



# BARGE "KAYO"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 265-00"

April 7, 2017

PRECISION MEASUREMENT  
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# BARGE "KAYO"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	3,132.21	0	2,912.11	0	2,671.47	0	2,430.21	0	2,188.95	0	1,947.70
1/4		1/4		1/4		1/4		1/4	3,129.53	1/4	2,907.10	1/4	2,666.44	1/4	2,425.19	1/4	2,183.93	1/4	1,942.67
1/2		1/2		1/2		1/2		1/2	3,126.38	1/2	2,902.09	1/2	2,661.42	1/2	2,420.16	1/2	2,178.90	1/2	1,937.64
3/4		3/4		3/4		3/4		3/4	3,123.22	3/4	2,897.08	3/4	2,656.39	3/4	2,415.13	3/4	2,173.88	3/4	1,932.60
1		1		1		1		1	3,120.06	1	2,892.07	1	2,651.36	1	2,410.11	1	2,168.85	1	1,927.57
1/4		1/4		1/4		1/4		1/4	3,116.90	1/4	2,887.06	1/4	2,646.34	1/4	2,405.08	1/4	2,163.82	1/4	1,922.53
1/2		1/2		1/2		1/2		1/2	3,113.26	1/2	2,882.04	1/2	2,641.31	1/2	2,400.05	1/2	2,158.80	1/2	1,917.51
3/4		3/4		3/4		3/4		3/4	3,109.63	3/4	2,877.03	3/4	2,636.29	3/4	2,395.03	3/4	2,153.77	3/4	1,912.48
2		2		2		2		2	3,105.99	2	2,872.02	2	2,631.26	2	2,390.00	2	2,148.74	2	1,907.45
1/4		1/4		1/4		1/4		1/4	3,102.35	1/4	2,867.01	1/4	2,626.23	1/4	2,384.98	1/4	2,143.72	1/4	1,902.42
1/2		1/2		1/2		1/2		1/2	3,098.24	1/2	2,862.00	1/2	2,621.21	1/2	2,379.95	1/2	2,138.69	1/2	1,897.39
3/4		3/4		3/4		3/4		3/4	3,094.12	3/4	2,856.99	3/4	2,616.18	3/4	2,374.92	3/4	2,133.67	3/4	1,892.36
3		3		3		3		3	3,090.01	3	2,851.98	3	2,611.15	3	2,369.90	3	2,128.64	3	1,887.33
1/4		1/4		1/4		1/4		1/4	3,085.89	1/4	2,846.97	1/4	2,606.13	1/4	2,364.87	1/4	2,123.61	1/4	1,882.31
1/2		1/2		1/2		1/2		1/2	3,081.30	1/2	2,841.96	1/2	2,601.10	1/2	2,359.84	1/2	2,118.59	1/2	1,877.28
3/4		3/4		3/4		3/4		3/4	3,076.70	3/4	2,836.94	3/4	2,596.08	3/4	2,354.82	3/4	2,113.56	3/4	1,872.25
4		4		4		4		4	3,072.11	4	2,831.93	4	2,591.05	4	2,349.79	4	2,108.53	4	1,867.22
1/4		1/4		1/4		1/4		1/4	3,067.51	1/4	2,826.92	1/4	2,586.02	1/4	2,344.77	1/4	2,103.51	1/4	1,862.19
1/2		1/2		1/2		1/2		1/2	3,062.50	1/2	2,821.91	1/2	2,581.00	1/2	2,339.74	1/2	2,098.48	1/2	1,857.16
3/4		3/4		3/4		3/4		3/4	3,057.48	3/4	2,816.90	3/4	2,575.97	3/4	2,334.71	3/4	2,093.46	3/4	1,852.13
5		5		5		5		5	3,052.47	5	2,811.89	5	2,570.94	5	2,329.69	5	2,088.43	5	1,847.11
1/4		1/4		1/4		1/4		1/4	3,047.46	1/4	2,806.88	1/4	2,565.92	1/4	2,324.66	1/4	2,083.40	1/4	1,842.08
1/2		1/2		1/2		1/2		1/2	3,042.44	1/2	2,801.87	1/2	2,560.89	1/2	2,319.63	1/2	2,078.38	1/2	1,837.05
3/4		3/4		3/4		3/4		3/4	3,037.43	3/4	2,796.86	3/4	2,555.87	3/4	2,314.61	3/4	2,073.35	3/4	1,832.02
6		6		6		6		6	3,032.42	6	2,791.84	6	2,550.84	6	2,309.58	6	2,068.32	6	1,826.99
1/4		1/4		1/4		1/4		1/4	3,027.40	1/4	2,786.83	1/4	2,545.81	1/4	2,304.56	1/4	2,063.30	1/4	1,821.96
1/2		1/2		1/2		1/2		1/2	3,022.39	1/2	2,781.82	1/2	2,540.79	1/2	2,299.53	1/2	2,058.27	1/2	1,816.93
3/4		3/4		3/4		3/4		3/4	3,017.38	3/4	2,776.81	3/4	2,535.76	3/4	2,294.50	3/4	2,053.25	3/4	1,811.91
7		7		7		7		7	3,012.36	7	2,771.80	7	2,530.74	7	2,289.48	7	2,048.22	7	1,806.88
1/4		1/4		1/4		1/4		1/4	3,007.35	1/4	2,766.79	1/4	2,525.71	1/4	2,284.45	1/4	2,043.19	1/4	1,801.85
1/2		1/2		1/2		1/2		1/2	3,002.33	1/2	2,761.78	1/2	2,520.68	1/2	2,279.43	1/2	2,038.17	1/2	1,796.82
3/4		3/4		3/4		3/4		3/4	2,997.32	3/4	2,756.77	3/4	2,515.66	3/4	2,274.40	3/4	2,033.14	3/4	1,791.79
8		8		8		8		8	2,992.31	8	2,751.76	8	2,510.63	8	2,269.37	8	2,028.12	8	1,786.76
1/4		1/4		1/4		1/4		1/4	2,987.29	1/4	2,746.74	1/4	2,505.60	1/4	2,264.35	1/4	2,023.09	1/4	1,781.73
1/2		1/2		1/2		1/2		1/2	2,982.28	1/2	2,741.73	1/2	2,500.58	1/2	2,259.32	1/2	2,018.06	1/2	1,776.71
3/4		3/4		3/4		3/4		3/4	2,977.27	3/4	2,736.72	3/4	2,495.55	3/4	2,254.29	3/4	2,013.04	3/4	1,771.68
9		9		9		9		9	2,972.25	9	2,731.71	9	2,490.53	9	2,249.27	9	2,008.01	9	1,766.65
1/4		1/4		1/4		1/4		1/4	2,967.24	1/4	2,726.70	1/4	2,485.50	1/4	2,244.24	1/4	2,002.98	1/4	1,761.62
1/2		1/2		1/2		1/2		1/2	2,962.23	1/2	2,721.69	1/2	2,480.47	1/2	2,239.22	1/2	1,997.96	1/2	1,756.59
3/4		3/4		3/4		3/4		3/4	2,957.21	3/4	2,716.68	3/4	2,475.45	3/4	2,234.19	3/4	1,992.93	3/4	1,751.56
10		10		10		10		10	2,952.20	10	2,711.66	10	2,470.42	10	2,229.16	10	1,987.91	10	1,746.53
1/4		1/4		1/4		1/4		1/4	2,947.19	1/4	2,706.65	1/4	2,465.39	1/4	2,224.14	1/4	1,982.88	1/4	1,741.51
1/2		1/2		1/2		1/2		1/2	2,942.18	1/2	2,701.63	1/2	2,460.37	1/2	2,219.11	1/2	1,977.85	1/2	1,736.48
3/4		3/4		3/4		3/4		3/4	2,937.17	3/4	2,696.60	3/4	2,455.34	3/4	2,214.08	3/4	1,972.83	3/4	1,731.45
11		11		11		11		11	2,932.16	11	2,691.57	11	2,450.32	11	2,209.06	11	1,967.80	11	1,726.42
1/4		1/4		1/4		1/4		1/4	2,927.14	1/4	2,686.55	1/4	2,445.29	1/4	2,204.03	1/4	1,962.77	1/4	1,721.39
1/2		1/2		1/2		1/2		1/2	3,137.57	1/2	2,922.13	1/2	2,681.52	1/2	2,440.26	1/2	1,957.75	1/2	1,716.36
3/4		3/4		3/4		3/4		3/4	3,134.89	3/4	2,917.12	3/4	2,676.49	3/4	2,435.24	3/4	1,952.72	3/4	1,711.33

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "KAYO"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	1,706.30	0	1,464.93	0	1,223.56	0	982.19	0	740.81	0	499.44	0	262.72	0	46.32	0		0	
1/4	1,701.28	1/4	1,459.90	1/4	1,218.53	1/4	977.16	1/4	735.79	1/4	494.41	1/4	257.99	1/4	42.06	1/4		1/4	
1/2	1,696.25	1/2	1,454.87	1/2	1,213.50	1/2	972.13	1/2	730.76	1/2	489.38	1/2	253.30	1/2	38.05	1/2		1/2	
3/4	1,691.22	3/4	1,449.85	3/4	1,208.47	3/4	967.10	3/4	725.73	3/4	484.36	3/4	248.61	3/4	34.03	3/4		3/4	
1	1,686.19	1	1,444.82	1	1,203.44	1	962.07	1	720.70	1	479.33	1	243.92	1	30.01	1		1	
1/4	1,681.16	1/4	1,439.79	1/4	1,198.42	1/4	957.04	1/4	715.67	1/4	474.30	1/4	239.23	1/4	26.00	1/4		1/4	
1/2	1,676.13	1/2	1,434.76	1/2	1,193.39	1/2	952.01	1/2	710.64	1/2	469.27	1/2	234.58	1/2	22.84	1/2		1/2	
3/4	1,671.10	3/4	1,429.73	3/4	1,188.36	3/4	946.99	3/4	705.61	3/4	464.24	3/4	229.93	3/4	19.68	3/4		3/4	
2	1,666.08	2	1,424.70	2	1,183.33	2	941.96	2	700.58	2	459.21	2	225.27	2	16.52	2		2	
1/4	1,661.05	1/4	1,419.67	1/4	1,178.30	1/4	936.93	1/4	695.56	1/4	454.18	1/4	220.62	1/4	13.37	1/4		1/4	
1/2	1,656.02	1/2	1,414.65	1/2	1,173.27	1/2	931.90	1/2	690.53	1/2	449.15	1/2	215.96	1/2	11.16	1/2		1/2	
3/4	1,650.99	3/4	1,409.62	3/4	1,168.24	3/4	926.87	3/4	685.50	3/4	444.13	3/4	211.30	3/4	8.96	3/4		3/4	
3	1,645.96	3	1,404.59	3	1,163.22	3	921.84	3	680.47	3	439.10	3	206.64	3	6.76	3		3	
1/4	1,640.93	1/4	1,399.56	1/4	1,158.19	1/4	916.81	1/4	675.44	1/4	434.07	1/4	201.99	1/4	4.56	1/4		1/4	
1/2	1,635.90	1/2	1,394.53	1/2	1,153.16	1/2	911.79	1/2	670.41	1/2	429.05	1/2	197.37	1/2		1/2		1/2	
3/4	1,630.88	3/4	1,389.50	3/4	1,148.13	3/4	906.76	3/4	665.38	3/4	424.02	3/4	192.75	3/4		3/4		3/4	
4	1,625.85	4	1,384.47	4	1,143.10	4	901.73	4	660.36	4	419.00	4	188.14	4		4		4	
1/4	1,620.82	1/4	1,379.45	1/4	1,138.07	1/4	896.70	1/4	655.33	1/4	413.98	1/4	183.52	1/4		1/4		1/4	
1/2	1,615.79	1/2	1,374.42	1/2	1,133.04	1/2	891.67	1/2	650.30	1/2	408.99	1/2	178.95	1/2		1/2		1/2	
3/4	1,610.76	3/4	1,369.39	3/4	1,128.02	3/4	886.64	3/4	645.27	3/4	404.01	3/4	174.38	3/4		3/4		3/4	
5	1,605.73	5	1,364.36	5	1,122.99	5	881.61	5	640.24	5	399.03	5	169.81	5		5		5	
1/4	1,600.70	1/4	1,359.33	1/4	1,117.96	1/4	876.59	1/4	635.21	1/4	394.04	1/4	165.23	1/4		1/4		1/4	
1/2	1,595.68	1/2	1,354.30	1/2	1,112.93	1/2	871.56	1/2	630.18	1/2	389.07	1/2	160.70	1/2		1/2		1/2	
3/4	1,590.65	3/4	1,349.27	3/4	1,107.90	3/4	866.53	3/4	625.16	3/4	384.09	3/4	156.17	3/4		3/4		3/4	
6	1,585.62	6	1,344.25	6	1,102.87	6	861.50	6	620.13	6	379.11	6	151.64	6		6		6	
1/4	1,580.59	1/4	1,339.22	1/4	1,097.84	1/4	856.47	1/4	615.10	1/4	374.13	1/4	147.11	1/4		1/4		1/4	
1/2	1,575.56	1/2	1,334.19	1/2	1,092.82	1/2	851.44	1/2	610.07	1/2	369.18	1/2	142.63	1/2		1/2		1/2	
3/4	1,570.53	3/4	1,329.16	3/4	1,087.79	3/4	846.41	3/4	605.04	3/4	364.23	3/4	138.14	3/4		3/4		3/4	
7	1,565.50	7	1,324.13	7	1,082.76	7	841.39	7	600.01	7	359.29	7	133.65	7		7		7	
1/4	1,560.48	1/4	1,319.10	1/4	1,077.73	1/4	836.36	1/4	594.98	1/4	354.34	1/4	129.17	1/4		1/4		1/4	
1/2	1,555.45	1/2	1,314.07	1/2	1,072.70	1/2	831.33	1/2	589.96	1/2	349.44	1/2	124.72	1/2		1/2		1/2	
3/4	1,550.42	3/4	1,309.05	3/4	1,067.67	3/4	826.30	3/4	584.93	3/4	344.53	3/4	120.28	3/4		3/4		3/4	
8	1,545.39	8	1,304.02	8	1,062.64	8	821.27	8	579.90	8	339.63	8	115.83	8		8		8	
1/4	1,540.36	1/4	1,298.99	1/4	1,057.62	1/4	816.24	1/4	574.87	1/4	334.73	1/4	111.39	1/4		1/4		1/4	
1/2	1,535.33	1/2	1,293.96	1/2	1,052.59	1/2	811.21	1/2	569.84	1/2	329.87	1/2	106.99	1/2		1/2		1/2	
3/4	1,530.30	3/4	1,288.93	3/4	1,047.56	3/4	806.19	3/4	564.81	3/4	325.01	3/4	102.59	3/4		3/4		3/4	
9	1,525.28	9	1,283.90	9	1,042.53	9	801.16	9	559.78	9	320.15	9	98.19	9		9		9	
1/4	1,520.25	1/4	1,278.87	1/4	1,037.50	1/4	796.13	1/4	554.76	1/4	315.29	1/4	93.79	1/4		1/4		1/4	
1/2	1,515.22	1/2	1,273.85	1/2	1,032.47	1/2	791.10	1/2	549.73	1/2	310.47	1/2	89.43	1/2		1/2		1/2	
3/4	1,510.19	3/4	1,268.82	3/4	1,027.44	3/4	786.07	3/4	544.70	3/4	305.65	3/4	85.07	3/4		3/4		3/4	
10	1,505.16	10	1,263.79	10	1,022.42	10	781.04	10	539.67	10	300.83	10	80.71	10		10		10	
1/4	1,500.13	1/4	1,258.76	1/4	1,017.39	1/4	776.01	1/4	534.64	1/4	296.01	1/4	76.35	1/4		1/4		1/4	
1/2	1,495.10	1/2	1,253.73	1/2	1,012.36	1/2	770.99	1/2	529.61	1/2	291.24	1/2	72.04	1/2		1/2		1/2	
3/4	1,490.08	3/4	1,248.70	3/4	1,007.33	3/4	765.96	3/4	524.58	3/4	286.46	3/4	67.72	3/4		3/4		3/4	
11	1,485.05	11	1,243.67	11	1,002.30	11	760.93	11	519.56	11	281.69	11	63.41	11		11		11	
1/4	1,480.02	1/4	1,238.65	1/4	997.27	1/4	755.90	1/4	514.53	1/4	276.92	1/4	59.09	1/4		1/4		1/4	
1/2	1,474.99	1/2	1,233.62	1/2	992.24	1/2	750.87	1/2	509.50	1/2	272.18	1/2	54.83	1/2		1/2		1/2	
3/4	1,469.96	3/4	1,228.59	3/4	987.22	3/4	745.84	3/4	504.47	3/4	267.45	3/4	50.58	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	3,124.80	0	2,905.33	0	2,665.37	0	2,424.81	0	2,184.25	0	1,943.69
1/4		1/4		1/4		1/4		1/4	3,122.13	1/4	2,900.33	1/4	2,660.36	1/4	2,419.80	1/4	2,179.24	1/4	1,938.67
1/2		1/2		1/2		1/2		1/2	3,118.98	1/2	2,895.34	1/2	2,655.35	1/2	2,414.79	1/2	2,174.22	1/2	1,933.67
3/4		3/4		3/4		3/4		3/4	3,115.83	3/4	2,890.34	3/4	2,650.33	3/4	2,409.77	3/4	2,169.21	3/4	1,928.66
1		1		1		1		1	3,112.68	1	2,885.34	1	2,645.32	1	2,404.76	1	2,164.20	1	1,923.65
1/4		1/4		1/4		1/4		1/4	3,109.53	1/4	2,880.35	1/4	2,640.31	1/4	2,399.75	1/4	2,159.19	1/4	1,918.64
1/2		1/2		1/2		1/2		1/2	3,105.90	1/2	2,875.35	1/2	2,635.30	1/2	2,394.74	1/2	2,154.18	1/2	1,913.63
3/4		3/4		3/4		3/4		3/4	3,102.28	3/4	2,870.35	3/4	2,630.29	3/4	2,389.73	3/4	2,149.16	3/4	1,908.61
2		2		2		2		2	3,098.65	2	2,865.36	2	2,625.28	2	2,384.71	2	2,144.15	2	1,903.60
1/4		1/4		1/4		1/4		1/4	3,095.02	1/4	2,860.36	1/4	2,620.26	1/4	2,379.70	1/4	2,139.14	1/4	1,898.58
1/2		1/2		1/2		1/2		1/2	3,090.92	1/2	2,855.36	1/2	2,615.25	1/2	2,374.69	1/2	2,134.13	1/2	1,893.57
3/4		3/4		3/4		3/4		3/4	3,086.82	3/4	2,850.37	3/4	2,610.24	3/4	2,369.68	3/4	2,129.12	3/4	1,888.55
3		3		3		3		3	3,082.71	3	2,845.37	3	2,605.23	3	2,364.67	3	2,124.11	3	1,883.54
1/4		1/4		1/4		1/4		1/4	3,078.61	1/4	2,840.37	1/4	2,600.22	1/4	2,359.66	1/4	2,119.09	1/4	1,878.53
1/2		1/2		1/2		1/2		1/2	3,074.03	1/2	2,835.38	1/2	2,595.21	1/2	2,354.64	1/2	2,114.08	1/2	1,873.51
3/4		3/4		3/4		3/4		3/4	3,069.44	3/4	2,830.38	3/4	2,590.19	3/4	2,349.63	3/4	2,109.07	3/4	1,868.50
4		4		4		4		4	3,064.86	4	2,825.38	4	2,585.18	4	2,344.62	4	2,104.06	4	1,863.48
1/4		1/4		1/4		1/4		1/4	3,060.28	1/4	2,820.39	1/4	2,580.17	1/4	2,339.61	1/4	2,099.05	1/4	1,858.47
1/2		1/2		1/2		1/2		1/2	3,055.28	1/2	2,815.39	1/2	2,575.16	1/2	2,334.60	1/2	2,094.04	1/2	1,853.45
3/4		3/4		3/4		3/4		3/4	3,050.28	3/4	2,810.39	3/4	2,570.15	3/4	2,329.59	3/4	2,089.02	3/4	1,848.44
5		5		5		5		5	3,045.28	5	2,805.40	5	2,565.14	5	2,324.57	5	2,084.01	5	1,843.43
1/4		1/4		1/4		1/4		1/4	3,040.28	1/4	2,800.40	1/4	2,560.12	1/4	2,319.56	1/4	2,079.00	1/4	1,838.41
1/2		1/2		1/2		1/2		1/2	3,035.29	1/2	2,795.40	1/2	2,555.11	1/2	2,314.55	1/2	2,073.99	1/2	1,833.40
3/4		3/4		3/4		3/4		3/4	3,030.29	3/4	2,790.40	3/4	2,550.10	3/4	2,309.54	3/4	2,068.98	3/4	1,828.38
6		6		6		6		6	3,025.29	6	2,785.41	6	2,545.09	6	2,304.53	6	2,063.97	6	1,823.37
1/4		1/4		1/4		1/4		1/4	3,020.29	1/4	2,780.41	1/4	2,540.08	1/4	2,299.52	1/4	2,058.95	1/4	1,818.35
1/2		1/2		1/2		1/2		1/2	3,015.29	1/2	2,775.41	1/2	2,535.07	1/2	2,294.50	1/2	2,053.94	1/2	1,813.34
3/4		3/4		3/4		3/4		3/4	3,010.29	3/4	2,770.42	3/4	2,530.05	3/4	2,289.49	3/4	2,048.93	3/4	1,808.33
7		7		7		7		7	3,005.29	7	2,765.42	7	2,525.04	7	2,284.48	7	2,043.92	7	1,803.31
1/4		1/4		1/4		1/4		1/4	3,000.29	1/4	2,760.42	1/4	2,520.03	1/4	2,279.47	1/4	2,038.91	1/4	1,798.30
1/2		1/2		1/2		1/2		1/2	2,995.29	1/2	2,755.43	1/2	2,515.02	1/2	2,274.46	1/2	2,033.90	1/2	1,793.28
3/4		3/4		3/4		3/4		3/4	2,990.29	3/4	2,750.43	3/4	2,510.01	3/4	2,269.45	3/4	2,028.88	3/4	1,788.27
8		8		8		8		8	2,985.29	8	2,745.43	8	2,505.00	8	2,264.43	8	2,023.87	8	1,783.25
1/4		1/4		1/4		1/4		1/4	2,980.30	1/4	2,740.44	1/4	2,499.98	1/4	2,259.42	1/4	2,018.86	1/4	1,778.24
1/2		1/2		1/2		1/2		1/2	2,975.30	1/2	2,735.44	1/2	2,494.97	1/2	2,254.41	1/2	2,013.85	1/2	1,773.23
3/4		3/4		3/4		3/4		3/4	2,970.30	3/4	2,730.44	3/4	2,489.96	3/4	2,249.40	3/4	2,008.84	3/4	1,768.21
9		9		9		9		9	2,965.30	9	2,725.45	9	2,484.95	9	2,244.39	9	2,003.83	9	1,763.20
1/4		1/4		1/4		1/4		1/4	2,960.30	1/4	2,720.45	1/4	2,479.94	1/4	2,239.38	1/4	1,998.81	1/4	1,758.18
1/2		1/2		1/2		1/2		1/2	2,955.30	1/2	2,715.45	1/2	2,474.93	1/2	2,234.36	1/2	1,993.80	1/2	1,753.17
3/4		3/4		3/4		3/4		3/4	2,950.30	3/4	2,710.45	3/4	2,469.91	3/4	2,229.35	3/4	1,988.79	3/4	1,748.15
10		10		10		10		10	2,945.30	10	2,705.45	10	2,464.90	10	2,224.34	10	1,983.78	10	1,743.14
1/4		1/4		1/4		1/4		1/4	2,940.31	1/4	2,700.45	1/4	2,459.89	1/4	2,219.33	1/4	1,978.77	1/4	1,738.13
1/2		1/2		1/2		1/2		1/2	2,935.31	1/2	2,695.44	1/2	2,454.88	1/2	2,214.32	1/2	1,973.76	1/2	1,733.11
3/4		3/4		3/4		3/4		3/4	2,930.31	3/4	2,690.43	3/4	2,449.87	3/4	2,209.31	3/4	1,968.74	3/4	1,728.10
11		11		11		11		11	2,925.32	11	2,685.42	11	2,444.86	11	2,204.29	11	1,963.73	11	1,723.08
1/4		1/4		1/4		1/4		1/4	2,920.32	1/4	2,680.41	1/4	2,439.84	1/4	2,199.28	1/4	1,958.72	1/4	1,718.07
1/2		1/2		1/2		1/2	3,130.14	1/2	2,915.32	1/2	2,675.39	1/2	2,434.83	1/2	2,194.27	1/2	1,953.71	1/2	1,713.05
3/4		3/4		3/4		3/4	3,127.47	3/4	2,910.33	3/4	2,670.38	3/4	2,429.82	3/4	2,189.26	3/4	1,948.70	3/4	1,708.04

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "KAYO"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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	1,703.03	0	1,462.34	0	1,221.65	0	980.97	0	740.28	0	499.59	0	262.30	0	46.18	0		0	
1/4	1,698.01	1/4	1,457.32	1/4	1,216.64	1/4	975.95	1/4	735.27	1/4	494.58	1/4	257.54	1/4	41.93	1/4		1/4	
1/2	1,693.00	1/2	1,452.31	1/2	1,211.62	1/2	970.94	1/2	730.25	1/2	489.56	1/2	252.82	1/2	37.93	1/2		1/2	
3/4	1,687.98	3/4	1,447.30	3/4	1,206.61	3/4	965.92	3/4	725.24	3/4	484.55	3/4	248.11	3/4	33.92	3/4		3/4	
1	1,682.97	1	1,442.28	1	1,201.60	1	960.91	1	720.22	1	479.54	1	243.39	1	29.92	1		1	
1/4	1,677.95	1/4	1,437.27	1/4	1,196.58	1/4	955.89	1/4	715.21	1/4	474.52	1/4	238.68	1/4	25.92	1/4		1/4	
1/2	1,672.94	1/2	1,432.25	1/2	1,191.57	1/2	950.88	1/2	710.19	1/2	469.51	1/2	234.00	1/2	22.77	1/2		1/2	
3/4	1,667.92	3/4	1,427.24	3/4	1,186.55	3/4	945.87	3/4	705.18	3/4	464.49	3/4	229.33	3/4	19.62	3/4		3/4	
2	1,662.91	2	1,422.22	2	1,181.54	2	940.85	2	700.17	2	459.48	2	224.65	2	16.47	2		2	
1/4	1,657.90	1/4	1,417.21	1/4	1,176.52	1/4	935.84	1/4	695.15	1/4	454.46	1/4	219.98	1/4	13.32	1/4		1/4	
1/2	1,652.88	1/2	1,412.20	1/2	1,171.51	1/2	930.82	1/2	690.14	1/2	449.45	1/2	215.33	1/2	11.12	1/2		1/2	
3/4	1,647.87	3/4	1,407.18	3/4	1,166.49	3/4	925.81	3/4	685.12	3/4	444.44	3/4	210.69	3/4	8.93	3/4		3/4	
3	1,642.85	3	1,402.17	3	1,161.48	3	920.79	3	680.11	3	439.42	3	206.04	3	6.74	3		3	
1/4	1,637.84	1/4	1,397.15	1/4	1,156.47	1/4	915.78	1/4	675.09	1/4	434.41	1/4	201.40	1/4	4.55	1/4		1/4	
1/2	1,632.82	1/2	1,392.14	1/2	1,151.45	1/2	910.77	1/2	670.08	1/2	429.39	1/2	196.80	1/2		1/2		1/2	
3/4	1,627.81	3/4	1,387.12	3/4	1,146.44	3/4	905.75	3/4	665.06	3/4	424.38	3/4	192.19	3/4		3/4		3/4	
4	1,622.80	4	1,382.11	4	1,141.42	4	900.74	4	660.05	4	419.37	4	187.59	4		4		4	
1/4	1,617.78	1/4	1,377.10	1/4	1,136.41	1/4	895.72	1/4	655.04	1/4	414.35	1/4	182.99	1/4		1/4		1/4	
1/2	1,612.77	1/2	1,372.08	1/2	1,131.39	1/2	890.71	1/2	650.02	1/2	409.34	1/2	178.43	1/2		1/2		1/2	
3/4	1,607.75	3/4	1,367.07	3/4	1,126.38	3/4	885.69	3/4	645.01	3/4	404.34	3/4	173.87	3/4		3/4		3/4	
5	1,602.74	5	1,362.05	5	1,121.37	5	880.68	5	639.99	5	399.33	5	169.31	5		5		5	
1/4	1,597.72	1/4	1,357.04	1/4	1,116.35	1/4	875.67	1/4	634.98	1/4	394.32	1/4	164.75	1/4		1/4		1/4	
1/2	1,592.71	1/2	1,352.02	1/2	1,111.34	1/2	870.65	1/2	629.96	1/2	389.31	1/2	160.23	1/2		1/2		1/2	
3/4	1,587.70	3/4	1,347.01	3/4	1,106.32	3/4	865.64	3/4	624.95	3/4	384.31	3/4	155.72	3/4		3/4		3/4	
6	1,582.68	6	1,342.00	6	1,101.31	6	860.62	6	619.94	6	379.30	6	151.20	6		6		6	
1/4	1,577.67	1/4	1,336.98	1/4	1,096.29	1/4	855.61	1/4	614.92	1/4	374.30	1/4	146.68	1/4		1/4		1/4	
1/2	1,572.65	1/2	1,331.97	1/2	1,091.28	1/2	850.59	1/2	609.91	1/2	369.33	1/2	142.21	1/2		1/2		1/2	
3/4	1,567.64	3/4	1,326.95	3/4	1,086.27	3/4	845.58	3/4	604.89	3/4	364.36	3/4	137.74	3/4		3/4		3/4	
7	1,562.62	7	1,321.94	7	1,081.25	7	840.57	7	599.88	7	359.38	7	133.26	7		7		7	
1/4	1,557.61	1/4	1,316.92	1/4	1,076.24	1/4	835.55	1/4	594.86	1/4	354.41	1/4	128.79	1/4		1/4		1/4	
1/2	1,552.60	1/2	1,311.91	1/2	1,071.22	1/2	830.54	1/2	589.85	1/2	349.48	1/2	124.36	1/2		1/2		1/2	
3/4	1,547.58	3/4	1,306.90	3/4	1,066.21	3/4	825.52	3/4	584.84	3/4	344.55	3/4	119.93	3/4		3/4		3/4	
8	1,542.57	8	1,301.88	8	1,061.19	8	820.51	8	579.82	8	339.62	8	115.49	8		8		8	
1/4	1,537.55	1/4	1,296.87	1/4	1,056.18	1/4	815.49	1/4	574.81	1/4	334.69	1/4	111.06	1/4		1/4		1/4	
1/2	1,532.54	1/2	1,291.85	1/2	1,051.17	1/2	810.48	1/2	569.79	1/2	329.81	1/2	106.67	1/2		1/2		1/2	
3/4	1,527.52	3/4	1,286.84	3/4	1,046.15	3/4	805.47	3/4	564.78	3/4	324.92	3/4	102.29	3/4		3/4		3/4	
9	1,522.51	9	1,281.82	9	1,041.14	9	800.45	9	559.76	9	320.04	9	97.90	9		9		9	
1/4	1,517.50	1/4	1,276.81	1/4	1,036.12	1/4	795.44	1/4	554.75	1/4	315.15	1/4	93.51	1/4		1/4		1/4	
1/2	1,512.48	1/2	1,271.80	1/2	1,031.11	1/2	790.42	1/2	549.74	1/2	310.30	1/2	89.16	1/2		1/2		1/2	
3/4	1,507.47	3/4	1,266.78	3/4	1,026.09	3/4	785.41	3/4	544.72	3/4	305.46	3/4	84.82	3/4		3/4		3/4	
10	1,502.45	10	1,261.77	10	1,021.08	10	780.39	10	539.71	10	300.62	10	80.47	10		10		10	
1/4	1,497.44	1/4	1,256.75	1/4	1,016.07	1/4	775.38	1/4	534.69	1/4	295.77	1/4	76.13	1/4		1/4		1/4	
1/2	1,492.42	1/2	1,251.74	1/2	1,011.05	1/2	770.37	1/2	529.68	1/2	290.97	1/2	71.82	1/2		1/2		1/2	
3/4	1,487.41	3/4	1,246.72	3/4	1,006.04	3/4	765.35	3/4	524.66	3/4	286.17	3/4	67.52	3/4		3/4		3/4	
11	1,482.40	11	1,241.71	11	1,001.02	11	760.34	11	519.65	11	281.37	11	63.22	11		11		11	
1/4	1,477.38	1/4	1,236.70	1/4	996.01	1/4	755.32	1/4	514.64	1/4	276.57	1/4	58.92	1/4		1/4		1/4	
1/2	1,472.37	1/2	1,231.68	1/2	990.99	1/2	750.31	1/2	509.62	1/2	271.81	1/2	54.67	1/2		1/2		1/2	
3/4	1,467.35	3/4	1,226.67	3/4	985.98	3/4	745.29	3/4	504.61	3/4	267.05	3/4	50.42	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,609.88	0	3,362.36	0	3,088.85	0	2,814.72	0	2,540.58	0	2,266.45
1/4		1/4		1/4		1/4		1/4	3,606.84	1/4	3,356.66	1/4	3,083.14	1/4	2,809.00	1/4	2,534.87	1/4	2,260.74
1/2		1/2		1/2		1/2		1/2	3,603.79	1/2	3,350.97	1/2	3,077.43	1/2	2,803.29	1/2	2,529.16	1/2	2,255.03
3/4		3/4		3/4		3/4		3/4	3,600.20	3/4	3,345.27	3/4	3,071.71	3/4	2,797.58	3/4	2,523.45	3/4	2,249.31
1		1		1		1		1	3,596.61	1	3,339.57	1	3,066.00	1	2,791.87	1	2,517.74	1	2,243.60
1/4		1/4		1/4		1/4		1/4	3,593.02	1/4	3,333.88	1/4	3,060.29	1/4	2,786.16	1/4	2,512.03	1/4	2,237.88
1/2		1/2		1/2		1/2		1/2	3,589.43	1/2	3,328.18	1/2	3,054.58	1/2	2,780.45	1/2	2,506.32	1/2	2,232.17
3/4		3/4		3/4		3/4		3/4	3,585.30	3/4	3,322.49	3/4	3,048.87	3/4	2,774.74	3/4	2,500.60	3/4	2,226.45
2		2		2		2		2	3,581.16	2	3,316.79	2	3,043.16	2	2,769.03	2	2,494.89	2	2,220.74
1/4		1/4		1/4		1/4		1/4	3,577.03	1/4	3,311.09	1/4	3,037.45	1/4	2,763.32	1/4	2,489.18	1/4	2,215.03
1/2		1/2		1/2		1/2		1/2	3,572.89	1/2	3,305.40	1/2	3,031.74	1/2	2,757.60	1/2	2,483.47	1/2	2,209.31
3/4		3/4		3/4		3/4		3/4	3,568.22	3/4	3,299.70	3/4	3,026.03	3/4	2,751.89	3/4	2,477.76	3/4	2,203.60
3		3		3		3		3	3,563.54	3	3,294.01	3	3,020.31	3	2,746.18	3	2,472.05	3	2,197.89
1/4		1/4		1/4		1/4		1/4	3,558.86	1/4	3,288.31	1/4	3,014.60	1/4	2,740.47	1/4	2,466.34	1/4	2,192.17
1/2		1/2		1/2		1/2		1/2	3,554.18	1/2	3,282.61	1/2	3,008.89	1/2	2,734.76	1/2	2,460.63	1/2	2,186.46
3/4		3/4		3/4		3/4		3/4	3,548.96	3/4	3,276.92	3/4	3,003.18	3/4	2,729.05	3/4	2,454.92	3/4	2,180.74
4		4		4		4		4	3,543.74	4	3,271.22	4	2,997.47	4	2,723.34	4	2,449.20	4	2,175.03
1/4		1/4		1/4		1/4		1/4	3,538.52	1/4	3,265.53	1/4	2,991.76	1/4	2,717.63	1/4	2,443.49	1/4	2,169.32
1/2		1/2		1/2		1/2		1/2	3,533.30	1/2	3,259.83	1/2	2,986.05	1/2	2,711.92	1/2	2,437.78	1/2	2,163.60
3/4		3/4		3/4		3/4		3/4	3,527.60	3/4	3,254.13	3/4	2,980.34	3/4	2,706.20	3/4	2,432.07	3/4	2,157.89
5		5		5		5		5	3,521.90	5	3,248.44	5	2,974.63	5	2,700.49	5	2,426.36	5	2,152.18
1/4		1/4		1/4		1/4		1/4	3,516.20	1/4	3,242.74	1/4	2,968.91	1/4	2,694.78	1/4	2,420.65	1/4	2,146.46
1/2		1/2		1/2		1/2		1/2	3,510.50	1/2	3,237.05	1/2	2,963.20	1/2	2,689.07	1/2	2,414.94	1/2	2,140.75
3/4		3/4		3/4		3/4		3/4	3,504.80	3/4	3,231.35	3/4	2,957.49	3/4	2,683.36	3/4	2,409.23	3/4	2,135.04
6		6		6		6		6	3,499.10	6	3,225.65	6	2,951.78	6	2,677.65	6	2,403.52	6	2,129.32
1/4		1/4		1/4		1/4		1/4	3,493.41	1/4	3,219.96	1/4	2,946.07	1/4	2,671.94	1/4	2,397.80	1/4	2,123.61
1/2		1/2		1/2		1/2		1/2	3,487.71	1/2	3,214.26	1/2	2,940.36	1/2	2,666.23	1/2	2,392.09	1/2	2,117.90
3/4		3/4		3/4		3/4		3/4	3,482.01	3/4	3,208.57	3/4	2,934.65	3/4	2,660.52	3/4	2,386.38	3/4	2,112.18
7		7		7		7		7	3,476.31	7	3,202.87	7	2,928.94	7	2,654.80	7	2,380.67	7	2,106.47
1/4		1/4		1/4		1/4		1/4	3,470.61	1/4	3,197.17	1/4	2,923.23	1/4	2,649.09	1/4	2,374.96	1/4	2,100.75
1/2		1/2		1/2		1/2		1/2	3,464.91	1/2	3,191.48	1/2	2,917.51	1/2	2,643.38	1/2	2,369.25	1/2	2,095.04
3/4		3/4		3/4		3/4		3/4	3,459.22	3/4	3,185.78	3/4	2,911.80	3/4	2,637.67	3/4	2,363.54	3/4	2,089.33
8		8		8		8		8	3,453.52	8	3,180.09	8	2,906.09	8	2,631.96	8	2,357.83	8	2,083.61
1/4		1/4		1/4		1/4		1/4	3,447.82	1/4	3,174.39	1/4	2,900.38	1/4	2,626.25	1/4	2,352.12	1/4	2,077.90
1/2		1/2		1/2		1/2		1/2	3,442.12	1/2	3,168.69	1/2	2,894.67	1/2	2,620.54	1/2	2,346.40	1/2	2,072.19
3/4		3/4		3/4		3/4		3/4	3,436.42	3/4	3,163.00	3/4	2,888.96	3/4	2,614.83	3/4	2,340.69	3/4	2,066.47
9		9		9		9		9	3,430.72	9	3,157.30	9	2,883.25	9	2,609.12	9	2,334.98	9	2,060.76
1/4		1/4		1/4		1/4		1/4	3,425.02	1/4	3,151.61	1/4	2,877.54	1/4	2,603.40	1/4	2,329.27	1/4	2,055.05
1/2		1/2		1/2		1/2		1/2	3,419.33	1/2	3,145.91	1/2	2,871.83	1/2	2,597.69	1/2	2,323.56	1/2	2,049.33
3/4		3/4		3/4		3/4		3/4	3,413.63	3/4	3,140.21	3/4	2,866.11	3/4	2,591.98	3/4	2,317.85	3/4	2,043.62
10		10		10		10		10	3,407.93	10	3,134.51	10	2,860.40	10	2,586.27	10	2,312.14	10	2,037.90
1/4		1/4		1/4		1/4		1/4	3,402.23	1/4	3,128.81	1/4	2,854.69	1/4	2,580.56	1/4	2,306.43	1/4	2,032.19
1/2		1/2		1/2		1/2		1/2	3,396.53	1/2	3,123.11	1/2	2,848.98	1/2	2,574.85	1/2	2,300.72	1/2	2,026.48
3/4		3/4		3/4		3/4		3/4	3,390.84	3/4	3,117.40	3/4	2,843.27	3/4	2,569.14	3/4	2,295.00	3/4	2,020.76
11		11		11		11		11	3,385.14	11	3,111.69	11	2,837.56	11	2,563.43	11	2,289.29	11	2,015.05
1/4		1/4		1/4		1/4		1/4	3,379.45	1/4	3,105.98	1/4	2,831.85	1/4	2,557.72	1/4	2,283.58	1/4	2,009.34
1/2		1/2		1/2		1/2		1/2	3,373.75	1/2	3,100.27	1/2	2,826.14	1/2	2,552.00	1/2	2,277.87	1/2	2,003.62
3/4		3/4		3/4		3/4		3/4	3,368.05	3/4	3,094.56	3/4	2,820.43	3/4	2,546.29	3/4	2,272.16	3/4	1,997.91

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 26'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "KAYO"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,992.20	0	1,717.94	0	1,443.69	0	1,169.44	0	895.18	0	620.93	0	355.28	0	83.25	0		0	
1/4	1,986.48	1/4	1,712.23	1/4	1,437.98	1/4	1,163.72	1/4	889.47	1/4	615.22	1/4	349.80	1/4	77.56	1/4		1/4	
1/2	1,980.77	1/2	1,706.52	1/2	1,432.26	1/2	1,158.01	1/2	883.76	1/2	609.50	1/2	344.31	1/2	71.86	1/2		1/2	
3/4	1,975.06	3/4	1,700.80	3/4	1,426.55	3/4	1,152.30	3/4	878.04	3/4	603.79	3/4	338.83	3/4	66.39	3/4		3/4	
1	1,969.34	1	1,695.09	1	1,420.84	1	1,146.58	1	872.33	1	598.08	1	333.35	1	60.92	1		1	
1/4	1,963.63	1/4	1,689.38	1/4	1,415.12	1/4	1,140.87	1/4	866.62	1/4	592.36	1/4	327.86	1/4	55.45	1/4		1/4	
1/2	1,957.91	1/2	1,683.66	1/2	1,409.41	1/2	1,135.16	1/2	860.90	1/2	586.65	1/2	322.38	1/2	49.98	1/2		1/2	
3/4	1,952.20	3/4	1,677.95	3/4	1,403.70	3/4	1,129.44	3/4	855.19	3/4	580.96	3/4	316.87	3/4	45.43	3/4		3/4	
2	1,946.49	2	1,672.23	2	1,397.98	2	1,123.73	2	849.48	2	575.28	2	311.35	2	40.89	2		2	
1/4	1,940.77	1/4	1,666.52	1/4	1,392.27	1/4	1,118.02	1/4	843.76	1/4	569.59	1/4	305.84	1/4	36.34	1/4		1/4	
1/2	1,935.06	1/2	1,660.81	1/2	1,386.55	1/2	1,112.30	1/2	838.05	1/2	563.90	1/2	300.33	1/2	31.80	1/2		1/2	
3/4	1,929.35	3/4	1,655.09	3/4	1,380.84	3/4	1,106.59	3/4	832.34	3/4	558.40	3/4	294.62	3/4	28.29	3/4		3/4	
3	1,923.63	3	1,649.38	3	1,375.13	3	1,100.87	3	826.62	3	552.89	3	288.90	3	24.78	3		3	
1/4	1,917.92	1/4	1,643.67	1/4	1,369.41	1/4	1,095.16	1/4	820.91	1/4	547.39	1/4	283.19	1/4	21.28	1/4		1/4	
1/2	1,912.21	1/2	1,637.95	1/2	1,363.70	1/2	1,089.45	1/2	815.19	1/2	541.88	1/2	277.48	1/2	17.77	1/2		1/2	
3/4	1,906.49	3/4	1,632.24	3/4	1,357.99	3/4	1,083.73	3/4	809.48	3/4	536.38	3/4	271.76	3/4		3/4		3/4	
4	1,900.78	4	1,626.53	4	1,352.27	4	1,078.02	4	803.77	4	530.87	4	266.05	4		4		4	
1/4	1,895.06	1/4	1,620.81	1/4	1,346.56	1/4	1,072.31	1/4	798.05	1/4	525.37	1/4	260.34	1/4		1/4		1/4	
1/2	1,889.35	1/2	1,615.10	1/2	1,340.85	1/2	1,066.59	1/2	792.34	1/2	519.87	1/2	254.62	1/2		1/2		1/2	
3/4	1,883.64	3/4	1,609.38	3/4	1,335.13	3/4	1,060.88	3/4	786.63	3/4	514.37	3/4	248.91	3/4		3/4		3/4	
5	1,877.92	5	1,603.67	5	1,329.42	5	1,055.17	5	780.91	5	508.88	5	243.20	5		5		5	
1/4	1,872.21	1/4	1,597.96	1/4	1,323.70	1/4	1,049.45	1/4	775.20	1/4	503.39	1/4	237.48	1/4		1/4		1/4	
1/2	1,866.50	1/2	1,592.24	1/2	1,317.99	1/2	1,043.74	1/2	769.49	1/2	497.89	1/2	231.77	1/2		1/2		1/2	
3/4	1,860.78	3/4	1,586.53	3/4	1,312.28	3/4	1,038.02	3/4	763.77	3/4	492.40	3/4	226.06	3/4		3/4		3/4	
6	1,855.07	6	1,580.82	6	1,306.56	6	1,032.31	6	758.06	6	486.91	6	220.34	6		6		6	
1/4	1,849.36	1/4	1,575.10	1/4	1,300.85	1/4	1,026.60	1/4	752.34	1/4	481.42	1/4	214.63	1/4		1/4		1/4	
1/2	1,843.64	1/2	1,569.39	1/2	1,295.14	1/2	1,020.88	1/2	746.63	1/2	475.92	1/2	208.92	1/2		1/2		1/2	
3/4	1,837.93	3/4	1,563.68	3/4	1,289.42	3/4	1,015.17	3/4	740.92	3/4	470.44	3/4	203.20	3/4		3/4		3/4	
7	1,832.22	7	1,557.96	7	1,283.71	7	1,009.46	7	735.20	7	464.96	7	197.49	7		7		7	
1/4	1,826.50	1/4	1,552.25	1/4	1,278.00	1/4	1,003.74	1/4	729.49	1/4	459.47	1/4	191.77	1/4		1/4		1/4	
1/2	1,820.79	1/2	1,546.54	1/2	1,272.28	1/2	998.03	1/2	723.78	1/2	453.99	1/2	186.06	1/2		1/2		1/2	
3/4	1,815.07	3/4	1,540.82	3/4	1,266.57	3/4	992.32	3/4	718.06	3/4	448.51	3/4	180.35	3/4		3/4		3/4	
8	1,809.36	8	1,535.11	8	1,260.86	8	986.60	8	712.35	8	443.02	8	174.63	8		8		8	
1/4	1,803.65	1/4	1,529.39	1/4	1,255.14	1/4	980.89	1/4	706.64	1/4	437.54	1/4	168.92	1/4		1/4		1/4	
1/2	1,797.93	1/2	1,523.68	1/2	1,249.43	1/2	975.18	1/2	700.92	1/2	432.05	1/2	163.21	1/2		1/2		1/2	
3/4	1,792.22	3/4	1,517.97	3/4	1,243.71	3/4	969.46	3/4	695.21	3/4	426.57	3/4	157.49	3/4		3/4		3/4	
9	1,786.51	9	1,512.25	9	1,238.00	9	963.75	9	689.50	9	421.09	9	151.78	9		9		9	
1/4	1,780.79	1/4	1,506.54	1/4	1,232.29	1/4	958.03	1/4	683.78	1/4	415.60	1/4	146.07	1/4		1/4		1/4	
1/2	1,775.08	1/2	1,500.83	1/2	1,226.57	1/2	952.32	1/2	678.07	1/2	410.12	1/2	140.35	1/2		1/2		1/2	
3/4	1,769.37	3/4	1,495.11	3/4	1,220.86	3/4	946.61	3/4	672.35	3/4	404.64	3/4	134.64	3/4		3/4		3/4	
10	1,763.65	10	1,489.40	10	1,215.15	10	940.89	10	666.64	10	399.15	10	128.93	10		10		10	
1/4	1,757.94	1/4	1,483.69	1/4	1,209.43	1/4	935.18	1/4	660.93	1/4	393.67	1/4	123.21	1/4		1/4		1/4	
1/2	1,752.22	1/2	1,477.97	1/2	1,203.72	1/2	929.47	1/2	655.21	1/2	388.18	1/2	117.50	1/2		1/2		1/2	
3/4	1,746.51	3/4	1,472.26	3/4	1,198.01	3/4	923.75	3/4	649.50	3/4	382.70	3/4	111.79	3/4		3/4		3/4	
11	1,740.80	11	1,466.54	11	1,192.29	11	918.04	11	643.79	11	377.22	11	106.07	11		11		11	
1/4	1,735.08	1/4	1,460.83	1/4	1,186.58	1/4	912.33	1/4	638.07	1/4	371.73	1/4	100.36	1/4		1/4		1/4	
1/2	1,729.37	1/2	1,455.12	1/2	1,180.86	1/2	906.61	1/2	632.36	1/2	366.25	1/2	94.65	1/2		1/2		1/2	
3/4	1,723.66	3/4	1,449.40	3/4	1,175.15	3/4	900.90	3/4	626.65	3/4	360.77	3/4	88.95	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,615.41	0	3,368.21	0	3,095.06	0	2,821.28	0	2,547.50	0	2,273.73
1/4		1/4		1/4		1/4		1/4	3,612.37	1/4	3,362.52	1/4	3,089.35	1/4	2,815.58	1/4	2,541.80	1/4	2,268.02
1/2		1/2		1/2		1/2		1/2	3,609.32	1/2	3,356.83	1/2	3,083.65	1/2	2,809.87	1/2	2,536.10	1/2	2,262.32
3/4		3/4		3/4		3/4		3/4	3,605.74	3/4	3,351.14	3/4	3,077.95	3/4	2,804.17	3/4	2,530.39	3/4	2,256.61
1		1		1		1		1	3,602.15	1	3,345.45	1	3,072.24	1	2,798.47	1	2,524.69	1	2,250.91
1/4		1/4		1/4		1/4		1/4	3,598.57	1/4	3,339.76	1/4	3,066.54	1/4	2,792.76	1/4	2,518.98	1/4	2,245.21
1/2		1/2		1/2		1/2		1/2	3,594.98	1/2	3,334.07	1/2	3,060.84	1/2	2,787.06	1/2	2,513.28	1/2	2,239.50
3/4		3/4		3/4		3/4		3/4	3,590.85	3/4	3,328.39	3/4	3,055.13	3/4	2,781.35	3/4	2,507.58	3/4	2,233.80
2		2		2		2		2	3,586.72	2	3,322.70	2	3,049.43	2	2,775.65	2	2,501.87	2	2,228.09
1/4		1/4		1/4		1/4		1/4	3,582.60	1/4	3,317.01	1/4	3,043.72	1/4	2,769.95	1/4	2,496.17	1/4	2,222.38
1/2		1/2		1/2		1/2		1/2	3,578.47	1/2	3,311.32	1/2	3,038.02	1/2	2,764.24	1/2	2,490.47	1/2	2,216.68
3/4		3/4		3/4		3/4		3/4	3,573.79	3/4	3,305.63	3/4	3,032.32	3/4	2,758.54	3/4	2,484.76	3/4	2,210.97
3		3		3		3		3	3,569.12	3	3,299.94	3	3,026.61	3	2,752.84	3	2,479.06	3	2,205.26
1/4		1/4		1/4		1/4		1/4	3,564.45	1/4	3,294.25	1/4	3,020.91	1/4	2,747.13	1/4	2,473.35	1/4	2,199.56
1/2		1/2		1/2		1/2		1/2	3,559.78	1/2	3,288.56	1/2	3,015.21	1/2	2,741.43	1/2	2,467.65	1/2	2,193.85
3/4		3/4		3/4		3/4		3/4	3,554.56	3/4	3,282.88	3/4	3,009.50	3/4	2,735.72	3/4	2,461.95	3/4	2,188.15
4		4		4		4		4	3,549.35	4	3,277.19	4	3,003.80	4	2,730.02	4	2,456.24	4	2,182.44
1/4		1/4		1/4		1/4		1/4	3,544.13	1/4	3,271.50	1/4	2,998.10	1/4	2,724.32	1/4	2,450.54	1/4	2,176.73
1/2		1/2		1/2		1/2		1/2	3,538.92	1/2	3,265.81	1/2	2,992.39	1/2	2,718.61	1/2	2,444.84	1/2	2,171.03
3/4		3/4		3/4		3/4		3/4	3,533.23	3/4	3,260.12	3/4	2,986.69	3/4	2,712.91	3/4	2,439.13	3/4	2,165.32
5		5		5		5		5	3,527.54	5	3,254.43	5	2,980.98	5	2,707.21	5	2,433.43	5	2,159.61
1/4		1/4		1/4		1/4		1/4	3,521.85	1/4	3,248.74	1/4	2,975.28	1/4	2,701.50	1/4	2,427.73	1/4	2,153.91
1/2		1/2		1/2		1/2		1/2	3,516.16	1/2	3,243.06	1/2	2,969.58	1/2	2,695.80	1/2	2,422.02	1/2	2,148.20
3/4		3/4		3/4		3/4		3/4	3,510.46	3/4	3,237.37	3/4	2,963.87	3/4	2,690.10	3/4	2,416.32	3/4	2,142.50
6		6		6		6		6	3,504.77	6	3,231.68	6	2,958.17	6	2,684.39	6	2,410.61	6	2,136.79
1/4		1/4		1/4		1/4		1/4	3,499.08	1/4	3,225.99	1/4	2,952.47	1/4	2,678.69	1/4	2,404.91	1/4	2,131.08
1/2		1/2		1/2		1/2		1/2	3,493.39	1/2	3,220.30	1/2	2,946.76	1/2	2,672.98	1/2	2,399.21	1/2	2,125.38
3/4		3/4		3/4		3/4		3/4	3,487.70	3/4	3,214.61	3/4	2,941.06	3/4	2,667.28	3/4	2,393.50	3/4	2,119.67
7		7		7		7		7	3,482.01	7	3,208.92	7	2,935.35	7	2,661.58	7	2,387.80	7	2,113.97
1/4		1/4		1/4		1/4		1/4	3,476.32	1/4	3,203.24	1/4	2,929.65	1/4	2,655.87	1/4	2,382.10	1/4	2,108.26
1/2		1/2		1/2		1/2		1/2	3,470.63	1/2	3,197.55	1/2	2,923.95	1/2	2,650.17	1/2	2,376.39	1/2	2,102.55
3/4		3/4		3/4		3/4		3/4	3,464.94	3/4	3,191.86	3/4	2,918.24	3/4	2,644.47	3/4	2,370.69	3/4	2,096.85
8		8		8		8		8	3,459.24	8	3,186.17	8	2,912.54	8	2,638.76	8	2,364.98	8	2,091.14
1/4		1/4		1/4		1/4		1/4	3,453.55	1/4	3,180.48	1/4	2,906.84	1/4	2,633.06	1/4	2,359.28	1/4	2,085.43
1/2		1/2		1/2		1/2		1/2	3,447.86	1/2	3,174.79	1/2	2,901.13	1/2	2,627.35	1/2	2,353.58	1/2	2,079.73
3/4		3/4		3/4		3/4		3/4	3,442.17	3/4	3,169.10	3/4	2,895.43	3/4	2,621.65	3/4	2,347.87	3/4	2,074.02
9		9		9		9		9	3,436.48	9	3,163.42	9	2,889.72	9	2,615.95	9	2,342.17	9	2,068.32
1/4		1/4		1/4		1/4		1/4	3,430.79	1/4	3,157.73	1/4	2,884.02	1/4	2,610.24	1/4	2,336.47	1/4	2,062.61
1/2		1/2		1/2		1/2		1/2	3,425.10	1/2	3,152.04	1/2	2,878.32	1/2	2,604.54	1/2	2,330.76	1/2	2,056.90
3/4		3/4		3/4		3/4		3/4	3,419.41	3/4	3,146.35	3/4	2,872.61	3/4	2,598.84	3/4	2,325.06	3/4	2,051.20
10		10		10		10		10	3,413.72	10	3,140.66	10	2,866.91	10	2,593.13	10	2,319.35	10	2,045.49
1/4		1/4		1/4		1/4		1/4	3,408.03	1/4	3,134.97	1/4	2,861.21	1/4	2,587.43	1/4	2,313.65	1/4	2,039.78
1/2		1/2		1/2		1/2		1/2	3,402.34	1/2	3,129.28	1/2	2,855.50	1/2	2,581.72	1/2	2,307.95	1/2	2,034.08
3/4		3/4		3/4		3/4		3/4	3,396.65	3/4	3,123.58	3/4	2,849.80	3/4	2,576.02	3/4	2,302.24	3/4	2,028.37
11		11		11		11		11	3,390.96	11	3,117.87	11	2,844.10	11	2,570.32	11	2,296.54	11	2,022.67
1/4		1/4		1/4		1/4		1/4	3,385.27	1/4	3,112.17	1/4	2,838.39	1/4	2,564.61	1/4	2,290.84	1/4	2,016.96
1/2		1/2		1/2		1/2		1/2	3,379.58	1/2	3,106.47	1/2	2,832.69	1/2	2,558.91	1/2	2,285.13	1/2	2,011.25
3/4		3/4		3/4		3/4		3/4	3,373.89	3/4	3,100.76	3/4	2,826.98	3/4	2,553.21	3/4	2,279.43	3/4	2,005.55

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 26'-06" FORWARD OF AFT BULKHEAD.

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





# BARGE "KAYO"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,999.84	0	1,725.94	0	1,452.05	0	1,178.15	0	904.25	0	630.35	0	356.85	0	83.14	0		0	
1/4	1,994.14	1/4	1,720.24	1/4	1,446.34	1/4	1,172.44	1/4	898.54	1/4	624.65	1/4	351.16	1/4	77.45	1/4		1/4	
1/2	1,988.43	1/2	1,714.53	1/2	1,440.63	1/2	1,166.74	1/2	892.84	1/2	618.94	1/2	345.47	1/2	71.76	1/2		1/2	
3/4	1,982.72	3/4	1,708.83	3/4	1,434.93	3/4	1,161.03	3/4	887.13	3/4	613.23	3/4	339.78	3/4	66.30	3/4		3/4	
1	1,977.02	1	1,703.12	1	1,429.22	1	1,155.32	1	881.43	1	607.53	1	334.09	1	60.83	1		1	
1/4	1,971.31	1/4	1,697.41	1/4	1,423.52	1/4	1,149.62	1/4	875.72	1/4	601.82	1/4	328.40	1/4	55.37	1/4		1/4	
1/2	1,965.60	1/2	1,691.71	1/2	1,417.81	1/2	1,143.91	1/2	870.01	1/2	596.12	1/2	322.70	1/2	49.91	1/2		1/2	
3/4	1,959.90	3/4	1,686.00	3/4	1,412.10	3/4	1,138.21	3/4	864.31	3/4	590.41	3/4	317.01	3/4	45.37	3/4		3/4	
2	1,954.19	2	1,680.29	2	1,406.40	2	1,132.50	2	858.60	2	584.70	2	311.32	2	40.83	2		2	
1/4	1,948.49	1/4	1,674.59	1/4	1,400.69	1/4	1,126.79	1/4	852.90	1/4	579.00	1/4	305.63	1/4	36.29	1/4		1/4	
1/2	1,942.78	1/2	1,668.88	1/2	1,394.98	1/2	1,121.09	1/2	847.19	1/2	573.29	1/2	299.94	1/2	31.75	1/2		1/2	
3/4	1,937.07	3/4	1,663.18	3/4	1,389.28	3/4	1,115.38	3/4	841.48	3/4	567.59	3/4	294.23	3/4	28.25	3/4		3/4	
3	1,931.37	3	1,657.47	3	1,383.57	3	1,109.67	3	835.78	3	561.88	3	288.52	3	24.75	3		3	
1/4	1,925.66	1/4	1,651.76	1/4	1,377.87	1/4	1,103.97	1/4	830.07	1/4	556.17	1/4	282.82	1/4	21.25	1/4		1/4	
1/2	1,919.95	1/2	1,646.06	1/2	1,372.16	1/2	1,098.26	1/2	824.36	1/2	550.47	1/2	277.11	1/2	17.74	1/2		1/2	
3/4	1,914.25	3/4	1,640.35	3/4	1,366.45	3/4	1,092.56	3/4	818.66	3/4	544.76	3/4	271.41	3/4		3/4		3/4	
4	1,908.54	4	1,634.64	4	1,360.75	4	1,086.85	4	812.95	4	539.06	4	265.70	4		4		4	
1/4	1,902.84	1/4	1,628.94	1/4	1,355.04	1/4	1,081.14	1/4	807.25	1/4	533.35	1/4	259.99	1/4		1/4		1/4	
1/2	1,897.13	1/2	1,623.23	1/2	1,349.33	1/2	1,075.44	1/2	801.54	1/2	527.64	1/2	254.29	1/2		1/2		1/2	
3/4	1,891.42	3/4	1,617.53	3/4	1,343.63	3/4	1,069.73	3/4	795.83	3/4	521.94	3/4	248.58	3/4		3/4		3/4	
5	1,885.72	5	1,611.82	5	1,337.92	5	1,064.02	5	790.13	5	516.24	5	242.88	5		5		5	
1/4	1,880.01	1/4	1,606.11	1/4	1,332.22	1/4	1,058.32	1/4	784.42	1/4	510.54	1/4	237.17	1/4		1/4		1/4	
1/2	1,874.30	1/2	1,600.41	1/2	1,326.51	1/2	1,052.61	1/2	778.71	1/2	504.84	1/2	231.46	1/2		1/2		1/2	
3/4	1,868.60	3/4	1,594.70	3/4	1,320.80	3/4	1,046.91	3/4	773.01	3/4	499.14	3/4	225.76	3/4		3/4		3/4	
6	1,862.89	6	1,588.99	6	1,315.10	6	1,041.20	6	767.30	6	493.44	6	220.05	6		6		6	
1/4	1,857.19	1/4	1,583.29	1/4	1,309.39	1/4	1,035.49	1/4	761.60	1/4	487.74	1/4	214.35	1/4		1/4		1/4	
1/2	1,851.48	1/2	1,577.58	1/2	1,303.68	1/2	1,029.79	1/2	755.89	1/2	482.04	1/2	208.64	1/2		1/2		1/2	
3/4	1,845.77	3/4	1,571.88	3/4	1,297.98	3/4	1,024.08	3/4	750.18	3/4	476.35	3/4	202.93	3/4		3/4		3/4	
7	1,840.07	7	1,566.17	7	1,292.27	7	1,018.37	7	744.48	7	470.66	7	197.23	7		7		7	
1/4	1,834.36	1/4	1,560.46	1/4	1,286.57	1/4	1,012.67	1/4	738.77	1/4	464.97	1/4	191.52	1/4		1/4		1/4	
1/2	1,828.66	1/2	1,554.76	1/2	1,280.86	1/2	1,006.96	1/2	733.06	1/2	459.28	1/2	185.82	1/2		1/2		1/2	
3/4	1,822.95	3/4	1,549.05	3/4	1,275.15	3/4	1,001.26	3/4	727.36	3/4	453.59	3/4	180.11	3/4		3/4		3/4	
8	1,817.24	8	1,543.35	8	1,269.45	8	995.55	8	721.65	8	447.90	8	174.40	8		8		8	
1/4	1,811.54	1/4	1,537.64	1/4	1,263.74	1/4	989.84	1/4	715.95	1/4	442.21	1/4	168.70	1/4		1/4		1/4	
1/2	1,805.83	1/2	1,531.93	1/2	1,258.04	1/2	984.14	1/2	710.24	1/2	436.52	1/2	162.99	1/2		1/2		1/2	
3/4	1,800.12	3/4	1,526.23	3/4	1,252.33	3/4	978.43	3/4	704.53	3/4	430.83	3/4	157.29	3/4		3/4		3/4	
9	1,794.42	9	1,520.52	9	1,246.62	9	972.73	9	698.83	9	425.14	9	151.58	9		9		9	
1/4	1,788.71	1/4	1,514.81	1/4	1,240.92	1/4	967.02	1/4	693.12	1/4	419.45	1/4	145.87	1/4		1/4		1/4	
1/2	1,783.01	1/2	1,509.11	1/2	1,235.21	1/2	961.31	1/2	687.42	1/2	413.76	1/2	140.17	1/2		1/2		1/2	
3/4	1,777.30	3/4	1,503.40	3/4	1,229.50	3/4	955.61	3/4	681.71	3/4	408.07	3/4	134.46	3/4		3/4		3/4	
10	1,771.59	10	1,497.70	10	1,223.80	10	949.90	10	676.00	10	402.37	10	128.76	10		10		10	
1/4	1,765.89	1/4	1,491.99	1/4	1,218.09	1/4	944.19	1/4	670.30	1/4	396.68	1/4	123.05	1/4		1/4		1/4	
1/2	1,760.18	1/2	1,486.28	1/2	1,212.39	1/2	938.49	1/2	664.59	1/2	390.99	1/2	117.34	1/2		1/2		1/2	
3/4	1,754.47	3/4	1,480.58	3/4	1,206.68	3/4	932.78	3/4	658.88	3/4	385.30	3/4	111.64	3/4		3/4		3/4	
11	1,748.77	11	1,474.87	11	1,200.97	11	927.08	11	653.18	11	379.61	11	105.93	11		11		11	
1/4	1,743.06	1/4	1,469.16	1/4	1,195.27	1/4	921.37	1/4	647.47	1/4	373.92	1/4	100.23	1/4		1/4		1/4	
1/2	1,737.36	1/2	1,463.46	1/2	1,189.56	1/2	915.66	1/2	641.77	1/2	368.23	1/2	94.52	1/2		1/2		1/2	
3/4	1,731.65	3/4	1,457.75	3/4	1,183.85	3/4	909.96	3/4	636.06	3/4	362.54	3/4	88.83	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,605.21	0	3,357.99	0	3,084.84	0	2,811.06	0	2,537.28	0	2,263.50
1/4		1/4		1/4		1/4		1/4	3,602.17	1/4	3,352.30	1/4	3,079.13	1/4	2,805.36	1/4	2,531.58	1/4	2,257.80
1/2		1/2		1/2		1/2		1/2	3,599.12	1/2	3,346.61	1/2	3,073.43	1/2	2,799.65	1/2	2,525.87	1/2	2,252.10
3/4		3/4		3/4		3/4		3/4	3,595.54	3/4	3,340.92	3/4	3,067.73	3/4	2,793.95	3/4	2,520.17	3/4	2,246.39
1		1		1		1		1	3,591.95	1	3,335.23	1	3,062.02	1	2,788.24	1	2,514.47	1	2,240.68
1/4		1/4		1/4		1/4		1/4	3,588.37	1/4	3,329.55	1/4	3,056.32	1/4	2,782.54	1/4	2,508.76	1/4	2,234.97
1/2		1/2		1/2		1/2		1/2	3,584.78	1/2	3,323.86	1/2	3,050.61	1/2	2,776.84	1/2	2,503.06	1/2	2,229.27
3/4		3/4		3/4		3/4		3/4	3,580.65	3/4	3,318.17	3/4	3,044.91	3/4	2,771.13	3/4	2,497.36	3/4	2,223.56
2		2		2		2		2	3,576.52	2	3,312.48	2	3,039.21	2	2,765.43	2	2,491.65	2	2,217.85
1/4		1/4		1/4		1/4		1/4	3,572.39	1/4	3,306.79	1/4	3,033.50	1/4	2,759.73	1/4	2,485.95	1/4	2,212.15
1/2		1/2		1/2		1/2		1/2	3,568.27	1/2	3,301.10	1/2	3,027.80	1/2	2,754.02	1/2	2,480.24	1/2	2,206.44
3/4		3/4		3/4		3/4		3/4	3,563.59	3/4	3,295.41	3/4	3,022.10	3/4	2,748.32	3/4	2,474.54	3/4	2,200.73
3		3		3		3		3	3,558.92	3	3,289.73	3	3,016.39	3	2,742.61	3	2,468.84	3	2,195.03
1/4		1/4		1/4		1/4		1/4	3,554.25	1/4	3,284.04	1/4	3,010.69	1/4	2,736.91	1/4	2,463.13	1/4	2,189.32
1/2		1/2		1/2		1/2		1/2	3,549.58	1/2	3,278.35	1/2	3,004.98	1/2	2,731.21	1/2	2,457.43	1/2	2,183.62
3/4		3/4		3/4		3/4		3/4	3,544.36	3/4	3,272.66	3/4	2,999.28	3/4	2,725.50	3/4	2,451.73	3/4	2,177.91
4		4		4		4		4	3,539.14	4	3,266.97	4	2,993.58	4	2,719.80	4	2,446.02	4	2,172.20
1/4		1/4		1/4		1/4		1/4	3,533.93	1/4	3,261.28	1/4	2,987.87	1/4	2,714.10	1/4	2,440.32	1/4	2,166.50
1/2		1/2		1/2		1/2		1/2	3,528.71	1/2	3,255.60	1/2	2,982.17	1/2	2,708.39	1/2	2,434.61	1/2	2,160.79
3/4		3/4		3/4		3/4		3/4	3,523.02	3/4	3,249.91	3/4	2,976.47	3/4	2,702.69	3/4	2,428.91	3/4	2,155.09
5		5		5		5		5	3,517.33	5	3,244.22	5	2,970.76	5	2,696.98	5	2,423.21	5	2,149.38
1/4		1/4		1/4		1/4		1/4	3,511.64	1/4	3,238.53	1/4	2,965.06	1/4	2,691.28	1/4	2,417.50	1/4	2,143.67
1/2		1/2		1/2		1/2		1/2	3,505.94	1/2	3,232.84	1/2	2,959.36	1/2	2,685.58	1/2	2,411.80	1/2	2,137.97
3/4		3/4		3/4		3/4		3/4	3,500.25	3/4	3,227.15	3/4	2,953.65	3/4	2,679.87	3/4	2,406.10	3/4	2,132.26
6		6		6		6		6	3,494.56	6	3,221.46	6	2,947.95	6	2,674.17	6	2,400.39	6	2,126.55
1/4		1/4		1/4		1/4		1/4	3,488.87	1/4	3,215.78	1/4	2,942.24	1/4	2,668.47	1/4	2,394.69	1/4	2,120.85
1/2		1/2		1/2		1/2		1/2	3,483.18	1/2	3,210.09	1/2	2,936.54	1/2	2,662.76	1/2	2,388.99	1/2	2,115.14
3/4		3/4		3/4		3/4		3/4	3,477.49	3/4	3,204.40	3/4	2,930.84	3/4	2,657.06	3/4	2,383.28	3/4	2,109.44
7		7		7		7		7	3,471.80	7	3,198.71	7	2,925.13	7	2,651.36	7	2,377.58	7	2,103.73
1/4		1/4		1/4		1/4		1/4	3,466.11	1/4	3,193.02	1/4	2,919.43	1/4	2,645.65	1/4	2,371.87	1/4	2,098.02
1/2		1/2		1/2		1/2		1/2	3,460.42	1/2	3,187.33	1/2	2,913.73	1/2	2,639.95	1/2	2,366.17	1/2	2,092.32
3/4		3/4		3/4		3/4		3/4	3,454.72	3/4	3,181.64	3/4	2,908.02	3/4	2,634.24	3/4	2,360.47	3/4	2,086.61
8		8		8		8		8	3,449.03	8	3,175.96	8	2,902.32	8	2,628.54	8	2,354.76	8	2,080.90
1/4		1/4		1/4		1/4		1/4	3,443.34	1/4	3,170.27	1/4	2,896.61	1/4	2,622.84	1/4	2,349.06	1/4	2,075.20
1/2		1/2		1/2		1/2		1/2	3,437.65	1/2	3,164.58	1/2	2,890.91	1/2	2,617.13	1/2	2,343.36	1/2	2,069.49
3/4		3/4		3/4		3/4		3/4	3,431.96	3/4	3,158.89	3/4	2,885.21	3/4	2,611.43	3/4	2,337.65	3/4	2,063.79
9		9		9		9		9	3,426.27	9	3,153.20	9	2,879.50	9	2,605.73	9	2,331.95	9	2,058.08
1/4		1/4		1/4		1/4		1/4	3,420.58	1/4	3,147.51	1/4	2,873.80	1/4	2,600.02	1/4	2,326.24	1/4	2,052.37
1/2		1/2		1/2		1/2		1/2	3,414.89	1/2	3,141.83	1/2	2,868.10	1/2	2,594.32	1/2	2,320.54	1/2	2,046.67
3/4		3/4		3/4		3/4		3/4	3,409.19	3/4	3,136.13	3/4	2,862.39	3/4	2,588.61	3/4	2,314.84	3/4	2,040.96
10		10		10		10		10	3,403.50	10	3,130.44	10	2,856.69	10	2,582.91	10	2,309.13	10	2,035.26
1/4		1/4		1/4		1/4		1/4	3,397.81	1/4	3,124.75	1/4	2,850.98	1/4	2,577.21	1/4	2,303.43	1/4	2,029.55
1/2		1/2		1/2		1/2		1/2	3,392.12	1/2	3,119.06	1/2	2,845.28	1/2	2,571.50	1/2	2,297.73	1/2	2,023.84
3/4		3/4		3/4		3/4		3/4	3,386.43	3/4	3,113.36	3/4	2,839.58	3/4	2,565.80	3/4	2,292.02	3/4	2,018.14
11		11		11		11		11	3,380.74	11	3,107.65	11	2,833.87	11	2,560.10	11	2,286.32	11	2,012.43
1/4		1/4		1/4		1/4		1/4	3,375.05	1/4	3,101.95	1/4	2,828.17	1/4	2,554.39	1/4	2,280.61	1/4	2,006.72
1/2		1/2		1/2		1/2		1/2	3,369.37	1/2	3,096.24	1/2	2,822.47	1/2	2,548.69	1/2	2,274.91	1/2	2,001.02
3/4		3/4		3/4		3/4		3/4	3,363.68	3/4	3,090.54	3/4	2,816.76	3/4	2,542.99	3/4	2,269.21	3/4	1,995.31

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,989.61	0	1,715.71	0	1,441.81	0	1,167.91	0	894.02	0	620.12	0	354.81	0	83.14	0		0	
1/4	1,983.90	1/4	1,710.00	1/4	1,436.10	1/4	1,162.21	1/4	888.31	1/4	614.41	1/4	349.34	1/4	77.45	1/4		1/4	
1/2	1,978.19	1/2	1,704.30	1/2	1,430.40	1/2	1,156.50	1/2	882.60	1/2	608.71	1/2	343.86	1/2	71.76	1/2		1/2	
3/4	1,972.49	3/4	1,698.59	3/4	1,424.69	3/4	1,150.79	3/4	876.90	3/4	603.00	3/4	338.38	3/4	66.29	3/4		3/4	
1	1,966.78	1	1,692.88	1	1,418.99	1	1,145.09	1	871.19	1	597.29	1	332.91	1	60.83	1		1	
1/4	1,961.07	1/4	1,687.18	1/4	1,413.28	1/4	1,139.38	1/4	865.48	1/4	591.59	1/4	327.43	1/4	55.37	1/4		1/4	
1/2	1,955.37	1/2	1,681.47	1/2	1,407.57	1/2	1,133.68	1/2	859.78	1/2	585.88	1/2	321.95	1/2	49.90	1/2		1/2	
3/4	1,949.66	3/4	1,675.76	3/4	1,401.87	3/4	1,127.97	3/4	854.07	3/4	580.20	3/4	316.45	3/4	45.36	3/4		3/4	
2	1,943.96	2	1,670.06	2	1,396.16	2	1,122.26	2	848.37	2	574.52	2	310.94	2	40.83	2		2	
1/4	1,938.25	1/4	1,664.35	1/4	1,390.45	1/4	1,116.56	1/4	842.66	1/4	568.84	1/4	305.44	1/4	36.29	1/4		1/4	
1/2	1,932.54	1/2	1,658.65	1/2	1,384.75	1/2	1,110.85	1/2	836.95	1/2	563.16	1/2	299.93	1/2	31.75	1/2		1/2	
3/4	1,926.84	3/4	1,652.94	3/4	1,379.04	3/4	1,105.14	3/4	831.25	3/4	557.66	3/4	294.23	3/4	28.25	3/4		3/4	
3	1,921.13	3	1,647.23	3	1,373.34	3	1,099.44	3	825.54	3	552.16	3	288.52	3	24.74	3		3	
1/4	1,915.42	1/4	1,641.53	1/4	1,367.63	1/4	1,093.73	1/4	819.83	1/4	546.67	1/4	282.81	1/4	21.24	1/4		1/4	
1/2	1,909.72	1/2	1,635.82	1/2	1,361.92	1/2	1,088.03	1/2	814.13	1/2	541.17	1/2	277.11	1/2	17.74	1/2		1/2	
3/4	1,904.01	3/4	1,630.11	3/4	1,356.22	3/4	1,082.32	3/4	808.42	3/4	535.67	3/4	271.40	3/4		3/4		3/4	
4	1,898.31	4	1,624.41	4	1,350.51	4	1,076.61	4	802.72	4	530.18	4	265.70	4		4		4	
1/4	1,892.60	1/4	1,618.70	1/4	1,344.80	1/4	1,070.91	1/4	797.01	1/4	524.68	1/4	259.99	1/4		1/4		1/4	
1/2	1,886.89	1/2	1,613.00	1/2	1,339.10	1/2	1,065.20	1/2	791.30	1/2	519.18	1/2	254.28	1/2		1/2		1/2	
3/4	1,881.19	3/4	1,607.29	3/4	1,333.39	3/4	1,059.49	3/4	785.60	3/4	513.70	3/4	248.58	3/4		3/4		3/4	
5	1,875.48	5	1,601.58	5	1,327.69	5	1,053.79	5	779.89	5	508.21	5	242.87	5		5		5	
1/4	1,869.78	1/4	1,595.88	1/4	1,321.98	1/4	1,048.08	1/4	774.18	1/4	502.72	1/4	237.17	1/4		1/4		1/4	
1/2	1,864.07	1/2	1,590.17	1/2	1,316.27	1/2	1,042.38	1/2	768.48	1/2	497.24	1/2	231.46	1/2		1/2		1/2	
3/4	1,858.36	3/4	1,584.47	3/4	1,310.57	3/4	1,036.67	3/4	762.77	3/4	491.75	3/4	225.75	3/4		3/4		3/4	
6	1,852.66	6	1,578.76	6	1,304.86	6	1,030.96	6	757.07	6	486.27	6	220.05	6		6		6	
1/4	1,846.95	1/4	1,573.05	1/4	1,299.16	1/4	1,025.26	1/4	751.36	1/4	480.78	1/4	214.34	1/4		1/4		1/4	
1/2	1,841.24	1/2	1,567.35	1/2	1,293.45	1/2	1,019.55	1/2	745.65	1/2	475.30	1/2	208.64	1/2		1/2		1/2	
3/4	1,835.54	3/4	1,561.64	3/4	1,287.74	3/4	1,013.85	3/4	739.95	3/4	469.82	3/4	202.93	3/4		3/4		3/4	
7	1,829.83	7	1,555.93	7	1,282.04	7	1,008.14	7	734.24	7	464.35	7	197.22	7		7		7	
1/4	1,824.13	1/4	1,550.23	1/4	1,276.33	1/4	1,002.43	1/4	728.54	1/4	458.87	1/4	191.52	1/4		1/4		1/4	
1/2	1,818.42	1/2	1,544.52	1/2	1,270.62	1/2	996.73	1/2	722.83	1/2	453.39	1/2	185.81	1/2		1/2		1/2	
3/4	1,812.71	3/4	1,538.82	3/4	1,264.92	3/4	991.02	3/4	717.12	3/4	447.92	3/4	180.11	3/4		3/4		3/4	
8	1,807.01	8	1,533.11	8	1,259.21	8	985.31	8	711.42	8	442.44	8	174.40	8		8		8	
1/4	1,801.30	1/4	1,527.40	1/4	1,253.51	1/4	979.61	1/4	705.71	1/4	436.96	1/4	168.69	1/4		1/4		1/4	
1/2	1,795.59	1/2	1,521.70	1/2	1,247.80	1/2	973.90	1/2	700.00	1/2	431.49	1/2	162.99	1/2		1/2		1/2	
3/4	1,789.89	3/4	1,515.99	3/4	1,242.09	3/4	968.20	3/4	694.30	3/4	426.01	3/4	157.28	3/4		3/4		3/4	
9	1,784.18	9	1,510.28	9	1,236.39	9	962.49	9	688.59	9	420.53	9	151.58	9		9		9	
1/4	1,778.48	1/4	1,504.58	1/4	1,230.68	1/4	956.78	1/4	682.89	1/4	415.06	1/4	145.87	1/4		1/4		1/4	
1/2	1,772.77	1/2	1,498.87	1/2	1,224.97	1/2	951.08	1/2	677.18	1/2	409.58	1/2	140.16	1/2		1/2		1/2	
3/4	1,767.06	3/4	1,493.17	3/4	1,219.27	3/4	945.37	3/4	671.47	3/4	404.10	3/4	134.46	3/4		3/4		3/4	
10	1,761.36	10	1,487.46	10	1,213.56	10	939.66	10	665.77	10	398.63	10	128.75	10		10		10	
1/4	1,755.65	1/4	1,481.75	1/4	1,207.86	1/4	933.96	1/4	660.06	1/4	393.15	1/4	123.05	1/4		1/4		1/4	
1/2	1,749.95	1/2	1,476.05	1/2	1,202.15	1/2	928.25	1/2	654.35	1/2	387.67	1/2	117.34	1/2		1/2		1/2	
3/4	1,744.24	3/4	1,470.34	3/4	1,196.44	3/4	922.55	3/4	648.65	3/4	382.20	3/4	111.63	3/4		3/4		3/4	
11	1,738.53	11	1,464.64	11	1,190.74	11	916.84	11	642.94	11	376.72	11	105.93	11		11		11	
1/4	1,732.83	1/4	1,458.93	1/4	1,185.03	1/4	911.13	1/4	637.24	1/4	371.24	1/4	100.22	1/4		1/4		1/4	
1/2	1,727.12	1/2	1,453.22	1/2	1,179.33	1/2	905.43	1/2	631.53	1/2	365.77	1/2	94.52	1/2		1/2		1/2	
3/4	1,721.41	3/4	1,447.52	3/4	1,173.62	3/4	899.72	3/4	625.82	3/4	360.29	3/4	88.83	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0		0	3,625.93	0	3,380.85	0	3,107.15	0	2,832.81	0	2,558.48	0	2,284.14
1/4		1/4		1/4		1/4		1/4	3,622.88	1/4	3,375.15	1/4	3,101.44	1/4	2,827.10	1/4	2,552.76	1/4	2,278.42
1/2		1/2		1/2		1/2		1/2	3,619.83	1/2	3,369.45	1/2	3,095.72	1/2	2,821.38	1/2	2,547.04	1/2	2,272.71
3/4		3/4		3/4		3/4		3/4	3,616.79	3/4	3,363.75	3/4	3,090.01	3/4	2,815.67	3/4	2,541.33	3/4	2,266.99
1		1		1		1		1	3,613.19	1	3,358.05	1	3,084.29	1	2,809.95	1	2,535.61	1	2,261.27
1/4		1/4		1/4		1/4		1/4	3,609.60	1/4	3,352.35	1/4	3,078.58	1/4	2,804.24	1/4	2,529.90	1/4	2,255.55
1/2		1/2		1/2		1/2		1/2	3,606.01	1/2	3,346.65	1/2	3,072.86	1/2	2,798.52	1/2	2,524.18	1/2	2,249.83
3/4		3/4		3/4		3/4		3/4	3,602.41	3/4	3,340.95	3/4	3,067.15	3/4	2,792.81	3/4	2,518.47	3/4	2,244.10
2		2		2		2		2	3,598.28	2	3,335.25	2	3,061.43	2	2,787.09	2	2,512.75	2	2,238.39
1/4		1/4		1/4		1/4		1/4	3,594.14	1/4	3,329.55	1/4	3,055.71	1/4	2,781.38	1/4	2,507.04	1/4	2,232.67
1/2		1/2		1/2		1/2		1/2	3,590.00	1/2	3,323.85	1/2	3,050.00	1/2	2,775.66	1/2	2,501.32	1/2	2,226.95
3/4		3/4		3/4		3/4		3/4	3,585.86	3/4	3,318.15	3/4	3,044.28	3/4	2,769.94	3/4	2,495.61	3/4	2,221.23
3		3		3		3		3	3,581.18	3	3,312.45	3	3,038.57	3	2,764.23	3	2,489.89	3	2,215.52
1/4		1/4		1/4		1/4		1/4	3,576.50	1/4	3,306.75	1/4	3,032.85	1/4	2,758.51	1/4	2,484.17	1/4	2,209.80
1/2		1/2		1/2		1/2		1/2	3,571.82	1/2	3,301.05	1/2	3,027.14	1/2	2,752.80	1/2	2,478.46	1/2	2,204.08
3/4		3/4		3/4		3/4		3/4	3,567.14	3/4	3,295.35	3/4	3,021.42	3/4	2,747.08	3/4	2,472.74	3/4	2,198.36
4		4		4		4		4	3,561.91	4	3,289.65	4	3,015.71	4	2,741.37	4	2,467.03	4	2,192.64
1/4		1/4		1/4		1/4		1/4	3,556.68	1/4	3,283.95	1/4	3,009.99	1/4	2,735.65	1/4	2,461.31	1/4	2,186.93
1/2		1/2		1/2		1/2		1/2	3,551.45	1/2	3,278.25	1/2	3,004.28	1/2	2,729.94	1/2	2,455.60	1/2	2,181.21
3/4		3/4		3/4		3/4		3/4	3,546.23	3/4	3,272.55	3/4	2,998.56	3/4	2,724.22	3/4	2,449.88	3/4	2,175.49
5		5		5		5		5	3,540.52	5	3,266.85	5	2,992.85	5	2,718.51	5	2,444.17	5	2,169.77
1/4		1/4		1/4		1/4		1/4	3,534.82	1/4	3,261.15	1/4	2,987.13	1/4	2,712.79	1/4	2,438.45	1/4	2,164.05
1/2		1/2		1/2		1/2		1/2	3,529.12	1/2	3,255.45	1/2	2,981.41	1/2	2,707.08	1/2	2,432.74	1/2	2,158.34
3/4		3/4		3/4		3/4		3/4	3,523.41	3/4	3,249.75	3/4	2,975.70	3/4	2,701.36	3/4	2,427.02	3/4	2,152.62
6		6		6		6		6	3,517.71	6	3,244.05	6	2,969.98	6	2,695.64	6	2,421.31	6	2,146.90
1/4		1/4		1/4		1/4		1/4	3,512.01	1/4	3,238.35	1/4	2,964.27	1/4	2,689.93	1/4	2,415.59	1/4	2,141.18
1/2		1/2		1/2		1/2		1/2	3,506.31	1/2	3,232.65	1/2	2,958.55	1/2	2,684.21	1/2	2,409.87	1/2	2,135.46
3/4		3/4		3/4		3/4		3/4	3,500.60	3/4	3,226.95	3/4	2,952.84	3/4	2,678.50	3/4	2,404.16	3/4	2,129.75
7		7		7		7		7	3,494.90	7	3,221.25	7	2,947.12	7	2,672.78	7	2,398.44	7	2,124.03
1/4		1/4		1/4		1/4		1/4	3,489.20	1/4	3,215.55	1/4	2,941.41	1/4	2,667.07	1/4	2,392.73	1/4	2,118.31
1/2		1/2		1/2		1/2		1/2	3,483.50	1/2	3,209.85	1/2	2,935.69	1/2	2,661.35	1/2	2,387.01	1/2	2,112.59
3/4		3/4		3/4		3/4		3/4	3,477.79	3/4	3,204.15	3/4	2,929.98	3/4	2,655.64	3/4	2,381.30	3/4	2,106.88
8		8		8		8		8	3,472.09	8	3,198.45	8	2,924.26	8	2,649.92	8	2,375.58	8	2,101.16
1/4		1/4		1/4		1/4		1/4	3,466.39	1/4	3,192.75	1/4	2,918.55	1/4	2,644.21	1/4	2,369.87	1/4	2,095.44
1/2		1/2		1/2		1/2		1/2	3,460.68	1/2	3,187.05	1/2	2,912.83	1/2	2,638.49	1/2	2,364.15	1/2	2,089.72
3/4		3/4		3/4		3/4		3/4	3,454.98	3/4	3,181.35	3/4	2,907.11	3/4	2,632.78	3/4	2,358.44	3/4	2,084.00
9		9		9		9		9	3,449.28	9	3,175.65	9	2,901.40	9	2,627.06	9	2,352.72	9	2,078.29
1/4		1/4		1/4		1/4		1/4	3,443.58	1/4	3,169.95	1/4	2,895.68	1/4	2,621.34	1/4	2,347.01	1/4	2,072.57
1/2		1/2		1/2		1/2		1/2	3,437.87	1/2	3,164.25	1/2	2,889.97	1/2	2,615.63	1/2	2,341.29	1/2	2,066.85
3/4		3/4		3/4		3/4		3/4	3,432.17	3/4	3,158.55	3/4	2,884.25	3/4	2,609.91	3/4	2,335.57	3/4	2,061.13
10		10		10		10		10	3,426.47	10	3,152.84	10	2,878.54	10	2,604.20	10	2,329.86	10	2,055.41
1/4		1/4		1/4		1/4		1/4	3,420.76	1/4	3,147.14	1/4	2,872.82	1/4	2,598.48	1/4	2,324.14	1/4	2,049.70
1/2		1/2		1/2		1/2		1/2	3,415.06	1/2	3,141.43	1/2	2,867.11	1/2	2,592.77	1/2	2,318.43	1/2	2,043.98
3/4		3/4		3/4		3/4		3/4	3,409.36	3/4	3,135.73	3/4	2,861.39	3/4	2,587.05	3/4	2,312.71	3/4	2,038.26
11		11		11		11		11	3,403.66	11	3,130.02	11	2,855.68	11	2,581.34	11	2,307.00	11	2,032.54
1/4		1/4		1/4		1/4		1/4	3,397.96	1/4	3,124.30	1/4	2,849.96	1/4	2,575.62	1/4	2,301.28	1/4	2,026.82
1/2		1/2		1/2		1/2		1/2	3,392.26	1/2	3,118.58	1/2	2,844.25	1/2	2,569.91	1/2	2,295.57	1/2	2,021.11
3/4		3/4		3/4		3/4		3/4	3,386.56	3/4	3,112.87	3/4	2,838.53	3/4	2,564.19	3/4	2,289.85	3/4	2,015.39

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,009.67	0	1,735.21	0	1,460.75	0	1,186.29	0	911.83	0	637.38	0	363.29	0	89.02	0		0	
1/4	2,003.95	1/4	1,729.49	1/4	1,455.03	1/4	1,180.58	1/4	906.12	1/4	631.66	1/4	357.59	1/4	83.32	1/4		1/4	
1/2	1,998.24	1/2	1,723.78	1/2	1,449.32	1/2	1,174.86	1/2	900.40	1/2	625.94	1/2	351.89	1/2	77.61	1/2		1/2	
3/4	1,992.52	3/4	1,718.06	3/4	1,443.60	3/4	1,169.14	3/4	894.68	3/4	620.22	3/4	346.18	3/4	71.91	3/4		3/4	
1	1,986.80	1	1,712.34	1	1,437.88	1	1,163.42	1	888.96	1	614.50	1	340.48	1	66.44	1		1	
1/4	1,981.08	1/4	1,706.62	1/4	1,432.16	1/4	1,157.70	1/4	883.24	1/4	608.79	1/4	334.78	1/4	60.96	1/4		1/4	
1/2	1,975.36	1/2	1,700.90	1/2	1,426.45	1/2	1,151.99	1/2	877.53	1/2	603.07	1/2	329.08	1/2	55.49	1/2		1/2	
3/4	1,969.65	3/4	1,695.19	3/4	1,420.73	3/4	1,146.27	3/4	871.81	3/4	597.35	3/4	323.37	3/4	50.01	3/4		3/4	
2	1,963.93	2	1,689.47	2	1,415.01	2	1,140.55	2	866.09	2	591.63	2	317.67	2	45.47	2		2	
1/4	1,958.21	1/4	1,683.75	1/4	1,409.29	1/4	1,134.83	1/4	860.37	1/4	585.91	1/4	311.97	1/4	40.92	1/4		1/4	
1/2	1,952.49	1/2	1,678.03	1/2	1,403.57	1/2	1,129.11	1/2	854.66	1/2	580.20	1/2	306.26	1/2	36.37	1/2		1/2	
3/4	1,946.77	3/4	1,672.31	3/4	1,397.86	3/4	1,123.40	3/4	848.94	3/4	574.48	3/4	300.56	3/4	31.82	3/4		3/4	
3	1,941.06	3	1,666.60	3	1,392.14	3	1,117.68	3	843.22	3	568.76	3	294.84	3	28.31	3		3	
1/4	1,935.34	1/4	1,660.88	1/4	1,386.42	1/4	1,111.96	1/4	837.50	1/4	563.04	1/4	289.12	1/4	24.80	1/4		1/4	
1/2	1,929.62	1/2	1,655.16	1/2	1,380.70	1/2	1,106.24	1/2	831.78	1/2	557.32	1/2	283.41	1/2	21.29	1/2		1/2	
3/4	1,923.90	3/4	1,649.44	3/4	1,374.98	3/4	1,100.52	3/4	826.07	3/4	551.61	3/4	277.69	3/4	17.78	3/4		3/4	
4	1,918.18	4	1,643.73	4	1,369.27	4	1,094.81	4	820.35	4	545.89	4	271.97	4		4		4	
1/4	1,912.47	1/4	1,638.01	1/4	1,363.55	1/4	1,089.09	1/4	814.63	1/4	540.17	1/4	266.25	1/4		1/4		1/4	
1/2	1,906.75	1/2	1,632.29	1/2	1,357.83	1/2	1,083.37	1/2	808.91	1/2	534.45	1/2	260.53	1/2		1/2		1/2	
3/4	1,901.03	3/4	1,626.57	3/4	1,352.11	3/4	1,077.65	3/4	803.19	3/4	528.74	3/4	254.82	3/4		3/4		3/4	
5	1,895.31	5	1,620.85	5	1,346.39	5	1,071.94	5	797.48	5	523.02	5	249.10	5		5		5	
1/4	1,889.60	1/4	1,615.14	1/4	1,340.68	1/4	1,066.22	1/4	791.76	1/4	517.31	1/4	243.38	1/4		1/4		1/4	
1/2	1,883.88	1/2	1,609.42	1/2	1,334.96	1/2	1,060.50	1/2	786.04	1/2	511.60	1/2	237.66	1/2		1/2		1/2	
3/4	1,878.16	3/4	1,603.70	3/4	1,329.24	3/4	1,054.78	3/4	780.32	3/4	505.89	3/4	231.95	3/4		3/4		3/4	
6	1,872.44	6	1,597.98	6	1,323.52	6	1,049.06	6	774.60	6	500.18	6	226.23	6		6		6	
1/4	1,866.72	1/4	1,592.26	1/4	1,317.81	1/4	1,043.35	1/4	768.89	1/4	494.46	1/4	220.51	1/4		1/4		1/4	
1/2	1,861.01	1/2	1,586.55	1/2	1,312.09	1/2	1,037.63	1/2	763.17	1/2	488.75	1/2	214.79	1/2		1/2		1/2	
3/4	1,855.29	3/4	1,580.83	3/4	1,306.37	3/4	1,031.91	3/4	757.45	3/4	483.04	3/4	209.07	3/4		3/4		3/4	
7	1,849.57	7	1,575.11	7	1,300.65	7	1,026.19	7	751.73	7	477.34	7	203.36	7		7		7	
1/4	1,843.85	1/4	1,569.39	1/4	1,294.93	1/4	1,020.47	1/4	746.02	1/4	471.64	1/4	197.64	1/4		1/4		1/4	
1/2	1,838.13	1/2	1,563.67	1/2	1,289.22	1/2	1,014.76	1/2	740.30	1/2	465.93	1/2	191.92	1/2		1/2		1/2	
3/4	1,832.42	3/4	1,557.96	3/4	1,283.50	3/4	1,009.04	3/4	734.58	3/4	460.23	3/4	186.20	3/4		3/4		3/4	
8	1,826.70	8	1,552.24	8	1,277.78	8	1,003.32	8	728.86	8	454.53	8	180.49	8		8		8	
1/4	1,820.98	1/4	1,546.52	1/4	1,272.06	1/4	997.60	1/4	723.14	1/4	448.83	1/4	174.77	1/4		1/4		1/4	
1/2	1,815.26	1/2	1,540.80	1/2	1,266.34	1/2	991.88	1/2	717.43	1/2	443.13	1/2	169.05	1/2		1/2		1/2	
3/4	1,809.54	3/4	1,535.09	3/4	1,260.63	3/4	986.17	3/4	711.71	3/4	437.42	3/4	163.33	3/4		3/4		3/4	
9	1,803.83	9	1,529.37	9	1,254.91	9	980.45	9	705.99	9	431.72	9	157.61	9		9		9	
1/4	1,798.11	1/4	1,523.65	1/4	1,249.19	1/4	974.73	1/4	700.27	1/4	426.02	1/4	151.90	1/4		1/4		1/4	
1/2	1,792.39	1/2	1,517.93	1/2	1,243.47	1/2	969.01	1/2	694.55	1/2	420.32	1/2	146.18	1/2		1/2		1/2	
3/4	1,786.67	3/4	1,512.21	3/4	1,237.75	3/4	963.30	3/4	688.84	3/4	414.61	3/4	140.46	3/4		3/4		3/4	
10	1,780.96	10	1,506.50	10	1,232.04	10	957.58	10	683.12	10	408.91	10	134.74	10		10		10	
1/4	1,775.24	1/4	1,500.78	1/4	1,226.32	1/4	951.86	1/4	677.40	1/4	403.21	1/4	129.03	1/4		1/4		1/4	
1/2	1,769.52	1/2	1,495.06	1/2	1,220.60	1/2	946.14	1/2	671.68	1/2	397.51	1/2	123.31	1/2		1/2		1/2	
3/4	1,763.80	3/4	1,489.34	3/4	1,214.88	3/4	940.42	3/4	665.96	3/4	391.80	3/4	117.59	3/4		3/4		3/4	
11	1,758.08	11	1,483.62	11	1,209.17	11	934.71	11	660.25	11	386.10	11	111.87	11		11		11	
1/4	1,752.37	1/4	1,477.91	1/4	1,203.45	1/4	928.99	1/4	654.53	1/4	380.40	1/4	106.15	1/4		1/4		1/4	
1/2	1,746.65	1/2	1,472.19	1/2	1,197.73	1/2	923.27	1/2	648.81	1/2	374.70	1/2	100.44	1/2		1/2		1/2	
3/4	1,740.93	3/4	1,466.47	3/4	1,192.01	3/4	917.55	3/4	643.09	3/4	368.99	3/4	94.72	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,605.85	0	3,352.87	0	3,079.17	0	2,804.89	0	2,530.60	0	2,256.31
1/4		1/4		1/4		1/4		1/4	3,602.25	1/4	3,347.17	1/4	3,073.46	1/4	2,799.17	1/4	2,524.89	1/4	2,250.60
1/2		1/2		1/2		1/2		1/2	3,598.66	1/2	3,341.48	1/2	3,067.74	1/2	2,793.46	1/2	2,519.17	1/2	2,244.88
3/4		3/4		3/4		3/4		3/4	3,595.07	3/4	3,335.78	3/4	3,062.03	3/4	2,787.74	3/4	2,513.46	3/4	2,239.17
1		1		1		1		1	3,591.48	1	3,330.08	1	3,056.32	1	2,782.03	1	2,507.74	1	2,233.45
1/4		1/4		1/4		1/4		1/4	3,587.34	1/4	3,324.38	1/4	3,050.60	1/4	2,776.31	1/4	2,502.03	1/4	2,227.74
1/2		1/2		1/2		1/2		1/2	3,583.20	1/2	3,318.68	1/2	3,044.89	1/2	2,770.60	1/2	2,496.31	1/2	2,222.02
3/4		3/4		3/4		3/4		3/4	3,579.07	3/4	3,312.98	3/4	3,039.17	3/4	2,764.89	3/4	2,490.60	3/4	2,216.30
2		2		2		2		2	3,574.93	2	3,307.28	2	3,033.46	2	2,759.17	2	2,484.89	2	2,210.59
1/4		1/4		1/4		1/4		1/4	3,570.25	1/4	3,301.58	1/4	3,027.74	1/4	2,753.46	1/4	2,479.17	1/4	2,204.87
1/2		1/2		1/2		1/2		1/2	3,565.57	1/2	3,295.88	1/2	3,022.03	1/2	2,747.74	1/2	2,473.46	1/2	2,199.15
3/4		3/4		3/4		3/4		3/4	3,560.89	3/4	3,290.18	3/4	3,016.32	3/4	2,742.03	3/4	2,467.74	3/4	2,193.44
3		3		3		3		3	3,556.21	3	3,284.48	3	3,010.60	3	2,736.31	3	2,462.03	3	2,187.72
1/4		1/4		1/4		1/4		1/4	3,550.98	1/4	3,278.78	1/4	3,004.89	1/4	2,730.60	1/4	2,456.31	1/4	2,182.00
1/2		1/2		1/2		1/2		1/2	3,545.76	1/2	3,273.09	1/2	2,999.17	1/2	2,724.89	1/2	2,450.60	1/2	2,176.29
3/4		3/4		3/4		3/4		3/4	3,540.53	3/4	3,267.39	3/4	2,993.46	3/4	2,719.17	3/4	2,444.89	3/4	2,170.57
4		4		4		4		4	3,535.31	4	3,261.69	4	2,987.74	4	2,713.46	4	2,439.17	4	2,164.85
1/4		1/4		1/4		1/4		1/4	3,529.61	1/4	3,255.99	1/4	2,982.03	1/4	2,707.74	1/4	2,433.46	1/4	2,159.13
1/2		1/2		1/2		1/2		1/2	3,523.91	1/2	3,250.29	1/2	2,976.32	1/2	2,702.03	1/2	2,427.74	1/2	2,153.42
3/4		3/4		3/4		3/4		3/4	3,518.20	3/4	3,244.59	3/4	2,970.60	3/4	2,696.31	3/4	2,422.03	3/4	2,147.70
5		5		5		5		5	3,512.50	5	3,238.89	5	2,964.89	5	2,690.60	5	2,416.31	5	2,141.98
1/4		1/4		1/4		1/4		1/4	3,506.80	1/4	3,233.19	1/4	2,959.17	1/4	2,684.89	1/4	2,410.60	1/4	2,136.27
1/2		1/2		1/2		1/2		1/2	3,501.10	1/2	3,227.49	1/2	2,953.46	1/2	2,679.17	1/2	2,404.88	1/2	2,130.55
3/4		3/4		3/4		3/4		3/4	3,495.40	3/4	3,221.79	3/4	2,947.74	3/4	2,673.46	3/4	2,399.17	3/4	2,124.83
6		6		6		6		6	3,489.70	6	3,216.09	6	2,942.03	6	2,667.74	6	2,393.46	6	2,119.12
1/4		1/4		1/4		1/4		1/4	3,483.99	1/4	3,210.39	1/4	2,936.31	1/4	2,662.03	1/4	2,387.74	1/4	2,113.40
1/2		1/2		1/2		1/2		1/2	3,478.29	1/2	3,204.69	1/2	2,930.60	1/2	2,656.31	1/2	2,382.03	1/2	2,107.68
3/4		3/4		3/4		3/4		3/4	3,472.59	3/4	3,199.00	3/4	2,924.89	3/4	2,650.60	3/4	2,376.31	3/4	2,101.97
7		7		7		7		7	3,466.89	7	3,193.30	7	2,919.17	7	2,644.89	7	2,370.60	7	2,096.25
1/4		1/4		1/4		1/4		1/4	3,461.19	1/4	3,187.60	1/4	2,913.46	1/4	2,639.17	1/4	2,364.88	1/4	2,090.53
1/2		1/2		1/2		1/2		1/2	3,455.49	1/2	3,181.90	1/2	2,907.74	1/2	2,633.46	1/2	2,359.17	1/2	2,084.81
3/4		3/4		3/4		3/4		3/4	3,449.78	3/4	3,176.20	3/4	2,902.03	3/4	2,627.74	3/4	2,353.46	3/4	2,079.10
8		8		8		8		8	3,444.08	8	3,170.50	8	2,896.31	8	2,622.03	8	2,347.74	8	2,073.38
1/4		1/4		1/4		1/4		1/4	3,438.38	1/4	3,164.80	1/4	2,890.60	1/4	2,616.31	1/4	2,342.03	1/4	2,067.66
1/2		1/2		1/2		1/2		1/2	3,432.68	1/2	3,159.10	1/2	2,884.89	1/2	2,610.60	1/2	2,336.31	1/2	2,061.95
3/4		3/4		3/4		3/4		3/4	3,426.98	3/4	3,153.40	3/4	2,879.17	3/4	2,604.89	3/4	2,330.60	3/4	2,056.23
9		9		9		9		9	3,421.27	9	3,147.70	9	2,873.46	9	2,599.17	9	2,324.88	9	2,050.51
1/4		1/4		1/4		1/4		1/4	3,415.57	1/4	3,142.00	1/4	2,867.74	1/4	2,593.46	1/4	2,319.17	1/4	2,044.80
1/2		1/2		1/2		1/2		1/2	3,409.87	1/2	3,136.29	1/2	2,862.03	1/2	2,587.74	1/2	2,313.46	1/2	2,039.08
3/4		3/4		3/4		3/4		3/4	3,404.17	3/4	3,130.59	3/4	2,856.31	3/4	2,582.03	3/4	2,307.74	3/4	2,033.36
10		10		10		10		10	3,398.47	10	3,124.89	10	2,850.60	10	2,576.31	10	2,302.03	10	2,027.65
1/4		1/4		1/4		1/4		1/4	3,392.77	1/4	3,119.17	1/4	2,844.89	1/4	2,570.60	1/4	2,296.31	1/4	2,021.93
1/2		1/2		1/2		1/2		1/2	3,387.07	1/2	3,113.46	1/2	2,839.17	1/2	2,564.89	1/2	2,290.60	1/2	2,016.21
3/4		3/4		3/4		3/4		3/4	3,381.37	3/4	3,107.74	3/4	2,833.46	3/4	2,559.17	3/4	2,284.88	3/4	2,010.50
11		11		11		11		11	3,375.67	11	3,102.03	11	2,827.74	11	2,553.46	11	2,279.17	11	2,004.78
1/4		1/4		1/4		1/4		1/4	3,614.99	1/4	3,369.97	1/4	3,096.32	1/4	2,822.03	1/4	2,547.74	1/4	2,273.46
1/2		1/2		1/2		1/2		1/2	3,611.94	1/2	3,364.27	1/2	3,090.60	1/2	2,816.31	1/2	2,542.03	1/2	2,267.74
3/4		3/4		3/4		3/4		3/4	3,608.89	3/4	3,358.57	3/4	3,084.89	3/4	2,810.60	3/4	2,536.31	3/4	2,262.03

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,981.91	0	1,707.50	0	1,433.09	0	1,158.68	0	884.27	0	609.85	0	344.51	0	71.90	0		0	
1/4	1,976.19	1/4	1,701.78	1/4	1,427.37	1/4	1,152.96	1/4	878.55	1/4	604.14	1/4	339.02	1/4	66.42	1/4		1/4	
1/2	1,970.48	1/2	1,696.07	1/2	1,421.65	1/2	1,147.24	1/2	872.83	1/2	598.42	1/2	333.54	1/2	60.95	1/2		1/2	
3/4	1,964.76	3/4	1,690.35	3/4	1,415.94	3/4	1,141.53	3/4	867.12	3/4	592.70	3/4	328.05	3/4	55.48	3/4		3/4	
1	1,959.04	1	1,684.63	1	1,410.22	1	1,135.81	1	861.40	1	586.99	1	322.56	1	50.00	1		1	
1/4	1,953.33	1/4	1,678.92	1/4	1,404.50	1/4	1,130.09	1/4	855.68	1/4	581.30	1/4	317.04	1/4	45.45	1/4		1/4	
1/2	1,947.61	1/2	1,673.20	1/2	1,398.79	1/2	1,124.38	1/2	849.96	1/2	575.61	1/2	311.53	1/2	40.91	1/2		1/2	
3/4	1,941.89	3/4	1,667.48	3/4	1,393.07	3/4	1,118.66	3/4	844.25	3/4	569.91	3/4	306.01	3/4	36.36	3/4		3/4	
2	1,936.18	2	1,661.76	2	1,387.35	2	1,112.94	2	838.53	2	564.22	2	300.50	2	31.81	2		2	
1/4	1,930.46	1/4	1,656.05	1/4	1,381.64	1/4	1,107.23	1/4	832.81	1/4	558.72	1/4	294.78	1/4	28.30	1/4		1/4	
1/2	1,924.74	1/2	1,650.33	1/2	1,375.92	1/2	1,101.51	1/2	827.10	1/2	553.21	1/2	289.06	1/2	24.80	1/2		1/2	
3/4	1,919.02	3/4	1,644.61	3/4	1,370.20	3/4	1,095.79	3/4	821.38	3/4	547.70	3/4	283.35	3/4	21.29	3/4		3/4	
3	1,913.31	3	1,638.90	3	1,364.49	3	1,090.07	3	815.66	3	542.19	3	277.63	3	17.78	3		3	
1/4	1,907.59	1/4	1,633.18	1/4	1,358.77	1/4	1,084.36	1/4	809.95	1/4	536.69	1/4	271.91	1/4		1/4		1/4	
1/2	1,901.87	1/2	1,627.46	1/2	1,353.05	1/2	1,078.64	1/2	804.23	1/2	531.18	1/2	266.20	1/2		1/2		1/2	
3/4	1,896.16	3/4	1,621.75	3/4	1,347.33	3/4	1,072.92	3/4	798.51	3/4	525.67	3/4	260.48	3/4		3/4		3/4	
4	1,890.44	4	1,616.03	4	1,341.62	4	1,067.21	4	792.80	4	520.17	4	254.76	4		4		4	
1/4	1,884.72	1/4	1,610.31	1/4	1,335.90	1/4	1,061.49	1/4	787.08	1/4	514.67	1/4	249.05	1/4		1/4		1/4	
1/2	1,879.01	1/2	1,604.60	1/2	1,330.18	1/2	1,055.77	1/2	781.36	1/2	509.17	1/2	243.33	1/2		1/2		1/2	
3/4	1,873.29	3/4	1,598.88	3/4	1,324.47	3/4	1,050.06	3/4	775.64	3/4	503.67	3/4	237.61	3/4		3/4		3/4	
5	1,867.57	5	1,593.16	5	1,318.75	5	1,044.34	5	769.93	5	498.18	5	231.90	5		5		5	
1/4	1,861.86	1/4	1,587.44	1/4	1,313.03	1/4	1,038.62	1/4	764.21	1/4	492.68	1/4	226.18	1/4		1/4		1/4	
1/2	1,856.14	1/2	1,581.73	1/2	1,307.32	1/2	1,032.91	1/2	758.49	1/2	487.19	1/2	220.46	1/2		1/2		1/2	
3/4	1,850.42	3/4	1,576.01	3/4	1,301.60	3/4	1,027.19	3/4	752.78	3/4	481.69	3/4	214.75	3/4		3/4		3/4	
6	1,844.71	6	1,570.29	6	1,295.88	6	1,021.47	6	747.06	6	476.19	6	209.03	6		6		6	
1/4	1,838.99	1/4	1,564.58	1/4	1,290.17	1/4	1,015.75	1/4	741.34	1/4	470.71	1/4	203.31	1/4		1/4		1/4	
1/2	1,833.27	1/2	1,558.86	1/2	1,284.45	1/2	1,010.04	1/2	735.63	1/2	465.22	1/2	197.60	1/2		1/2		1/2	
3/4	1,827.55	3/4	1,553.14	3/4	1,278.73	3/4	1,004.32	3/4	729.91	3/4	459.73	3/4	191.88	3/4		3/4		3/4	
7	1,821.84	7	1,547.43	7	1,273.02	7	998.60	7	724.19	7	454.25	7	186.16	7		7		7	
1/4	1,816.12	1/4	1,541.71	1/4	1,267.30	1/4	992.89	1/4	718.48	1/4	448.76	1/4	180.45	1/4		1/4		1/4	
1/2	1,810.40	1/2	1,535.99	1/2	1,261.58	1/2	987.17	1/2	712.76	1/2	443.27	1/2	174.73	1/2		1/2		1/2	
3/4	1,804.69	3/4	1,530.28	3/4	1,255.86	3/4	981.45	3/4	707.04	3/4	437.79	3/4	169.01	3/4		3/4		3/4	
8	1,798.97	8	1,524.56	8	1,250.15	8	975.74	8	701.33	8	432.30	8	163.30	8		8		8	
1/4	1,793.25	1/4	1,518.84	1/4	1,244.43	1/4	970.02	1/4	695.61	1/4	426.81	1/4	157.58	1/4		1/4		1/4	
1/2	1,787.54	1/2	1,513.13	1/2	1,238.71	1/2	964.30	1/2	689.89	1/2	421.33	1/2	151.86	1/2		1/2		1/2	
3/4	1,781.82	3/4	1,507.41	3/4	1,233.00	3/4	958.59	3/4	684.17	3/4	415.84	3/4	146.15	3/4		3/4		3/4	
9	1,776.10	9	1,501.69	9	1,227.28	9	952.87	9	678.46	9	410.35	9	140.43	9		9		9	
1/4	1,770.39	1/4	1,495.97	1/4	1,221.56	1/4	947.15	1/4	672.74	1/4	404.86	1/4	134.71	1/4		1/4		1/4	
1/2	1,764.67	1/2	1,490.26	1/2	1,215.85	1/2	941.44	1/2	667.02	1/2	399.38	1/2	129.00	1/2		1/2		1/2	
3/4	1,758.95	3/4	1,484.54	3/4	1,210.13	3/4	935.72	3/4	661.31	3/4	393.89	3/4	123.28	3/4		3/4		3/4	
10	1,753.23	10	1,478.82	10	1,204.41	10	930.00	10	655.59	10	388.40	10	117.56	10		10		10	
1/4	1,747.52	1/4	1,473.11	1/4	1,198.70	1/4	924.28	1/4	649.87	1/4	382.92	1/4	111.85	1/4		1/4		1/4	
1/2	1,741.80	1/2	1,467.39	1/2	1,192.98	1/2	918.57	1/2	644.16	1/2	377.43	1/2	106.13	1/2		1/2		1/2	
3/4	1,736.08	3/4	1,461.67	3/4	1,187.26	3/4	912.85	3/4	638.44	3/4	371.94	3/4	100.42	3/4		3/4		3/4	
11	1,730.37	11	1,455.96	11	1,181.54	11	907.13	11	632.72	11	366.46	11	94.70	11		11		11	
1/4	1,724.65	1/4	1,450.24	1/4	1,175.83	1/4	901.42	1/4	627.01	1/4	360.97	1/4	89.00	1/4		1/4		1/4	
1/2	1,718.93	1/2	1,444.52	1/2	1,170.11	1/2	895.70	1/2	621.29	1/2	355.48	1/2	83.30	1/2		1/2		1/2	
3/4	1,713.22	3/4	1,438.81	3/4	1,164.39	3/4	889.98	3/4	615.57	3/4	350.00	3/4	77.60	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

4 STBD

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 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		0		0	3,624.63	0	3,379.66	0	3,106.05	0	2,831.81	0	2,557.56	0	2,283.32
1/4		1/4		1/4		1/4		1/4	3,621.58	1/4	3,373.96	1/4	3,100.34	1/4	2,826.09	1/4	2,551.85	1/4	2,277.61
1/2		1/2		1/2		1/2		1/2	3,618.54	1/2	3,368.26	1/2	3,094.62	1/2	2,820.38	1/2	2,546.14	1/2	2,271.89
3/4		3/4		3/4		3/4		3/4	3,615.49	3/4	3,362.56	3/4	3,088.91	3/4	2,814.67	3/4	2,540.42	3/4	2,266.18
1		1		1		1		1	3,611.90	1	3,356.86	1	3,083.20	1	2,808.95	1	2,534.71	1	2,260.46
1/4		1/4		1/4		1/4		1/4	3,608.31	1/4	3,351.16	1/4	3,077.48	1/4	2,803.24	1/4	2,529.00	1/4	2,254.75
1/2		1/2		1/2		1/2		1/2	3,604.71	1/2	3,345.47	1/2	3,071.77	1/2	2,797.53	1/2	2,523.28	1/2	2,249.03
3/4		3/4		3/4		3/4		3/4	3,601.12	3/4	3,339.77	3/4	3,066.06	3/4	2,791.81	3/4	2,517.57	3/4	2,243.31
2		2		2		2		2	3,596.99	2	3,334.07	2	3,060.34	2	2,786.10	2	2,511.86	2	2,237.59
1/4		1/4		1/4		1/4		1/4	3,592.85	1/4	3,328.37	1/4	3,054.63	1/4	2,780.39	1/4	2,506.14	1/4	2,231.88
1/2		1/2		1/2		1/2		1/2	3,588.71	1/2	3,322.67	1/2	3,048.92	1/2	2,774.67	1/2	2,500.43	1/2	2,226.16
3/4		3/4		3/4		3/4		3/4	3,584.58	3/4	3,316.97	3/4	3,043.20	3/4	2,768.96	3/4	2,494.72	3/4	2,220.45
3		3		3		3		3	3,579.90	3	3,311.28	3	3,037.49	3	2,763.25	3	2,489.00	3	2,214.73
1/4		1/4		1/4		1/4		1/4	3,575.22	1/4	3,305.58	1/4	3,031.78	1/4	2,757.53	1/4	2,483.29	1/4	2,209.02
1/2		1/2		1/2		1/2		1/2	3,570.54	1/2	3,299.88	1/2	3,026.06	1/2	2,751.82	1/2	2,477.58	1/2	2,203.30
3/4		3/4		3/4		3/4		3/4	3,565.86	3/4	3,294.18	3/4	3,020.35	3/4	2,746.11	3/4	2,471.86	3/4	2,197.58
4		4		4		4		4	3,560.63	4	3,288.48	4	3,014.64	4	2,740.39	4	2,466.15	4	2,191.87
1/4		1/4		1/4		1/4		1/4	3,555.41	1/4	3,282.78	1/4	3,008.92	1/4	2,734.68	1/4	2,460.44	1/4	2,186.15
1/2		1/2		1/2		1/2		1/2	3,550.19	1/2	3,277.09	1/2	3,003.21	1/2	2,728.97	1/2	2,454.72	1/2	2,180.44
3/4		3/4		3/4		3/4		3/4	3,544.96	3/4	3,271.39	3/4	2,997.50	3/4	2,723.25	3/4	2,449.01	3/4	2,174.72
5		5		5		5		5	3,539.26	5	3,265.69	5	2,991.78	5	2,717.54	5	2,443.30	5	2,169.00
1/4		1/4		1/4		1/4		1/4	3,533.56	1/4	3,259.99	1/4	2,986.07	1/4	2,711.83	1/4	2,437.58	1/4	2,163.29
1/2		1/2		1/2		1/2		1/2	3,527.86	1/2	3,254.29	1/2	2,980.36	1/2	2,706.11	1/2	2,431.87	1/2	2,157.57
3/4		3/4		3/4		3/4		3/4	3,522.16	3/4	3,248.59	3/4	2,974.64	3/4	2,700.40	3/4	2,426.16	3/4	2,151.86
6		6		6		6		6	3,516.46	6	3,242.90	6	2,968.93	6	2,694.69	6	2,420.44	6	2,146.14
1/4		1/4		1/4		1/4		1/4	3,510.76	1/4	3,237.20	1/4	2,963.22	1/4	2,688.97	1/4	2,414.73	1/4	2,140.42
1/2		1/2		1/2		1/2		1/2	3,505.06	1/2	3,231.50	1/2	2,957.50	1/2	2,683.26	1/2	2,409.02	1/2	2,134.71
3/4		3/4		3/4		3/4		3/4	3,499.36	3/4	3,225.80	3/4	2,951.79	3/4	2,677.55	3/4	2,403.30	3/4	2,128.99
7		7		7		7		7	3,493.66	7	3,220.10	7	2,946.08	7	2,671.83	7	2,397.59	7	2,123.28
1/4		1/4		1/4		1/4		1/4	3,487.96	1/4	3,214.41	1/4	2,940.36	1/4	2,666.12	1/4	2,391.88	1/4	2,117.56
1/2		1/2		1/2		1/2		1/2	3,482.26	1/2	3,208.71	1/2	2,934.65	1/2	2,660.41	1/2	2,386.16	1/2	2,111.85
3/4		3/4		3/4		3/4		3/4	3,476.55	3/4	3,203.01	3/4	2,928.94	3/4	2,654.69	3/4	2,380.45	3/4	2,106.13
8		8		8		8		8	3,470.85	8	3,197.31	8	2,923.22	8	2,648.98	8	2,374.74	8	2,100.41
1/4		1/4		1/4		1/4		1/4	3,465.15	1/4	3,191.61	1/4	2,917.51	1/4	2,643.27	1/4	2,369.02	1/4	2,094.70
1/2		1/2		1/2		1/2		1/2	3,459.45	1/2	3,185.91	1/2	2,911.79	1/2	2,637.55	1/2	2,363.31	1/2	2,088.98
3/4		3/4		3/4		3/4		3/4	3,453.75	3/4	3,180.22	3/4	2,906.08	3/4	2,631.84	3/4	2,357.60	3/4	2,083.27
9		9		9		9		9	3,448.05	9	3,174.52	9	2,900.37	9	2,626.12	9	2,351.88	9	2,077.55
1/4		1/4		1/4		1/4		1/4	3,442.35	1/4	3,168.82	1/4	2,894.65	1/4	2,620.41	1/4	2,346.17	1/4	2,071.83
1/2		1/2		1/2		1/2		1/2	3,436.65	1/2	3,163.12	1/2	2,888.94	1/2	2,614.70	1/2	2,340.45	1/2	2,066.12
3/4		3/4		3/4		3/4		3/4	3,430.95	3/4	3,157.42	3/4	2,883.23	3/4	2,608.98	3/4	2,334.74	3/4	2,060.40
10		10		10		10		10	3,425.25	10	3,151.72	10	2,877.51	10	2,603.27	10	2,329.03	10	2,054.69
1/4		1/4		1/4		1/4		1/4	3,419.55	1/4	3,146.02	1/4	2,871.80	1/4	2,597.56	1/4	2,323.31	1/4	2,048.97
1/2		1/2		1/2		1/2		1/2	3,413.85	1/2	3,140.32	1/2	2,866.09	1/2	2,591.84	1/2	2,317.60	1/2	2,043.25
3/4		3/4		3/4		3/4		3/4	3,408.15	3/4	3,134.62	3/4	2,860.37	3/4	2,586.13	3/4	2,311.89	3/4	2,037.54
11		11		11		11		11	3,402.45	11	3,128.90	11	2,854.66	11	2,580.42	11	2,306.17	11	2,031.82
1/4		1/4		1/4		1/4		1/4	3,396.75	1/4	3,123.19	1/4	2,848.95	1/4	2,574.70	1/4	2,300.46	1/4	2,026.11
1/2		1/2		1/2		1/2		1/2	3,391.05	1/2	3,117.48	1/2	2,843.23	1/2	2,568.99	1/2	2,294.75	1/2	2,020.39
3/4		3/4		3/4		3/4		3/4	3,385.35	3/4	3,111.76	3/4	2,837.52	3/4	2,563.28	3/4	2,289.03	3/4	2,014.67

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "KAYO"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,008.96	0	1,734.60	0	1,460.23	0	1,185.87	0	911.51	0	637.14	0	363.16	0	88.98	0		0	
1/4	2,003.24	1/4	1,728.88	1/4	1,454.52	1/4	1,180.15	1/4	905.79	1/4	631.43	1/4	357.46	1/4	83.28	1/4		1/4	
1/2	1,997.53	1/2	1,723.16	1/2	1,448.80	1/2	1,174.44	1/2	900.07	1/2	625.71	1/2	351.76	1/2	77.58	1/2		1/2	
3/4	1,991.81	3/4	1,717.45	3/4	1,443.08	3/4	1,168.72	3/4	894.36	3/4	620.00	3/4	346.06	3/4	71.88	3/4		3/4	
1	1,986.10	1	1,711.73	1	1,437.37	1	1,163.01	1	888.64	1	614.28	1	340.36	1	66.41	1		1	
1/4	1,980.38	1/4	1,706.02	1/4	1,431.65	1/4	1,157.29	1/4	882.93	1/4	608.56	1/4	334.65	1/4	60.94	1/4		1/4	
1/2	1,974.66	1/2	1,700.30	1/2	1,425.94	1/2	1,151.57	1/2	877.21	1/2	602.85	1/2	328.95	1/2	55.46	1/2		1/2	
3/4	1,968.95	3/4	1,694.58	3/4	1,420.22	3/4	1,145.86	3/4	871.49	3/4	597.13	3/4	323.25	3/4	49.99	3/4		3/4	
2	1,963.23	2	1,688.87	2	1,414.51	2	1,140.14	2	865.78	2	591.42	2	317.55	2	45.44	2		2	
1/4	1,957.52	1/4	1,683.15	1/4	1,408.79	1/4	1,134.43	1/4	860.06	1/4	585.70	1/4	311.85	1/4	40.90	1/4		1/4	
1/2	1,951.80	1/2	1,677.44	1/2	1,403.07	1/2	1,128.71	1/2	854.35	1/2	579.98	1/2	306.15	1/2	36.35	1/2		1/2	
3/4	1,946.08	3/4	1,671.72	3/4	1,397.36	3/4	1,122.99	3/4	848.63	3/4	574.27	3/4	300.44	3/4	31.80	3/4		3/4	
3	1,940.37	3	1,666.00	3	1,391.64	3	1,117.28	3	842.92	3	568.55	3	294.73	3	28.30	3		3	
1/4	1,934.65	1/4	1,660.29	1/4	1,385.93	1/4	1,111.56	1/4	837.20	1/4	562.84	1/4	289.01	1/4	24.79	1/4		1/4	
1/2	1,928.94	1/2	1,654.57	1/2	1,380.21	1/2	1,105.85	1/2	831.48	1/2	557.12	1/2	283.30	1/2	21.28	1/2		1/2	
3/4	1,923.22	3/4	1,648.86	3/4	1,374.49	3/4	1,100.13	3/4	825.77	3/4	551.40	3/4	277.58	3/4	17.77	3/4		3/4	
4	1,917.50	4	1,643.14	4	1,368.78	4	1,094.41	4	820.05	4	545.69	4	271.87	4		4		4	
1/4	1,911.79	1/4	1,637.43	1/4	1,363.06	1/4	1,088.70	1/4	814.34	1/4	539.97	1/4	266.15	1/4		1/4		1/4	
1/2	1,906.07	1/2	1,631.71	1/2	1,357.35	1/2	1,082.98	1/2	808.62	1/2	534.26	1/2	260.43	1/2		1/2		1/2	
3/4	1,900.36	3/4	1,625.99	3/4	1,351.63	3/4	1,077.27	3/4	802.90	3/4	528.54	3/4	254.72	3/4		3/4		3/4	
5	1,894.64	5	1,620.28	5	1,345.91	5	1,071.55	5	797.19	5	522.83	5	249.00	5		5		5	
1/4	1,888.92	1/4	1,614.56	1/4	1,340.20	1/4	1,065.84	1/4	791.47	1/4	517.12	1/4	243.29	1/4		1/4		1/4	
1/2	1,883.21	1/2	1,608.85	1/2	1,334.48	1/2	1,060.12	1/2	785.76	1/2	511.41	1/2	237.57	1/2		1/2		1/2	
3/4	1,877.49	3/4	1,603.13	3/4	1,328.77	3/4	1,054.40	3/4	780.04	3/4	505.70	3/4	231.86	3/4		3/4		3/4	
6	1,871.78	6	1,597.41	6	1,323.05	6	1,048.69	6	774.32	6	499.99	6	226.14	6		6		6	
1/4	1,866.06	1/4	1,591.70	1/4	1,317.33	1/4	1,042.97	1/4	768.61	1/4	494.28	1/4	220.42	1/4		1/4		1/4	
1/2	1,860.35	1/2	1,585.98	1/2	1,311.62	1/2	1,037.26	1/2	762.89	1/2	488.57	1/2	214.71	1/2		1/2		1/2	
3/4	1,854.63	3/4	1,580.27	3/4	1,305.90	3/4	1,031.54	3/4	757.18	3/4	482.87	3/4	208.99	3/4		3/4		3/4	
7	1,848.91	7	1,574.55	7	1,300.19	7	1,025.82	7	751.46	7	477.16	7	203.28	7		7		7	
1/4	1,843.20	1/4	1,568.83	1/4	1,294.47	1/4	1,020.11	1/4	745.74	1/4	471.46	1/4	197.56	1/4		1/4		1/4	
1/2	1,837.48	1/2	1,563.12	1/2	1,288.76	1/2	1,014.39	1/2	740.03	1/2	465.76	1/2	191.85	1/2		1/2		1/2	
3/4	1,831.77	3/4	1,557.40	3/4	1,283.04	3/4	1,008.68	3/4	734.31	3/4	460.06	3/4	186.13	3/4		3/4		3/4	
8	1,826.05	8	1,551.69	8	1,277.32	8	1,002.96	8	728.60	8	454.36	8	180.41	8		8		8	
1/4	1,820.33	1/4	1,545.97	1/4	1,271.61	1/4	997.24	1/4	722.88	1/4	448.66	1/4	174.70	1/4		1/4		1/4	
1/2	1,814.62	1/2	1,540.26	1/2	1,265.89	1/2	991.53	1/2	717.17	1/2	442.96	1/2	168.98	1/2		1/2		1/2	
3/4	1,808.90	3/4	1,534.54	3/4	1,260.18	3/4	985.81	3/4	711.45	3/4	437.26	3/4	163.27	3/4		3/4		3/4	
9	1,803.19	9	1,528.82	9	1,254.46	9	980.10	9	705.73	9	431.56	9	157.55	9		9		9	
1/4	1,797.47	1/4	1,523.11	1/4	1,248.74	1/4	974.38	1/4	700.02	1/4	425.86	1/4	151.84	1/4		1/4		1/4	
1/2	1,791.75	1/2	1,517.39	1/2	1,243.03	1/2	968.67	1/2	694.30	1/2	420.16	1/2	146.12	1/2		1/2		1/2	
3/4	1,786.04	3/4	1,511.68	3/4	1,237.31	3/4	962.95	3/4	688.59	3/4	414.46	3/4	140.40	3/4		3/4		3/4	
10	1,780.32	10	1,505.96	10	1,231.60	10	957.23	10	682.87	10	408.76	10	134.69	10		10		10	
1/4	1,774.61	1/4	1,500.24	1/4	1,225.88	1/4	951.52	1/4	677.15	1/4	403.06	1/4	128.97	1/4		1/4		1/4	
1/2	1,768.89	1/2	1,494.53	1/2	1,220.16	1/2	945.80	1/2	671.44	1/2	397.36	1/2	123.26	1/2		1/2		1/2	
3/4	1,763.18	3/4	1,488.81	3/4	1,214.45	3/4	940.09	3/4	665.72	3/4	391.66	3/4	117.54	3/4		3/4		3/4	
11	1,757.46	11	1,483.10	11	1,208.73	11	934.37	11	660.01	11	385.96	11	111.83	11		11		11	
1/4	1,751.74	1/4	1,477.38	1/4	1,203.02	1/4	928.65	1/4	654.29	1/4	380.26	1/4	106.11	1/4		1/4		1/4	
1/2	1,746.03	1/2	1,471.66	1/2	1,197.30	1/2	922.94	1/2	648.57	1/2	374.56	1/2	100.39	1/2		1/2		1/2	
3/4	1,740.31	3/4	1,465.95	3/4	1,191.59	3/4	917.22	3/4	642.86	3/4	368.86	3/4	94.68	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	3,505.90	0	3,261.07	0	2,990.47	0	2,719.24	0	2,448.01	0	2,176.78
1/4		1/4		1/4		1/4		1/4	3,502.90	1/4	3,255.43	1/4	2,984.82	1/4	2,713.59	1/4	2,442.36	1/4	2,171.13
1/2		1/2		1/2		1/2		1/2	3,499.89	1/2	3,249.80	1/2	2,979.17	1/2	2,707.94	1/2	2,436.71	1/2	2,165.48
3/4		3/4		3/4		3/4		3/4	3,496.34	3/4	3,244.16	3/4	2,973.52	3/4	2,702.29	3/4	2,431.06	3/4	2,159.83
1		1		1		1		1	3,492.80	1	3,238.53	1	2,967.87	1	2,696.64	1	2,425.41	1	2,154.18
1/4		1/4		1/4		1/4		1/4	3,489.25	1/4	3,232.89	1/4	2,962.22	1/4	2,690.99	1/4	2,419.76	1/4	2,148.53
1/2		1/2		1/2		1/2		1/2	3,485.70	1/2	3,227.25	1/2	2,956.56	1/2	2,685.34	1/2	2,414.11	1/2	2,142.88
3/4		3/4		3/4		3/4		3/4	3,481.62	3/4	3,221.62	3/4	2,950.91	3/4	2,679.69	3/4	2,408.46	3/4	2,137.22
2		2		2		2		2	3,477.53	2	3,215.98	2	2,945.26	2	2,674.03	2	2,402.81	2	2,131.57
1/4		1/4		1/4		1/4		1/4	3,473.44	1/4	3,210.35	1/4	2,939.61	1/4	2,668.38	1/4	2,397.16	1/4	2,125.92
1/2		1/2		1/2		1/2		1/2	3,469.36	1/2	3,204.71	1/2	2,933.96	1/2	2,662.73	1/2	2,391.50	1/2	2,120.26
3/4		3/4		3/4		3/4		3/4	3,464.73	3/4	3,199.08	3/4	2,928.31	3/4	2,657.08	3/4	2,385.85	3/4	2,114.61
3		3		3		3		3	3,460.10	3	3,193.44	3	2,922.66	3	2,651.43	3	2,380.20	3	2,108.96
1/4		1/4		1/4		1/4		1/4	3,455.48	1/4	3,187.81	1/4	2,917.01	1/4	2,645.78	1/4	2,374.55	1/4	2,103.30
1/2		1/2		1/2		1/2		1/2	3,450.85	1/2	3,182.17	1/2	2,911.36	1/2	2,640.13	1/2	2,368.90	1/2	2,097.65
3/4		3/4		3/4		3/4		3/4	3,445.69	3/4	3,176.54	3/4	2,905.71	3/4	2,634.48	3/4	2,363.25	3/4	2,092.00
4		4		4		4		4	3,440.52	4	3,170.90	4	2,900.06	4	2,628.83	4	2,357.60	4	2,086.34
1/4		1/4		1/4		1/4		1/4	3,435.36	1/4	3,165.26	1/4	2,894.41	1/4	2,623.18	1/4	2,351.95	1/4	2,080.69
1/2		1/2		1/2		1/2		1/2	3,430.19	1/2	3,159.63	1/2	2,888.76	1/2	2,617.53	1/2	2,346.30	1/2	2,075.04
3/4		3/4		3/4		3/4		3/4	3,424.55	3/4	3,153.99	3/4	2,883.11	3/4	2,611.88	3/4	2,340.65	3/4	2,069.38
5		5		5		5		5	3,418.92	5	3,148.36	5	2,877.46	5	2,606.23	5	2,335.00	5	2,063.73
1/4		1/4		1/4		1/4		1/4	3,413.28	1/4	3,142.72	1/4	2,871.81	1/4	2,600.58	1/4	2,329.35	1/4	2,058.08
1/2		1/2		1/2		1/2		1/2	3,407.64	1/2	3,137.09	1/2	2,866.16	1/2	2,594.93	1/2	2,323.70	1/2	2,052.43
3/4		3/4		3/4		3/4		3/4	3,402.00	3/4	3,131.45	3/4	2,860.50	3/4	2,589.28	3/4	2,318.05	3/4	2,046.77
6		6		6		6		6	3,396.36	6	3,125.82	6	2,854.85	6	2,583.63	6	2,312.40	6	2,041.12
1/4		1/4		1/4		1/4		1/4	3,390.73	1/4	3,120.18	1/4	2,849.20	1/4	2,577.97	1/4	2,306.75	1/4	2,035.47
1/2		1/2		1/2		1/2		1/2	3,385.09	1/2	3,114.55	1/2	2,843.55	1/2	2,572.32	1/2	2,301.10	1/2	2,029.81
3/4		3/4		3/4		3/4		3/4	3,379.45	3/4	3,108.91	3/4	2,837.90	3/4	2,566.67	3/4	2,295.44	3/4	2,024.16
7		7		7		7		7	3,373.81	7	3,103.28	7	2,832.25	7	2,561.02	7	2,289.79	7	2,018.51
1/4		1/4		1/4		1/4		1/4	3,368.17	1/4	3,097.64	1/4	2,826.60	1/4	2,555.37	1/4	2,284.14	1/4	2,012.85
1/2		1/2		1/2		1/2		1/2	3,362.54	1/2	3,092.00	1/2	2,820.95	1/2	2,549.72	1/2	2,278.49	1/2	2,007.20
3/4		3/4		3/4		3/4		3/4	3,356.90	3/4	3,086.37	3/4	2,815.30	3/4	2,544.07	3/4	2,272.84	3/4	2,001.55
8		8		8		8		8	3,351.26	8	3,080.73	8	2,809.65	8	2,538.42	8	2,267.19	8	1,995.89
1/4		1/4		1/4		1/4		1/4	3,345.62	1/4	3,075.10	1/4	2,804.00	1/4	2,532.77	1/4	2,261.54	1/4	1,990.24
1/2		1/2		1/2		1/2		1/2	3,339.98	1/2	3,069.46	1/2	2,798.35	1/2	2,527.12	1/2	2,255.89	1/2	1,984.59
3/4		3/4		3/4		3/4		3/4	3,334.35	3/4	3,063.83	3/4	2,792.70	3/4	2,521.47	3/4	2,250.24	3/4	1,978.94
9		9		9		9		9	3,328.71	9	3,058.19	9	2,787.05	9	2,515.82	9	2,244.59	9	1,973.28
1/4		1/4		1/4		1/4		1/4	3,323.07	1/4	3,052.56	1/4	2,781.40	1/4	2,510.17	1/4	2,238.94	1/4	1,967.63
1/2		1/2		1/2		1/2		1/2	3,317.43	1/2	3,046.92	1/2	2,775.75	1/2	2,504.52	1/2	2,233.29	1/2	1,961.98
3/4		3/4		3/4		3/4		3/4	3,311.79	3/4	3,041.28	3/4	2,770.09	3/4	2,498.87	3/4	2,227.64	3/4	1,956.32
10		10		10		10		10	3,306.16	10	3,035.65	10	2,764.44	10	2,493.22	10	2,221.99	10	1,950.67
1/4		1/4		1/4		1/4		1/4	3,300.52	1/4	3,030.01	1/4	2,758.79	1/4	2,487.56	1/4	2,216.34	1/4	1,945.02
1/2		1/2		1/2		1/2		1/2	3,294.88	1/2	3,024.37	1/2	2,753.14	1/2	2,481.91	1/2	2,210.69	1/2	1,939.36
3/4		3/4		3/4		3/4		3/4	3,289.24	3/4	3,018.72	3/4	2,747.49	3/4	2,476.26	3/4	2,205.03	3/4	1,933.71
11		11		11		11		11	3,283.61	11	3,013.07	11	2,741.84	11	2,470.61	11	2,199.38	11	1,928.06
1/4		1/4		1/4		1/4		1/4	3,277.97	1/4	3,007.42	1/4	2,736.19	1/4	2,464.96	1/4	2,193.73	1/4	1,922.40
1/2		1/2		1/2		1/2		1/2	3,272.34	1/2	3,001.77	1/2	2,730.54	1/2	2,459.31	1/2	2,188.08	1/2	1,916.75
3/4		3/4		3/4		3/4		3/4	3,266.70	3/4	2,996.12	3/4	2,724.89	3/4	2,453.66	3/4	2,182.43	3/4	1,911.10

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KAYO"

## 5 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,905.44	0	1,634.10	0	1,363.38	0	1,092.26	0	820.96	0	549.71	0	298.83	0	59.05	0		0	
1/4	1,899.79	1/4	1,628.44	1/4	1,357.74	1/4	1,086.61	1/4	815.31	1/4	544.08	1/4	293.85	1/4	54.22	1/4		1/4	
1/2	1,894.14	1/2	1,622.79	1/2	1,352.11	1/2	1,080.96	1/2	809.66	1/2	538.45	1/2	288.87	1/2	49.38	1/2		1/2	
3/4	1,888.49	3/4	1,617.14	3/4	1,346.47	3/4	1,075.31	3/4	804.00	3/4	532.86	3/4	283.92	3/4	44.81	3/4		3/4	
1	1,882.83	1	1,611.48	1	1,340.83	1	1,069.65	1	798.35	1	527.28	1	278.96	1	40.23	1		1	
1/4	1,877.18	1/4	1,605.83	1/4	1,335.20	1/4	1,064.00	1/4	792.70	1/4	521.69	1/4	274.00	1/4	35.66	1/4		1/4	
1/2	1,871.53	1/2	1,600.18	1/2	1,329.56	1/2	1,058.35	1/2	787.05	1/2	516.11	1/2	269.04	1/2	31.08	1/2		1/2	
3/4	1,865.87	3/4	1,594.53	3/4	1,323.92	3/4	1,052.70	3/4	781.40	3/4	510.67	3/4	264.00	3/4	27.46	3/4		3/4	
2	1,860.22	2	1,588.88	2	1,318.28	2	1,047.05	2	775.74	2	505.23	2	258.96	2	23.84	2		2	
1/4	1,854.57	1/4	1,583.22	1/4	1,312.64	1/4	1,041.39	1/4	770.09	1/4	499.78	1/4	253.92	1/4	20.21	1/4		1/4	
1/2	1,848.91	1/2	1,577.57	1/2	1,307.00	1/2	1,035.74	1/2	764.44	1/2	494.34	1/2	248.88	1/2	16.59	1/2		1/2	
3/4	1,843.26	3/4	1,571.94	3/4	1,301.35	3/4	1,030.09	3/4	758.79	3/4	489.03	3/4	243.75	3/4	14.03	3/4		3/4	
3	1,837.61	3	1,566.30	3	1,295.71	3	1,024.44	3	753.14	3	483.71	3	238.61	3	11.47	3		3	
1/4	1,831.95	1/4	1,560.66	1/4	1,290.06	1/4	1,018.78	1/4	747.48	1/4	478.40	1/4	233.47	1/4	8.91	1/4		1/4	
1/2	1,826.30	1/2	1,555.03	1/2	1,284.41	1/2	1,013.13	1/2	741.83	1/2	473.08	1/2	228.34	1/2	6.35	1/2		1/2	
3/4	1,820.65	3/4	1,549.39	3/4	1,278.76	3/4	1,007.48	3/4	736.18	3/4	467.80	3/4	223.24	3/4		3/4		3/4	
4	1,815.00	4	1,543.75	4	1,273.11	4	1,001.83	4	730.53	4	462.53	4	218.13	4		4		4	
1/4	1,809.34	1/4	1,538.12	1/4	1,267.46	1/4	996.18	1/4	724.88	1/4	457.25	1/4	213.03	1/4		1/4		1/4	
1/2	1,803.69	1/2	1,532.48	1/2	1,261.81	1/2	990.52	1/2	719.22	1/2	451.97	1/2	207.93	1/2		1/2		1/2	
3/4	1,798.04	3/4	1,526.84	3/4	1,256.16	3/4	984.87	3/4	713.57	3/4	446.75	3/4	202.86	3/4		3/4		3/4	
5	1,792.38	5	1,521.21	5	1,250.51	5	979.22	5	707.92	5	441.53	5	197.79	5		5		5	
1/4	1,786.73	1/4	1,515.57	1/4	1,244.86	1/4	973.57	1/4	702.27	1/4	436.31	1/4	192.72	1/4		1/4		1/4	
1/2	1,781.08	1/2	1,509.93	1/2	1,239.21	1/2	967.92	1/2	696.62	1/2	431.09	1/2	187.65	1/2		1/2		1/2	
3/4	1,775.42	3/4	1,504.30	3/4	1,233.56	3/4	962.26	3/4	690.96	3/4	425.90	3/4	182.61	3/4		3/4		3/4	
6	1,769.77	6	1,498.66	6	1,227.91	6	956.61	6	685.31	6	420.71	6	177.57	6		6		6	
1/4	1,764.12	1/4	1,493.02	1/4	1,222.26	1/4	950.96	1/4	679.66	1/4	415.53	1/4	172.53	1/4		1/4		1/4	
1/2	1,758.46	1/2	1,487.39	1/2	1,216.61	1/2	945.31	1/2	674.01	1/2	410.34	1/2	167.50	1/2		1/2		1/2	
3/4	1,752.81	3/4	1,481.75	3/4	1,210.96	3/4	939.66	3/4	668.35	3/4	405.20	3/4	162.49	3/4		3/4		3/4	
7	1,747.16	7	1,476.11	7	1,205.30	7	934.00	7	662.70	7	400.05	7	157.49	7		7		7	
1/4	1,741.50	1/4	1,470.48	1/4	1,199.65	1/4	928.35	1/4	657.05	1/4	394.91	1/4	152.49	1/4		1/4		1/4	
1/2	1,735.85	1/2	1,464.84	1/2	1,194.00	1/2	922.70	1/2	651.40	1/2	389.76	1/2	147.48	1/2		1/2		1/2	
3/4	1,730.20	3/4	1,459.20	3/4	1,188.35	3/4	917.05	3/4	645.75	3/4	384.65	3/4	142.51	3/4		3/4		3/4	
8	1,724.55	8	1,453.57	8	1,182.70	8	911.39	8	640.09	8	379.54	8	137.54	8		8		8	
1/4	1,718.89	1/4	1,447.93	1/4	1,177.04	1/4	905.74	1/4	634.44	1/4	374.43	1/4	132.57	1/4		1/4		1/4	
1/2	1,713.24	1/2	1,442.29	1/2	1,171.39	1/2	900.09	1/2	628.79	1/2	369.32	1/2	127.60	1/2		1/2		1/2	
3/4	1,707.59	3/4	1,436.66	3/4	1,165.74	3/4	894.44	3/4	623.14	3/4	364.24	3/4	122.66	3/4		3/4		3/4	
9	1,701.93	9	1,431.02	9	1,160.09	9	888.79	9	617.49	9	359.16	9	117.72	9		9		9	
1/4	1,696.28	1/4	1,425.38	1/4	1,154.44	1/4	883.13	1/4	611.83	1/4	354.08	1/4	112.79	1/4		1/4		1/4	
1/2	1,690.63	1/2	1,419.75	1/2	1,148.78	1/2	877.48	1/2	606.18	1/2	349.01	1/2	107.85	1/2		1/2		1/2	
3/4	1,684.97	3/4	1,414.11	3/4	1,143.13	3/4	871.83	3/4	600.53	3/4	343.96	3/4	102.94	3/4		3/4		3/4	
10	1,679.32	10	1,408.47	10	1,137.48	10	866.18	10	594.88	10	338.92	10	98.04	10		10		10	
1/4	1,673.67	1/4	1,402.84	1/4	1,131.83	1/4	860.53	1/4	589.23	1/4	333.87	1/4	93.13	1/4		1/4		1/4	
1/2	1,668.01	1/2	1,397.20	1/2	1,126.17	1/2	854.87	1/2	583.57	1/2	328.83	1/2	88.23	1/2		1/2		1/2	
3/4	1,662.36	3/4	1,391.56	3/4	1,120.52	3/4	849.22	3/4	577.92	3/4	323.82	3/4	83.35	3/4		3/4		3/4	
11	1,656.71	11	1,385.93	11	1,114.87	11	843.57	11	572.27	11	318.81	11	78.47	11		11		11	
1/4	1,651.06	1/4	1,380.29	1/4	1,109.22	1/4	837.92	1/4	566.62	1/4	313.79	1/4	73.59	1/4		1/4		1/4	
1/2	1,645.40	1/2	1,374.65	1/2	1,103.57	1/2	832.27	1/2	560.97	1/2	308.78	1/2	68.72	1/2		1/2		1/2	
3/4	1,639.75	3/4	1,369.02	3/4	1,097.91	3/4	826.61	3/4	555.34	3/4	303.81	3/4	63.88	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

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



# BARGE "KAYO"

## 5 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0		0	3,284.65	0	3,013.92	0	2,742.52	0	2,471.12	0	2,199.73
1/4		1/4		1/4		1/4		1/4	3,521.38	1/4	3,279.01	1/4	3,008.26	1/4	2,736.87	1/4	2,465.47	1/4	2,194.07
1/2		1/2		1/2		1/2		1/2	3,518.37	1/2	3,273.37	1/2	3,002.61	1/2	2,731.21	1/2	2,459.82	1/2	2,188.42
3/4		3/4		3/4		3/4		3/4	3,515.36	3/4	3,267.73	3/4	2,996.95	3/4	2,725.56	3/4	2,454.16	3/4	2,182.76
1		1		1		1		1	3,512.35	1	3,262.09	1	2,991.30	1	2,719.90	1	2,448.51	1	2,177.11
1/4		1/4		1/4		1/4		1/4	3,508.80	1/4	3,256.45	1/4	2,985.65	1/4	2,714.25	1/4	2,442.85	1/4	2,171.46
1/2		1/2		1/2		1/2		1/2	3,505.25	1/2	3,250.82	1/2	2,979.99	1/2	2,708.60	1/2	2,437.20	1/2	2,165.80
3/4		3/4		3/4		3/4		3/4	3,501.70	3/4	3,245.18	3/4	2,974.34	3/4	2,702.94	3/4	2,431.54	3/4	2,160.15
2		2		2		2		2	3,498.15	2	3,239.54	2	2,968.68	2	2,697.29	2	2,425.89	2	2,154.49
1/4		1/4		1/4		1/4		1/4	3,494.06	1/4	3,233.90	1/4	2,963.03	1/4	2,691.63	1/4	2,420.24	1/4	2,148.84
1/2		1/2		1/2		1/2		1/2	3,489.97	1/2	3,228.26	1/2	2,957.38	1/2	2,685.98	1/2	2,414.58	1/2	2,143.18
3/4		3/4		3/4		3/4		3/4	3,485.88	3/4	3,222.62	3/4	2,951.72	3/4	2,680.33	3/4	2,408.93	3/4	2,137.52
3		3		3		3		3	3,481.79	3	3,216.98	3	2,946.07	3	2,674.67	3	2,403.27	3	2,131.87
1/4		1/4		1/4		1/4		1/4	3,477.16	1/4	3,211.34	1/4	2,940.41	1/4	2,669.02	1/4	2,397.62	1/4	2,126.21
1/2		1/2		1/2		1/2		1/2	3,472.53	1/2	3,205.70	1/2	2,934.76	1/2	2,663.36	1/2	2,391.97	1/2	2,120.55
3/4		3/4		3/4		3/4		3/4	3,467.90	3/4	3,200.07	3/4	2,929.11	3/4	2,657.71	3/4	2,386.31	3/4	2,114.90
4		4		4		4		4	3,463.27	4	3,194.43	4	2,923.45	4	2,652.05	4	2,380.66	4	2,109.24
1/4		1/4		1/4		1/4		1/4	3,458.11	1/4	3,188.79	1/4	2,917.80	1/4	2,646.40	1/4	2,375.00	1/4	2,103.58
1/2		1/2		1/2		1/2		1/2	3,452.94	1/2	3,183.15	1/2	2,912.14	1/2	2,640.75	1/2	2,369.35	1/2	2,097.93
3/4		3/4		3/4		3/4		3/4	3,447.77	3/4	3,177.51	3/4	2,906.49	3/4	2,635.09	3/4	2,363.70	3/4	2,092.27
5		5		5		5		5	3,442.60	5	3,171.87	5	2,900.84	5	2,629.44	5	2,358.04	5	2,086.61
1/4		1/4		1/4		1/4		1/4	3,436.96	1/4	3,166.23	1/4	2,895.18	1/4	2,623.78	1/4	2,352.39	1/4	2,080.96
1/2		1/2		1/2		1/2		1/2	3,431.32	1/2	3,160.59	1/2	2,889.53	1/2	2,618.13	1/2	2,346.73	1/2	2,075.30
3/4		3/4		3/4		3/4		3/4	3,425.68	3/4	3,154.95	3/4	2,883.87	3/4	2,612.48	3/4	2,341.08	3/4	2,069.64
6		6		6		6		6	3,420.04	6	3,149.32	6	2,878.22	6	2,606.82	6	2,335.43	6	2,063.99
1/4		1/4		1/4		1/4		1/4	3,414.39	1/4	3,143.68	1/4	2,872.56	1/4	2,601.17	1/4	2,329.77	1/4	2,058.33
1/2		1/2		1/2		1/2		1/2	3,408.75	1/2	3,138.04	1/2	2,866.91	1/2	2,595.51	1/2	2,324.12	1/2	2,052.67
3/4		3/4		3/4		3/4		3/4	3,403.11	3/4	3,132.40	3/4	2,861.26	3/4	2,589.86	3/4	2,318.46	3/4	2,047.02
7		7		7		7		7	3,397.47	7	3,126.76	7	2,855.60	7	2,584.21	7	2,312.81	7	2,041.36
1/4		1/4		1/4		1/4		1/4	3,391.83	1/4	3,121.12	1/4	2,849.95	1/4	2,578.55	1/4	2,307.15	1/4	2,035.70
1/2		1/2		1/2		1/2		1/2	3,386.19	1/2	3,115.48	1/2	2,844.29	1/2	2,572.90	1/2	2,301.50	1/2	2,030.05
3/4		3/4		3/4		3/4		3/4	3,380.55	3/4	3,109.84	3/4	2,838.64	3/4	2,567.24	3/4	2,295.85	3/4	2,024.39
8		8		8		8		8	3,374.90	8	3,104.20	8	2,832.99	8	2,561.59	8	2,290.19	8	2,018.73
1/4		1/4		1/4		1/4		1/4	3,369.26	1/4	3,098.57	1/4	2,827.33	1/4	2,555.94	1/4	2,284.54	1/4	2,013.08
1/2		1/2		1/2		1/2		1/2	3,363.62	1/2	3,092.93	1/2	2,821.68	1/2	2,550.28	1/2	2,278.88	1/2	2,007.42
3/4		3/4		3/4		3/4		3/4	3,357.98	3/4	3,087.29	3/4	2,816.02	3/4	2,544.63	3/4	2,273.23	3/4	2,001.76
9		9		9		9		9	3,352.34	9	3,081.65	9	2,810.37	9	2,538.97	9	2,267.58	9	1,996.11
1/4		1/4		1/4		1/4		1/4	3,346.70	1/4	3,076.01	1/4	2,804.72	1/4	2,533.32	1/4	2,261.92	1/4	1,990.45
1/2		1/2		1/2		1/2		1/2	3,341.06	1/2	3,070.37	1/2	2,799.06	1/2	2,527.66	1/2	2,256.27	1/2	1,984.80
3/4		3/4		3/4		3/4		3/4	3,335.41	3/4	3,064.73	3/4	2,793.41	3/4	2,522.01	3/4	2,250.61	3/4	1,979.14
10		10		10		10		10	3,329.77	10	3,059.09	10	2,787.75	10	2,516.36	10	2,244.96	10	1,973.48
1/4		1/4		1/4		1/4		1/4	3,324.13	1/4	3,053.45	1/4	2,782.10	1/4	2,510.70	1/4	2,239.31	1/4	1,967.83
1/2		1/2		1/2		1/2		1/2	3,318.49	1/2	3,047.81	1/2	2,776.44	1/2	2,505.05	1/2	2,233.65	1/2	1,962.17
3/4		3/4		3/4		3/4		3/4	3,312.85	3/4	3,042.17	3/4	2,770.79	3/4	2,499.39	3/4	2,228.00	3/4	1,956.51
11		11		11		11		11	3,307.20	11	3,036.53	11	2,765.14	11	2,493.74	11	2,222.34	11	1,950.86
1/4		1/4		1/4		1/4		1/4	3,301.57	1/4	3,030.88	1/4	2,759.48	1/4	2,488.09	1/4	2,216.69	1/4	1,945.20
1/2		1/2		1/2		1/2		1/2	3,295.93	1/2	3,025.23	1/2	2,753.83	1/2	2,482.43	1/2	2,211.03	1/2	1,939.54
3/4		3/4		3/4		3/4		3/4	3,290.29	3/4	3,019.57	3/4	2,748.17	3/4	2,476.78	3/4	2,205.38	3/4	1,933.89

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 THE "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 14'-06" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD.

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



# BARGE "KAYO"

**5 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-04"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,928.23	0	1,656.71	0	1,385.79	0	1,114.59	0	843.23	0	571.88	0	311.09	0	68.75	0		0	
1/4	1,922.57	1/4	1,651.06	1/4	1,380.15	1/4	1,108.93	1/4	837.58	1/4	566.25	1/4	305.88	1/4	63.91	1/4		1/4	
1/2	1,916.92	1/2	1,645.40	1/2	1,374.51	1/2	1,103.28	1/2	831.92	1/2	560.61	1/2	300.67	1/2	59.08	1/2		1/2	
3/4	1,911.26	3/4	1,639.74	3/4	1,368.87	3/4	1,097.63	3/4	826.27	3/4	554.98	3/4	295.47	3/4	54.24	3/4		3/4	
1	1,905.60	1	1,634.09	1	1,363.23	1	1,091.97	1	820.62	1	549.35	1	290.26	1	49.41	1		1	
1/4	1,899.95	1/4	1,628.43	1/4	1,357.59	1/4	1,086.32	1/4	814.96	1/4	543.75	1/4	285.09	1/4	44.83	1/4		1/4	
1/2	1,894.29	1/2	1,622.77	1/2	1,351.95	1/2	1,080.67	1/2	809.31	1/2	538.15	1/2	279.91	1/2	40.25	1/2		1/2	
3/4	1,888.63	3/4	1,617.12	3/4	1,346.31	3/4	1,075.01	3/4	803.66	3/4	532.55	3/4	274.74	3/4	35.68	3/4		3/4	
2	1,882.98	2	1,611.46	2	1,340.67	2	1,069.36	2	798.00	2	526.95	2	269.56	2	31.10	2		2	
1/4	1,877.32	1/4	1,605.80	1/4	1,335.03	1/4	1,063.71	1/4	792.35	1/4	521.40	1/4	264.41	1/4	27.48	1/4		1/4	
1/2	1,871.66	1/2	1,600.15	1/2	1,329.39	1/2	1,058.05	1/2	786.70	1/2	515.84	1/2	259.26	1/2	23.85	1/2		1/2	
3/4	1,866.01	3/4	1,594.49	3/4	1,323.75	3/4	1,052.40	3/4	781.04	3/4	510.28	3/4	254.11	3/4	20.23	3/4		3/4	
3	1,860.35	3	1,588.84	3	1,318.11	3	1,046.75	3	775.39	3	504.72	3	248.96	3	16.60	3		3	
1/4	1,854.69	1/4	1,583.20	1/4	1,312.45	1/4	1,041.09	1/4	769.74	1/4	499.20	1/4	243.82	1/4	14.04	1/4		1/4	
1/2	1,849.04	1/2	1,577.56	1/2	1,306.80	1/2	1,035.44	1/2	764.08	1/2	493.68	1/2	238.69	1/2	11.48	1/2		1/2	
3/4	1,843.38	3/4	1,571.92	3/4	1,301.15	3/4	1,029.79	3/4	758.43	3/4	488.16	3/4	233.55	3/4	8.92	3/4		3/4	
4	1,837.72	4	1,566.28	4	1,295.49	4	1,024.13	4	752.78	4	482.63	4	228.41	4	6.36	4		4	
1/4	1,832.07	1/4	1,560.64	1/4	1,289.84	1/4	1,018.48	1/4	747.12	1/4	477.15	1/4	223.31	1/4		1/4		1/4	
1/2	1,826.41	1/2	1,555.00	1/2	1,284.19	1/2	1,012.83	1/2	741.47	1/2	471.66	1/2	218.21	1/2		1/2		1/2	
3/4	1,820.75	3/4	1,549.36	3/4	1,278.53	3/4	1,007.17	3/4	735.82	3/4	466.17	3/4	213.10	3/4		3/4		3/4	
5	1,815.10	5	1,543.72	5	1,272.88	5	1,001.52	5	730.16	5	460.68	5	208.00	5		5		5	
1/4	1,809.44	1/4	1,538.08	1/4	1,267.23	1/4	995.87	1/4	724.51	1/4	455.23	1/4	202.93	1/4		1/4		1/4	
1/2	1,803.78	1/2	1,532.44	1/2	1,261.57	1/2	990.21	1/2	718.86	1/2	449.78	1/2	197.85	1/2		1/2		1/2	
3/4	1,798.13	3/4	1,526.80	3/4	1,255.92	3/4	984.56	3/4	713.20	3/4	444.33	3/4	192.78	3/4		3/4		3/4	
6	1,792.47	6	1,521.16	6	1,250.27	6	978.91	6	707.55	6	438.89	6	187.71	6		6		6	
1/4	1,786.81	1/4	1,515.52	1/4	1,244.61	1/4	973.25	1/4	701.90	1/4	433.47	1/4	182.67	1/4		1/4		1/4	
1/2	1,781.16	1/2	1,509.88	1/2	1,238.96	1/2	967.60	1/2	696.24	1/2	428.05	1/2	177.63	1/2		1/2		1/2	
3/4	1,775.50	3/4	1,504.24	3/4	1,233.31	3/4	961.95	3/4	690.59	3/4	422.64	3/4	172.59	3/4		3/4		3/4	
7	1,769.84	7	1,498.60	7	1,227.65	7	956.29	7	684.94	7	417.22	7	167.56	7		7		7	
1/4	1,764.19	1/4	1,492.96	1/4	1,222.00	1/4	950.64	1/4	679.28	1/4	411.85	1/4	162.55	1/4		1/4		1/4	
1/2	1,758.53	1/2	1,487.32	1/2	1,216.35	1/2	944.99	1/2	673.63	1/2	406.48	1/2	157.55	1/2		1/2		1/2	
3/4	1,752.87	3/4	1,481.68	3/4	1,210.69	3/4	939.33	3/4	667.98	3/4	401.10	3/4	152.54	3/4		3/4		3/4	
8	1,747.22	8	1,476.04	8	1,205.04	8	933.68	8	662.32	8	395.73	8	147.53	8		8		8	
1/4	1,741.56	1/4	1,470.40	1/4	1,199.39	1/4	928.03	1/4	656.67	1/4	390.39	1/4	142.56	1/4		1/4		1/4	
1/2	1,735.90	1/2	1,464.76	1/2	1,193.73	1/2	922.37	1/2	651.02	1/2	385.05	1/2	137.59	1/2		1/2		1/2	
3/4	1,730.25	3/4	1,459.12	3/4	1,188.08	3/4	916.72	3/4	645.36	3/4	379.71	3/4	132.62	3/4		3/4		3/4	
9	1,724.59	9	1,453.48	9	1,182.43	9	911.07	9	639.71	9	374.37	9	127.65	9		9		9	
1/4	1,718.93	1/4	1,447.84	1/4	1,176.77	1/4	905.41	1/4	634.06	1/4	369.06	1/4	122.71	1/4		1/4		1/4	
1/2	1,713.28	1/2	1,442.19	1/2	1,171.12	1/2	899.76	1/2	628.40	1/2	363.76	1/2	117.77	1/2		1/2		1/2	
3/4	1,707.62	3/4	1,436.55	3/4	1,165.47	3/4	894.11	3/4	622.75	3/4	358.45	3/4	112.83	3/4		3/4		3/4	
10	1,701.97	10	1,430.91	10	1,159.81	10	888.45	10	617.10	10	353.14	10	107.89	10		10		10	
1/4	1,696.31	1/4	1,425.27	1/4	1,154.16	1/4	882.80	1/4	611.44	1/4	347.87	1/4	102.98	1/4		1/4		1/4	
1/2	1,690.65	1/2	1,419.63	1/2	1,148.51	1/2	877.15	1/2	605.79	1/2	342.59	1/2	98.08	1/2		1/2		1/2	
3/4	1,685.00	3/4	1,413.99	3/4	1,142.85	3/4	871.49	3/4	600.14	3/4	337.32	3/4	93.17	3/4		3/4		3/4	
11	1,679.34	11	1,408.35	11	1,137.20	11	865.84	11	594.48	11	332.05	11	88.26	11		11		11	
1/4	1,673.68	1/4	1,402.71	1/4	1,131.55	1/4	860.19	1/4	588.83	1/4	326.81	1/4	83.38	1/4		1/4		1/4	
1/2	1,668.03	1/2	1,397.07	1/2	1,125.89	1/2	854.53	1/2	583.18	1/2	321.57	1/2	78.51	1/2		1/2		1/2	
3/4	1,662.37	3/4	1,391.43	3/4	1,120.24	3/4	848.88	3/4	577.53	3/4	316.33	3/4	73.63	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/09/2017 SW  
CALCULATED: 03/09/2017 CL  
PRINTED: 04/8/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2017

**PRECISION MEASUREMENT  
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*P. Mac*