		2		2		2		2		2	
1/4	476.10	1/4	310.11	1/4	144.13	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	472.64	1/2	306.66	1/2	140.68	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	469.18	3/4	303.20	3/4	137.22	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	465.72	3	299.74	3	133.76	3		3		3		3		3		3		3	
1/4	462.26	1/4	296.28	1/4	130.30	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	458.81	1/2	292.83	1/2	126.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	455.35	3/4	289.37	3/4	123.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	451.89	4	285.91	4	119.93	4		4		4		4		4		4		4	
1/4	448.43	1/4	282.45	1/4	116.47	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	444.98	1/2	279.00	1/2	113.01	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	441.52	3/4	275.54	3/4	109.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	438.06	5	269.58	5	106.09	5		5		5		5		5		5		5	
1/4	434.60	1/4	263.62	1/4	102.63	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	431.15	1/2	257.67	1/2	99.18	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	427.69	3/4	251.71	3/4	95.72	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	424.23	6	250.75	6	92.26	6		6		6		6		6		6		6	
1/4	420.77	1/4	249.79	1/4	88.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	417.32	1/2	248.83	1/2	85.35	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	413.86	3/4	247.87	3/4	81.89	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	410.40	7	244.41	7	78.43	7		7		7		7		7		7		7	
1/4	406.94	1/4	240.95	1/4	74.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	403.49	1/2	237.50	1/2	71.52	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	400.03	3/4	234.04	3/4	68.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	396.57	8	230.58	8	64.60	8		8		8		8		8		8		8	
1/4	393.11	1/4	227.12	1/4	61.14	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	389.65	1/2	223.67	1/2	57.69	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	386.19	3/4	220.21	3/4	54.23	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	382.73	9	216.75	9	50.77	9		9		9		9		9		9		9	
1/4	379.27	1/4	213.29	1/4	47.31	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	375.82	1/2	209.84	1/2	43.85	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	372.36	3/4	206.38	3/4	40.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	368.90	10	202.92	10	37.18	10		10		10		10		10		10		10	
1/4	365.44	1/4	199.46	1/4	33.97	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	361.99	1/2	196.01	1/2	30.76	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	358.53	3/4	192.55	3/4	27.55	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	355.07	11	189.09	11	24.92	11		11		11		11		11		11		11	
1/4	351.61	1/4	185.63	1/4	22.29	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	348.16	1/2	182.17	1/2	19.66	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	344.70	3/4	178.71	3/4	17.03	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

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



# BARGE "KIRBY 22400"

## 6 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	1,816.10	0	1,652.61	0	1,489.13	0	1,325.13	0	1,161.07	0	997.00	0	832.94	0	668.88
1/4		1/4		1/4	1,812.70	1/4	1,649.21	1/4	1,485.72	1/4	1,321.71	1/4	1,157.65	1/4	993.58	1/4	829.52	1/4	665.46
1/2		1/2		1/2	1,809.29	1/2	1,645.80	1/2	1,482.32	1/2	1,318.30	1/2	1,154.24	1/2	990.16	1/2	826.10	1/2	662.04
3/4		3/4		3/4	1,805.89	3/4	1,642.40	3/4	1,478.91	3/4	1,314.88	3/4	1,150.82	3/4	986.75	3/4	822.69	3/4	658.62
1	1	1	1	1	1,802.48	1	1,638.99	1	1,475.50	1	1,311.46	1	1,147.40	1	983.33	1	819.27	1	655.20
1/4		1/4		1/4	1,799.07	1/4	1,635.59	1/4	1,472.09	1/4	1,308.04	1/4	1,143.98	1/4	979.91	1/4	815.85	1/4	651.78
1/2		1/2		1/2	1,795.67	1/2	1,632.18	1/2	1,468.68	1/2	1,304.63	1/2	1,140.56	1/2	976.49	1/2	812.43	1/2	648.36
3/4		3/4		3/4	1,792.26	3/4	1,628.78	3/4	1,465.26	3/4	1,301.21	3/4	1,137.14	3/4	973.08	3/4	809.02	3/4	644.95
2	2	2	2	2	1,788.85	2	1,625.37	2	1,461.85	2	1,297.79	2	1,133.72	2	969.66	2	805.60	2	641.53
1/4		1/4		1/4	1,785.45	1/4	1,621.96	1/4	1,458.43	1/4	1,294.37	1/4	1,130.30	1/4	966.24	1/4	802.18	1/4	638.11
1/2		1/2		1/2	1,782.04	1/2	1,618.56	1/2	1,455.02	1/2	1,290.96	1/2	1,126.89	1/2	962.82	1/2	798.76	1/2	634.69
3/4		3/4	1,887.40	3/4	1,778.64	3/4	1,615.15	3/4	1,451.60	3/4	1,287.54	3/4	1,123.47	3/4	959.41	3/4	795.34	3/4	631.28
3	3	3	3	3	1,775.23	3	1,611.74	3	1,448.18	3	1,284.12	3	1,120.05	3	955.99	3	791.92	3	627.86
1/4		1/4	1,886.90	1/4	1,771.83	1/4	1,608.34	1/4	1,444.76	1/4	1,280.70	1/4	1,116.63	1/4	952.57	1/4	788.50	1/4	624.44
1/2		1/2	1,886.59	1/2	1,768.42	1/2	1,604.93	1/2	1,441.35	1/2	1,277.28	1/2	1,113.22	1/2	949.15	1/2	785.08	1/2	621.02
3/4		3/4	1,886.29	3/4	1,765.02	3/4	1,601.53	3/4	1,437.93	3/4	1,273.86	3/4	1,109.80	3/4	945.74	3/4	781.67	3/4	617.61
4	4	4	4	4	1,761.61	4	1,598.12	4	1,434.51	4	1,270.44	4	1,106.38	4	942.32	4	778.25	4	614.19
1/4		1/4	1,885.25	1/4	1,758.20	1/4	1,594.71	1/4	1,431.09	1/4	1,267.02	1/4	1,102.96	1/4	938.90	1/4	774.83	1/4	610.77
1/2		1/2	1,884.52	1/2	1,754.80	1/2	1,591.31	1/2	1,427.68	1/2	1,263.61	1/2	1,099.55	1/2	935.48	1/2	771.41	1/2	607.35
3/4		3/4	1,883.78	3/4	1,751.39	3/4	1,587.90	3/4	1,424.26	3/4	1,260.19	3/4	1,096.13	3/4	932.06	3/4	768.00	3/4	603.94
5	5	5	5	5	1,747.98	5	1,584.49	5	1,420.84	5	1,256.77	5	1,092.71	5	928.64	5	764.58	5	600.52
1/4		1/4	1,881.89	1/4	1,744.58	1/4	1,581.09	1/4	1,417.42	1/4	1,253.35	1/4	1,089.29	1/4	925.22	1/4	761.16	1/4	597.10
1/2		1/2	1,880.73	1/2	1,741.17	1/2	1,577.68	1/2	1,414.01	1/2	1,249.94	1/2	1,085.88	1/2	921.80	1/2	757.74	1/2	593.68
3/4		3/4	1,879.56	3/4	1,737.77	3/4	1,574.28	3/4	1,410.59	3/4	1,246.52	3/4	1,082.46	3/4	918.39	3/4	754.33	3/4	590.26
6	6	6	6	6	1,734.36	6	1,570.87	6	1,407.17	6	1,243.10	6	1,079.04	6	914.97	6	750.91	6	586.84
1/4		1/4	1,876.81	1/4	1,730.95	1/4	1,567.47	1/4	1,403.75	1/4	1,239.68	1/4	1,075.62	1/4	911.55	1/4	747.49	1/4	583.42
1/2		1/2	1,875.23	1/2	1,727.55	1/2	1,564.06	1/2	1,400.33	1/2	1,236.27	1/2	1,072.20	1/2	908.13	1/2	744.07	1/2	580.00
3/4		3/4	1,873.64	3/4	1,724.14	3/4	1,560.66	3/4	1,396.91	3/4	1,232.85	3/4	1,068.78	3/4	904.72	3/4	740.66	3/4	576.59
7	7	7	7	7	1,720.73	7	1,557.25	7	1,393.49	7	1,229.43	7	1,065.36	7	901.30	7	737.24	7	573.17
1/4		1/4	1,870.03	1/4	1,717.33	1/4	1,553.84	1/4	1,390.07	1/4	1,226.01	1/4	1,061.94	1/4	897.88	1/4	733.82	1/4	569.75
1/2		1/2	1,868.02	1/2	1,713.92	1/2	1,550.44	1/2	1,386.66	1/2	1,222.60	1/2	1,058.53	1/2	894.46	1/2	730.40	1/2	566.33
3/4		3/4	1,866.00	3/4	1,710.52	3/4	1,547.03	3/4	1,383.24	3/4	1,219.18	3/4	1,055.11	3/4	891.05	3/4	726.98	3/4	562.92
8	8	8	8	8	1,707.11	8	1,543.62	8	1,379.82	8	1,215.76	8	1,051.69	8	887.63	8	723.56	8	559.50
1/4		1/4	1,861.54	1/4	1,703.71	1/4	1,540.22	1/4	1,376.40	1/4	1,212.34	1/4	1,048.27	1/4	884.21	1/4	720.14	1/4	556.08
1/2		1/2	1,859.09	1/2	1,700.30	1/2	1,536.81	1/2	1,372.99	1/2	1,208.92	1/2	1,044.86	1/2	880.79	1/2	716.72	1/2	552.66
3/4		3/4	1,856.65	3/4	1,696.90	3/4	1,533.41	3/4	1,369.57	3/4	1,205.50	3/4	1,041.44	3/4	877.38	3/4	713.31	3/4	549.25
9	9	9	9	9	1,693.49	9	1,530.00	9	1,366.15	9	1,202.08	9	1,038.02	9	873.96	9	709.89	9	545.83
1/4		1/4	1,851.33	1/4	1,690.08	1/4	1,526.59	1/4	1,362.73	1/4	1,198.66	1/4	1,034.60	1/4	870.54	1/4	706.47	1/4	542.41
1/2		1/2	1,848.46	1/2	1,686.68	1/2	1,523.19	1/2	1,359.32	1/2	1,195.25	1/2	1,031.19	1/2	867.12	1/2	703.05	1/2	538.99
3/4		3/4	1,845.58	3/4	1,683.27	3/4	1,519.78	3/4	1,355.90	3/4	1,191.83	3/4	1,027.77	3/4	863.70	3/4	699.89	3/4	535.58
10	10	10	10	10	1,679.86	10	1,516.37	10	1,352.48	10	1,188.41	10	1,024.35	10	860.28	10	696.22	10	532.16
1/4		1/4	1,839.47	1/4	1,676.46	1/4	1,512.97	1/4	1,349.06	1/4	1,184.99	1/4	1,020.93	1/4	856.86	1/4	692.80	1/4	528.74
1/2		1/2	1,836.22	1/2	1,673.05	1/2	1,509.56	1/2	1,345.65	1/2	1,181.58	1/2	1,017.52	1/2	853.44	1/2	689.38	1/2	525.32
3/4		3/4	1,832.98	3/4	1,669.65	3/4	1,506.16	3/4	1,342.23	3/4	1,178.16	3/4	1,014.10	3/4	850.03	3/4	685.97	3/4	521.91
11	11	11	11	11	1,666.24	11	1,502.75	11	1,338.81	11	1,174.74	11	1,010.68	11	846.61	11	682.55	11	518.49
1/4		1/4	1,826.32	1/4	1,662.83	1/4	1,499.35	1/4	1,335.39	1/4	1,171.32	1/4	1,007.26	1/4	843.19	1/4	679.13	1/4	515.07
1/2		1/2	1,822.92	1/2	1,659.43	1/2	1,495.94	1/2	1,331.97	1/2	1,167.91	1/2	1,003.84	1/2	839.77	1/2	675.71	1/2	511.65
3/4		3/4	1,819.51	3/4	1,656.02	3/4	1,492.54	3/4	1,328.55	3/4	1,164.49	3/4	1,000.42	3/4	836.36	3/4	672.30	3/4	508.23

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 23' 03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "KIRBY 22400"

## 6 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 13'-01"

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	504.81	0	340.75	0	176.69	0	16.88	0		0		0		0		0		0	
1/4	501.39	1/4	337.33	1/4	173.27	1/4	14.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	497.97	1/2	333.91	1/2	169.85	1/2	12.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	494.56	3/4	330.50	3/4	166.43	3/4	11.01	3/4		3/4		3/4		3/4		3/4		3/4	
1	491.14	1	327.08	1	163.01	1	9.06	1		1		1		1		1		1	
1/4	487.72	1/4	323.66	1/4	159.59	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	484.30	1/2	320.24	1/2	156.17	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	480.89	3/4	316.83	3/4	152.76	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
2	477.47	2	313.41	2	149.34	2		2		2		2		2		2		2	
1/4	474.05	1/4	309.99	1/4	145.92	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	470.63	1/2	306.57	1/2	142.50	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	467.22	3/4	303.15	3/4	139.09	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
3	463.80	3	299.73	3	135.67	3		3		3		3		3		3		3	
1/4	460.38	1/4	296.31	1/4	132.25	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	456.96	1/2	292.89	1/2	128.83	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	453.55	3/4	289.48	3/4	125.42	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
4	450.13	4	286.06	4	122.00	4		4		4		4		4		4		4	
1/4	446.71	1/4	282.64	1/4	118.58	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	443.29	1/2	279.22	1/2	115.16	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	439.87	3/4	275.81	3/4	111.75	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	436.45	5	272.39	5	108.33	5		5		5		5		5		5		5	
1/4	433.03	1/4	268.97	1/4	104.91	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	429.61	1/2	265.55	1/2	101.49	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	426.20	3/4	262.14	3/4	98.07	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	422.78	6	258.72	6	94.65	6		6		6		6		6		6		6	
1/4	419.36	1/4	255.30	1/4	91.23	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	415.94	1/2	251.88	1/2	87.81	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	412.53	3/4	248.47	3/4	84.40	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	409.11	7	245.05	7	80.98	7		7		7		7		7		7		7	
1/4	405.69	1/4	241.63	1/4	77.56	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	402.27	1/2	238.21	1/2	74.14	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	398.86	3/4	234.79	3/4	70.73	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	395.44	8	231.37	8	67.31	8		8		8		8		8		8		8	
1/4	392.02	1/4	227.95	1/4	63.89	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	388.60	1/2	224.53	1/2	60.47	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	385.19	3/4	221.12	3/4	57.06	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	381.77	9	217.70	9	53.64	9		9		9		9		9		9		9	
1/4	378.35	1/4	214.28	1/4	50.22	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	374.93	1/2	210.86	1/2	46.80	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	371.51	3/4	207.45	3/4	43.39	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	368.09	10	204.03	10	39.97	10		10		10		10		10		10		10	
1/4	364.67	1/4	200.61	1/4	36.80	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	361.25	1/2	197.19	1/2	33.64	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	357.84	3/4	193.78	3/4	30.47	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	354.42	11	190.36	11	27.31	11		11		11		11		11		11		11	
1/4	351.00	1/4	186.94	1/4	24.70	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	347.58	1/2	183.52	1/2	22.09	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	344.17	3/4	180.11	3/4	19.49	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

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



# BARGE "KIRBY 22400"

## 6 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 13'-00 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	1,805.89	0	1,642.40	0	1,478.91	0	1,314.88	0	1,150.82	0	986.75	0	822.69	0	658.62		
1/4	1/4	1/4	1,802.48	1/4	1,638.99	1/4	1,475.50	1/4	1,311.46	1/4	1,147.40	1/4	983.33	1/4	819.27	1/4	655.20		
1/2	1/2	1/2	1,799.07	1/2	1,635.59	1/2	1,472.09	1/2	1,308.04	1/2	1,143.98	1/2	979.91	1/2	815.85	1/2	651.78		
3/4	3/4	3/4	1,795.67	3/4	1,632.18	3/4	1,468.68	3/4	1,304.63	3/4	1,140.56	3/4	976.49	3/4	812.43	3/4	648.36		
1	1	1	1,792.26	1	1,628.78	1	1,465.26	1	1,301.21	1	1,137.14	1	973.08	1	809.02	1	644.95		
1/4	1/4	1/4	1,788.85	1/4	1,625.37	1/4	1,461.85	1/4	1,297.79	1/4	1,133.72	1/4	969.66	1/4	805.60	1/4	641.53		
1/2	1/2	1/2	1,785.45	1/2	1,621.96	1/2	1,458.43	1/2	1,294.37	1/2	1,130.30	1/2	966.24	1/2	802.18	1/2	638.11		
3/4	3/4	3/4	1,782.04	3/4	1,618.56	3/4	1,455.02	3/4	1,290.96	3/4	1,126.89	3/4	962.82	3/4	798.76	3/4	634.69		
2	2	2	1,887.40	2	1,778.64	2	1,615.15	2	1,451.60	2	1,287.54	2	1,123.47	2	959.41	2	795.34	2	631.28
1/4	1/4	1/4	1,887.20	1/4	1,775.23	1/4	1,611.74	1/4	1,448.18	1/4	1,284.12	1/4	1,120.05	1/4	955.99	1/4	791.92	1/4	627.86
1/2	1/2	1/2	1,886.90	1/2	1,771.83	1/2	1,608.34	1/2	1,444.76	1/2	1,280.70	1/2	1,116.63	1/2	952.57	1/2	788.50	1/2	624.44
3/4	3/4	3/4	1,886.59	3/4	1,768.42	3/4	1,604.93	3/4	1,441.35	3/4	1,277.28	3/4	1,113.22	3/4	949.15	3/4	785.08	3/4	621.02
3	3	3	1,886.29	3	1,765.02	3	1,601.53	3	1,437.93	3	1,273.86	3	1,109.80	3	945.74	3	781.67	3	617.61
1/4	1/4	1/4	1,885.98	1/4	1,761.61	1/4	1,598.12	1/4	1,434.51	1/4	1,270.44	1/4	1,106.38	1/4	942.32	1/4	778.25	1/4	614.19
1/2	1/2	1/2	1,885.25	1/2	1,758.20	1/2	1,594.71	1/2	1,431.09	1/2	1,267.02	1/2	1,102.96	1/2	938.90	1/2	774.83	1/2	610.77
3/4	3/4	3/4	1,884.52	3/4	1,754.80	3/4	1,591.31	3/4	1,427.68	3/4	1,263.61	3/4	1,099.55	3/4	935.48	3/4	771.41	3/4	607.35
4	4	4	1,883.78	4	1,751.39	4	1,587.90	4	1,424.26	4	1,260.19	4	1,096.13	4	932.06	4	768.00	4	603.94
1/4	1/4	1/4	1,883.05	1/4	1,747.98	1/4	1,584.49	1/4	1,420.84	1/4	1,256.77	1/4	1,092.71	1/4	928.64	1/4	764.58	1/4	600.52
1/2	1/2	1/2	1,881.89	1/2	1,744.58	1/2	1,581.09	1/2	1,417.42	1/2	1,253.35	1/2	1,089.29	1/2	925.22	1/2	761.16	1/2	597.10
3/4	3/4	3/4	1,880.73	3/4	1,741.17	3/4	1,577.68	3/4	1,414.01	3/4	1,249.94	3/4	1,085.88	3/4	921.80	3/4	757.74	3/4	593.68
5	5	5	1,879.56	5	1,737.77	5	1,574.28	5	1,410.59	5	1,246.52	5	1,082.46	5	918.39	5	754.33	5	590.26
1/4	1/4	1/4	1,878.40	1/4	1,734.36	1/4	1,570.87	1/4	1,407.17	1/4	1,243.10	1/4	1,079.04	1/4	914.97	1/4	750.91	1/4	586.84
1/2	1/2	1/2	1,876.81	1/2	1,730.95	1/2	1,567.47	1/2	1,403.75	1/2	1,239.68	1/2	1,075.62	1/2	911.55	1/2	747.49	1/2	583.42
3/4	3/4	3/4	1,875.23	3/4	1,727.55	3/4	1,564.06	3/4	1,400.33	3/4	1,236.27	3/4	1,072.20	3/4	908.13	3/4	744.07	3/4	580.00
6	6	6	1,873.64	6	1,724.14	6	1,560.66	6	1,396.91	6	1,232.85	6	1,068.78	6	904.72	6	740.66	6	576.59
1/4	1/4	1/4	1,872.05	1/4	1,720.73	1/4	1,557.25	1/4	1,393.49	1/4	1,229.43	1/4	1,065.36	1/4	901.30	1/4	737.24	1/4	573.17
1/2	1/2	1/2	1,870.03	1/2	1,717.33	1/2	1,553.84	1/2	1,390.07	1/2	1,226.01	1/2	1,061.94	1/2	897.88	1/2	733.82	1/2	569.75
3/4	3/4	3/4	1,868.02	3/4	1,713.92	3/4	1,550.44	3/4	1,386.66	3/4	1,222.60	3/4	1,058.53	3/4	894.46	3/4	730.40	3/4	566.33
7	7	7	1,866.00	7	1,710.52	7	1,547.03	7	1,383.24	7	1,219.18	7	1,055.11	7	891.05	7	726.98	7	562.92
1/4	1/4	1/4	1,863.98	1/4	1,707.11	1/4	1,543.62	1/4	1,379.82	1/4	1,215.76	1/4	1,051.69	1/4	887.63	1/4	723.56	1/4	559.50
1/2	1/2	1/2	1,861.54	1/2	1,703.71	1/2	1,540.22	1/2	1,376.40	1/2	1,212.34	1/2	1,048.27	1/2	884.21	1/2	720.14	1/2	556.08
3/4	3/4	3/4	1,859.09	3/4	1,700.30	3/4	1,536.81	3/4	1,372.99	3/4	1,208.92	3/4	1,044.86	3/4	880.79	3/4	716.72	3/4	552.66
8	8	8	1,856.65	8	1,696.90	8	1,533.41	8	1,369.57	8	1,205.50	8	1,041.44	8	877.38	8	713.31	8	549.25
1/4	1/4	1/4	1,854.20	1/4	1,693.49	1/4	1,530.00	1/4	1,366.15	1/4	1,202.08	1/4	1,038.02	1/4	873.96	1/4	709.89	1/4	545.83
1/2	1/2	1/2	1,851.33	1/2	1,690.08	1/2	1,526.59	1/2	1,362.73	1/2	1,198.66	1/2	1,034.60	1/2	870.54	1/2	706.22	1/2	542.41
3/4	3/4	3/4	1,848.46	3/4	1,686.68	3/4	1,523.19	3/4	1,359.32	3/4	1,195.25	3/4	1,031.19	3/4	867.12	3/4	702.55	3/4	538.99
9	9	9	1,845.58	9	1,683.27	9	1,519.78	9	1,355.90	9	1,191.83	9	1,027.77	9	863.70	9	698.89	9	535.58
1/4	1/4	1/4	1,842.71	1/4	1,679.86	1/4	1,516.37	1/4	1,352.48	1/4	1,188.41	1/4	1,024.35	1/4	860.28	1/4	695.22	1/4	532.16
1/2	1/2	1/2	1,839.47	1/2	1,676.46	1/2	1,512.97	1/2	1,349.06	1/2	1,184.99	1/2	1,020.93	1/2	856.86	1/2	692.05	1/2	528.74
3/4	3/4	3/4	1,836.22	3/4	1,673.05	3/4	1,509.56	3/4	1,345.65	3/4	1,181.58	3/4	1,017.52	3/4	853.44	3/4	688.88	3/4	525.32
10	10	10	1,832.98	10	1,669.65	10	1,506.16	10	1,342.23	10	1,178.16	10	1,014.10	10	850.03	10	685.72	10	521.91
1/4	1/4	1/4	1,829.73	1/4	1,666.24	1/4	1,502.75	1/4	1,338.81	1/4	1,174.74	1/4	1,010.68	1/4	846.61	1/4	682.55	1/4	518.49
1/2	1/2	1/2	1,826.32	1/2	1,662.83	1/2	1,499.35	1/2	1,335.39	1/2	1,171.32	1/2	1,007.26	1/2	843.19	1/2	679.13	1/2	515.07
3/4	3/4	3/4	1,822.92	3/4	1,659.43	3/4	1,495.94	3/4	1,331.97	3/4	1,167.91	3/4	1,003.84	3/4	839.77	3/4	675.71	3/4	511.65
11	11	11	1,819.51	11	1,656.02	11	1,492.54	11	1,328.55	11	1,164.49	11	1,000.42	11	836.36	11	672.30	11	508.23
1/4	1/4	1/4	1,816.10	1/4	1,652.61	1/4	1,489.13	1/4	1,325.13	1/4	1,161.07	1/4	997.00	1/4	832.94	1/4	668.88	1/4	504.81
1/2	1/2	1/2	1,812.70	1/2	1,649.21	1/2	1,485.72	1/2	1,321.71	1/2	1,157.65	1/2	993.58	1/2	829.52	1/2	665.46	1/2	501.39
3/4	3/4	3/4	1,809.29	3/4	1,645.80	3/4	1,482.32	3/4	1,318.30	3/4	1,154.24	3/4	990.16	3/4	826.10	3/4	662.04	3/4	497.97

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 TO "TOP LIP OF MMC VALVE"  
 GAUGE POINT: (MMC) LOCATED 12'-03" OFF CENTERLINE AND 23' 03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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





# BARGE "KIRBY 22400"

**6 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 13'-00 1/4"**

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	494.56	0	330.50	0	166.43	0	11.01	0				0			0				0
1/4	491.14	1/4	327.08	1/4	163.01	1/4	9.06	1/4				1/4			1/4				1/4
1/2	487.72	1/2	323.66	1/2	159.59	1/2		1/2				1/2			1/2				1/2
3/4	484.30	3/4	320.24	3/4	156.17	3/4		3/4				3/4			3/4				3/4
1	480.89	1	316.83	1	152.76	1		1				1			1				1
1/4	477.47	1/4	313.41	1/4	149.34	1/4		1/4				1/4			1/4				1/4
1/2	474.05	1/2	309.99	1/2	145.92	1/2		1/2				1/2			1/2				1/2
3/4	470.63	3/4	306.57	3/4	142.50	3/4		3/4				3/4			3/4				3/4
2	467.22	2	303.15	2	139.09	2		2				2			2				2
1/4	463.80	1/4	299.73	1/4	135.67	1/4		1/4				1/4			1/4				1/4
1/2	460.38	1/2	296.31	1/2	132.25	1/2		1/2				1/2			1/2				1/2
3/4	456.96	3/4	292.89	3/4	128.83	3/4		3/4				3/4			3/4				3/4
3	453.55	3	289.48	3	125.42	3		3				3			3				3
1/4	450.13	1/4	286.06	1/4	122.00	1/4		1/4				1/4			1/4				1/4
1/2	446.71	1/2	282.64	1/2	118.58	1/2		1/2				1/2			1/2				1/2
3/4	443.29	3/4	279.22	3/4	115.16	3/4		3/4				3/4			3/4				3/4
4	439.87	4	275.81	4	111.75	4		4				4			4				4
1/4	436.45	1/4	272.39	1/4	108.33	1/4		1/4				1/4			1/4				1/4
1/2	433.03	1/2	268.97	1/2	104.91	1/2		1/2				1/2			1/2				1/2
3/4	429.61	3/4	265.55	3/4	101.49	3/4		3/4				3/4			3/4				3/4
5	426.20	5	262.14	5	98.07	5		5				5			5				5
1/4	422.78	1/4	258.72	1/4	94.65	1/4		1/4				1/4			1/4				1/4
1/2	419.36	1/2	255.30	1/2	91.23	1/2		1/2				1/2			1/2				1/2
3/4	415.94	3/4	251.88	3/4	87.81	3/4		3/4				3/4			3/4				3/4
6	412.53	6	248.47	6	84.40	6		6				6			6				6
1/4	409.11	1/4	245.05	1/4	80.98	1/4		1/4				1/4			1/4				1/4
1/2	405.69	1/2	241.63	1/2	77.56	1/2		1/2				1/2			1/2				1/2
3/4	402.27	3/4	238.21	3/4	74.14	3/4		3/4				3/4			3/4				3/4
7	398.86	7	234.79	7	70.73	7		7				7			7				7
1/4	395.44	1/4	231.37	1/4	67.31	1/4		1/4				1/4			1/4				1/4
1/2	392.02	1/2	227.95	1/2	63.89	1/2		1/2				1/2			1/2				1/2
3/4	388.60	3/4	224.53	3/4	60.47	3/4		3/4				3/4			3/4				3/4
8	385.19	8	221.12	8	57.06	8		8				8			8				8
1/4	381.77	1/4	217.70	1/4	53.64	1/4		1/4				1/4			1/4				1/4
1/2	378.35	1/2	214.28	1/2	50.22	1/2		1/2				1/2			1/2				1/2
3/4	374.93	3/4	210.86	3/4	46.80	3/4		3/4				3/4			3/4				3/4
9	371.51	9	207.45	9	43.39	9		9				9			9				9
1/4	368.09	1/4	204.03	1/4	39.97	1/4		1/4				1/4			1/4				1/4
1/2	364.67	1/2	200.61	1/2	36.80	1/2		1/2				1/2			1/2				1/2
3/4	361.25	3/4	197.19	3/4	33.64	3/4		3/4				3/4			3/4				3/4
10	357.84	10	193.78	10	30.47	10		10				10			10				10
1/4	354.42	1/4	190.36	1/4	27.31	1/4		1/4				1/4			1/4				1/4
1/2	351.00	1/2	186.94	1/2	24.70	1/2		1/2				1/2			1/2				1/2
3/4	347.58	3/4	183.52	3/4	22.09	3/4		3/4				3/4			3/4				3/4
11	344.17	11	180.11	11	19.49	11		11				11			11				11
1/4	340.75	1/4	176.69	1/4	16.88	1/4		1/4				1/4			1/4				1/4
1/2	337.33	1/2	173.27	1/2	14.92	1/2		1/2				1/2			1/2				1/2
3/4	333.91	3/4	169.85	3/4	12.97	3/4		3/4				3/4			3/4				3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/16/2004 INST  
RECALCULATED: 08/28/2019 JS  
REPRINTED: 08/28/2019 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2019

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