



# BARGE "KIRBY 30078"

## ULLAGE TRIM TABLE

Formerly "WTC 3009"

	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	00-0/8	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 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
3 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
3 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

(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 1 PORT IS 00-0/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

February 14, 2023

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

<http://www.pmacorp.net>



# BARGE "KIRBY 30078"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							5,062.04		4,696.18		4,330.33		3,964.47		3,598.61		3,232.76		2,866.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,054.42	1/4	4,688.55	1/4	4,322.70	1/4	3,956.84	1/4	3,590.99	1/4	3,225.13	1/4	2,859.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,046.79	1/2	4,680.93	1/2	4,315.08	1/2	3,949.22	1/2	3,583.37	1/2	3,217.51	1/2	2,851.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,039.17	3/4	4,673.31	3/4	4,307.46	3/4	3,941.60	3/4	3,575.75	3/4	3,209.89	3/4	2,844.03
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5,031.55</b>	<b>1</b>	<b>4,665.69</b>	<b>1</b>	<b>4,299.84</b>	<b>1</b>	<b>3,933.98</b>	<b>1</b>	<b>3,568.13</b>	<b>1</b>	<b>3,202.27</b>	<b>1</b>	<b>2,836.41</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,023.93	1/4	4,658.07	1/4	4,292.21	1/4	3,926.35	1/4	3,560.50	1/4	3,194.64	1/4	2,828.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,016.30	1/2	4,650.45	1/2	4,284.59	1/2	3,918.73	1/2	3,552.88	1/2	3,187.02	1/2	2,821.17
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,008.68	3/4	4,642.83	3/4	4,276.97	3/4	3,911.11	3/4	3,545.26	3/4	3,179.40	3/4	2,813.55
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5,001.06</b>	<b>2</b>	<b>4,635.21</b>	<b>2</b>	<b>4,269.35</b>	<b>2</b>	<b>3,903.49</b>	<b>2</b>	<b>3,537.64</b>	<b>2</b>	<b>3,171.78</b>	<b>2</b>	<b>2,805.93</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,993.44	1/4	4,627.58	1/4	4,261.72	1/4	3,895.87	1/4	3,530.01	1/4	3,164.15	1/4	2,798.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,985.82	1/2	4,619.96	1/2	4,254.10	1/2	3,888.25	1/2	3,522.39	1/2	3,156.53	1/2	2,790.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,978.20	3/4	4,612.34	3/4	4,246.48	3/4	3,880.63	3/4	3,514.77	3/4	3,148.91	3/4	2,783.06
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4,970.58</b>	<b>3</b>	<b>4,604.72</b>	<b>3</b>	<b>4,238.86</b>	<b>3</b>	<b>3,873.01</b>	<b>3</b>	<b>3,507.15</b>	<b>3</b>	<b>3,141.29</b>	<b>3</b>	<b>2,775.44</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,962.96	1/4	4,597.09	1/4	4,231.23	1/4	3,865.38	1/4	3,499.52	1/4	3,133.67	1/4	2,767.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,955.33	1/2	4,589.47	1/2	4,223.61	1/2	3,857.76	1/2	3,491.90	1/2	3,126.05	1/2	2,760.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,947.71	3/4	4,581.85	3/4	4,215.99	3/4	3,850.14	3/4	3,484.28	3/4	3,118.43	3/4	2,752.57
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4,940.09</b>	<b>4</b>	<b>4,574.23</b>	<b>4</b>	<b>4,208.37</b>	<b>4</b>	<b>3,842.52</b>	<b>4</b>	<b>3,476.66</b>	<b>4</b>	<b>3,110.81</b>	<b>4</b>	<b>2,744.94</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,932.47	1/4	4,566.60	1/4	4,200.75	1/4	3,834.89	1/4	3,469.03	1/4	3,103.18	1/4	2,737.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,924.84	1/2	4,558.98	1/2	4,193.13	1/2	3,827.27	1/2	3,461.41	1/2	3,095.56	1/2	2,729.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,917.22	3/4	4,551.36	3/4	4,185.51	3/4	3,819.65	3/4	3,453.79	3/4	3,087.94	3/4	2,722.06
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>4,909.60</b>	<b>5</b>	<b>4,543.74</b>	<b>5</b>	<b>4,177.89</b>	<b>5</b>	<b>3,812.03</b>	<b>5</b>	<b>3,446.17</b>	<b>5</b>	<b>3,080.32</b>	<b>5</b>	<b>2,714.44</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,901.97	1/4	4,536.11	1/4	4,170.26	1/4	3,804.40	1/4	3,438.55	1/4	3,072.69	1/4	2,706.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,894.35	1/2	4,528.49	1/2	4,162.64	1/2	3,796.78	1/2	3,430.93	1/2	3,065.07	1/2	2,699.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,168.67	3/4	4,886.73	3/4	4,520.87	3/4	4,155.02	3/4	3,789.16	3/4	3,423.31	3/4	3,057.45
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>4,879.11</b>	<b>6</b>	<b>4,513.25</b>	<b>6</b>	<b>4,147.40</b>	<b>6</b>	<b>3,781.54</b>	<b>6</b>	<b>3,415.69</b>	<b>6</b>	<b>3,049.83</b>	<b>6</b>	<b>2,683.97</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,166.95	1/4	4,871.48	1/4	4,505.63	1/4	4,139.77	1/4	3,773.91	1/4	3,408.06	1/4	3,042.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,166.08	1/2	4,863.86	1/2	4,498.01	1/2	4,132.15	1/2	3,766.29	1/2	3,400.44	1/2	3,034.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,165.22	3/4	4,856.24	3/4	4,490.39	3/4	4,124.53	3/4	3,758.67	3/4	3,392.82	3/4	3,026.96
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>5,163.15</b>	<b>7</b>	<b>4,848.62</b>	<b>7</b>	<b>4,482.77</b>	<b>7</b>	<b>4,116.91</b>	<b>7</b>	<b>3,751.05</b>	<b>7</b>	<b>3,385.20</b>	<b>7</b>	<b>3,019.34</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,161.07	1/4	4,840.99	1/4	4,475.14	1/4	4,109.28	1/4	3,743.43	1/4	3,377.57	1/4	3,011.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,159.00	1/2	4,833.37	1/2	4,467.52	1/2	4,101.66	1/2	3,735.81	1/2	3,369.95	1/2	3,004.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,156.92	3/4	4,825.75	3/4	4,459.90	3/4	4,094.04	3/4	3,728.19	3/4	3,362.33	3/4	2,996.47
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>5,153.46</b>	<b>8</b>	<b>4,818.13</b>	<b>8</b>	<b>4,452.28</b>	<b>8</b>	<b>4,086.42</b>	<b>8</b>	<b>3,720.57</b>	<b>8</b>	<b>3,354.71</b>	<b>8</b>	<b>2,988.85</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,150.00	1/4	4,810.51	1/4	4,444.65	1/4	4,078.79	1/4	3,712.94	1/4	3,347.08	1/4	2,981.23
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,146.54	1/2	4,802.89	1/2	4,437.03	1/2	4,071.17	1/2	3,705.32	1/2	3,339.46	1/2	2,973.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,143.08	3/4	4,795.27	3/4	4,429.41	3/4	4,063.55	3/4	3,697.70	3/4	3,331.84	3/4	2,965.99
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>5,138.24</b>	<b>9</b>	<b>4,787.65</b>	<b>9</b>	<b>4,421.79</b>	<b>9</b>	<b>4,055.93</b>	<b>9</b>	<b>3,690.08</b>	<b>9</b>	<b>3,324.22</b>	<b>9</b>	<b>2,958.37</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,133.39	1/4	4,780.02	1/4	4,414.16	1/4	4,048.31	1/4	3,682.45	1/4	3,316.59	1/4	2,950.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,128.55	1/2	4,772.40	1/2	4,406.54	1/2	4,040.69	1/2	3,674.83	1/2	3,308.97	1/2	2,943.12
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,123.70	3/4	4,764.78	3/4	4,398.92	3/4	4,033.07	3/4	3,667.21	3/4	3,301.35	3/4	2,935.50
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>5,117.47</b>	<b>10</b>	<b>4,757.16</b>	<b>10</b>	<b>4,391.30</b>	<b>10</b>	<b>4,025.45</b>	<b>10</b>	<b>3,659.59</b>	<b>10</b>	<b>3,293.73</b>	<b>10</b>	<b>2,927.88</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,111.23	1/4	4,749.53	1/4	4,383.67	1/4	4,017.82	1/4	3,651.96	1/4	3,286.11	1/4	2,920.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,105.00	1/2	4,741.91	1/2	4,376.05	1/2	4,010.20	1/2	3,644.34	1/2	3,278.49	1/2	2,912.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,098.76	3/4	4,734.29	3/4	4,368.43	3/4	4,002.58	3/4	3,636.72	3/4	3,270.87	3/4	2,905.01
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>5,091.49</b>	<b>11</b>	<b>4,726.67</b>	<b>11</b>	<b>4,360.81</b>	<b>11</b>	<b>3,994.96</b>	<b>11</b>	<b>3,629.10</b>	<b>11</b>	<b>3,263.25</b>	<b>11</b>	<b>2,897.39</b>
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,084.21	1/4	4,719.04	1/4	4,353.19	1/4	3,987.33	1/4	3,621.47	1/4	3,255.62	1/4	2,889.76
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,076.94	1/2	4,711.42	1/2	4,345.57	1/2	3,979.71	1/2	3,613.85	1/2	3,248.00	1/2	2,882.14
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,069.66	3/4	4,703.80	3/4	4,337.95	3/4	3,972.09	3/4	3,606.23	3/4	3,240.38	3/4	2,874.52

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD

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# BARGE "KIRBY 30078"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,501.05	0	2,135.19	0	1,769.34	0	1,403.48	0	1,037.62	0	671.77	0	312.95	0	≡	0		0	
1/4	2,493.42	1/4	2,127.56	1/4	1,761.71	1/4	1,395.85	1/4	1,030.00	1/4	664.14	1/4	305.87	1/4		1/4		1/4	
1/2	2,485.80	1/2	2,119.94	1/2	1,754.09	1/2	1,388.23	1/2	1,022.38	1/2	656.52	1/2	298.78	1/2		1/2		1/2	
3/4	2,478.18	3/4	2,112.32	3/4	1,746.47	3/4	1,380.61	3/4	1,014.76	3/4	648.90	3/4	291.70	3/4		3/4		3/4	
1	2,470.56	1	2,104.70	1	1,738.85	1	1,372.99	1	1,007.14	1	641.28	1	284.61	1		1		1	
1/4	2,462.93	1/4	2,097.08	1/4	1,731.22	1/4	1,365.36	1/4	999.51	1/4	633.65	1/4	277.53	1/4		1/4		1/4	
1/2	2,455.31	1/2	2,089.46	1/2	1,723.60	1/2	1,357.74	1/2	991.89	1/2	626.03	1/2	270.44	1/2		1/2		1/2	
3/4	2,447.69	3/4	2,081.84	3/4	1,715.98	3/4	1,350.12	3/4	984.27	3/4	618.41	3/4	263.36	3/4		3/4		3/4	
2	2,440.07	2	2,074.22	2	1,708.36	2	1,342.50	2	976.65	2	610.79	2	256.38	2		2		2	
1/4	2,432.44	1/4	2,066.59	1/4	1,700.73	1/4	1,334.88	1/4	969.02	1/4	603.16	1/4	249.40	1/4		1/4		1/4	
1/2	2,424.82	1/2	2,058.97	1/2	1,693.11	1/2	1,327.26	1/2	961.40	1/2	595.54	1/2	242.42	1/2		1/2		1/2	
3/4	2,417.20	3/4	2,051.35	3/4	1,685.49	3/4	1,319.64	3/4	953.78	3/4	587.92	3/4	235.44	3/4		3/4		3/4	
3	2,409.58	3	2,043.73	3	1,677.87	3	1,312.02	3	946.16	3	580.30	3	228.56	3		3		3	
1/4	2,401.96	1/4	2,036.10	1/4	1,670.24	1/4	1,304.39	1/4	938.53	1/4	572.67	1/4	221.69	1/4		1/4		1/4	
1/2	2,394.34	1/2	2,028.48	1/2	1,662.62	1/2	1,296.77	1/2	930.91	1/2	565.05	1/2	214.81	1/2		1/2		1/2	
3/4	2,386.72	3/4	2,020.86	3/4	1,655.00	3/4	1,289.15	3/4	923.29	3/4	557.43	3/4	207.94	3/4		3/4		3/4	
4	2,379.10	4	2,013.24	4	1,647.38	4	1,281.53	4	915.67	4	549.81	4	201.06	4		4		4	
1/4	2,371.47	1/4	2,005.61	1/4	1,639.76	1/4	1,273.90	1/4	908.04	1/4	542.19	1/4	194.19	1/4		1/4		1/4	
1/2	2,363.85	1/2	1,997.99	1/2	1,632.14	1/2	1,266.28	1/2	900.42	1/2	534.57	1/2	187.31	1/2		1/2		1/2	
3/4	2,356.23	3/4	1,990.37	3/4	1,624.52	3/4	1,258.66	3/4	892.80	3/4	526.95	3/4	180.44	3/4		3/4		3/4	
5	2,348.61	5	1,982.75	5	1,616.90	5	1,251.04	5	885.18	5	519.39	5	173.67	5		5		5	
1/4	2,340.98	1/4	1,975.12	1/4	1,609.27	1/4	1,243.41	1/4	877.55	1/4	511.83	1/4	166.89	1/4		1/4		1/4	
1/2	2,333.36	1/2	1,967.50	1/2	1,601.65	1/2	1,235.79	1/2	869.93	1/2	504.27	1/2	160.12	1/2		1/2		1/2	
3/4	2,325.74	3/4	1,959.88	3/4	1,594.03	3/4	1,228.17	3/4	862.31	3/4	496.71	3/4	153.35	3/4		3/4		3/4	
6	2,318.12	6	1,952.26	6	1,586.41	6	1,220.55	6	854.69	6	489.21	6	146.68	6		6		6	
1/4	2,310.49	1/4	1,944.64	1/4	1,578.78	1/4	1,212.92	1/4	847.07	1/4	481.71	1/4	140.02	1/4		1/4		1/4	
1/2	2,302.87	1/2	1,937.02	1/2	1,571.16	1/2	1,205.30	1/2	839.45	1/2	474.21	1/2	133.35	1/2		1/2		1/2	
3/4	2,295.25	3/4	1,929.40	3/4	1,563.54	3/4	1,197.68	3/4	831.83	3/4	466.71	3/4	126.69	3/4		3/4		3/4	
7	2,287.63	7	1,921.78	7	1,555.92	7	1,190.06	7	824.21	7	459.21	7	120.02	7		7		7	
1/4	2,280.00	1/4	1,914.15	1/4	1,548.29	1/4	1,182.44	1/4	816.58	1/4	451.71	1/4	113.35	1/4		1/4		1/4	
1/2	2,272.38	1/2	1,906.53	1/2	1,540.67	1/2	1,174.82	1/2	808.96	1/2	444.21	1/2	106.69	1/2		1/2		1/2	
3/4	2,264.76	3/4	1,898.91	3/4	1,533.05	3/4	1,167.20	3/4	801.34	3/4	436.71	3/4	100.02	3/4		3/4		3/4	
8	2,257.14	8	1,891.29	8	1,525.43	8	1,159.58	8	793.72	8	429.31	8	93.46	8		8		8	
1/4	2,249.52	1/4	1,883.66	1/4	1,517.80	1/4	1,151.95	1/4	786.09	1/4	421.92	1/4	86.89	1/4		1/4		1/4	
1/2	2,241.90	1/2	1,876.04	1/2	1,510.18	1/2	1,144.33	1/2	778.47	1/2	414.52	1/2	80.33	1/2		1/2		1/2	
3/4	2,234.28	3/4	1,868.42	3/4	1,502.56	3/4	1,136.71	3/4	770.85	3/4	407.13	3/4	73.77	3/4		3/4		3/4	
9	2,226.66	9	1,860.80	9	1,494.94	9	1,129.09	9	763.23	9	399.84	9	67.99	9		9		9	
1/4	2,219.03	1/4	1,853.17	1/4	1,487.32	1/4	1,121.46	1/4	755.60	1/4	392.54	1/4	62.22	1/4		1/4		1/4	
1/2	2,211.41	1/2	1,845.55	1/2	1,479.70	1/2	1,113.84	1/2	747.98	1/2	385.25	1/2	56.44	1/2		1/2		1/2	
3/4	2,203.79	3/4	1,837.93	3/4	1,472.08	3/4	1,106.22	3/4	740.36	3/4	377.96	3/4	50.67	3/4		3/4		3/4	
10	2,196.17	10	1,830.31	10	1,464.46	10	1,098.60	10	732.74	10	370.67	10	45.85	10		10		10	
1/4	2,188.54	1/4	1,822.68	1/4	1,456.83	1/4	1,090.97	1/4	725.11	1/4	363.37	1/4	41.04	1/4		1/4		1/4	
1/2	2,180.92	1/2	1,815.06	1/2	1,449.21	1/2	1,083.35	1/2	717.49	1/2	356.08	1/2	36.22	1/2		1/2		1/2	
3/4	2,173.30	3/4	1,807.44	3/4	1,441.59	3/4	1,075.73	3/4	709.87	3/4	348.79	3/4	31.41	3/4		3/4		3/4	
11	2,165.68	11	1,799.82	11	1,433.97	11	1,068.11	11	702.25	11	341.60	11	27.79	11		11		11	
1/4	2,158.05	1/4	1,792.20	1/4	1,426.34	1/4	1,060.48	1/4	694.63	1/4	334.41	1/4	24.17	1/4		1/4		1/4	
1/2	2,150.43	1/2	1,784.58	1/2	1,418.72	1/2	1,052.86	1/2	687.01	1/2	327.23	1/2	20.56	1/2		1/2		1/2	
3/4	2,142.81	3/4	1,776.96	3/4	1,411.10	3/4	1,045.24	3/4	679.39	3/4	320.04	3/4	16.94	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
REPRINTED: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

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



# BARGE "KIRBY 30078"

**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 17'-00"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,069.66	0	4,703.80	0	4,337.95	0	3,972.09	0	3,606.23	0	3,240.38	0	2,874.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,062.04	1/4	4,696.18	1/4	4,330.33	1/4	3,964.47	1/4	3,598.61	1/4	3,232.76	1/4	2,866.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,054.42	1/2	4,688.55	1/2	4,322.70	1/2	3,956.84	1/2	3,590.99	1/2	3,225.13	1/2	2,859.27
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,046.79	3/4	4,680.93	3/4	4,315.08	3/4	3,949.22	3/4	3,583.37	3/4	3,217.51	3/4	2,851.65
1		1		1		1	5,039.17	1	4,673.31	1	4,307.46	1	3,941.60	1	3,575.75	1	3,209.89	1	2,844.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,031.55	1/4	4,665.69	1/4	4,299.84	1/4	3,933.98	1/4	3,568.13	1/4	3,202.27	1/4	2,836.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,023.93	1/2	4,658.07	1/2	4,292.21	1/2	3,926.35	1/2	3,560.50	1/2	3,194.64	1/2	2,828.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,016.30	3/4	4,650.45	3/4	4,284.59	3/4	3,918.73	3/4	3,552.88	3/4	3,187.02	3/4	2,821.17
2		2		2		2	5,008.68	2	4,642.83	2	4,276.97	2	3,911.11	2	3,545.26	2	3,179.40	2	2,813.55
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,001.06	1/4	4,635.21	1/4	4,269.35	1/4	3,903.49	1/4	3,537.64	1/4	3,171.78	1/4	2,805.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,993.44	1/2	4,627.58	1/2	4,261.72	1/2	3,895.87	1/2	3,530.01	1/2	3,164.15	1/2	2,798.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,985.82	3/4	4,619.96	3/4	4,254.10	3/4	3,888.25	3/4	3,522.39	3/4	3,156.53	3/4	2,790.68
3		3		3		3	4,978.20	3	4,612.34	3	4,246.48	3	3,880.63	3	3,514.77	3	3,148.91	3	2,783.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,970.58	1/4	4,604.72	1/4	4,238.86	1/4	3,873.01	1/4	3,507.15	1/4	3,141.29	1/4	2,775.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,962.96	1/2	4,597.09	1/2	4,231.23	1/2	3,865.38	1/2	3,499.52	1/2	3,133.67	1/2	2,767.81
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,955.33	3/4	4,589.47	3/4	4,223.61	3/4	3,857.76	3/4	3,491.90	3/4	3,126.05	3/4	2,760.19
4		4		4		4	4,947.71	4	4,581.85	4	4,215.99	4	3,850.14	4	3,484.28	4	3,118.43	4	2,752.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,940.09	1/4	4,574.23	1/4	4,208.37	1/4	3,842.52	1/4	3,476.66	1/4	3,110.81	1/4	2,744.94
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,932.47	1/2	4,566.60	1/2	4,200.75	1/2	3,834.89	1/2	3,469.03	1/2	3,103.18	1/2	2,737.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,924.84	3/4	4,558.98	3/4	4,193.13	3/4	3,827.27	3/4	3,461.41	3/4	3,095.56	3/4	2,729.69
5		5		5		5	4,917.22	5	4,551.36	5	4,185.51	5	3,819.65	5	3,453.79	5	3,087.94	5	2,722.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,909.60	1/4	4,543.74	1/4	4,177.89	1/4	3,812.03	1/4	3,446.17	1/4	3,080.32	1/4	2,714.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,901.97	1/2	4,536.11	1/2	4,170.26	1/2	3,804.40	1/2	3,438.55	1/2	3,072.69	1/2	2,706.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,894.35	3/4	4,528.49	3/4	4,162.64	3/4	3,796.78	3/4	3,430.93	3/4	3,065.07	3/4	2,699.21
6		6		6	5,168.67	6	4,886.73	6	4,520.87	6	4,155.02	6	3,789.16	6	3,423.31	6	3,057.45	6	2,691.59
1/4	1/4	1/4	1/4	1/4	5,167.81	1/4	4,879.11	1/4	4,513.25	1/4	4,147.40	1/4	3,781.54	1/4	3,415.69	1/4	3,049.83	1/4	2,683.97
1/2	1/2	1/2	1/2	1/2	5,166.95	1/2	4,871.48	1/2	4,505.63	1/2	4,139.77	1/2	3,773.91	1/2	3,408.06	1/2	3,042.20	1/2	2,676.35
3/4	3/4	3/4	3/4	3/4	5,166.08	3/4	4,863.86	3/4	4,498.01	3/4	4,132.15	3/4	3,766.29	3/4	3,400.44	3/4	3,034.58	3/4	2,668.73
7		7		7	5,165.22	7	4,856.24	7	4,490.39	7	4,124.53	7	3,758.67	7	3,392.82	7	3,026.96	7	2,661.11
1/4	1/4	1/4	1/4	1/4	5,163.15	1/4	4,848.62	1/4	4,482.77	1/4	4,116.91	1/4	3,751.05	1/4	3,385.20	1/4	3,019.34	1/4	2,653.49
1/2	1/2	1/2	1/2	1/2	5,161.07	1/2	4,840.99	1/2	4,475.14	1/2	4,109.28	1/2	3,743.43	1/2	3,377.57	1/2	3,011.71	1/2	2,645.86
3/4	3/4	3/4	3/4	3/4	5,159.00	3/4	4,833.37	3/4	4,467.52	3/4	4,101.66	3/4	3,735.81	3/4	3,369.95	3/4	3,004.09	3/4	2,638.24
8		8		8	5,156.92	8	4,825.75	8	4,459.90	8	4,094.04	8	3,728.19	8	3,362.33	8	2,996.47	8	2,630.62
1/4	1/4	1/4	1/4	1/4	5,153.46	1/4	4,818.13	1/4	4,452.28	1/4	4,086.42	1/4	3,720.57	1/4	3,354.71	1/4	2,988.85	1/4	2,623.00
1/2	1/2	1/2	1/2	1/2	5,150.00	1/2	4,810.51	1/2	4,444.65	1/2	4,078.79	1/2	3,712.94	1/2	3,347.08	1/2	2,981.23	1/2	2,615.37
3/4	3/4	3/4	3/4	3/4	5,146.54	3/4	4,802.89	3/4	4,437.03	3/4	4,071.17	3/4	3,705.32	3/4	3,339.46	3/4	2,973.61	3/4	2,607.75
9		9		9	5,143.08	9	4,795.27	9	4,429.41	9	4,063.55	9	3,697.70	9	3,331.84	9	2,965.99	9	2,600.13
1/4	1/4	1/4	1/4	1/4	5,138.24	1/4	4,787.65	1/4	4,421.79	1/4	4,055.93	1/4	3,690.08	1/4	3,324.22	1/4	2,958.37	1/4	2,592.51
1/2	1/2	1/2	1/2	1/2	5,133.39	1/2	4,780.02	1/2	4,414.16	1/2	4,048.31	1/2	3,682.45	1/2	3,316.59	1/2	2,950.74	1/2	2,584.88
3/4	3/4	3/4	3/4	3/4	5,128.55	3/4	4,772.40	3/4	4,406.54	3/4	4,040.69	3/4	3,674.83	3/4	3,308.97	3/4	2,943.12	3/4	2,577.26
10		10		10	5,123.70	10	4,764.78	10	4,398.92	10	4,033.07	10	3,667.21	10	3,301.35	10	2,935.50	10	2,569.64
1/4	1/4	1/4	1/4	1/4	5,117.47	1/4	4,757.16	1/4	4,391.30	1/4	4,025.45	1/4	3,659.59	1/4	3,293.73	1/4	2,927.88	1/4	2,562.02
1/2	1/2	1/2	1/2	1/2	5,111.23	1/2	4,749.53	1/2	4,383.67	1/2	4,017.82	1/2	3,651.96	1/2	3,286.11	1/2	2,920.25	1/2	2,554.39
3/4	3/4	3/4	3/4	3/4	5,105.00	3/4	4,741.91	3/4	4,376.05	3/4	4,010.20	3/4	3,644.34	3/4	3,278.49	3/4	2,912.63	3/4	2,546.77
11		11		11	5,098.76	11	4,734.29	11	4,368.43	11	4,002.58	11	3,636.72	11	3,270.87	11	2,905.01	11	2,539.15
1/4	1/4	1/4	1/4	1/4	5,091.49	1/4	4,726.67	1/4	4,360.81	1/4	3,994.96	1/4	3,629.10	1/4	3,263.25	1/4	2,897.39	1/4	2,531.53
1/2	1/2	1/2	1/2	1/2	5,084.21	1/2	4,719.04	1/2	4,353.19	1/2	3,987.33	1/2	3,621.47	1/2	3,255.62	1/2	2,889.76	1/2	2,523.91
3/4	3/4	3/4	3/4	3/4	5,076.94	3/4	4,711.42	3/4	4,345.57	3/4	3,979.71	3/4	3,613.85	3/4	3,248.00	3/4	2,882.14	3/4	2,516.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 44'-00" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 30078"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 17'-00"

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	2,508.67	0	2,142.81	0	1,776.96	0	1,411.10	0	1,045.24	0	679.39	0	320.04	0	16.94	0		0	
1/4	2,501.05	1/4	2,135.19	1/4	1,769.34	1/4	1,403.48	1/4	1,037.62	1/4	671.77	1/4	312.95	1/4		1/4		1/4	
1/2	2,493.42	1/2	2,127.56	1/2	1,761.71	1/2	1,395.85	1/2	1,030.00	1/2	664.14	1/2	305.87	1/2		1/2		1/2	
3/4	2,485.80	3/4	2,119.94	3/4	1,754.09	3/4	1,388.23	3/4	1,022.38	3/4	656.52	3/4	298.78	3/4		3/4		3/4	
1	2,478.18	1	2,112.32	1	1,746.47	1	1,380.61	1	1,014.76	1	648.90	1	291.70	1		1		1	
1/4	2,470.56	1/4	2,104.70	1/4	1,738.85	1/4	1,372.99	1/4	1,007.14	1/4	641.28	1/4	284.61	1/4		1/4		1/4	
1/2	2,462.93	1/2	2,097.08	1/2	1,731.22	1/2	1,365.36	1/2	999.51	1/2	633.65	1/2	277.53	1/2		1/2		1/2	
3/4	2,455.31	3/4	2,089.46	3/4	1,723.60	3/4	1,357.74	3/4	991.89	3/4	626.03	3/4	270.44	3/4		3/4		3/4	
2	2,447.69	2	2,081.84	2	1,715.98	2	1,350.12	2	984.27	2	618.41	2	263.36	2		2		2	
1/4	2,440.07	1/4	2,074.22	1/4	1,708.36	1/4	1,342.50	1/4	976.65	1/4	610.79	1/4	256.38	1/4		1/4		1/4	
1/2	2,432.44	1/2	2,066.59	1/2	1,700.73	1/2	1,334.88	1/2	969.02	1/2	603.16	1/2	249.40	1/2		1/2		1/2	
3/4	2,424.82	3/4	2,058.97	3/4	1,693.11	3/4	1,327.26	3/4	961.40	3/4	595.54	3/4	242.42	3/4		3/4		3/4	
3	2,417.20	3	2,051.35	3	1,685.49	3	1,319.64	3	953.78	3	587.92	3	235.44	3		3		3	
1/4	2,409.58	1/4	2,043.73	1/4	1,677.87	1/4	1,312.02	1/4	946.16	1/4	580.30	1/4	228.56	1/4		1/4		1/4	
1/2	2,401.96	1/2	2,036.10	1/2	1,670.24	1/2	1,304.39	1/2	938.53	1/2	572.67	1/2	221.69	1/2		1/2		1/2	
3/4	2,394.34	3/4	2,028.48	3/4	1,662.62	3/4	1,296.77	3/4	930.91	3/4	565.05	3/4	214.81	3/4		3/4		3/4	
4	2,386.72	4	2,020.86	4	1,655.00	4	1,289.15	4	923.29	4	557.43	4	207.94	4		4		4	
1/4	2,379.10	1/4	2,013.24	1/4	1,647.38	1/4	1,281.53	1/4	915.67	1/4	549.81	1/4	201.06	1/4		1/4		1/4	
1/2	2,371.47	1/2	2,005.61	1/2	1,639.76	1/2	1,273.90	1/2	908.04	1/2	542.19	1/2	194.19	1/2		1/2		1/2	
3/4	2,363.85	3/4	1,997.99	3/4	1,632.14	3/4	1,266.28	3/4	900.42	3/4	534.57	3/4	187.31	3/4		3/4		3/4	
5	2,356.23	5	1,990.37	5	1,624.52	5	1,258.66	5	892.80	5	526.95	5	180.44	5		5		5	
1/4	2,348.61	1/4	1,982.75	1/4	1,616.90	1/4	1,251.04	1/4	885.18	1/4	519.39	1/4	173.67	1/4		1/4		1/4	
1/2	2,340.98	1/2	1,975.12	1/2	1,609.27	1/2	1,243.41	1/2	877.55	1/2	511.83	1/2	166.89	1/2		1/2		1/2	
3/4	2,333.36	3/4	1,967.50	3/4	1,601.65	3/4	1,235.79	3/4	869.93	3/4	504.27	3/4	160.12	3/4		3/4		3/4	
6	2,325.74	6	1,959.88	6	1,594.03	6	1,228.17	6	862.31	6	496.71	6	153.35	6		6		6	
1/4	2,318.12	1/4	1,952.26	1/4	1,586.41	1/4	1,220.55	1/4	854.69	1/4	489.21	1/4	146.68	1/4		1/4		1/4	
1/2	2,310.49	1/2	1,944.64	1/2	1,578.78	1/2	1,212.92	1/2	847.07	1/2	481.71	1/2	140.02	1/2		1/2		1/2	
3/4	2,302.87	3/4	1,937.02	3/4	1,571.16	3/4	1,205.30	3/4	839.45	3/4	474.21	3/4	133.35	3/4		3/4		3/4	
7	2,295.25	7	1,929.40	7	1,563.54	7	1,197.68	7	831.83	7	466.71	7	126.69	7		7		7	
1/4	2,287.63	1/4	1,921.78	1/4	1,555.92	1/4	1,190.06	1/4	824.21	1/4	459.21	1/4	120.02	1/4		1/4		1/4	
1/2	2,280.00	1/2	1,914.15	1/2	1,548.29	1/2	1,182.44	1/2	816.58	1/2	451.71	1/2	113.35	1/2		1/2		1/2	
3/4	2,272.38	3/4	1,906.53	3/4	1,540.67	3/4	1,174.82	3/4	808.96	3/4	444.21	3/4	106.69	3/4		3/4		3/4	
8	2,264.76	8	1,898.91	8	1,533.05	8	1,167.20	8	801.34	8	436.71	8	100.02	8		8		8	
1/4	2,257.14	1/4	1,891.29	1/4	1,525.43	1/4	1,159.58	1/4	793.72	1/4	429.31	1/4	93.46	1/4		1/4		1/4	
1/2	2,249.52	1/2	1,883.66	1/2	1,517.80	1/2	1,151.95	1/2	786.09	1/2	421.92	1/2	86.89	1/2		1/2		1/2	
3/4	2,241.90	3/4	1,876.04	3/4	1,510.18	3/4	1,144.33	3/4	778.47	3/4	414.52	3/4	80.33	3/4		3/4		3/4	
9	2,234.28	9	1,868.42	9	1,502.56	9	1,136.71	9	770.85	9	407.13	9	73.77	9		9		9	
1/4	2,226.66	1/4	1,860.80	1/4	1,494.94	1/4	1,129.09	1/4	763.23	1/4	399.84	1/4	67.99	1/4		1/4		1/4	
1/2	2,219.03	1/2	1,853.17	1/2	1,487.32	1/2	1,121.46	1/2	755.60	1/2	392.54	1/2	62.22	1/2		1/2		1/2	
3/4	2,211.41	3/4	1,845.55	3/4	1,479.70	3/4	1,113.84	3/4	747.98	3/4	385.25	3/4	56.44	3/4		3/4		3/4	
10	2,203.79	10	1,837.93	10	1,472.08	10	1,106.22	10	740.36	10	377.96	10	50.67	10		10		10	
1/4	2,196.17	1/4	1,830.31	1/4	1,464.46	1/4	1,098.60	1/4	732.74	1/4	370.67	1/4	45.85	1/4		1/4		1/4	
1/2	2,188.54	1/2	1,822.68	1/2	1,456.83	1/2	1,090.97	1/2	725.11	1/2	363.37	1/2	41.04	1/2		1/2		1/2	
3/4	2,180.92	3/4	1,815.06	3/4	1,449.21	3/4	1,083.35	3/4	717.49	3/4	356.08	3/4	36.22	3/4		3/4		3/4	
11	2,173.30	11	1,807.44	11	1,441.59	11	1,075.73	11	709.87	11	348.79	11	31.41	11		11		11	
1/4	2,165.68	1/4	1,799.82	1/4	1,433.97	1/4	1,068.11	1/4	702.25	1/4	341.60	1/4	27.79	1/4		1/4		1/4	
1/2	2,158.05	1/2	1,792.20	1/2	1,426.34	1/2	1,060.48	1/2	694.63	1/2	334.41	1/2	24.17	1/2		1/2		1/2	
3/4	2,150.43	3/4	1,784.58	3/4	1,418.72	3/4	1,052.86	3/4	687.01	3/4	327.23	3/4	20.56	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
REPRINTED: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

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



# BARGE "KIRBY 30078"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,800.47	0	4,456.45	0	4,112.43	0	3,768.42	0	3,424.40	0	3,080.39	0	2,736.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,793.30	1/4	4,449.29	1/4	4,105.27	1/4	3,761.26	1/4	3,417.24	1/4	3,073.22	1/4	2,729.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,786.14	1/2	4,442.12	1/2	4,098.10	1/2	3,754.09	1/2	3,410.07	1/2	3,066.06	1/2	2,722.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,778.97	3/4	4,434.95	3/4	4,090.93	3/4	3,746.92	3/4	3,402.90	3/4	3,058.89	3/4	2,714.87		
1		1		1		1	4,771.80	1	4,427.78	1	4,083.77	1	3,739.75	1	3,395.73	1	3,051.72	1	2,707.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.64	1/4	4,420.62	1/4	4,076.60	1/4	3,732.59	1/4	3,388.57	1/4	3,044.56	1/4	2,700.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,757.47	1/2	4,413.45	1/2	4,069.44	1/2	3,725.42	1/2	3,381.40	1/2	3,037.39	1/2	2,693.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,750.30	3/4	4,406.28	3/4	4,062.27	3/4	3,718.25	3/4	3,374.23	3/4	3,030.22	3/4	2,686.20		
2		2		2		2	4,743.13	2	4,399.11	2	4,055.10	2	3,711.08	2	3,367.07	2	3,023.05	2	2,679.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,735.97	1/4	4,391.95	1/4	4,047.94	1/4	3,703.92	1/4	3,359.90	1/4	3,015.89	1/4	2,671.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,728.80	1/2	4,384.78	1/2	4,040.77	1/2	3,696.75	1/2	3,352.74	1/2	3,008.72	1/2	2,664.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,721.63	3/4	4,377.61	3/4	4,033.60	3/4	3,689.58	3/4	3,345.57	3/4	3,001.55	3/4	2,657.53		
3		3		3		3	4,714.46	3	4,370.45	3	4,026.43	3	3,682.41	3	3,338.40	3	2,994.38	3	2,650.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,707.30	1/4	4,363.28	1/4	4,019.27	1/4	3,675.25	1/4	3,331.24	1/4	2,987.22	1/4	2,643.20		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,700.13	1/2	4,356.12	1/2	4,012.10	1/2	3,668.08	1/2	3,324.07	1/2	2,980.05	1/2	2,636.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,692.96	3/4	4,348.95	3/4	4,004.93	3/4	3,660.91	3/4	3,316.90	3/4	2,972.88	3/4	2,628.87		
4		4		4		4	4,685.79	4	4,341.78	4	3,997.76	4	3,653.75	4	3,309.73	4	2,965.71	4	2,621.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,678.63	1/4	4,334.62	1/4	3,990.60	1/4	3,646.58	1/4	3,302.57	1/4	2,958.55	1/4	2,614.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,671.46	1/2	4,327.45	1/2	3,983.43	1/2	3,639.42	1/2	3,295.40	1/2	2,951.38	1/2	2,607.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,664.29	3/4	4,320.28	3/4	3,976.26	3/4	3,632.25	3/4	3,288.23	3/4	2,944.21	3/4	2,600.20		
5		5		5		5	4,657.13	5	4,313.11	5	3,969.09	5	3,625.08	5	3,281.06	5	2,937.05	5	2,593.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,649.96	1/4	4,305.95	1/4	3,961.93	1/4	3,617.92	1/4	3,273.90	1/4	2,929.88	1/4	2,585.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,642.80	1/2	4,298.78	1/2	3,954.76	1/2	3,610.75	1/2	3,266.73	1/2	2,922.72	1/2	2,578.70		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,900.69	3/4	4,635.63	3/4	4,291.61	3/4	3,947.59	3/4	3,603.58	3/4	3,259.56	3/4	2,915.55	3/4	2,571.53
6		6		6		6	4,899.89	6	4,628.46	6	4,284.44	6	3,940.43	6	3,596.41	6	3,252.39	6	2,908.38	6	2,564.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,899.08	1/4	4,621.30	1/4	4,277.28	1/4	3,933.26	1/4	3,589.25	1/4	3,245.23	1/4	2,901.22	1/4	2,557.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,898.28	1/2	4,614.13	1/2	4,270.11	1/2	3,926.10	1/2	3,582.08	1/2	3,238.06	1/2	2,894.05	1/2	2,550.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,897.47	3/4	4,606.96	3/4	4,262.94	3/4	3,918.93	3/4	3,574.91	3/4	3,230.89	3/4	2,886.88	3/4	2,542.86
7		7		7		7	4,895.52	7	4,599.79	7	4,255.77	7	3,911.76	7	3,567.74	7	3,223.73	7	2,879.71	7	2,535.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,893.58	1/4	4,592.63	1/4	4,248.61	1/4	3,904.60	1/4	3,560.58	1/4	3,216.56	1/4	2,872.55	1/4	2,528.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,891.63	1/2	4,585.46	1/2	4,241.44	1/2	3,897.43	1/2	3,553.41	1/2	3,209.40	1/2	2,865.38	1/2	2,521.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,889.68	3/4	4,578.29	3/4	4,234.27	3/4	3,890.26	3/4	3,546.24	3/4	3,202.23	3/4	2,858.21	3/4	2,514.19
8		8		8		8	4,886.43	8	4,571.12	8	4,227.11	8	3,883.09	8	3,539.07	8	3,195.06	8	2,851.04	8	2,507.03
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,883.18	1/4	4,563.96	1/4	4,219.94	1/4	3,875.93	1/4	3,531.91	1/4	3,187.90	1/4	2,843.88	1/4	2,499.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,879.92	1/2	4,556.79	1/2	4,212.78	1/2	3,868.76	1/2	3,524.74	1/2	3,180.73	1/2	2,836.71	1/2	2,492.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,876.67	3/4	4,549.62	3/4	4,205.61	3/4	3,861.59	3/4	3,517.57	3/4	3,173.56	3/4	2,829.54	3/4	2,485.53
9		9		9		9	4,872.12	9	4,542.45	9	4,198.44	9	3,854.42	9	3,510.41	9	3,166.39	9	2,822.37	9	2,478.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,869.56	1/4	4,535.29	1/4	4,191.28	1/4	3,847.26	1/4	3,503.24	1/4	3,159.23	1/4	2,815.21	1/4	2,471.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,863.01	1/2	4,528.12	1/2	4,184.11	1/2	3,840.09	1/2	3,496.08	1/2	3,152.06	1/2	2,808.04	1/2	2,464.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,858.45	3/4	4,520.95	3/4	4,176.94	3/4	3,832.92	3/4	3,488.91	3/4	3,144.89	3/4	2,800.87	3/4	2,456.86
10		10		10		10	4,852.59	10	4,513.79	10	4,169.77	10	3,825.75	10	3,481.74	10	3,137.72	10	2,793.71	10	2,449.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,846.73	1/4	4,506.62	1/4	4,162.61	1/4	3,818.59	1/4	3,474.58	1/4	3,130.56	1/4	2,786.54	1/4	2,442.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,840.86	1/2	4,499.46	1/2	4,155.44	1/2	3,811.42	1/2	3,467.41	1/2	3,123.39	1/2	2,779.38	1/2	2,435.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,835.00	3/4	4,492.29	3/4	4,148.27	3/4	3,804.25	3/4	3,460.24	3/4	3,116.22	3/4	2,772.21	3/4	2,428.19
11		11		11		11	4,828.16	11	4,485.12	11	4,141.10	11	3,797.09	11	3,453.07	11	3,109.05	11	2,765.04	11	2,421.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,821.32	1/4	4,477.96	1/4	4,133.94	1/4	3,789.92	1/4	3,445.91	1/4	3,101.89	1/4	2,757.88	1/4	2,413.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,814.47	1/2	4,470.79	1/2	4,126.77	1/2	3,782.76	1/2	3,438.74	1/2	3,094.72	1/2	2,750.71	1/2	2,406.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,807.63	3/4	4,463.62	3/4	4,119.60	3/4	3,775.59	3/4	3,431.57	3/4	3,087.55	3/4	2,743.54	3/4	2,399.52

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 30078"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,392.35	0	2,048.34	0	1,704.32	0	1,360.31	0	1,016.88	0	674.01	0	329.99	0	≡	0		0	
1/4	2,385.19	1/4	2,041.18	1/4	1,697.16	1/4	1,353.14	1/4	1,009.75	1/4	666.85	1/4	322.83	1/4		1/4		1/4	
1/2	2,378.02	1/2	2,034.01	1/2	1,689.99	1/2	1,345.98	1/2	1,002.61	1/2	659.68	1/2	315.66	1/2		1/2		1/2	
3/4	2,370.85	3/4	2,026.84	3/4	1,682.82	3/4	1,338.81	3/4	995.47	3/4	652.51	3/4	308.49	3/4		3/4		3/4	
1	2,363.69	1	2,019.67	1	1,675.65	1	1,331.64	1	988.34	1	645.34	1	301.33	1		1		1	
1/4	2,356.52	1/4	2,012.51	1/4	1,668.49	1/4	1,324.48	1/4	981.20	1/4	638.18	1/4	294.16	1/4		1/4		1/4	
1/2	2,349.36	1/2	2,005.34	1/2	1,661.32	1/2	1,317.31	1/2	974.07	1/2	631.01	1/2	287.00	1/2		1/2		1/2	
3/4	2,342.19	3/4	1,998.17	3/4	1,654.15	3/4	1,310.14	3/4	966.93	3/4	623.84	3/4	279.83	3/4		3/4		3/4	
2	2,335.02	2	1,991.00	2	1,646.99	2	1,302.97	2	959.79	2	616.67	2	272.66	2		2		2	
1/4	2,327.86	1/4	1,983.84	1/4	1,639.82	1/4	1,295.81	1/4	952.66	1/4	609.51	1/4	265.50	1/4		1/4		1/4	
1/2	2,320.69	1/2	1,976.67	1/2	1,632.66	1/2	1,288.64	1/2	945.52	1/2	602.34	1/2	258.33	1/2		1/2		1/2	
3/4	2,313.52	3/4	1,969.50	3/4	1,625.49	3/4	1,281.47	3/4	938.38	3/4	595.17	3/4	251.16	3/4		3/4		3/4	
3	2,306.35	3	1,962.33	3	1,618.32	3	1,274.30	3	931.25	3	588.01	3	243.99	3		3		3	
1/4	2,299.19	1/4	1,955.17	1/4	1,611.16	1/4	1,267.14	1/4	924.11	1/4	580.84	1/4	236.83	1/4		1/4		1/4	
1/2	2,292.02	1/2	1,948.00	1/2	1,603.99	1/2	1,259.97	1/2	916.98	1/2	573.68	1/2	229.66	1/2		1/2		1/2	
3/4	2,284.85	3/4	1,940.83	3/4	1,596.82	3/4	1,252.80	3/4	909.84	3/4	566.51	3/4	222.49	3/4		3/4		3/4	
4	2,277.68	4	1,933.67	4	1,589.65	4	1,245.63	4	902.71	4	559.34	4	215.32	4		4		4	
1/4	2,270.52	1/4	1,926.50	1/4	1,582.49	1/4	1,238.47	1/4	895.57	1/4	552.18	1/4	208.16	1/4		1/4		1/4	
1/2	2,263.35	1/2	1,919.34	1/2	1,575.32	1/2	1,231.30	1/2	888.44	1/2	545.01	1/2	200.99	1/2		1/2		1/2	
3/4	2,256.18	3/4	1,912.17	3/4	1,568.15	3/4	1,224.13	3/4	881.30	3/4	537.84	3/4	193.82	3/4		3/4		3/4	
5	2,249.01	5	1,905.00	5	1,560.98	5	1,216.97	5	874.16	5	530.67	5	186.65	5		5		5	
1/4	2,241.85	1/4	1,897.84	1/4	1,553.82	1/4	1,209.80	1/4	867.03	1/4	523.51	1/4	179.49	1/4		1/4		1/4	
1/2	2,234.68	1/2	1,890.67	1/2	1,546.65	1/2	1,202.64	1/2	859.89	1/2	516.34	1/2	172.32	1/2		1/2		1/2	
3/4	2,227.51	3/4	1,883.50	3/4	1,539.48	3/4	1,195.47	3/4	852.75	3/4	509.17	3/4	165.15	3/4		3/4		3/4	
6	2,220.35	6	1,876.33	6	1,532.31	6	1,188.30	6	845.62	6	502.00	6	157.99	6		6		6	
1/4	2,213.18	1/4	1,869.17	1/4	1,525.15	1/4	1,181.14	1/4	838.48	1/4	494.84	1/4	150.82	1/4		1/4		1/4	
1/2	2,206.02	1/2	1,862.00	1/2	1,517.98	1/2	1,173.97	1/2	831.35	1/2	487.67	1/2	143.66	1/2		1/2		1/2	
3/4	2,198.85	3/4	1,854.83	3/4	1,510.81	3/4	1,166.80	3/4	824.21	3/4	480.50	3/4	136.49	3/4		3/4		3/4	
7	2,191.68	7	1,847.66	7	1,503.65	7	1,159.65	7	817.07	7	473.33	7	129.32	7		7		7	
1/4	2,184.52	1/4	1,840.50	1/4	1,496.48	1/4	1,152.50	1/4	809.94	1/4	466.17	1/4	122.16	1/4		1/4		1/4	
1/2	2,177.35	1/2	1,833.33	1/2	1,489.32	1/2	1,145.34	1/2	802.80	1/2	459.00	1/2	114.99	1/2		1/2		1/2	
3/4	2,170.18	3/4	1,826.16	3/4	1,482.15	3/4	1,138.19	3/4	795.66	3/4	451.83	3/4	107.82	3/4		3/4		3/4	
8	2,163.01	8	1,818.99	8	1,474.98	8	1,131.06	8	788.53	8	444.67	8	100.65	8		8		8	
1/4	2,155.85	1/4	1,811.83	1/4	1,467.82	1/4	1,123.92	1/4	781.39	1/4	437.50	1/4	93.49	1/4		1/4		1/4	
1/2	2,148.68	1/2	1,804.66	1/2	1,460.65	1/2	1,116.79	1/2	774.26	1/2	430.34	1/2	86.32	1/2		1/2		1/2	
3/4	2,141.51	3/4	1,797.49	3/4	1,453.48	3/4	1,109.65	3/4	767.12	3/4	423.17	3/4	79.15	3/4		3/4		3/4	
9	2,134.34	9	1,790.33	9	1,446.31	9	1,102.51	9	759.97	9	416.00	9	72.80	9		9		9	
1/4	2,127.18	1/4	1,783.16	1/4	1,439.15	1/4	1,095.38	1/4	752.82	1/4	408.84	1/4	66.45	1/4		1/4		1/4	
1/2	2,120.01	1/2	1,776.00	1/2	1,431.98	1/2	1,088.24	1/2	745.66	1/2	401.67	1/2	60.09	1/2		1/2		1/2	
3/4	2,112.84	3/4	1,768.83	3/4	1,424.81	3/4	1,081.10	3/4	738.51	3/4	394.50	3/4	53.74	3/4		3/4		3/4	
10	2,105.67	10	1,761.66	10	1,417.64	10	1,073.97	10	731.35	10	387.33	10	48.28	10		10		10	
1/4	2,098.51	1/4	1,754.50	1/4	1,410.48	1/4	1,066.83	1/4	724.18	1/4	380.17	1/4	42.83	1/4		1/4		1/4	
1/2	2,091.34	1/2	1,747.33	1/2	1,403.31	1/2	1,059.70	1/2	717.02	1/2	373.00	1/2	37.37	1/2		1/2		1/2	
3/4	2,084.17	3/4	1,740.16	3/4	1,396.14	3/4	1,052.56	3/4	709.85	3/4	365.83	3/4	31.91	3/4		3/4		3/4	
11	2,077.01	11	1,732.99	11	1,388.97	11	1,045.43	11	702.68	11	358.66	11	28.26	11		11		11	
1/4	2,069.84	1/4	1,725.83	1/4	1,381.81	1/4	1,038.29	1/4	695.52	1/4	351.50	1/4	24.60	1/4		1/4		1/4	
1/2	2,062.68	1/2	1,718.66	1/2	1,374.64	1/2	1,031.16	1/2	688.35	1/2	344.33	1/2	20.95	1/2		1/2		1/2	
3/4	2,055.51	3/4	1,711.49	3/4	1,367.47	3/4	1,024.02	3/4	681.18	3/4	337.16	3/4	17.29	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
REPRINTED: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>





# BARGE "KIRBY 30078"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	4,793.30	0	4,449.29	0	4,105.27	0	3,761.26	0	3,417.24	0	3,073.22	0	2,729.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,786.14	1/4	4,442.12	1/4	4,098.10	1/4	3,754.09	1/4	3,410.07	1/4	3,066.06	1/4	2,722.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,778.97	1/2	4,434.95	1/2	4,090.93	1/2	3,746.92	1/2	3,402.90	1/2	3,058.89	1/2	2,714.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,771.80	3/4	4,427.78	3/4	4,083.77	3/4	3,739.75	3/4	3,395.73	3/4	3,051.72	3/4	2,707.70		
1		1		1		1	4,764.64	1	4,420.62	1	4,076.60	1	3,732.59	1	3,388.57	1	3,045.56	1	2,700.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,757.47	1/4	4,413.45	1/4	4,069.44	1/4	3,725.42	1/4	3,381.40	1/4	3,037.39	1/4	2,693.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,750.30	1/2	4,406.28	1/2	4,062.27	1/2	3,718.25	1/2	3,374.23	1/2	3,030.22	1/2	2,686.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,743.13	3/4	4,399.11	3/4	4,055.10	3/4	3,711.08	3/4	3,367.07	3/4	3,023.05	3/4	2,679.03		
2		2		2		2	4,735.97	2	4,391.95	2	4,047.94	2	3,703.92	2	3,359.90	2	3,015.89	2	2,671.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,728.80	1/4	4,384.78	1/4	4,040.77	1/4	3,696.75	1/4	3,352.74	1/4	3,008.72	1/4	2,664.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.63	1/2	4,377.61	1/2	4,033.60	1/2	3,689.58	1/2	3,345.57	1/2	3,001.55	1/2	2,657.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.46	3/4	4,370.45	3/4	4,026.43	3/4	3,682.41	3/4	3,338.40	3/4	2,994.38	3/4	2,650.37		
3		3		3		3	4,707.30	3	4,363.28	3	4,019.27	3	3,675.25	3	3,331.24	3	2,987.22	3	2,643.20		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,700.13	1/4	4,356.12	1/4	4,012.10	1/4	3,668.08	1/4	3,324.07	1/4	2,980.05	1/4	2,636.04		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,692.96	1/2	4,348.95	1/2	4,004.93	1/2	3,660.91	1/2	3,316.90	1/2	2,972.88	1/2	2,628.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.79	3/4	4,341.78	3/4	3,997.76	3/4	3,653.75	3/4	3,309.73	3/4	2,965.71	3/4	2,621.70		
4		4		4		4	4,678.63	4	4,334.62	4	3,990.60	4	3,646.58	4	3,302.57	4	2,958.55	4	2,614.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.46	1/4	4,327.45	1/4	3,983.43	1/4	3,639.42	1/4	3,295.40	1/4	2,951.38	1/4	2,607.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.29	1/2	4,320.28	1/2	3,976.26	1/2	3,632.25	1/2	3,288.23	1/2	2,944.21	1/2	2,600.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,657.13	3/4	4,313.11	3/4	3,969.09	3/4	3,625.08	3/4	3,281.06	3/4	2,937.05	3/4	2,593.03		
5		5		5		5	4,649.96	5	4,305.95	5	3,961.93	5	3,617.92	5	3,273.90	5	2,929.88	5	2,585.87		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,642.80	1/4	4,298.78	1/4	3,954.76	1/4	3,610.75	1/4	3,266.73	1/4	2,922.72	1/4	2,578.70		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,900.69	1/2	4,635.63	1/2	4,291.61	1/2	3,947.59	1/2	3,603.58	1/2	3,259.56	1/2	2,915.55	1/2	2,571.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.89	3/4	4,628.46	3/4	4,284.44	3/4	3,940.43	3/4	3,596.41	3/4	3,252.39	3/4	2,908.38	3/4	2,564.36
6		6		6		6	4,899.08	6	4,621.30	6	4,277.28	6	3,933.26	6	3,589.25	6	3,245.23	6	2,901.22	6	2,557.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,898.28	1/4	4,614.13	1/4	4,270.11	1/4	3,926.10	1/4	3,582.08	1/4	3,238.06	1/4	2,894.05	1/4	2,550.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,897.47	1/2	4,606.96	1/2	4,262.94	1/2	3,918.93	1/2	3,574.91	1/2	3,230.89	1/2	2,886.88	1/2	2,542.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,895.52	3/4	4,599.79	3/4	4,255.77	3/4	3,911.76	3/4	3,567.74	3/4	3,223.73	3/4	2,879.71	3/4	2,535.69
7		7		7		7	4,893.58	7	4,592.63	7	4,248.61	7	3,904.60	7	3,560.58	7	3,216.56	7	2,872.55	7	2,528.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,891.63	1/4	4,585.46	1/4	4,241.44	1/4	3,897.43	1/4	3,553.41	1/4	3,209.40	1/4	2,865.38	1/4	2,521.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,889.68	1/2	4,578.29	1/2	4,234.27	1/2	3,890.26	1/2	3,546.24	1/2	3,202.23	1/2	2,858.21	1/2	2,514.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,886.43	3/4	4,571.12	3/4	4,227.11	3/4	3,883.09	3/4	3,539.07	3/4	3,195.06	3/4	2,851.04	3/4	2,507.03
8		8		8		8	4,883.18	8	4,563.96	8	4,219.94	8	3,875.93	8	3,531.91	8	3,187.90	8	2,843.88	8	2,499.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,879.92	1/4	4,556.79	1/4	4,212.78	1/4	3,868.76	1/4	3,524.74	1/4	3,180.73	1/4	2,836.71	1/4	2,492.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,876.67	1/2	4,549.62	1/2	4,205.61	1/2	3,861.59	1/2	3,517.57	1/2	3,173.56	1/2	2,829.54	1/2	2,485.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,872.12	3/4	4,542.45	3/4	4,198.44	3/4	3,854.42	3/4	3,510.41	3/4	3,166.39	3/4	2,822.37	3/4	2,478.36
9		9		9		9	4,867.56	9	4,535.29	9	4,191.28	9	3,847.26	9	3,503.24	9	3,159.23	9	2,815.21	9	2,471.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,863.01	1/4	4,528.12	1/4	4,184.11	1/4	3,840.09	1/4	3,496.08	1/4	3,152.06	1/4	2,808.04	1/4	2,464.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,858.45	1/2	4,520.95	1/2	4,176.94	1/2	3,832.92	1/2	3,488.91	1/2	3,144.89	1/2	2,800.87	1/2	2,456.86
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,852.59	3/4	4,513.79	3/4	4,169.77	3/4	3,825.75	3/4	3,481.74	3/4	3,137.72	3/4	2,793.71	3/4	2,449.69
10		10		10		10	4,846.73	10	4,506.62	10	4,162.61	10	3,818.59	10	3,474.58	10	3,130.56	10	2,786.54	10	2,442.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.86	1/4	4,499.46	1/4	4,155.44	1/4	3,811.42	1/4	3,467.41	1/4	3,123.39	1/4	2,779.38	1/4	2,435.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,835.00	1/2	4,492.29	1/2	4,148.27	1/2	3,804.25	1/2	3,460.24	1/2	3,116.22	1/2	2,772.21	1/2	2,428.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,828.16	3/4	4,485.12	3/4	4,141.10	3/4	3,797.09	3/4	3,453.07	3/4	3,109.05	3/4	2,765.04	3/4	2,421.02
11		11		11		11	4,821.32	11	4,477.96	11	4,133.94	11	3,789.92	11	3,445.91	11	3,101.89	11	2,757.88	11	2,413.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,814.47	1/4	4,470.79	1/4	4,126.77	1/4	3,782.76	1/4	3,438.74	1/4	3,094.72	1/4	2,750.71	1/4	2,406.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,807.63	1/2	4,463.62	1/2	4,119.60	1/2	3,775.59	1/2	3,431.57	1/2	3,087.55	1/2	2,743.54	1/2	2,399.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,800.47	3/4	4,456.45	3/4	4,112.43	3/4	3,768.42	3/4	3,424.40	3/4	3,080.39	3/4	2,736.37	3/4	2,392.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD

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





# BARGE "KIRBY 30078"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,385.19	0	2,041.18	0	1,697.16	0	1,353.14	0	1,009.75	0	666.85	0	322.83	0		0		0	
1/4	2,378.02	1/4	2,034.01	1/4	1,689.99	1/4	1,345.98	1/4	1,002.61	1/4	659.68	1/4	315.66	1/4	1/4		1/4		1/4
1/2	2,370.85	1/2	2,026.84	1/2	1,682.82	1/2	1,338.81	1/2	995.47	1/2	652.51	1/2	308.49	1/2	1/2		1/2		1/2
3/4	2,363.69	3/4	2,019.67	3/4	1,675.65	3/4	1,331.64	3/4	988.34	3/4	645.34	3/4	301.33	3/4	3/4		3/4		3/4
1	2,356.52	1	2,012.51	1	1,668.49	1	1,324.48	1	981.20	1	638.18	1	294.16	1	1		1		1
1/4	2,349.36	1/4	2,005.34	1/4	1,661.32	1/4	1,317.31	1/4	974.07	1/4	631.01	1/4	287.00	1/4	1/4		1/4		1/4
1/2	2,342.19	1/2	1,998.17	1/2	1,654.15	1/2	1,310.14	1/2	966.93	1/2	623.84	1/2	279.83	1/2	1/2		1/2		1/2
3/4	2,335.02	3/4	1,991.00	3/4	1,646.99	3/4	1,302.97	3/4	959.79	3/4	616.67	3/4	272.66	3/4	3/4		3/4		3/4
2	2,327.86	2	1,983.84	2	1,639.82	2	1,295.81	2	952.66	2	609.51	2	265.50	2	2		2		2
1/4	2,320.69	1/4	1,976.67	1/4	1,632.66	1/4	1,288.64	1/4	945.52	1/4	602.34	1/4	258.33	1/4	1/4		1/4		1/4
1/2	2,313.52	1/2	1,969.50	1/2	1,625.49	1/2	1,281.47	1/2	938.38	1/2	595.17	1/2	251.16	1/2	1/2		1/2		1/2
3/4	2,306.35	3/4	1,962.33	3/4	1,618.32	3/4	1,274.30	3/4	931.25	3/4	588.01	3/4	243.99	3/4	3/4		3/4		3/4
3	2,299.19	3	1,955.17	3	1,611.16	3	1,267.14	3	924.11	3	580.84	3	236.83	3	3		3		3
1/4	2,292.02	1/4	1,948.00	1/4	1,603.99	1/4	1,259.97	1/4	916.98	1/4	573.68	1/4	229.66	1/4	1/4		1/4		1/4
1/2	2,284.85	1/2	1,940.83	1/2	1,596.82	1/2	1,252.80	1/2	909.84	1/2	566.51	1/2	222.49	1/2	1/2		1/2		1/2
3/4	2,277.68	3/4	1,933.67	3/4	1,589.65	3/4	1,245.63	3/4	902.71	3/4	559.34	3/4	215.32	3/4	3/4		3/4		3/4
4	2,270.52	4	1,926.50	4	1,582.49	4	1,238.47	4	895.57	4	552.18	4	208.16	4	4		4		4
1/4	2,263.35	1/4	1,919.34	1/4	1,575.32	1/4	1,231.30	1/4	888.44	1/4	545.01	1/4	200.99	1/4	1/4		1/4		1/4
1/2	2,256.18	1/2	1,912.17	1/2	1,568.15	1/2	1,224.13	1/2	881.30	1/2	537.84	1/2	193.82	1/2	1/2		1/2		1/2
3/4	2,249.01	3/4	1,905.00	3/4	1,560.98	3/4	1,216.97	3/4	874.16	3/4	530.67	3/4	186.65	3/4	3/4		3/4		3/4
5	2,241.85	5	1,897.84	5	1,553.82	5	1,209.80	5	867.03	5	523.51	5	179.49	5	5		5		5
1/4	2,234.68	1/4	1,890.67	1/4	1,546.65	1/4	1,202.64	1/4	859.89	1/4	516.34	1/4	172.32	1/4	1/4		1/4		1/4
1/2	2,227.51	1/2	1,883.50	1/2	1,539.48	1/2	1,195.47	1/2	852.75	1/2	509.17	1/2	165.15	1/2	1/2		1/2		1/2
3/4	2,220.35	3/4	1,876.33	3/4	1,532.31	3/4	1,188.30	3/4	845.62	3/4	502.00	3/4	157.99	3/4	3/4		3/4		3/4
6	2,213.18	6	1,869.17	6	1,525.15	6	1,181.14	6	838.48	6	494.84	6	150.82	6	6		6		6
1/4	2,206.02	1/4	1,862.00	1/4	1,517.98	1/4	1,173.97	1/4	831.35	1/4	487.67	1/4	143.66	1/4	1/4		1/4		1/4
1/2	2,198.85	1/2	1,854.83	1/2	1,510.81	1/2	1,166.80	1/2	824.21	1/2	480.50	1/2	136.49	1/2	1/2		1/2		1/2
3/4	2,191.68	3/4	1,847.66	3/4	1,503.65	3/4	1,159.65	3/4	817.07	3/4	473.33	3/4	129.32	3/4	3/4		3/4		3/4
7	2,184.52	7	1,840.50	7	1,496.48	7	1,152.50	7	809.94	7	466.17	7	122.16	7	7		7		7
1/4	2,177.35	1/4	1,833.33	1/4	1,489.32	1/4	1,145.34	1/4	802.80	1/4	459.00	1/4	114.99	1/4	1/4		1/4		1/4
1/2	2,170.18	1/2	1,826.16	1/2	1,482.15	1/2	1,138.19	1/2	795.66	1/2	451.83	1/2	107.82	1/2	1/2		1/2		1/2
3/4	2,163.01	3/4	1,818.99	3/4	1,474.98	3/4	1,131.06	3/4	788.53	3/4	444.67	3/4	100.65	3/4	3/4		3/4		3/4
8	2,155.85	8	1,811.83	8	1,467.82	8	1,123.92	8	781.39	8	437.50	8	93.49	8	8		8		8
1/4	2,148.68	1/4	1,804.66	1/4	1,460.65	1/4	1,116.79	1/4	774.26	1/4	430.34	1/4	86.32	1/4	1/4		1/4		1/4
1/2	2,141.51	1/2	1,797.49	1/2	1,453.48	1/2	1,109.65	1/2	767.12	1/2	423.17	1/2	79.15	1/2	1/2		1/2		1/2
3/4	2,134.34	3/4	1,790.33	3/4	1,446.31	3/4	1,102.51	3/4	759.97	3/4	416.00	3/4	72.80	3/4	3/4		3/4		3/4
9	2,127.18	9	1,783.16	9	1,439.15	9	1,095.38	9	752.82	9	408.84	9	66.45	9	9		9		9
1/4	2,120.01	1/4	1,776.00	1/4	1,431.98	1/4	1,088.24	1/4	745.66	1/4	401.67	1/4	60.09	1/4	1/4		1/4		1/4
1/2	2,112.84	1/2	1,768.83	1/2	1,424.81	1/2	1,081.10	1/2	738.51	1/2	394.50	1/2	53.74	1/2	1/2		1/2		1/2
3/4	2,105.67	3/4	1,761.66	3/4	1,417.64	3/4	1,073.97	3/4	731.35	3/4	387.33	3/4	48.28	3/4	3/4		3/4		3/4
10	2,098.51	10	1,754.50	10	1,410.48	10	1,066.83	10	724.18	10	380.17	10	42.83	10	10		10		10
1/4	2,091.34	1/4	1,747.33	1/4	1,403.31	1/4	1,059.70	1/4	717.02	1/4	373.00	1/4	37.37	1/4	1/4		1/4		1/4
1/2	2,084.17	1/2	1,740.16	1/2	1,396.14	1/2	1,052.56	1/2	709.85	1/2	365.83	1/2	31.91	1/2	1/2		1/2		1/2
3/4	2,077.01	3/4	1,732.99	3/4	1,388.97	3/4	1,045.43	3/4	702.68	3/4	358.66	3/4	28.26	3/4	3/4		3/4		3/4
11	2,069.84	11	1,725.83	11	1,381.81	11	1,038.29	11	695.52	11	351.50	11	24.60	11	11		11		11
1/4	2,062.68	1/4	1,718.66	1/4	1,374.64	1/4	1,031.16	1/4	688.35	1/4	344.33	1/4	20.95	1/4	1/4		1/4		1/4
1/2	2,055.51	1/2	1,711.49	1/2	1,367.47	1/2	1,024.02	1/2	681.18	1/2	337.16	1/2	17.29	1/2	1/2		1/2		1/2
3/4	2,048.34	3/4	1,704.32	3/4	1,360.31	3/4	1,016.88	3/4	674.01	3/4	329.99	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
REPRINTED: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

PRECISION MEASUREMENT  
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# BARGE "KIRBY 30078"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 17'-00"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,541.15	0	4,302.45	0	4,063.75	0	3,825.04	0	3,586.34	0	3,262.09	0	2,898.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,536.18	1/4	4,297.48	1/4	4,058.78	1/4	3,820.07	1/4	3,581.37	1/4	3,254.52	1/4	2,891.26
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,531.21	1/2	4,292.51	1/2	4,053.80	1/2	3,815.10	1/2	3,576.40	1/2	3,246.96	1/2	2,883.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,526.23	3/4	4,287.53	3/4	4,048.83	3/4	3,810.12	3/4	3,571.42	3/4	3,239.39	3/4	2,876.13
1		1		1		1	4,521.26	1	4,282.56	1	4,043.85	1	3,805.15	1	3,566.45	1	3,231.82	1	2,868.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,516.29	1/4	4,277.59	1/4	4,038.88	1/4	3,800.18	1/4	3,561.19	1/4	3,224.25	1/4	2,860.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,511.32	1/2	4,272.62	1/2	4,033.91	1/2	3,795.21	1/2	3,555.93	1/2	3,216.69	1/2	2,853.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,506.34	3/4	4,267.64	3/4	4,028.93	3/4	3,790.23	3/4	3,550.67	3/4	3,209.12	3/4	2,845.86
2		2		2		2	4,501.37	2	4,262.67	2	4,023.96	2	3,785.26	2	3,545.41	2	3,201.55	2	2,838.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,496.40	1/4	4,257.70	1/4	4,018.99	1/4	3,780.29	1/4	3,539.74	1/4	3,193.98	1/4	2,830.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,491.43	1/2	4,252.72	1/2	4,014.02	1/2	3,775.32	1/2	3,534.06	1/2	3,186.42	1/2	2,823.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,486.45	3/4	4,247.75	3/4	4,009.04	3/4	3,770.34	3/4	3,528.39	3/4	3,178.85	3/4	2,815.58
3		3		3		3	4,481.48	3	4,242.77	3	4,004.07	3	3,765.37	3	3,522.71	3	3,171.28	3	2,808.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,476.51	1/4	4,237.80	1/4	3,999.10	1/4	3,760.40	1/4	3,516.56	1/4	3,163.71	1/4	2,800.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,471.54	1/2	4,232.83	1/2	3,994.13	1/2	3,755.42	1/2	3,510.42	1/2	3,156.15	1/2	2,792.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,466.56	3/4	4,227.85	3/4	3,989.15	3/4	3,750.45	3/4	3,504.27	3/4	3,148.58	3/4	2,785.31
4		4		4		4	4,461.59	4	4,222.88	4	3,984.18	4	3,745.47	4	3,498.12	4	3,141.01	4	2,777.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,456.62	1/4	4,217.91	1/4	3,979.21	1/4	3,740.50	1/4	3,491.50	1/4	3,133.44	1/4	2,770.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,451.64	1/2	4,212.94	1/2	3,974.24	1/2	3,735.53	1/2	3,484.88	1/2	3,125.87	1/2	2,762.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,446.67	3/4	4,207.96	3/4	3,969.26	3/4	3,730.55	3/4	3,478.25	3/4	3,118.30	3/4	2,755.04
5		5		5		5	4,441.69	5	4,202.99	5	3,964.29	5	3,725.58	5	3,471.63	5	3,110.73	5	2,747.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,436.72	1/4	4,198.02	1/4	3,959.32	1/4	3,720.61	1/4	3,464.54	1/4	3,103.16	1/4	2,739.90
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,431.75	1/2	4,193.05	1/2	3,954.34	1/2	3,715.64	1/2	3,457.44	1/2	3,095.60	1/2	2,732.34
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,426.77	3/4	4,188.07	3/4	3,949.37	3/4	3,710.66	3/4	3,450.35	3/4	3,088.03	3/4	2,724.77
6		6	4,605.71	6	4,421.80	6	4,183.10	6	3,944.39	6	3,705.69	6	3,443.25	6	3,080.46	6	2,717.20		
1/4	1/4	1/4	4,605.15	1/4	4,416.83	1/4	4,178.13	1/4	3,939.42	1/4	3,700.72	1/4	3,435.80	1/4	3,072.89	1/4	2,709.63		
1/2	1/2	1/2	4,604.60	1/2	4,411.86	1/2	4,173.16	1/2	3,934.45	1/2	3,695.75	1/2	3,428.35	1/2	3,065.33	1/2	2,702.07		
3/4	3/4	3/4	4,604.04	3/4	4,406.88	3/4	4,168.18	3/4	3,929.47	3/4	3,690.77	3/4	3,420.90	3/4	3,057.76	3/4	2,694.50		
7		7	4,603.48	7	4,401.91	7	4,163.21	7	3,924.50	7	3,685.80	7	3,413.45	7	3,050.19	7	2,686.93		
1/4	1/4	1/4	4,602.13	1/4	4,396.94	1/4	4,158.24	1/4	3,919.53	1/4	3,680.83	1/4	3,405.88	1/4	3,042.62	1/4	2,679.36		
1/2	1/2	1/2	4,600.78	1/2	4,391.97	1/2	4,153.26	1/2	3,914.56	1/2	3,675.86	1/2	3,398.32	1/2	3,035.06	1/2	2,671.79		
3/4	3/4	3/4	4,599.43	3/4	4,386.99	3/4	4,148.29	3/4	3,909.58	3/4	3,670.88	3/4	3,390.75	3/4	3,027.49	3/4	2,664.22		
8		8	4,598.08	8	4,382.02	8	4,143.31	8	3,904.61	8	3,665.91	8	3,383.18	8	3,019.92	8	2,656.65		
1/4	1/4	1/4	4,595.83	1/4	4,377.05	1/4	4,138.34	1/4	3,899.64	1/4	3,660.94	1/4	3,375.61	1/4	3,012.35	1/4	2,649.08		
1/2	1/2	1/2	4,593.57	1/2	4,372.08	1/2	4,133.37	1/2	3,894.67	1/2	3,655.96	1/2	3,368.05	1/2	3,004.79	1/2	2,641.52		
3/4	3/4	3/4	4,591.32	3/4	4,367.10	3/4	4,128.39	3/4	3,889.69	3/4	3,650.99	3/4	3,360.48	3/4	2,997.22	3/4	2,633.95		
9		9	4,589.06	9	4,362.13	9	4,123.42	9	3,884.72	9	3,646.01	9	3,352.91	9	2,989.65	9	2,626.38		
1/4	1/4	1/4	4,585.90	1/4	4,357.16	1/4	4,118.45	1/4	3,879.75	1/4	3,641.04	1/4	3,345.34	1/4	2,982.08	1/4	2,618.81		
1/2	1/2	1/2	4,582.74	1/2	4,352.18	1/2	4,113.48	1/2	3,874.78	1/2	3,636.07	1/2	3,337.78	1/2	2,974.51	1/2	2,611.25		
3/4	3/4	3/4	4,579.57	3/4	4,347.21	3/4	4,108.50	3/4	3,869.80	3/4	3,631.09	3/4	3,330.21	3/4	2,966.94	3/4	2,603.68		
10		10	4,576.41	10	4,342.23	10	4,103.53	10	3,864.83	10	3,626.12	10	3,322.64	10	2,959.37	10	2,596.11		
1/4	1/4	1/4	4,572.34	1/4	4,337.26	1/4	4,098.56	1/4	3,859.86	1/4	3,621.15	1/4	3,315.07	1/4	2,951.80	1/4	2,588.54		
1/2	1/2	1/2	4,568.28	1/2	4,332.29	1/2	4,093.59	1/2	3,854.88	1/2	3,616.18	1/2	3,307.51	1/2	2,944.24	1/2	2,580.98		
3/4	3/4	3/4	4,564.21	3/4	4,327.31	3/4	4,088.61	3/4	3,849.91	3/4	3,611.20	3/4	3,299.94	3/4	2,936.67	3/4	2,573.41		
11		11	4,560.14	11	4,322.34	11	4,083.64	11	3,844.93	11	3,606.23	11	3,292.37	11	2,929.10	11	2,565.84		
1/4	1/4	1/4	4,555.39	1/4	4,317.37	1/4	4,078.67	1/4	3,839.96	1/4	3,601.26	1/4	3,284.80	1/4	2,921.53	1/4	2,558.27		
1/2	1/2	1/2	4,550.65	1/2	4,312.40	1/2	4,073.70	1/2	3,834.99	1/2	3,596.29	1/2	3,277.23	1/2	2,913.97	1/2	2,550.71		
3/4	3/4	3/4	4,545.90	3/4	4,307.42	3/4	4,068.72	3/4	3,830.01	3/4	3,591.31	3/4	3,269.66	3/4	2,906.40	3/4	2,543.14		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 43'-11" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 30078"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 17-00"

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	2,535.57	0	2,172.30	0	1,809.04	0	1,445.77	0	1,082.51	0	719.25	0	355.98	0	18.24	0		0	
1/4	2,528.00	1/4	2,164.73	1/4	1,801.47	1/4	1,438.20	1/4	1,074.94	1/4	711.68	1/4	348.41	1/4		1/4		1/4	
1/2	2,520.43	1/2	2,157.16	1/2	1,793.90	1/2	1,430.63	1/2	1,067.37	1/2	704.11	1/2	340.84	1/2		1/2		1/2	
3/4	2,512.86	3/4	2,149.60	3/4	1,786.34	3/4	1,423.07	3/4	1,059.81	3/4	696.54	3/4	333.28	3/4		3/4		3/4	
1	2,505.29	1	2,142.03	1	1,778.77	1	1,415.50	1	1,052.24	1	688.97	1	325.71	1		1		1	
1/4	2,497.72	1/4	2,134.46	1/4	1,771.20	1/4	1,407.93	1/4	1,044.67	1/4	681.40	1/4	318.14	1/4		1/4		1/4	
1/2	2,490.16	1/2	2,126.89	1/2	1,763.63	1/2	1,400.36	1/2	1,037.10	1/2	673.83	1/2	310.57	1/2		1/2		1/2	
3/4	2,482.59	3/4	2,119.33	3/4	1,756.06	3/4	1,392.80	3/4	1,029.54	3/4	666.27	3/4	303.01	3/4		3/4		3/4	
2	2,475.02	2	2,111.76	2	1,748.49	2	1,385.23	2	1,021.97	2	658.70	2	295.44	2		2		2	
1/4	2,467.45	1/4	2,104.19	1/4	1,740.92	1/4	1,377.66	1/4	1,014.40	1/4	651.13	1/4	287.87	1/4		1/4		1/4	
1/2	2,459.89	1/2	2,096.62	1/2	1,733.35	1/2	1,370.09	1/2	1,006.83	1/2	643.56	1/2	280.30	1/2		1/2		1/2	
3/4	2,452.32	3/4	2,089.06	3/4	1,725.79	3/4	1,362.53	3/4	999.26	3/4	636.00	3/4	272.74	3/4		3/4		3/4	
3	2,444.75	3	2,081.49	3	1,718.22	3	1,354.96	3	991.69	3	628.43	3	265.17	3		3		3	
1/4	2,437.18	1/4	2,073.92	1/4	1,710.65	1/4	1,347.39	1/4	984.12	1/4	620.86	1/4	257.60	1/4		1/4		1/4	
1/2	2,429.62	1/2	2,066.35	1/2	1,703.08	1/2	1,339.82	1/2	976.55	1/2	613.29	1/2	250.03	1/2		1/2		1/2	
3/4	2,422.05	3/4	2,058.78	3/4	1,695.52	3/4	1,332.26	3/4	968.99	3/4	605.73	3/4	242.46	3/4		3/4		3/4	
4	2,414.48	4	2,051.21	4	1,687.95	4	1,324.69	4	961.42	4	598.16	4	234.89	4		4		4	
1/4	2,406.91	1/4	2,043.64	1/4	1,680.38	1/4	1,317.12	1/4	953.85	1/4	590.59	1/4	227.32	1/4		1/4		1/4	
1/2	2,399.35	1/2	2,036.07	1/2	1,672.81	1/2	1,309.55	1/2	946.28	1/2	583.02	1/2	219.75	1/2		1/2		1/2	
3/4	2,391.78	3/4	2,028.51	3/4	1,665.25	3/4	1,301.98	3/4	938.72	3/4	575.46	3/4	212.19	3/4		3/4		3/4	
5	2,384.21	5	2,020.94	5	1,657.68	5	1,294.41	5	931.15	5	567.89	5	204.62	5		5		5	
1/4	2,376.64	1/4	2,013.37	1/4	1,650.11	1/4	1,286.84	1/4	923.58	1/4	560.32	1/4	197.05	1/4		1/4		1/4	
1/2	2,369.07	1/2	2,005.80	1/2	1,642.54	1/2	1,279.27	1/2	916.01	1/2	552.75	1/2	189.48	1/2		1/2		1/2	
3/4	2,361.50	3/4	1,998.24	3/4	1,634.98	3/4	1,271.71	3/4	908.45	3/4	545.18	3/4	181.92	3/4		3/4		3/4	
6	2,353.93	6	1,990.67	6	1,627.41	6	1,264.14	6	900.88	6	537.61	6	174.35	6		6		6	
1/4	2,346.36	1/4	1,983.10	1/4	1,619.84	1/4	1,256.57	1/4	893.31	1/4	530.04	1/4	166.78	1/4		1/4		1/4	
1/2	2,338.80	1/2	1,975.53	1/2	1,612.27	1/2	1,249.00	1/2	885.74	1/2	522.47	1/2	159.21	1/2		1/2		1/2	
3/4	2,331.23	3/4	1,967.97	3/4	1,604.70	3/4	1,241.44	3/4	878.18	3/4	514.91	3/4	151.65	3/4		3/4		3/4	
7	2,323.66	7	1,960.40	7	1,597.13	7	1,233.87	7	870.61	7	507.34	7	144.08	7		7		7	
1/4	2,316.09	1/4	1,952.83	1/4	1,589.56	1/4	1,226.30	1/4	863.04	1/4	499.77	1/4	136.51	1/4		1/4		1/4	
1/2	2,308.53	1/2	1,945.26	1/2	1,581.99	1/2	1,218.73	1/2	855.47	1/2	492.20	1/2	128.94	1/2		1/2		1/2	
3/4	2,300.96	3/4	1,937.70	3/4	1,574.43	3/4	1,211.17	3/4	847.90	3/4	484.64	3/4	121.38	3/4		3/4		3/4	
8	2,293.39	8	1,930.13	8	1,566.86	8	1,203.60	8	840.33	8	477.07	8	113.81	8		8		8	
1/4	2,285.82	1/4	1,922.56	1/4	1,559.29	1/4	1,196.03	1/4	832.76	1/4	469.50	1/4	106.24	1/4		1/4		1/4	
1/2	2,278.26	1/2	1,914.99	1/2	1,551.72	1/2	1,188.46	1/2	825.19	1/2	461.93	1/2	98.67	1/2		1/2		1/2	
3/4	2,270.69	3/4	1,907.42	3/4	1,544.16	3/4	1,180.90	3/4	817.63	3/4	454.37	3/4	91.10	3/4		3/4		3/4	
9	2,263.12	9	1,899.85	9	1,536.59	9	1,173.33	9	810.06	9	446.80	9	83.53	9		9		9	
1/4	2,255.55	1/4	1,892.28	1/4	1,529.02	1/4	1,165.76	1/4	802.49	1/4	439.23	1/4	76.82	1/4		1/4		1/4	
1/2	2,247.99	1/2	1,884.71	1/2	1,521.45	1/2	1,158.19	1/2	794.92	1/2	431.66	1/2	70.12	1/2		1/2		1/2	
3/4	2,240.42	3/4	1,877.15	3/4	1,513.89	3/4	1,150.62	3/4	787.36	3/4	424.10	3/4	63.41	3/4		3/4		3/4	
10	2,232.85	10	1,869.58	10	1,506.32	10	1,143.05	10	779.79	10	416.53	10	56.71	10		10		10	
1/4	2,225.28	1/4	1,862.01	1/4	1,498.75	1/4	1,135.48	1/4	772.22	1/4	408.96	1/4	51.21	1/4		1/4		1/4	
1/2	2,217.71	1/2	1,854.44	1/2	1,491.18	1/2	1,127.91	1/2	764.65	1/2	401.39	1/2	45.71	1/2		1/2		1/2	
3/4	2,210.14	3/4	1,846.88	3/4	1,483.62	3/4	1,120.35	3/4	757.09	3/4	393.82	3/4	40.21	3/4		3/4		3/4	
11	2,202.57	11	1,839.31	11	1,476.05	11	1,112.78	11	749.52	11	386.25	11	34.71	11		11		11	
1/4	2,195.00	1/4	1,831.74	1/4	1,468.48	1/4	1,105.21	1/4	741.95	1/4	378.68	1/4	30.59	1/4		1/4		1/4	
1/2	2,187.44	1/2	1,824.17	1/2	1,460.91	1/2	1,097.64	1/2	734.38	1/2	371.11	1/2	26.47	1/2		1/2		1/2	
3/4	2,179.87	3/4	1,816.61	3/4	1,453.34	3/4	1,090.08	3/4	726.82	3/4	363.55	3/4	22.36	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
NAME CHANGE: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

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



# BARGE "KIRBY 30078"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,531.21	0	4,292.51	0	4,053.80	0	3,815.10	0	3,576.40	0	3,246.96	0	2,883.70
1/4		1/4		1/4		1/4	4,526.23	1/4	4,287.53	1/4	4,048.83	1/4	3,810.12	1/4	3,571.42	1/4	3,239.39	1/4	2,876.13
1/2		1/2		1/2		1/2	4,521.26	1/2	4,282.56	1/2	4,043.85	1/2	3,805.15	1/2	3,566.45	1/2	3,231.82	1/2	2,868.56
3/4		3/4		3/4		3/4	4,516.29	3/4	4,277.59	3/4	4,038.88	3/4	3,800.18	3/4	3,561.19	3/4	3,224.25	3/4	2,860.99
1		1		1		1	4,511.32	1	4,272.62	1	4,033.91	1	3,795.21	1	3,555.93	1	3,216.69	1	2,853.43
1/4		1/4		1/4		1/4	4,506.34	1/4	4,267.64	1/4	4,028.93	1/4	3,790.23	1/4	3,550.67	1/4	3,209.12	1/4	2,845.86
1/2		1/2		1/2		1/2	4,501.37	1/2	4,262.67	1/2	4,023.96	1/2	3,785.26	1/2	3,545.41	1/2	3,201.55	1/2	2,838.29
3/4		3/4		3/4		3/4	4,496.40	3/4	4,257.70	3/4	4,018.99	3/4	3,780.29	3/4	3,539.74	3/4	3,193.98	3/4	2,830.72
2		2		2		2	4,491.43	2	4,252.72	2	4,014.02	2	3,775.32	2	3,534.06	2	3,186.42	2	2,823.15
1/4		1/4		1/4		1/4	4,486.45	1/4	4,247.75	1/4	4,009.04	1/4	3,770.34	1/4	3,528.39	1/4	3,178.85	1/4	2,815.58
1/2		1/2		1/2		1/2	4,481.48	1/2	4,242.77	1/2	4,004.07	1/2	3,765.37	1/2	3,522.71	1/2	3,171.28	1/2	2,808.01
3/4		3/4		3/4		3/4	4,476.51	3/4	4,237.80	3/4	3,999.10	3/4	3,760.40	3/4	3,516.56	3/4	3,163.71	3/4	2,800.44
3		3		3		3	4,471.54	3	4,232.83	3	3,994.13	3	3,755.42	3	3,510.42	3	3,156.15	3	2,792.88
1/4		1/4		1/4		1/4	4,466.56	1/4	4,227.85	1/4	3,989.15	1/4	3,750.45	1/4	3,504.27	1/4	3,148.58	1/4	2,785.31
1/2		1/2		1/2		1/2	4,461.59	1/2	4,222.88	1/2	3,984.18	1/2	3,745.47	1/2	3,498.12	1/2	3,141.01	1/2	2,777.74
3/4		3/4		3/4		3/4	4,456.62	3/4	4,217.91	3/4	3,979.21	3/4	3,740.50	3/4	3,491.50	3/4	3,133.44	3/4	2,770.17
4		4		4		4	4,451.64	4	4,212.94	4	3,974.24	4	3,735.53	4	3,484.88	4	3,125.87	4	2,762.61
1/4		1/4		1/4		1/4	4,446.67	1/4	4,207.96	1/4	3,969.26	1/4	3,730.55	1/4	3,478.25	1/4	3,118.30	1/4	2,755.04
1/2		1/2		1/2		1/2	4,441.69	1/2	4,202.99	1/2	3,964.29	1/2	3,725.58	1/2	3,471.63	1/2	3,110.73	1/2	2,747.47
3/4		3/4		3/4		3/4	4,436.72	3/4	4,198.02	3/4	3,959.32	3/4	3,720.61	3/4	3,464.54	3/4	3,103.16	3/4	2,739.90
5		5		5		5	4,431.75	5	4,193.05	5	3,954.34	5	3,715.64	5	3,457.44	5	3,095.60	5	2,732.34
1/4		1/4		1/4		1/4	4,426.77	1/4	4,188.07	1/4	3,949.37	1/4	3,710.66	1/4	3,450.35	1/4	3,088.03	1/4	2,724.77
1/2		1/2		1/2	4,605.71	1/2	4,421.80	1/2	4,183.10	1/2	3,944.39	1/2	3,705.69	1/2	3,443.25	1/2	3,080.46	1/2	2,717.20
3/4		3/4		3/4	4,605.15	3/4	4,416.83	3/4	4,178.13	3/4	3,939.42	3/4	3,700.72	3/4	3,435.80	3/4	3,072.89	3/4	2,709.63
6		6		6	4,604.60	6	4,411.86	6	4,173.16	6	3,934.45	6	3,695.75	6	3,428.35	6	3,065.33	6	2,702.07
1/4		1/4		1/4	4,604.04	1/4	4,406.88	1/4	4,168.18	1/4	3,929.47	1/4	3,690.77	1/4	3,420.90	1/4	3,057.76	1/4	2,694.50
1/2		1/2		1/2	4,603.48	1/2	4,401.91	1/2	4,163.21	1/2	3,924.50	1/2	3,685.80	1/2	3,413.45	1/2	3,050.19	1/2	2,686.93
3/4		3/4		3/4	4,602.13	3/4	4,396.94	3/4	4,158.24	3/4	3,919.53	3/4	3,680.83	3/4	3,405.88	3/4	3,042.62	3/4	2,679.36
7		7		7	4,600.78	7	4,391.97	7	4,153.26	7	3,914.56	7	3,675.86	7	3,398.32	7	3,035.06	7	2,671.79
1/4		1/4		1/4	4,599.43	1/4	4,386.99	1/4	4,148.29	1/4	3,909.58	1/4	3,670.88	1/4	3,390.75	1/4	3,027.49	1/4	2,664.22
1/2		1/2		1/2	4,598.08	1/2	4,382.02	1/2	4,143.31	1/2	3,904.61	1/2	3,665.91	1/2	3,383.18	1/2	3,019.92	1/2	2,656.65
3/4		3/4		3/4	4,595.83	3/4	4,377.05	3/4	4,138.34	3/4	3,899.64	3/4	3,660.94	3/4	3,375.61	3/4	3,012.35	3/4	2,649.08
8		8		8	4,593.57	8	4,372.08	8	4,133.37	8	3,894.67	8	3,655.96	8	3,368.05	8	3,004.79	8	2,641.52
1/4		1/4		1/4	4,591.32	1/4	4,367.10	1/4	4,128.39	1/4	3,889.69	1/4	3,650.99	1/4	3,360.48	1/4	2,997.22	1/4	2,633.95
1/2		1/2		1/2	4,589.06	1/2	4,362.13	1/2	4,123.42	1/2	3,884.72	1/2	3,646.01	1/2	3,352.91	1/2	2,989.65	1/2	2,626.38
3/4		3/4		3/4	4,585.90	3/4	4,357.16	3/4	4,118.45	3/4	3,879.75	3/4	3,641.04	3/4	3,345.34	3/4	2,982.08	3/4	2,618.81
9		9		9	4,582.74	9	4,352.18	9	4,113.48	9	3,874.78	9	3,636.07	9	3,337.78	9	2,974.51	9	2,611.25
1/4		1/4		1/4	4,579.57	1/4	4,347.21	1/4	4,108.50	1/4	3,869.80	1/4	3,631.09	1/4	3,330.21	1/4	2,966.94	1/4	2,603.68
1/2		1/2		1/2	4,576.41	1/2	4,342.23	1/2	4,103.53	1/2	3,864.83	1/2	3,626.12	1/2	3,322.64	1/2	2,959.37	1/2	2,596.11
3/4		3/4		3/4	4,572.34	3/4	4,337.26	3/4	4,098.56	3/4	3,859.86	3/4	3,621.15	3/4	3,315.07	3/4	2,951.80	3/4	2,588.54
10		10		10	4,568.28	10	4,332.29	10	4,093.59	10	3,854.88	10	3,616.18	10	3,307.51	10	2,944.24	10	2,580.98
1/4		1/4		1/4	4,564.21	1/4	4,327.31	1/4	4,088.61	1/4	3,849.91	1/4	3,611.20	1/4	3,299.94	1/4	2,936.67	1/4	2,573.41
1/2		1/2		1/2	4,560.14	1/2	4,322.34	1/2	4,083.64	1/2	3,844.93	1/2	3,606.23	1/2	3,292.37	1/2	2,929.10	1/2	2,565.84
3/4		3/4		3/4	4,555.39	3/4	4,317.37	3/4	4,078.67	3/4	3,839.96	3/4	3,601.26	3/4	3,284.80	3/4	2,921.53	3/4	2,558.27
11		11		11	4,550.65	11	4,312.40	11	4,073.70	11	3,834.99	11	3,596.29	11	3,277.23	11	2,913.97	11	2,550.71
1/4		1/4		1/4	4,545.90	1/4	4,307.42	1/4	4,068.72	1/4	3,830.01	1/4	3,591.31	1/4	3,269.66	1/4	2,906.40	1/4	2,543.14
1/2		1/2		1/2	4,541.15	1/2	4,302.45	1/2	4,063.75	1/2	3,825.04	1/2	3,586.34	1/2	3,262.09	1/2	2,898.83	1/2	2,535.57
3/4		3/4		3/4	4,536.18	3/4	4,297.48	3/4	4,058.78	3/4	3,820.07	3/4	3,581.37	3/4	3,254.52	3/4	2,891.26	3/4	2,528.00

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-00" OFF CENTERLINE AND 43'-11" FORWARD OF AFT BULKHEAD

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



# BARGE "KIRBY 30078"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "WTC 3009"

GAUGE HEIGHT 16-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,520.43	0	2,157.16	0	1,793.90	0	1,430.63	0	1,067.37	0	704.11	0	340.84	0		0		0	
1/4	2,512.86	1/4	2,149.60	1/4	1,786.34	1/4	1,423.07	1/4	1,059.81	1/4	696.54	1/4	333.28	1/4	1/4	1/4		1/4	1/4
1/2	2,505.29	1/2	2,142.03	1/2	1,778.77	1/2	1,415.50	1/2	1,052.24	1/2	688.97	1/2	325.71	1/2	1/2	1/2		1/2	1/2
3/4	2,497.72	3/4	2,134.46	3/4	1,771.20	3/4	1,407.93	3/4	1,044.67	3/4	681.40	3/4	318.14	3/4	3/4	3/4		3/4	3/4
1	2,490.16	1	2,126.89	1	1,763.63	1	1,400.36	1	1,037.10	1	673.83	1	310.57	1	1	1		1	1
1/4	2,482.59	1/4	2,119.33	1/4	1,756.06	1/4	1,392.80	1/4	1,029.54	1/4	666.27	1/4	303.01	1/4	1/4	1/4		1/4	1/4
1/2	2,475.02	1/2	2,111.76	1/2	1,748.49	1/2	1,385.23	1/2	1,021.97	1/2	658.70	1/2	295.44	1/2	1/2	1/2		1/2	1/2
3/4	2,467.45	3/4	2,104.19	3/4	1,740.92	3/4	1,377.66	3/4	1,014.40	3/4	651.13	3/4	287.87	3/4	3/4	3/4		3/4	3/4
2	2,459.89	2	2,096.62	2	1,733.35	2	1,370.09	2	1,006.83	2	643.56	2	280.30	2	2	2		2	2
1/4	2,452.32	1/4	2,089.06	1/4	1,725.79	1/4	1,362.53	1/4	999.26	1/4	636.00	1/4	272.74	1/4	1/4	1/4		1/4	1/4
1/2	2,444.75	1/2	2,081.49	1/2	1,718.22	1/2	1,354.96	1/2	991.69	1/2	628.43	1/2	265.17	1/2	1/2	1/2		1/2	1/2
3/4	2,437.18	3/4	2,073.92	3/4	1,710.65	3/4	1,347.39	3/4	984.12	3/4	620.86	3/4	257.60	3/4	3/4	3/4		3/4	3/4
3	2,429.62	3	2,066.35	3	1,703.08	3	1,339.82	3	976.55	3	613.29	3	250.03	3	3	3		3	3
1/4	2,422.05	1/4	2,058.78	1/4	1,695.52	1/4	1,332.26	1/4	968.99	1/4	605.73	1/4	242.46	1/4	1/4	1/4		1/4	1/4
1/2	2,414.48	1/2	2,051.21	1/2	1,687.95	1/2	1,324.69	1/2	961.42	1/2	598.16	1/2	234.89	1/2	1/2	1/2		1/2	1/2
3/4	2,406.91	3/4	2,043.64	3/4	1,680.38	3/4	1,317.12	3/4	953.85	3/4	590.59	3/4	227.32	3/4	3/4	3/4		3/4	3/4
4	2,399.35	4	2,036.07	4	1,672.81	4	1,309.55	4	946.28	4	583.02	4	219.75	4	4	4		4	4
1/4	2,391.78	1/4	2,028.51	1/4	1,665.25	1/4	1,301.98	1/4	938.72	1/4	575.46	1/4	212.19	1/4	1/4	1/4		1/4	1/4
1/2	2,384.21	1/2	2,020.94	1/2	1,657.68	1/2	1,294.41	1/2	931.15	1/2	567.89	1/2	204.62	1/2	1/2	1/2		1/2	1/2
3/4	2,376.64	3/4	2,013.37	3/4	1,650.11	3/4	1,286.84	3/4	923.58	3/4	560.32	3/4	197.05	3/4	3/4	3/4		3/4	3/4
5	2,369.07	5	2,005.80	5	1,642.54	5	1,279.27	5	916.01	5	552.75	5	189.48	5	5	5		5	5
1/4	2,361.50	1/4	1,998.24	1/4	1,634.98	1/4	1,271.71	1/4	908.45	1/4	545.18	1/4	181.92	1/4	1/4	1/4		1/4	1/4
1/2	2,353.93	1/2	1,990.67	1/2	1,627.41	1/2	1,264.14	1/2	900.88	1/2	537.61	1/2	174.35	1/2	1/2	1/2		1/2	1/2
3/4	2,346.36	3/4	1,983.10	3/4	1,619.84	3/4	1,256.57	3/4	893.31	3/4	530.04	3/4	166.78	3/4	3/4	3/4		3/4	3/4
6	2,338.80	6	1,975.53	6	1,612.27	6	1,249.00	6	885.74	6	522.47	6	159.21	6	6	6		6	6
1/4	2,331.23	1/4	1,967.97	1/4	1,604.70	1/4	1,241.44	1/4	878.18	1/4	514.91	1/4	151.65	1/4	1/4	1/4		1/4	1/4
1/2	2,323.66	1/2	1,960.40	1/2	1,597.13	1/2	1,233.87	1/2	870.61	1/2	507.34	1/2	144.08	1/2	1/2	1/2		1/2	1/2
3/4	2,316.09	3/4	1,952.83	3/4	1,589.56	3/4	1,226.30	3/4	863.04	3/4	499.77	3/4	136.51	3/4	3/4	3/4		3/4	3/4
7	2,308.53	7	1,945.26	7	1,581.99	7	1,218.73	7	855.47	7	492.20	7	128.94	7	7	7		7	7
1/4	2,300.96	1/4	1,937.70	1/4	1,574.43	1/4	1,211.17	1/4	847.90	1/4	484.64	1/4	121.38	1/4	1/4	1/4		1/4	1/4
1/2	2,293.39	1/2	1,930.13	1/2	1,566.86	1/2	1,203.60	1/2	840.33	1/2	477.07	1/2	113.81	1/2	1/2	1/2		1/2	1/2
3/4	2,285.82	3/4	1,922.56	3/4	1,559.29	3/4	1,196.03	3/4	832.76	3/4	469.50	3/4	106.24	3/4	3/4	3/4		3/4	3/4
8	2,278.26	8	1,914.99	8	1,551.72	8	1,188.46	8	825.19	8	461.93	8	98.67	8	8	8		8	8
1/4	2,270.69	1/4	1,907.42	1/4	1,544.16	1/4	1,180.90	1/4	817.63	1/4	454.37	1/4	91.10	1/4	1/4	1/4		1/4	1/4
1/2	2,263.12	1/2	1,899.85	1/2	1,536.59	1/2	1,173.33	1/2	810.06	1/2	446.80	1/2	83.53	1/2	1/2	1/2		1/2	1/2
3/4	2,255.55	3/4	1,892.28	3/4	1,529.02	3/4	1,165.76	3/4	802.49	3/4	439.23	3/4	76.82	3/4	3/4	3/4		3/4	3/4
9	2,247.99	9	1,884.71	9	1,521.45	9	1,158.19	9	794.92	9	431.66	9	70.12	9	9	9		9	9
1/4	2,240.42	1/4	1,877.15	1/4	1,513.89	1/4	1,150.62	1/4	787.36	1/4	424.10	1/4	63.41	1/4	1/4	1/4		1/4	1/4
1/2	2,232.85	1/2	1,869.58	1/2	1,506.32	1/2	1,143.05	1/2	779.79	1/2	416.53	1/2	56.71	1/2	1/2	1/2		1/2	1/2
3/4	2,225.28	3/4	1,862.01	3/4	1,498.75	3/4	1,135.48	3/4	772.22	3/4	408.96	3/4	51.21	3/4	3/4	3/4		3/4	3/4
10	2,217.71	10	1,854.44	10	1,491.18	10	1,127.91	10	764.65	10	401.39	10	45.71	10	10	10		10	10
1/4	2,210.14	1/4	1,846.88	1/4	1,483.62	1/4	1,120.35	1/4	757.09	1/4	393.82	1/4	40.21	1/4	1/4	1/4		1/4	1/4
1/2	2,202.57	1/2	1,839.31	1/2	1,476.05	1/2	1,112.78	1/2	749.52	1/2	386.25	1/2	34.71	1/2	1/2	1/2		1/2	1/2
3/4	2,195.00	3/4	1,831.74	3/4	1,468.48	3/4	1,105.21	3/4	741.95	3/4	378.68	3/4	30.59	3/4	3/4	3/4		3/4	3/4
11	2,187.44	11	1,824.17	11	1,460.91	11	1,097.64	11	734.38	11	371.11	11	26.47	11	11	11		11	11
1/4	2,179.87	1/4	1,816.61	1/4	1,453.34	1/4	1,090.08	1/4	726.82	1/4	363.55	1/4	22.36	1/4	1/4	1/4		1/4	1/4
1/2	2,172.30	1/2	1,809.04	1/2	1,445.77	1/2	1,082.51	1/2	719.25	1/2	355.98	1/2	18.24	1/2	1/2	1/2		1/2	1/2
3/4	2,164.73	3/4	1,801.47	3/4	1,438.20	3/4	1,074.94	3/4	711.68	3/4	348.41	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2003 INSP  
RECOMPUTED: 02/14/2023 JS  
REPRINTED: 02/14/2023

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "KIRBY 30078"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	984	0	1,969	0	2,953	0	3,937	0		0		0		0		0	
1/4	21	1/4	1,005	1/4	1,989	1/4	2,974	1/4	3,958	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,025	1/2	2,010	1/2	2,994	1/2	3,978	1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	1,046	3/4	2,030	3/4	3,015	3/4	3,999	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,066	1	2,051	1	3,035	1	4,019	1		1		1		1		1	
1/4	103	1/4	1,087	1/4	2,071	1/4	3,056	1/4	4,040	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,107	1/2	2,092	1/2	3,076	1/2	4,060	1/2		1/2		1/2		1/2		1/2	
3/4	144	3/4	1,128	3/4	2,112	3/4	3,097	3/4	4,080	3/4		3/4		3/4		3/4		3/4	
2	164	2	1,148	2	2,133	2	3,117	2	4,100	2		2		2		2		2	
1/4	185	1/4	1,169	1/4	2,153	1/4	3,138	1/4	4,121	1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,189	1/2	2,174	1/2	3,158	1/2	4,141	1/2		1/2		1/2		1/2		1/2	
3/4	226	3/4	1,210	3/4	2,194	3/4	3,179	3/4	4,161	3/4		3/4		3/4		3/4		3/4	
3	246	3	1,230	3	2,215	3	3,199	3	4,181	3		3		3		3		3	
1/4	267	1/4	1,251	1/4	2,235	1/4	3,220	1/4	4,202	1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	1,271	1/2	2,256	1/2	3,240	1/2	4,222	1/2		1/2		1/2		1/2		1/2	
3/4	308	3/4	1,292	3/4	2,276	3/4	3,261	3/4	4,242	3/4		3/4		3/4		3/4		3/4	
4	328	4	1,312	4	2,297	4	3,281	4	4,262	4		4		4		4		4	
1/4	349	1/4	1,333	1/4	2,317	1/4	3,302	1/4	4,282	1/4		1/4		1/4		1/4		1/4	
1/2	369	1/2	1,353	1/2	2,338	1/2	3,322	1/2	4,303	1/2		1/2		1/2		1/2		1/2	
3/4	390	3/4	1,374	3/4	2,358	3/4	3,343	3/4	4,323	3/4		3/4		3/4		3/4		3/4	
5	410	5	1,394	5	2,379	5	3,363	5	4,343	5		5		5		5		5	
1/4	431	1/4	1,415	1/4	2,399	1/4	3,384	1/4	4,363	1/4		1/4		1/4		1/4		1/4	
1/2	451	1/2	1,436	1/2	2,420	1/2	3,404	1/2	4,384	1/2		1/2		1/2		1/2		1/2	
3/4	472	3/4	1,456	3/4	2,440	3/4	3,425	3/4	4,404	3/4		3/4		3/4		3/4		3/4	
6	492	6	1,477	6	2,461	6	3,445	6	4,424	6		6		6		6		6	
1/4	513	1/4	1,497	1/4	2,481	1/4	3,466	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	533	1/2	1,518	1/2	2,502	1/2	3,486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	554	3/4	1,538	3/4	2,522	3/4	3,507	3/4		3/4		3/4		3/4		3/4		3/4	
7	574	7	1,559	7	2,543	7	3,527	7		7		7		7		7		7	
1/4	595	1/4	1,579	1/4	2,563	1/4	3,548	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	615	1/2	1,600	1/2	2,584	1/2	3,568	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	636	3/4	1,620	3/4	2,604	3/4	3,589	3/4		3/4		3/4		3/4		3/4		3/4	
8	656	8	1,641	8	2,625	8	3,609	8		8		8		8		8		8	
1/4	677	1/4	1,661	1/4	2,645	1/4	3,630	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	697	1/2	1,682	1/2	2,666	1/2	3,650	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	718	3/4	1,702	3/4	2,686	3/4	3,671	3/4		3/4		3/4		3/4		3/4		3/4	
9	738	9	1,723	9	2,707	9	3,691	9		9		9		9		9		9	
1/4	759	1/4	1,743	1/4	2,727	1/4	3,712	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	779	1/2	1,764	1/2	2,748	1/2	3,732	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	800	3/4	1,784	3/4	2,768	3/4	3,753	3/4		3/4		3/4		3/4		3/4		3/4	
10	820	10	1,805	10	2,789	10	3,773	10		10		10		10		10		10	
1/4	841	1/4	1,825	1/4	2,809	1/4	3,794	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	861	1/2	1,846	1/2	2,830	1/2	3,814	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	882	3/4	1,866	3/4	2,851	3/4	3,835	3/4		3/4		3/4		3/4		3/4		3/4	
11	902	11	1,887	11	2,871	11	3,855	11		11		11		11		11		11	
1/4	923	1/4	1,907	1/4	2,892	1/4	3,876	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	943	1/2	1,928	1/2	2,912	1/2	3,896	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	964	3/4	1,948	3/4	2,933	3/4	3,917	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE.

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# BARGE "KIRBY 30078"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	983	0	1,967	0	2,950	0	3,933	0		0		0		0		0	
1/4	20	1/4	1,004	1/4	1,987	1/4	2,970	1/4	3,954	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,024	1/2	2,008	1/2	2,991	1/2	3,974	1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	1,045	3/4	2,028	3/4	3,011	3/4	3,995	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,065	1	2,049	1	3,032	1	4,015	1		1		1		1		1	
1/4	102	1/4	1,086	1/4	2,069	1/4	3,052	1/4	4,035	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,106	1/2	2,090	1/2	3,073	1/2	4,056	1/2		1/2		1/2		1/2		1/2	
3/4	143	3/4	1,127	3/4	2,110	3/4	3,093	3/4	4,076	3/4		3/4		3/4		3/4		3/4	
2	164	2	1,147	2	2,130	2	3,114	2	4,096	2		2		2		2		2	
1/4	184	1/4	1,168	1/4	2,151	1/4	3,134	1/4	4,116	1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,188	1/2	2,171	1/2	3,155	1/2	4,136	1/2		1/2		1/2		1/2		1/2	
3/4	225	3/4	1,209	3/4	2,192	3/4	3,175	3/4	4,157	3/4		3/4		3/4		3/4		3/4	
3	246	3	1,229	3	2,212	3	3,196	3	4,177	3		3		3		3		3	
1/4	266	1/4	1,250	1/4	2,233	1/4	3,216	1/4	4,197	1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	1,270	1/2	2,253	1/2	3,237	1/2	4,217	1/2		1/2		1/2		1/2		1/2	
3/4	307	3/4	1,291	3/4	2,274	3/4	3,257	3/4	4,237	3/4		3/4		3/4		3/4		3/4	
4	328	4	1,311	4	2,294	4	3,278	4	4,258	4		4		4		4		4	
1/4	348	1/4	1,332	1/4	2,315	1/4	3,298	1/4	4,278	1/4		1/4		1/4		1/4		1/4	
1/2	369	1/2	1,352	1/2	2,335	1/2	3,319	1/2	4,298	1/2		1/2		1/2		1/2		1/2	
3/4	389	3/4	1,373	3/4	2,356	3/4	3,339	3/4	4,318	3/4		3/4		3/4		3/4		3/4	
5	410	5	1,393	5	2,376	5	3,360	5	4,338	5		5		5		5		5	
1/4	430	1/4	1,413	1/4	2,397	1/4	3,380	1/4	4,359	1/4		1/4		1/4		1/4		1/4	
1/2	451	1/2	1,434	1/2	2,417	1/2	3,401	1/2	4,379	1/2		1/2		1/2		1/2		1/2	
3/4	471	3/4	1,454	3/4	2,438	3/4	3,421	3/4	4,399	3/4		3/4		3/4		3/4		3/4	
6	492	6	1,475	6	2,458	6	3,442	6	4,419	6		6		6		6		6	
1/4	512	1/4	1,495	1/4	2,479	1/4	3,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	533	1/2	1,516	1/2	2,499	1/2	3,483	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,536	3/4	2,520	3/4	3,503	3/4		3/4		3/4		3/4		3/4		3/4	
7	574	7	1,557	7	2,540	7	3,523	7		7		7		7		7		7	
1/4	594	1/4	1,577	1/4	2,561	1/4	3,544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	615	1/2	1,598	1/2	2,581	1/2	3,564	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	635	3/4	1,618	3/4	2,602	3/4	3,585	3/4		3/4		3/4		3/4		3/4		3/4	
8	656	8	1,639	8	2,622	8	3,605	8		8		8		8		8		8	
1/4	676	1/4	1,659	1/4	2,643	1/4	3,626	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	697	1/2	1,680	1/2	2,663	1/2	3,646	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	717	3/4	1,700	3/4	2,684	3/4	3,667	3/4		3/4		3/4		3/4		3/4		3/4	
9	737	9	1,721	9	2,704	9	3,687	9		9		9		9		9		9	
1/4	758	1/4	1,741	1/4	2,725	1/4	3,708	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	778	1/2	1,762	1/2	2,745	1/2	3,728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	799	3/4	1,782	3/4	2,766	3/4	3,749	3/4		3/4		3/4		3/4		3/4		3/4	
10	819	10	1,803	10	2,786	10	3,769	10		10		10		10		10		10	
1/4	840	1/4	1,823	1/4	2,806	1/4	3,790	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	860	1/2	1,844	1/2	2,827	1/2	3,810	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	881	3/4	1,864	3/4	2,847	3/4	3,831	3/4		3/4		3/4		3/4		3/4		3/4	
11	901	11	1,885	11	2,868	11	3,851	11		11		11		11		11		11	
1/4	922	1/4	1,905	1/4	2,888	1/4	3,872	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	942	1/2	1,926	1/2	2,909	1/2	3,892	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	963	3/4	1,946	3/4	2,929	3/4	3,913	3/4		3/4		3/4		3/4		3/4		3/4	

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# BARGE "KIRBY 30078"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 5'-05 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	394	0	789	0	1,183	0	1,577	0		0		0		0		0	
1/4	8	1/4	403	1/4	797	1/4	1,191	1/4	1,585	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	411	1/2	805	1/2	1,199	1/2	1,594	1/2		1/2		1/2		1/2		1/2	
3/4	25	3/4	419	3/4	813	3/4	1,208	3/4	1,602	3/4		3/4		3/4		3/4		3/4	
1	33	1	427	1	821	1	1,216	1	1,610	1		1		1		1		1	
1/4	41	1/4	435	1/4	830	1/4	1,224	1/4	1,618	1/4		1/4		1/4		1/4		1/4	
1/2	49	1/2	444	1/2	838	1/2	1,232	1/2	1,627	1/2		1/2		1/2		1/2		1/2	
3/4	58	3/4	452	3/4	846	3/4	1,240	3/4	1,635	3/4		3/4		3/4		3/4		3/4	
2	66	2	460	2	854	2	1,249	2	1,643	2		2		2		2		2	
1/4	74	1/4	468	1/4	863	1/4	1,257	1/4	1,651	1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	476	1/2	871	1/2	1,265	1/2	1,659	1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	485	3/4	879	3/4	1,273	3/4	1,668	3/4		3/4		3/4		3/4		3/4	
3	99	3	493	3	887	3	1,282	3	1,676	3		3		3		3		3	
1/4	107	1/4	501	1/4	895	1/4	1,290	1/4	1,684	1/4		1/4		1/4		1/4		1/4	
1/2	115	1/2	509	1/2	904	1/2	1,298	1/2	1,692	1/2		1/2		1/2		1/2		1/2	
3/4	123	3/4	518	3/4	912	3/4	1,306	3/4	1,700	3/4		3/4		3/4		3/4		3/4	
4	131	4	526	4	920	4	1,314	4	1,709	4		4		4		4		4	
1/4	140	1/4	534	1/4	928	1/4	1,323	1/4	1,717	1/4		1/4		1/4		1/4		1/4	
1/2	148	1/2	542	1/2	936	1/2	1,331	1/2	1,725	1/2		1/2		1/2		1/2		1/2	
3/4	156	3/4	550	3/4	945	3/4	1,339	3/4	1,733	3/4		3/4		3/4		3/4		3/4	
5	164	5	559	5	953	5	1,347	5	1,742	5		5		5		5		5	
1/4	173	1/4	567	1/4	961	1/4	1,355	1/4	1,750	1/4		1/4		1/4		1/4		1/4	
1/2	181	1/2	575	1/2	969	1/2	1,364	1/2	1,758	1/2		1/2		1/2		1/2		1/2	
3/4	189	3/4	583	3/4	978	3/4	1,372	3/4	1,766	3/4		3/4		3/4		3/4		3/4	
6	197	6	591	6	986	6	1,380	6	1,774	6		6		6		6		6	
1/4	205	1/4	600	1/4	994	1/4	1,388	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	214	1/2	608	1/2	1,002	1/2	1,397	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	222	3/4	616	3/4	1,010	3/4	1,405	3/4		3/4		3/4		3/4		3/4		3/4	
7	230	7	624	7	1,019	7	1,413	7		7		7		7		7		7	
1/4	238	1/4	633	1/4	1,027	1/4	1,421	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	246	1/2	641	1/2	1,035	1/2	1,429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	649	3/4	1,043	3/4	1,438	3/4		3/4		3/4		3/4		3/4		3/4	
8	263	8	657	8	1,051	8	1,446	8		8		8		8		8		8	
1/4	271	1/4	665	1/4	1,060	1/4	1,454	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	279	1/2	674	1/2	1,068	1/2	1,462	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	288	3/4	682	3/4	1,076	3/4	1,470	3/4		3/4		3/4		3/4		3/4		3/4	
9	296	9	690	9	1,084	9	1,479	9		9		9		9		9		9	
1/4	304	1/4	698	1/4	1,093	1/4	1,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	312	1/2	706	1/2	1,101	1/2	1,495	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	320	3/4	715	3/4	1,109	3/4	1,503	3/4		3/4		3/4		3/4		3/4		3/4	
10	329	10	723	10	1,117	10	1,512	10		10		10		10		10		10	
1/4	337	1/4	731	1/4	1,125	1/4	1,520	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	345	1/2	739	1/2	1,134	1/2	1,528	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	353	3/4	748	3/4	1,142	3/4	1,536	3/4		3/4		3/4		3/4		3/4		3/4	
11	361	11	756	11	1,150	11	1,544	11		11		11		11		11		11	
1/4	370	1/4	764	1/4	1,158	1/4	1,553	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	378	1/2	772	1/2	1,167	1/2	1,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	386	3/4	780	3/4	1,175	3/4	1,569	3/4		3/4		3/4		3/4		3/4		3/4	

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