



BARGE "KIRBY 16802"

PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "HW CHEM 161"

GAUGE HEIGHT 17'-04 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	0.00	0	195.74	0	547.69	0	991.95	0	1,502.05	0	2,060.40	0	2,653.36	0	3,269.24	0	3,897.50	0	4,528.14
1/4	1.18	1/4	201.95	1/4	556.18	1/4	1,002.02	1/4	1,513.27	1/4	2,072.48	1/4	2,666.01	1/4	3,282.24	1/4	3,910.66	1/4	4,541.23
1/2	2.36	1/2	208.15	1/2	564.67	1/2	1,012.08	1/2	1,524.49	1/2	2,084.55	1/2	2,678.65	1/2	3,295.25	1/2	3,923.81	1/2	4,554.32
3/4	3.54	3/4	214.36	3/4	573.15	3/4	1,022.15	3/4	1,535.71	3/4	2,096.62	3/4	2,691.30	3/4	3,308.26	3/4	3,936.96	3/4	4,567.41
1	4.71	1	220.57	1	581.64	1	1,032.21	1	1,546.93	1	2,108.69	1	2,703.95	1	3,321.26	1	3,950.12	1	4,580.50
1/4	6.88	1/4	227.01	1/4	590.29	1/4	1,042.39	1/4	1,558.24	1/4	2,120.81	1/4	2,716.64	1/4	3,334.29	1/4	3,963.27	1/4	4,593.57
1/2	9.04	1/2	233.44	1/2	598.93	1/2	1,052.57	1/2	1,569.55	1/2	2,132.93	1/2	2,729.33	1/2	3,347.32	1/2	3,976.42	1/2	4,606.64
3/4	11.20	3/4	239.88	3/4	607.57	3/4	1,062.75	3/4	1,580.86	3/4	2,145.05	3/4	2,742.02	3/4	3,360.35	3/4	3,989.57	3/4	4,619.71
2	13.36	2	246.31	2	616.21	2	1,072.93	2	1,592.17	2	2,157.17	2	2,754.71	2	3,373.38	2	4,002.71	2	4,632.79
1/4	16.15	1/4	252.97	1/4	625.01	1/4	1,083.22	1/4	1,603.55	1/4	2,169.35	1/4	2,767.43	1/4	3,386.42	1/4	4,015.87	1/4	4,645.85
1/2	18.95	1/2	259.63	1/2	633.80	1/2	1,093.51	1/2	1,614.93	1/2	2,181.52	1/2	2,780.15	1/2	3,399.46	1/2	4,029.02	1/2	4,658.90
3/4	21.75	3/4	266.29	3/4	642.59	3/4	1,103.80	3/4	1,626.31	3/4	2,193.70	3/4	2,792.88	3/4	3,412.51	3/4	4,042.18	3/4	4,671.96
3	24.55	3	272.95	3	651.38	3	1,114.10	3	1,637.69	3	2,205.88	3	2,805.60	3	3,425.55	3	4,055.33	3	4,685.02
1/4	27.86	1/4	279.82	1/4	660.31	1/4	1,124.48	1/4	1,649.15	1/4	2,218.12	1/4	2,818.36	1/4	3,438.61	1/4	4,068.49	1/4	4,698.06
1/2	31.17	1/2	286.69	1/2	669.24	1/2	1,134.87	1/2	1,660.62	1/2	2,230.36	1/2	2,831.12	1/2	3,451.67	1/2	4,081.64	1/2	4,711.10
3/4	34.48	3/4	293.56	3/4	678.17	3/4	1,145.26	3/4	1,672.08	3/4	2,242.60	3/4	2,843.88	3/4	3,464.73	3/4	4,094.80	3/4	4,724.13
4	37.79	4	300.43	4	687.10	4	1,155.64	4	1,683.55	4	2,254.83	4	2,856.64	4	3,477.79	4	4,107.95	4	4,737.17
1/4	41.54	1/4	307.51	1/4	696.17	1/4	1,166.14	1/4	1,695.08	1/4	2,267.12	1/4	2,869.43	1/4	3,490.86	1/4	4,121.10	1/4	4,750.19
1/2	45.30	1/2	314.60	1/2	705.25	1/2	1,176.63	1/2	1,706.62	1/2	2,279.40	1/2	2,882.23	1/2	3,503.94	1/2	4,134.25	1/2	4,763.21
3/4	49.05	3/4	321.68	3/4	714.33	3/4	1,187.13	3/4	1,718.15	3/4	2,291.69	3/4	2,895.02	3/4	3,517.02	3/4	4,147.40	3/4	4,776.24
5	52.81	5	328.76	5	723.40	5	1,197.62	5	1,729.69	5	2,303.98	5	2,907.81	5	3,530.10	5	4,160.55	5	4,789.26
1/4	56.96	1/4	336.04	1/4	732.61	1/4	1,208.21	1/4	1,740.94	1/4	2,316.32	1/4	2,920.64	1/4	3,543.18	1/4	4,173.70	1/4	4,802.26
1/2	61.11	1/2	343.31	1/2	741.82	1/2	1,218.81	1/2	1,752.19	1/2	2,328.65	1/2	2,933.46	1/2	3,556.27	1/2	4,186.85	1/2	4,815.26
3/4	65.26	3/4	350.58	3/4	751.03	3/4	1,229.40	3/4	1,763.44	3/4	2,340.99	3/4	2,946.29	3/4	3,569.36	3/4	4,199.99	3/4	4,828.26
6	69.40	6	357.86	6	760.24	6	1,240.00	6	1,774.69	6	2,353.33	6	2,959.12	6	3,582.45	6	4,213.14	6	4,841.26
1/4	73.91	1/4	365.33	1/4	769.58	1/4	1,250.69	1/4	1,786.73	1/4	2,365.72	1/4	2,971.97	1/4	3,595.56	1/4	4,226.29	1/4	4,854.24
1/2	78.42	1/2	372.80	1/2	778.93	1/2	1,261.38	1/2	1,798.76	1/2	2,378.11	1/2	2,984.82	1/2	3,608.67	1/2	4,239.44	1/2	4,867.23
3/4	82.92	3/4	380.27	3/4	788.27	3/4	1,272.07	3/4	1,810.80	3/4	2,390.49	3/4	2,997.67	3/4	3,621.77	3/4	4,252.59	3/4	4,880.21
7	87.43	7	387.74	7	797.62	7	1,282.76	7	1,822.83	7	2,402.88	7	3,010.52	7	3,634.88	7	4,265.74	7	4,893.19
1/4	92.27	1/4	395.39	1/4	807.09	1/4	1,293.54	1/4	1,834.58	1/4	2,415.32	1/4	3,023.41	1/4	3,647.99	1/4	4,278.88	1/4	4,906.14
1/2	97.11	1/2	403.04	1/2	816.56	1/2	1,304.32	1/2	1,846.33	1/2	2,427.75	1/2	3,036.30	1/2	3,661.11	1/2	4,292.01	1/2	4,919.10
3/4	101.95	3/4	410.68	3/4	826.03	3/4	1,315.10	3/4	1,858.08	3/4	2,440.18	3/4	3,049.18	3/4	3,674.22	3/4	4,305.15	3/4	4,932.05
8	106.79	8	418.33	8	835.50	8	1,325.88	8	1,869.83	8	2,452.62	8	3,062.07	8	3,687.33	8	4,318.29	8	4,945.00
1/4	111.93	1/4	426.17	1/4	845.10	1/4	1,336.76	1/4	1,881.65	1/4	2,465.10	1/4	3,074.98	1/4	3,700.46	1/4	4,331.42	1/4	4,957.93
1/2	117.07	1/2	434.00	1/2	854.70	1/2	1,347.64	1/2	1,893.46	1/2	2,477.58	1/2	3,087.89	1/2	3,713.58	1/2	4,344.55	1/2	4,970.86
3/4	122.21	3/4	441.83	3/4	864.30	3/4	1,358.52	3/4	1,905.28	3/4	2,490.07	3/4	3,100.80	3/4	3,726.71	3/4	4,357.68	3/4	4,983.79
9	127.36	9	449.67	9	873.90	9	1,369.40	9	1,917.10	9	2,502.55	9	3,113.71	9	3,739.83	9	4,370.81	9	4,996.71
1/4	132.79	1/4	457.67	1/4	883.62	1/4	1,380.37	1/4	1,928.97	1/4	2,515.07	1/4	3,126.65	1/4	3,752.96	1/4	4,383.93	1/4	5,009.62
1/2	138.23	1/2	465.67	1/2	893.33	1/2	1,391.33	1/2	1,940.85	1/2	2,527.60	1/2	3,139.58	1/2	3,766.10	1/2	4,397.05	1/2	5,022.52
3/4	143.66	3/4	473.67	3/4	903.05	3/4	1,402.30	3/4	1,952.72	3/4	2,540.12	3/4	3,152.52	3/4	3,779.23	3/4	4,410.17	3/4	5,035.43
10	149.10	10	481.67	10	912.76	10	1,413.26	10	1,964.60	10	2,552.64	10	3,165.45	10	3,792.36	10	4,423.29	10	5,048.33
1/4	154.80	1/4	489.84	1/4	922.60	1/4	1,424.32	1/4	1,976.54	1/4	2,565.21	1/4	3,178.42	1/4	3,805.50	1/4	4,436.40	1/4	5,061.21
1/2	160.50	1/2	498.01	1/2	932.44	1/2	1,435.38	1/2	1,988.49	1/2	2,577.79	1/2	3,191.38	1/2	3,818.64	1/2	4,449.51	1/2	5,074.10
3/4	166.20	3/4	506.18	3/4	942.28	3/4	1,446.44	3/4	2,000.43	3/4	2,590.36	3/4	3,204.35	3/4	3,831.79	3/4	4,462.62	3/4	5,086.98
11	171.90	11	514.36	11	952.12	11	1,457.50	11	2,012.38	11	2,602.93	11	3,217.31	11	3,844.93	11	4,475.74	11	5,099.86
1/4	177.86	1/4	522.69	1/4	962.08	1/4	1,468.64	1/4	2,024.39	1/4	2,615.54	1/4	3,230.29	1/4	3,858.07	1/4	4,488.84	1/4	5,112.70
1/2	183.82	1/2	531.02	1/2	972.04	1/2	1,479.77	1/2	2,036.39	1/2	2,628.14	1/2	3,243.27	1/2	3,871.21	1/2	4,501.94	1/2	5,125.55
3/4	189.78	3/4	539.36	3/4	981.99	3/4	1,490.91	3/4	2,048.40	3/4	2,640.75	3/4	3,256.26	3/4	3,884.36	3/4	4,515.04	3/4	5,138.39

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
GAUGE POINT: RIM OF MANWAY ON CENTERLINE OF TANK.

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BARGE "KIRBY 16802"

PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "HW CHEM 161"

GAUGE HEIGHT 17'-04 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	5,151.24	0	5,756.55	0	6,333.02	0	6,868.14	0	7,346.52	0	7,747.00	0	8,032.40	0		0		0	
1/4	5,164.05	1/4	5,768.87	1/4	6,344.61	1/4	6,878.71	1/4	7,355.70	1/4	7,754.23	1/4	8,036.46	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,176.87	1/2	5,781.19	1/2	6,356.20	1/2	6,889.27	1/2	7,364.88	1/2	7,761.45	1/2	8,040.51	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,189.68	3/4	5,793.51	3/4	6,367.79	3/4	6,899.84	3/4	7,374.06	3/4	7,768.68	3/4	8,044.57	3/4	3/4	3/4	3/4	3/4	3/4
1	5,202.50	1	5,805.83	1	6,379.38	1	6,910.40	1	7,383.24	1	7,775.90	1	8,048.62	1	1	1	1	1	1
1/4	5,215.29	1/4	5,818.11	1/4	6,390.90	1/4	6,920.87	1/4	7,392.28	1/4	7,782.93	1/4	8,052.27	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,228.07	1/2	5,830.38	1/2	6,402.42	1/2	6,931.35	1/2	7,401.32	1/2	7,789.96	1/2	8,055.92	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,240.86	3/4	5,842.65	3/4	6,413.93	3/4	6,941.82	3/4	7,410.36	3/4	7,796.99	3/4	8,059.57	3/4	3/4	3/4	3/4	3/4	3/4
2	5,253.64	2	5,854.93	2	6,425.45	2	6,952.29	2	7,419.40	2	7,804.02	2	8,063.21	2	2	2	2	2	2
1/4	5,266.39	1/4	5,867.15	1/4	6,436.90	1/4	6,962.65	1/4	7,428.30	1/4	7,810.85	1/4	8,066.40	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,279.14	1/2	5,879.38	1/2	6,448.35	1/2	6,973.02	1/2	7,437.20	1/2	7,817.67	1/2	8,069.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,291.89	3/4	5,891.61	3/4	6,459.79	3/4	6,983.39	3/4	7,446.10	3/4	7,824.49	3/4	8,072.79	3/4	3/4	3/4	3/4	3/4	3/4
3	5,304.64	3	5,903.83	3	6,471.24	3	6,993.76	3	7,455.00	3	7,831.31	3	8,075.98	3	3	3	3	3	3
1/4	5,317.36	1/4	5,915.99	1/4	6,482.60	1/4	7,004.02	1/4	7,463.75	1/4	7,837.92	1/4	8,078.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,330.07	1/2	5,928.15	1/2	6,493.95	1/2	7,014.27	1/2	7,472.50	1/2	7,844.52	1/2	8,081.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,342.79	3/4	5,940.32	3/4	6,505.31	3/4	7,024.53	3/4	7,481.25	3/4	7,851.13	3/4	8,083.94	3/4	3/4	3/4	3/4	3/4	3/4
4	5,355.50	4	5,952.48	4	6,516.67	4	7,034.79	4	7,490.00	4	7,857.74	4	8,086.60	4	4	4	4	4	4
1/4	5,368.18	1/4	5,964.59	1/4	6,527.96	1/4	7,044.94	1/4	7,498.60	1/4	7,864.11	1/4	8,088.55	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,380.86	1/2	5,976.70	1/2	6,539.25	1/2	7,055.10	1/2	7,507.20	1/2	7,870.49	1/2	8,090.51	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,393.54	3/4	5,988.82	3/4	6,550.54	3/4	7,065.25	3/4	7,515.80	3/4	7,876.86	3/4	8,092.47	3/4	3/4	3/4	3/4	3/4	3/4
5	5,406.21	5	6,000.93	5	6,561.83	5	7,075.40	5	7,524.40	5	7,883.24	5	8,094.43	5	5	5	5	5	5
1/4	5,418.86	1/4	6,012.98	1/4	6,573.03	1/4	7,085.44	1/4	7,532.86	1/4	7,889.39	1/4	8,095.45	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,431.50	1/2	6,025.02	1/2	6,584.23	1/2	7,095.48	1/2	7,541.31	1/2	7,895.54	1/2	8,096.48	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,444.14	3/4	6,037.07	3/4	6,595.42	3/4	7,105.51	3/4	7,549.76	3/4	7,901.68	3/4	8,097.50	3/4	3/4	3/4	3/4	3/4	3/4
6	5,456.79	6	6,049.12	6	6,606.62	6	7,115.55	6	7,558.21	6	7,907.83	6		6	6	6	6	6	6
1/4	5,469.38	1/4	6,061.11	1/4	6,617.74	1/4	7,125.48	1/4	7,566.51	1/4	7,913.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,481.98	1/2	6,073.11	1/2	6,628.86	1/2	7,135.40	1/2	7,574.80	1/2	7,919.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,494.57	3/4	6,085.10	3/4	6,639.98	3/4	7,145.33	3/4	7,583.09	3/4	7,925.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	5,507.17	7	6,097.10	7	6,651.10	7	7,155.26	7	7,591.38	7	7,931.40	7	7	7	7	7	7	7	7
1/4	5,519.73	1/4	6,109.02	1/4	6,662.13	1/4	7,165.07	1/4	7,599.51	1/4	7,937.04	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,532.29	1/2	6,120.95	1/2	6,673.17	1/2	7,174.88	1/2	7,607.64	1/2	7,942.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,544.85	3/4	6,132.88	3/4	6,684.20	3/4	7,184.69	3/4	7,615.77	3/4	7,948.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	5,557.40	8	6,144.81	8	6,695.24	8	7,194.50	8	7,623.90	8	7,953.95	8	8	8	8	8	8	8	8
1/4	5,569.92	1/4	6,156.67	1/4	6,706.18	1/4	7,204.19	1/4	7,631.86	1/4	7,959.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,582.43	1/2	6,168.54	1/2	6,717.13	1/2	7,213.88	1/2	7,639.82	1/2	7,964.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,594.94	3/4	6,180.40	3/4	6,728.08	3/4	7,223.57	3/4	7,647.78	3/4	7,970.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	5,607.45	9	6,192.26	9	6,739.02	9	7,233.26	9	7,655.74	9	7,975.40	9	9	9	9	9	9	9	9
1/4	5,619.93	1/4	6,204.06	1/4	6,749.88	1/4	7,242.83	1/4	7,663.52	1/4	7,980.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,632.40	1/2	6,215.86	1/2	6,760.73	1/2	7,252.39	1/2	7,671.31	1/2	7,985.54	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,644.88	3/4	6,227.65	3/4	6,771.58	3/4	7,261.96	3/4	7,679.10	3/4	7,990.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	5,657.36	10	6,239.45	10	6,782.43	10	7,271.52	10	7,686.88	10	7,995.67	10	10	10	10	10	10	10	10
1/4	5,669.78	1/4	6,251.18	1/4	6,793.19	1/4	7,280.96	1/4	7,694.49	1/4	8,000.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,682.20	1/2	6,262.92	1/2	6,803.95	1/2	7,290.40	1/2	7,702.10	1/2	8,005.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,694.63	3/4	6,274.65	3/4	6,814.71	3/4	7,299.85	3/4	7,709.70	3/4	8,009.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	5,707.05	11	6,286.38	11	6,825.48	11	7,309.29	11	7,717.31	11	8,014.71	11	11	11	11	11	11	11	11
1/4	5,719.42	1/4	6,298.04	1/4	6,836.14	1/4	7,318.60	1/4	7,724.73	1/4	8,019.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,731.80	1/2	6,309.70	1/2	6,846.81	1/2	7,327.90	1/2	7,732.15	1/2	8,023.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,744.17	3/4	6,321.36	3/4	6,857.48	3/4	7,337.21	3/4	7,739.58	3/4	8,027.98	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/1989 CM
REPRINTED: 07/29/2004 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2004

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



BARGE "KIRBY 16802"

STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "HW CHEM 161"

GAUGE HEIGHT 17'-04 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	0.00	0	195.93	0	548.21	0	992.90	0	1,503.50	0	2,062.40	0	2,655.90	0	3,272.38	0	3,901.26	0	4,532.50
1/4	1.18	1/4	202.14	1/4	556.71	1/4	1,002.98	1/4	1,514.73	1/4	2,074.48	1/4	2,668.57	1/4	3,285.40	1/4	3,914.42	1/4	4,545.60
1/2	2.37	1/2	208.35	1/2	565.21	1/2	1,013.06	1/2	1,525.96	1/2	2,086.56	1/2	2,681.24	1/2	3,298.42	1/2	3,927.58	1/2	4,558.70
3/4	3.55	3/4	214.55	3/4	573.71	3/4	1,023.14	3/4	1,537.20	3/4	2,098.64	3/4	2,693.90	3/4	3,311.43	3/4	3,940.74	3/4	4,571.80
1	4.74	1	220.76	1	582.21	1	1,033.21	1	1,548.43	1	2,110.71	1	2,706.57	1	3,324.45	1	3,953.90	1	4,584.90
1/4	6.89	1/4	227.21	1/4	590.86	1/4	1,043.40	1/4	1,559.74	1/4	2,122.85	1/4	2,719.27	1/4	3,337.49	1/4	3,967.07	1/4	4,597.99
1/2	9.05	1/2	233.65	1/2	599.51	1/2	1,053.60	1/2	1,571.06	1/2	2,134.98	1/2	2,731.96	1/2	3,350.54	1/2	3,980.24	1/2	4,611.07
3/4	11.20	3/4	240.10	3/4	608.16	3/4	1,063.79	3/4	1,582.37	3/4	2,147.11	3/4	2,744.66	3/4	3,363.58	3/4	3,993.40	3/4	4,624.15
2	13.36	2	246.55	2	616.81	2	1,073.98	2	1,593.69	2	2,159.24	2	2,757.36	2	3,376.62	2	4,006.57	2	4,637.24
1/4	16.16	1/4	253.21	1/4	625.61	1/4	1,084.27	1/4	1,605.09	1/4	2,171.43	1/4	2,770.10	1/4	3,389.67	1/4	4,019.74	1/4	4,650.31
1/2	18.96	1/2	259.88	1/2	634.40	1/2	1,094.57	1/2	1,616.49	1/2	2,183.63	1/2	2,782.83	1/2	3,402.73	1/2	4,032.91	1/2	4,663.38
3/4	21.77	3/4	266.55	3/4	643.20	3/4	1,104.87	3/4	1,627.89	3/4	2,195.83	3/4	2,795.57	3/4	3,415.78	3/4	4,046.07	3/4	4,676.45
3	24.57	3	273.21	3	652.00	3	1,115.17	3	1,639.29	3	2,208.02	3	2,808.31	3	3,428.83	3	4,059.24	3	4,689.52
1/4	27.89	1/4	280.09	1/4	660.94	1/4	1,125.57	1/4	1,650.76	1/4	2,220.27	1/4	2,821.08	1/4	3,441.90	1/4	4,072.41	1/4	4,702.58
1/2	31.20	1/2	286.96	1/2	669.88	1/2	1,135.96	1/2	1,662.23	1/2	2,232.51	1/2	2,833.85	1/2	3,454.98	1/2	4,085.57	1/2	4,715.63
3/4	34.52	3/4	293.84	3/4	678.82	3/4	1,146.36	3/4	1,673.70	3/4	2,244.76	3/4	2,846.61	3/4	3,468.05	3/4	4,098.74	3/4	4,728.68
4	37.83	4	300.71	4	687.76	4	1,156.76	4	1,685.17	4	2,257.00	4	2,859.38	4	3,481.12	4	4,111.91	4	4,741.74
1/4	41.59	1/4	307.80	1/4	696.85	1/4	1,167.27	1/4	1,696.71	1/4	2,269.30	1/4	2,872.19	1/4	3,494.21	1/4	4,125.07	1/4	4,754.77
1/2	45.35	1/2	314.89	1/2	705.93	1/2	1,177.77	1/2	1,708.26	1/2	2,281.60	1/2	2,885.00	1/2	3,507.31	1/2	4,138.23	1/2	4,767.80
3/4	49.10	3/4	321.98	3/4	715.01	3/4	1,188.28	3/4	1,719.81	3/4	2,293.89	3/4	2,897.81	3/4	3,520.40	3/4	4,151.39	3/4	4,780.83
5	52.86	5	329.07	5	724.10	5	1,198.79	5	1,731.36	5	2,306.19	5	2,910.62	5	3,533.50	5	4,164.55	5	4,793.86
1/4	57.01	1/4	336.36	1/4	733.32	1/4	1,209.39	1/4	1,742.62	1/4	2,318.54	1/4	2,923.45	1/4	3,546.60	1/4	4,177.71	1/4	4,806.87
1/2	61.17	1/2	343.64	1/2	742.54	1/2	1,219.99	1/2	1,753.88	1/2	2,330.89	1/2	2,936.29	1/2	3,559.70	1/2	4,190.87	1/2	4,819.88
3/4	65.32	3/4	350.93	3/4	751.76	3/4	1,230.59	3/4	1,765.14	3/4	2,343.24	3/4	2,949.12	3/4	3,572.80	3/4	4,204.03	3/4	4,832.89
6	69.48	6	358.21	6	760.98	6	1,241.19	6	1,776.40	6	2,355.60	6	2,961.95	6	3,585.90	6	4,217.19	6	4,845.90
1/4	73.99	1/4	365.69	1/4	770.33	1/4	1,251.89	1/4	1,788.45	1/4	2,367.99	1/4	2,974.82	1/4	3,599.02	1/4	4,230.35	1/4	4,858.90
1/2	78.50	1/2	373.17	1/2	779.68	1/2	1,262.58	1/2	1,800.50	1/2	2,380.39	1/2	2,987.69	1/2	3,612.14	1/2	4,243.51	1/2	4,871.89
3/4	83.01	3/4	380.64	3/4	789.03	3/4	1,273.28	3/4	1,812.55	3/4	2,392.79	3/4	3,000.56	3/4	3,625.26	3/4	4,256.67	3/4	4,884.89
7	87.52	7	388.12	7	798.38	7	1,283.98	7	1,824.60	7	2,405.19	7	3,013.43	7	3,638.38	7	4,269.83	7	4,897.88
1/4	92.37	1/4	395.77	1/4	807.86	1/4	1,294.77	1/4	1,836.35	1/4	2,417.64	1/4	3,026.32	1/4	3,651.51	1/4	4,282.98	1/4	4,910.85
1/2	97.21	1/2	403.43	1/2	817.35	1/2	1,305.57	1/2	1,848.11	1/2	2,430.08	1/2	3,039.21	1/2	3,664.63	1/2	4,296.13	1/2	4,923.82
3/4	102.06	3/4	411.08	3/4	826.83	3/4	1,316.37	3/4	1,859.86	3/4	2,442.53	3/4	3,052.11	3/4	3,677.76	3/4	4,309.28	3/4	4,936.79
8	106.90	8	418.74	8	836.31	8	1,327.17	8	1,871.62	8	2,454.98	8	3,065.00	8	3,690.88	8	4,322.43	8	4,949.76
1/4	112.05	1/4	426.58	1/4	845.92	1/4	1,338.05	1/4	1,883.45	1/4	2,467.47	1/4	3,077.92	1/4	3,704.02	1/4	4,335.57	1/4	4,962.70
1/2	117.20	1/2	434.42	1/2	855.52	1/2	1,348.94	1/2	1,895.29	1/2	2,479.96	1/2	3,090.85	1/2	3,717.15	1/2	4,348.71	1/2	4,975.64
3/4	122.35	3/4	442.26	3/4	865.13	3/4	1,359.83	3/4	1,907.12	3/4	2,492.46	3/4	3,103.77	3/4	3,730.29	3/4	4,361.86	3/4	4,988.58
9	127.50	9	450.10	9	874.74	9	1,370.71	9	1,918.95	9	2,504.95	9	3,116.69	9	3,743.43	9	4,375.00	9	5,001.52
1/4	132.93	1/4	458.11	1/4	884.46	1/4	1,381.70	1/4	1,930.84	1/4	2,517.49	1/4	3,129.64	1/4	3,756.58	1/4	4,388.14	1/4	5,014.44
1/2	138.37	1/2	466.12	1/2	894.19	1/2	1,392.68	1/2	1,942.73	1/2	2,530.02	1/2	3,142.60	1/2	3,769.73	1/2	4,401.27	1/2	5,027.36
3/4	143.80	3/4	474.13	3/4	903.92	3/4	1,403.66	3/4	1,954.61	3/4	2,542.56	3/4	3,155.55	3/4	3,782.88	3/4	4,414.41	3/4	5,040.27
10	149.24	10	482.14	10	913.64	10	1,414.64	10	1,966.50	10	2,555.10	10	3,168.50	10	3,796.02	10	4,427.55	10	5,053.19
1/4	154.95	1/4	490.32	1/4	923.49	1/4	1,425.71	1/4	1,978.46	1/4	2,567.68	1/4	3,181.48	1/4	3,809.17	1/4	4,440.67	1/4	5,066.08
1/2	160.65	1/2	498.50	1/2	933.35	1/2	1,436.77	1/2	1,990.42	1/2	2,580.26	1/2	3,194.45	1/2	3,822.32	1/2	4,453.80	1/2	5,078.96
3/4	166.36	3/4	506.68	3/4	943.20	3/4	1,447.84	3/4	2,002.37	3/4	2,592.85	3/4	3,207.43	3/4	3,835.47	3/4	4,466.92	3/4	5,091.85
11	172.07	11	514.86	11	953.05	11	1,458.90	11	2,014.33	11	2,605.43	11	3,220.40	11	3,848.62	11	4,480.05	11	5,104.74
1/4	178.04	1/4	523.20	1/4	963.01	1/4	1,470.05	1/4	2,026.35	1/4	2,618.05	1/4	3,233.40	1/4	3,861.78	1/4	4,493.16	1/4	5,117.60
1/2	184.00	1/2	531.54	1/2	972.98	1/2	1,481.20	1/2	2,038.37	1/2	2,630.67	1/2	3,246.39	1/2	3,874.94	1/2	4,506.27	1/2	5,130.46
3/4	189.96	3/4	539.88	3/4	982.94	3/4	1,492.35	3/4	2,050.39	3/4	2,643.29	3/4	3,259.39	3/4	3,888.10	3/4	4,519.39	3/4	5,143.33

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
GAUGE POINT: RIM OF MANWAY ON CENTERLINE OF TANK.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 16802"

STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

FORMERLY "HW CHEM 161"

GAUGE HEIGHT 17'-04 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	5,156.19	0	5,762.07	0	6,339.10	0	6,874.74	0	7,353.57	0	7,754.43	0	8,040.12	0		0		0	
1/4	5,169.02	1/4	5,774.41	1/4	6,350.70	1/4	6,885.32	1/4	7,362.76	1/4	7,761.67	1/4	8,044.17	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,181.85	1/2	5,786.75	1/2	6,362.31	1/2	6,895.89	1/2	7,371.95	1/2	7,768.91	1/2	8,048.23	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,194.67	3/4	5,799.09	3/4	6,373.92	3/4	6,906.47	3/4	7,381.14	3/4	7,776.14	3/4	8,052.28	3/4	3/4	3/4	3/4	3/4	3/4
1	5,207.50	1	5,811.43	1	6,385.52	1	6,917.05	1	7,390.33	1	7,783.38	1	8,056.33	1		1		1	
1/4	5,220.30	1/4	5,823.71	1/4	6,397.05	1/4	6,927.53	1/4	7,399.38	1/4	7,790.42	1/4	8,059.99	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,233.10	1/2	5,836.00	1/2	6,408.57	1/2	6,938.01	1/2	7,408.43	1/2	7,797.45	1/2	8,063.64	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,245.89	3/4	5,848.29	3/4	6,420.10	3/4	6,948.49	3/4	7,417.48	3/4	7,804.49	3/4	8,067.30	3/4	3/4	3/4	3/4	3/4	3/4
2	5,258.69	2	5,860.57	2	6,431.62	2	6,958.98	2	7,426.52	2	7,811.52	2	8,070.95	2		2		2	
1/4	5,271.45	1/4	5,872.80	1/4	6,443.08	1/4	6,969.35	1/4	7,435.43	1/4	7,818.35	1/4	8,074.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,284.21	1/2	5,885.04	1/2	6,454.54	1/2	6,979.73	1/2	7,444.33	1/2	7,825.18	1/2	8,077.35	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,296.98	3/4	5,897.27	3/4	6,465.99	3/4	6,990.10	3/4	7,453.24	3/4	7,832.01	3/4	8,080.54	3/4	3/4	3/4	3/4	3/4	3/4
3	5,309.74	3	5,909.50	3	6,477.45	3	7,000.48	3	7,462.14	3	7,838.83	3	8,083.74	3		3		3	
1/4	5,322.47	1/4	5,921.67	1/4	6,488.82	1/4	7,010.74	1/4	7,470.90	1/4	7,845.45	1/4	8,086.39	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,335.20	1/2	5,933.85	1/2	6,500.19	1/2	7,021.01	1/2	7,479.67	1/2	7,852.06	1/2	8,089.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,347.93	3/4	5,946.02	3/4	6,511.56	3/4	7,031.28	3/4	7,488.43	3/4	7,858.67	3/4	8,091.70	3/4	3/4	3/4	3/4	3/4	3/4
4	5,360.67	4	5,958.19	4	6,522.93	4	7,041.55	4	7,497.19	4	7,865.29	4	8,094.36	4		4		4	
1/4	5,373.35	1/4	5,970.32	1/4	6,534.23	1/4	7,051.71	1/4	7,505.80	1/4	7,871.67	1/4	8,096.32	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,386.04	1/2	5,982.44	1/2	6,545.52	1/2	7,061.87	1/2	7,514.42	1/2	7,878.06	1/2	8,098.29	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,398.72	3/4	5,994.57	3/4	6,556.82	3/4	7,072.03	3/4	7,523.03	3/4	7,884.45	3/4	8,100.25	3/4	3/4	3/4	3/4	3/4	3/4
5	5,411.40	5	6,006.69	5	6,568.12	5	7,082.19	5	7,531.64	5	7,890.83	5	8,102.21	5		5		5	
1/4	5,424.06	1/4	6,018.75	1/4	6,579.33	1/4	7,092.24	1/4	7,540.10	1/4	7,896.98	1/4	8,103.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,436.71	1/2	6,030.81	1/2	6,590.55	1/2	7,102.30	1/2	7,548.56	1/2	7,903.13	1/2	8,104.26	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,449.37	3/4	6,042.87	3/4	6,601.76	3/4	7,112.35	3/4	7,557.02	3/4	7,909.28	3/4	8,105.29	3/4	3/4	3/4	3/4	3/4	3/4
6	5,462.02	6	6,054.93	6	6,612.98	6	7,122.40	6	7,565.48	6	7,915.43	6		6		6		6	
1/4	5,474.64	1/4	6,066.93	1/4	6,624.11	1/4	7,132.34	1/4	7,573.78	1/4	7,921.33	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,487.25	1/2	6,078.94	1/2	6,635.24	1/2	7,142.27	1/2	7,582.08	1/2	7,927.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,499.86	3/4	6,090.95	3/4	6,646.37	3/4	7,152.21	3/4	7,590.39	3/4	7,933.13	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	5,512.48	7	6,102.95	7	6,657.50	7	7,162.14	7	7,598.69	7	7,939.02	7		7		7		7	
1/4	5,525.04	1/4	6,114.89	1/4	6,668.54	1/4	7,171.96	1/4	7,606.82	1/4	7,944.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,537.61	1/2	6,126.82	1/2	6,679.58	1/2	7,181.77	1/2	7,614.95	1/2	7,950.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,550.17	3/4	6,138.76	3/4	6,690.63	3/4	7,191.59	3/4	7,623.08	3/4	7,955.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	5,562.74	8	6,150.69	8	6,701.67	8	7,201.40	8	7,631.21	8	7,961.60	8		8		8		8	
1/4	5,575.27	1/4	6,162.57	1/4	6,712.63	1/4	7,211.11	1/4	7,639.18	1/4	7,966.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,587.80	1/2	6,174.45	1/2	6,723.58	1/2	7,220.81	1/2	7,647.15	1/2	7,972.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,600.33	3/4	6,186.33	3/4	6,734.54	3/4	7,230.51	3/4	7,655.13	3/4	7,977.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	5,612.86	9	6,198.21	9	6,745.50	9	7,240.21	9	7,663.10	9	7,983.07	9		9		9		9	
1/4	5,625.34	1/4	6,210.02	1/4	6,756.36	1/4	7,249.79	1/4	7,670.89	1/4	7,988.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,637.82	1/2	6,221.83	1/2	6,767.23	1/2	7,259.36	1/2	7,678.69	1/2	7,993.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,650.30	3/4	6,233.64	3/4	6,778.09	3/4	7,268.93	3/4	7,686.49	3/4	7,998.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	5,662.79	10	6,245.45	10	6,788.95	10	7,278.50	10	7,694.29	10	8,003.36	10		10		10		10	
1/4	5,675.22	1/4	6,257.20	1/4	6,799.73	1/4	7,287.95	1/4	7,701.90	1/4	8,008.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,687.65	1/2	6,268.94	1/2	6,810.50	1/2	7,297.40	1/2	7,709.51	1/2	8,012.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,700.09	3/4	6,280.68	3/4	6,821.27	3/4	7,306.86	3/4	7,717.12	3/4	8,017.64	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	5,712.52	11	6,292.43	11	6,832.05	11	7,316.31	11	7,724.74	11	8,022.40	11		11		11		11	
1/4	5,724.91	1/4	6,304.10	1/4	6,842.72	1/4	7,325.63	1/4	7,732.16	1/4	8,026.83	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	5,737.30	1/2	6,315.76	1/2	6,853.39	1/2	7,334.94	1/2	7,739.58	1/2	8,031.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5,749.68	3/4	6,327.43	3/4	6,864.07	3/4	7,344.26	3/4	7,747.01	3/4	8,035.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/1989 CM
REPRINTED: 07/29/2004 SW

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ALL PRIOR TO 07/2004

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