



BARGE "KIRBY 16835"

PORT HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CMS 1605"

Table with columns for depth (IN) and height (FT) for various heights from 0 to 11 feet, providing capacity values in barrels.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E. CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

Signature of Paul A. ...



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PORT HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CMS 1605"

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	4,938.19	0	5,527.49	0	6,094.03	0	6,627.21	0	7,114.43	0	7,539.29	0	7,876.74	0	8,065.34	0		0	
1/4	4,950.62	1/4	5,539.55	1/4	6,105.50	1/4	6,637.85	1/4	7,123.94	1/4	7,547.27	1/4	7,882.47	1/4		1/4		1/4	
1/2	4,963.06	1/2	5,551.60	1/2	6,116.96	1/2	6,648.49	1/2	7,133.46	1/2	7,555.25	1/2	7,888.20	1/2		1/2		1/2	
3/4	4,975.49	3/4	5,563.66	3/4	6,128.43	3/4	6,659.12	3/4	7,142.97	3/4	7,563.23	3/4	7,893.92	3/4		3/4		3/4	
1	4,987.93	1	5,575.71	1	6,139.90	1	6,669.76	1	7,152.49	1	7,571.20	1	7,899.65	1		1		1	
1/4	5,000.34	1/4	5,587.73	1/4	6,151.30	1/4	6,680.32	1/4	7,161.89	1/4	7,579.03	1/4	7,905.13	1/4		1/4		1/4	
1/2	5,012.75	1/2	5,599.74	1/2	6,162.71	1/2	6,690.87	1/2	7,171.29	1/2	7,586.85	1/2	7,910.62	1/2		1/2		1/2	
3/4	5,025.16	3/4	5,611.75	3/4	6,174.12	3/4	6,701.43	3/4	7,180.70	3/4	7,594.68	3/4	7,916.10	3/4		3/4		3/4	
2	5,037.57	2	5,623.77	2	6,185.52	2	6,711.99	2	7,190.10	2	7,602.50	2	7,921.58	2		2		2	
1/4	5,049.96	1/4	5,635.74	1/4	6,196.87	1/4	6,722.46	1/4	7,199.39	1/4	7,610.17	1/4	7,926.81	1/4		1/4		1/4	
1/2	5,062.35	1/2	5,647.71	1/2	6,208.21	1/2	6,732.93	1/2	7,208.68	1/2	7,617.83	1/2	7,932.03	1/2		1/2		1/2	
3/4	5,074.73	3/4	5,659.68	3/4	6,219.56	3/4	6,743.41	3/4	7,217.97	3/4	7,625.50	3/4	7,937.26	3/4		3/4		3/4	
3	5,087.12	3	5,671.65	3	6,230.90	3	6,753.88	3	7,227.26	3	7,633.17	3	7,942.48	3		3		3	
1/4	5,099.48	1/4	5,683.58	1/4	6,242.19	1/4	6,764.27	1/4	7,236.44	1/4	7,640.67	1/4	7,947.43	1/4		1/4		1/4	
1/2	5,111.83	1/2	5,695.51	1/2	6,253.47	1/2	6,774.65	1/2	7,245.61	1/2	7,648.17	1/2	7,952.38	1/2		1/2		1/2	
3/4	5,124.19	3/4	5,707.44	3/4	6,264.75	3/4	6,785.04	3/4	7,254.79	3/4	7,655.68	3/4	7,957.33	3/4		3/4		3/4	
4	5,136.55	4	5,719.36	4	6,276.04	4	6,795.43	4	7,263.96	4	7,663.18	4	7,962.29	4		4		4	
1/4	5,148.88	1/4	5,731.25	1/4	6,287.25	1/4	6,805.73	1/4	7,273.02	1/4	7,670.51	1/4	7,966.94	1/4		1/4		1/4	
1/2	5,161.21	1/2	5,743.13	1/2	6,298.47	1/2	6,816.03	1/2	7,282.07	1/2	7,677.85	1/2	7,971.60	1/2		1/2		1/2	
3/4	5,173.54	3/4	5,755.01	3/4	6,309.69	3/4	6,826.33	3/4	7,291.13	3/4	7,685.18	3/4	7,976.26	3/4		3/4		3/4	
5	5,185.87	5	5,766.90	5	6,320.91	5	6,836.63	5	7,300.19	5	7,692.51	5	7,980.92	5		5		5	
1/4	5,198.17	1/4	5,778.73	1/4	6,332.06	1/4	6,846.84	1/4	7,309.12	1/4	7,699.67	1/4	7,985.26	1/4		1/4		1/4	
1/2	5,210.47	1/2	5,790.57	1/2	6,343.21	1/2	6,857.05	1/2	7,318.05	1/2	7,706.83	1/2	7,989.61	1/2		1/2		1/2	
3/4	5,222.77	3/4	5,802.40	3/4	6,354.37	3/4	6,867.26	3/4	7,326.99	3/4	7,713.99	3/4	7,993.95	3/4		3/4		3/4	
6	5,235.08	6	5,814.24	6	6,365.52	6	6,877.47	6	7,335.92	6	7,721.15	6	7,998.29	6		6		6	
1/4	5,247.35	1/4	5,826.03	1/4	6,376.60	1/4	6,887.59	1/4	7,344.73	1/4	7,728.13	1/4	8,002.29	1/4		1/4		1/4	
1/2	5,259.61	1/2	5,837.81	1/2	6,387.69	1/2	6,897.70	1/2	7,353.54	1/2	7,735.11	1/2	8,006.30	1/2		1/2		1/2	
3/4	5,271.88	3/4	5,849.60	3/4	6,398.77	3/4	6,907.82	3/4	7,362.35	3/4	7,742.09	3/4	8,010.30	3/4		3/4		3/4	
7	5,284.15	7	5,861.39	7	6,409.86	7	6,917.94	7	7,371.16	7	7,749.07	7	8,014.30	7		7		7	
1/4	5,296.39	1/4	5,873.13	1/4	6,420.87	1/4	6,927.96	1/4	7,379.83	1/4	7,755.86	1/4	8,017.92	1/4		1/4		1/4	
1/2	5,308.63	1/2	5,884.86	1/2	6,431.88	1/2	6,937.99	1/2	7,388.51	1/2	7,762.65	1/2	8,021.55	1/2		1/2		1/2	
3/4	5,320.87	3/4	5,896.60	3/4	6,442.90	3/4	6,948.01	3/4	7,397.19	3/4	7,769.44	3/4	8,025.17	3/4		3/4		3/4	
8	5,333.10	8	5,908.34	8	6,453.91	8	6,958.03	8	7,405.87	8	7,776.23	8	8,028.80	8		8		8	
1/4	5,345.31	1/4	5,920.03	1/4	6,464.86	1/4	6,967.96	1/4	7,414.42	1/4	7,782.82	1/4	8,031.99	1/4		1/4		1/4	
1/2	5,357.51	1/2	5,931.71	1/2	6,475.80	1/2	6,977.89	1/2	7,422.97	1/2	7,789.42	1/2	8,035.19	1/2		1/2		1/2	
3/4	5,369.71	3/4	5,943.40	3/4	6,486.74	3/4	6,987.81	3/4	7,431.52	3/4	7,796.02	3/4	8,038.39	3/4		3/4		3/4	
9	5,381.92	9	5,955.09	9	6,497.69	9	6,997.74	9	7,440.06	9	7,802.61	9	8,041.59	9		9		9	
1/4	5,394.09	1/4	5,966.72	1/4	6,508.56	1/4	7,007.57	1/4	7,448.47	1/4	7,809.00	1/4	8,044.30	1/4		1/4		1/4	
1/2	5,406.25	1/2	5,978.35	1/2	6,519.43	1/2	7,017.39	1/2	7,456.88	1/2	7,815.40	1/2	8,047.00	1/2		1/2		1/2	
3/4	5,418.42	3/4	5,989.99	3/4	6,530.30	3/4	7,027.22	3/4	7,465.29	3/4	7,821.79	3/4	8,049.71	3/4		3/4		3/4	
10	5,430.59	10	6,001.62	10	6,541.16	10	7,037.05	10	7,473.71	10	7,828.18	10	8,052.41	10		10		10	
1/4	5,442.72	1/4	6,013.20	1/4	6,551.96	1/4	7,046.77	1/4	7,481.98	1/4	7,834.36	1/4	8,054.50	1/4		1/4		1/4	
1/2	5,454.86	1/2	6,024.78	1/2	6,562.75	1/2	7,056.50	1/2	7,490.25	1/2	7,840.54	1/2	8,056.59	1/2		1/2		1/2	
3/4	5,466.99	3/4	6,036.36	3/4	6,573.55	3/4	7,066.22	3/4	7,498.52	3/4	7,846.72	3/4	8,058.68	3/4		3/4		3/4	
11	5,479.12	11	6,047.94	11	6,584.34	11	7,075.95	11	7,506.79	11	7,852.90	11	8,060.77	11		11		11	
1/4	5,491.21	1/4	6,059.46	1/4	6,595.06	1/4	7,085.57	1/4	7,514.91	1/4	7,858.86	1/4	8,061.91	1/4		1/4		1/4	
1/2	5,503.31	1/2	6,070.99	1/2	6,605.78	1/2	7,095.19	1/2	7,523.04	1/2	7,864.82	1/2	8,063.05	1/2		1/2		1/2	
3/4	5,515.40	3/4	6,082.51	3/4	6,616.49	3/4	7,104.81	3/4	7,531.17	3/4	7,870.78	3/4	8,064.20	3/4		3/4		3/4	

STRAPPED: 02/05/2014 CL
CALCULATED: 02/05/2014 CL
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.
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CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "CMS 1605"

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	4,936.42	0	5,525.49	0	6,091.81	0	6,624.80	0	7,111.86	0	7,536.59	0	7,873.96	0	8,062.53	0		0	
1/4	4,948.85	1/4	5,537.54	1/4	6,103.27	1/4	6,635.43	1/4	7,121.37	1/4	7,544.57	1/4	7,879.69	1/4		1/4		1/4	
1/2	4,961.28	1/2	5,549.59	1/2	6,114.73	1/2	6,646.06	1/2	7,130.88	1/2	7,552.55	1/2	7,885.41	1/2		1/2		1/2	
3/4	4,973.71	3/4	5,561.64	3/4	6,126.20	3/4	6,656.70	3/4	7,140.39	3/4	7,560.52	3/4	7,891.14	3/4		3/4		3/4	
1	4,986.14	1	5,573.69	1	6,137.66	1	6,667.33	1	7,149.90	1	7,568.50	1	7,896.87	1		1		1	
1/4	4,998.54	1/4	5,585.70	1/4	6,149.06	1/4	6,677.88	1/4	7,159.30	1/4	7,576.32	1/4	7,902.35	1/4		1/4		1/4	
1/2	5,010.95	1/2	5,597.71	1/2	6,160.46	1/2	6,688.44	1/2	7,168.70	1/2	7,584.14	1/2	7,907.83	1/2		1/2		1/2	
3/4	5,023.36	3/4	5,609.72	3/4	6,171.86	3/4	6,698.99	3/4	7,178.10	3/4	7,591.96	3/4	7,913.31	3/4		3/4		3/4	
2	5,035.76	2	5,621.73	2	6,183.27	2	6,709.54	2	7,187.50	2	7,599.79	2	7,918.79	2		2		2	
1/4	5,048.14	1/4	5,633.69	1/4	6,194.61	1/4	6,720.01	1/4	7,196.79	1/4	7,607.45	1/4	7,924.02	1/4		1/4		1/4	
1/2	5,060.52	1/2	5,645.66	1/2	6,205.95	1/2	6,730.48	1/2	7,206.08	1/2	7,615.11	1/2	7,929.24	1/2		1/2		1/2	
3/4	5,072.90	3/4	5,657.63	3/4	6,217.29	3/4	6,740.95	3/4	7,215.36	3/4	7,622.78	3/4	7,934.47	3/4		3/4		3/4	
3	5,085.29	3	5,669.59	3	6,228.63	3	6,751.42	3	7,224.65	3	7,630.44	3	7,939.69	3		3		3	
1/4	5,097.64	1/4	5,681.52	1/4	6,239.91	1/4	6,761.81	1/4	7,233.82	1/4	7,637.94	1/4	7,944.64	1/4		1/4		1/4	
1/2	5,109.99	1/2	5,693.44	1/2	6,251.19	1/2	6,772.19	1/2	7,243.00	1/2	7,645.44	1/2	7,949.59	1/2		1/2		1/2	
3/4	5,122.35	3/4	5,705.36	3/4	6,262.47	3/4	6,782.57	3/4	7,252.17	3/4	7,652.95	3/4	7,954.54	3/4		3/4		3/4	
4	5,134.70	4	5,717.29	4	6,273.75	4	6,792.96	4	7,261.34	4	7,660.45	4	7,959.49	4		4		4	
1/4	5,147.03	1/4	5,729.16	1/4	6,284.96	1/4	6,803.25	1/4	7,270.39	1/4	7,667.78	1/4	7,964.15	1/4		1/4		1/4	
1/2	5,159.35	1/2	5,741.04	1/2	6,296.17	1/2	6,813.55	1/2	7,279.45	1/2	7,675.11	1/2	7,968.81	1/2		1/2		1/2	
3/4	5,171.68	3/4	5,752.92	3/4	6,307.39	3/4	6,823.85	3/4	7,288.50	3/4	7,682.44	3/4	7,973.46	3/4		3/4		3/4	
5	5,184.00	5	5,764.80	5	6,318.60	5	6,834.14	5	7,297.55	5	7,689.78	5	7,978.12	5		5		5	
1/4	5,196.30	1/4	5,776.63	1/4	6,329.75	1/4	6,844.35	1/4	7,306.48	1/4	7,696.93	1/4	7,982.46	1/4		1/4		1/4	
1/2	5,208.59	1/2	5,788.46	1/2	6,340.90	1/2	6,854.56	1/2	7,315.42	1/2	7,704.09	1/2	7,986.81	1/2		1/2		1/2	
3/4	5,220.89	3/4	5,800.29	3/4	6,352.05	3/4	6,864.76	3/4	7,324.35	3/4	7,711.25	3/4	7,991.15	3/4		3/4		3/4	
6	5,233.19	6	5,812.12	6	6,363.20	6	6,874.97	6	7,333.28	6	7,718.41	6	7,995.49	6		6		6	
1/4	5,245.45	1/4	5,823.91	1/4	6,374.28	1/4	6,885.08	1/4	7,342.08	1/4	7,725.38	1/4	7,999.49	1/4		1/4		1/4	
1/2	5,257.72	1/2	5,835.69	1/2	6,385.36	1/2	6,895.20	1/2	7,350.89	1/2	7,732.36	1/2	8,003.50	1/2		1/2		1/2	
3/4	5,269.98	3/4	5,847.47	3/4	6,396.44	3/4	6,905.31	3/4	7,359.70	3/4	7,739.34	3/4	8,007.50	3/4		3/4		3/4	
7	5,282.25	7	5,859.26	7	6,407.52	7	6,915.43	7	7,368.50	7	7,746.31	7	8,011.50	7		7		7	
1/4	5,294.48	1/4	5,870.99	1/4	6,418.53	1/4	6,925.45	1/4	7,377.18	1/4	7,753.10	1/4	8,015.12	1/4		1/4		1/4	
1/2	5,306.71	1/2	5,882.72	1/2	6,429.54	1/2	6,935.47	1/2	7,385.86	1/2	7,759.89	1/2	8,018.74	1/2		1/2		1/2	
3/4	5,318.94	3/4	5,894.46	3/4	6,440.55	3/4	6,945.49	3/4	7,394.53	3/4	7,766.68	3/4	8,022.37	3/4		3/4		3/4	
8	5,331.17	8	5,906.19	8	6,451.56	8	6,955.51	8	7,403.21	8	7,773.47	8	8,025.99	8		8		8	
1/4	5,343.37	1/4	5,917.87	1/4	6,462.50	1/4	6,965.43	1/4	7,411.76	1/4	7,780.06	1/4	8,029.19	1/4		1/4		1/4	
1/2	5,355.57	1/2	5,929.55	1/2	6,473.44	1/2	6,975.35	1/2	7,420.30	1/2	7,786.66	1/2	8,032.39	1/2		1/2		1/2	
3/4	5,367.77	3/4	5,941.24	3/4	6,484.38	3/4	6,985.28	3/4	7,428.84	3/4	7,793.25	3/4	8,035.59	3/4		3/4		3/4	
9	5,379.97	9	5,952.92	9	6,495.32	9	6,995.20	9	7,437.39	9	7,799.85	9	8,038.79	9		9		9	
1/4	5,392.13	1/4	5,964.55	1/4	6,506.18	1/4	7,005.02	1/4	7,445.80	1/4	7,806.24	1/4	8,041.49	1/4		1/4		1/4	
1/2	5,404.30	1/2	5,976.18	1/2	6,517.05	1/2	7,014.85	1/2	7,454.21	1/2	7,812.63	1/2	8,044.19	1/2		1/2		1/2	
3/4	5,416.46	3/4	5,987.81	3/4	6,527.91	3/4	7,024.67	3/4	7,462.62	3/4	7,819.02	3/4	8,046.90	3/4		3/4		3/4	
10	5,428.62	10	5,999.44	10	6,538.78	10	7,034.50	10	7,471.02	10	7,825.41	10	8,049.60	10		10		10	
1/4	5,440.75	1/4	6,011.01	1/4	6,549.57	1/4	7,044.22	1/4	7,479.29	1/4	7,831.59	1/4	8,051.69	1/4		1/4		1/4	
1/2	5,452.88	1/2	6,022.59	1/2	6,560.36	1/2	7,053.94	1/2	7,487.56	1/2	7,837.77	1/2	8,053.78	1/2		1/2		1/2	
3/4	5,465.01	3/4	6,034.16	3/4	6,571.15	3/4	7,063.66	3/4	7,495.83	3/4	7,843.95	3/4	8,055.87	3/4		3/4		3/4	
11	5,477.13	11	6,045.74	11	6,581.94	11	7,073.38	11	7,504.10	11	7,850.13	11	8,057.96	11		11		11	
1/4	5,489.22	1/4	6,057.25	1/4	6,592.66	1/4	7,083.00	1/4	7,512.22	1/4	7,856.09	1/4	8,059.10	1/4		1/4		1/4	
1/2	5,501.31	1/2	6,068.77	1/2	6,603.37	1/2	7,092.62	1/2	7,520.35	1/2	7,862.05	1/2	8,060.25	1/2		1/2		1/2	
3/4	5,513.40	3/4	6,080.29	3/4	6,614.08	3/4	7,102.24	3/4	7,528.47	3/4	7,868.00	3/4	8,061.39	3/4		3/4		3/4	

STRAPPED: 02/05/2014 CL
CALCULATED: 02/05/2014 CL
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.
PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>