



# BARGE "KIRBY 10549"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS - 00-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

August 15, 2012

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

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# BARGE "KIRBY 10549"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

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		
							3,761.07		3,531.84		3,279.03		3,026.21		2,764.18		2,468.62		2,172.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,760.04	1/4	3,526.58	1/4	3,273.76	1/4	3,020.95	1/4	2,758.03	1/4	2,462.45	1/4	2,166.26		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,759.00	1/2	3,521.31	1/2	3,268.49	1/2	3,015.68	1/2	2,751.88	1/2	2,456.28	1/2	2,160.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,755.91	3/4	3,516.04	3/4	3,263.23	3/4	3,010.41	3/4	2,745.73	3/4	2,450.11	3/4	2,153.92		
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3,752.81</b>	<b>1</b>	<b>3,510.78</b>	<b>1</b>	<b>3,257.96</b>	<b>1</b>	<b>3,005.14</b>	<b>1</b>	<b>2,739.57</b>	<b>1</b>	<b>2,443.94</b>	<b>1</b>	<b>2,147.75</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,749.71	1/4	3,505.51	1/4	3,252.69	1/4	2,999.88	1/4	2,733.42	1/4	2,437.77	1/4	2,141.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,746.61	1/2	3,500.24	1/2	3,247.43	1/2	2,994.61	1/2	2,727.27	1/2	2,431.60	1/2	2,135.41		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,742.47	3/4	3,494.98	3/4	3,242.16	3/4	2,989.34	3/4	2,721.12	3/4	2,425.43	3/4	2,129.24		
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3,738.32</b>	<b>2</b>	<b>3,489.71</b>	<b>2</b>	<b>3,236.89</b>	<b>2</b>	<b>2,984.08</b>	<b>2</b>	<b>2,714.97</b>	<b>2</b>	<b>2,419.26</b>	<b>2</b>	<b>2,123.06</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,734.17	1/4	3,484.44	1/4	3,231.63	1/4	2,978.81	1/4	2,708.81	1/4	2,413.09	1/4	2,116.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,730.02	1/2	3,479.17	1/2	3,226.36	1/2	2,973.54	1/2	2,702.66	1/2	2,406.92	1/2	2,110.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,724.89	3/4	3,473.91	3/4	3,221.09	3/4	2,968.28	3/4	2,696.51	3/4	2,400.75	3/4	2,104.55		
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3,719.76</b>	<b>3</b>	<b>3,468.64</b>	<b>3</b>	<b>3,215.82</b>	<b>3</b>	<b>2,963.01</b>	<b>3</b>	<b>2,690.36</b>	<b>3</b>	<b>2,398.58</b>	<b>3</b>	<b>2,098.38</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,714.62	1/4	3,463.37	1/4	3,210.56	1/4	2,957.74	1/4	2,684.21	1/4	2,388.40	1/4	2,092.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,709.49	1/2	3,458.11	1/2	3,205.29	1/2	2,952.47	1/2	2,678.05	1/2	2,382.23	1/2	2,086.04		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,704.32	3/4	3,452.84	3/4	3,200.02	3/4	2,947.21	3/4	2,671.90	3/4	2,376.06	3/4	2,079.87		
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3,699.15</b>	<b>4</b>	<b>3,447.57</b>	<b>4</b>	<b>3,194.76</b>	<b>4</b>	<b>2,941.94</b>	<b>4</b>	<b>2,665.75</b>	<b>4</b>	<b>2,369.89</b>	<b>4</b>	<b>2,073.70</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,693.99	1/4	3,442.31	1/4	3,189.49	1/4	2,936.67	1/4	2,659.60	1/4	2,363.72	1/4	2,067.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,688.82	1/2	3,437.04	1/2	3,184.22	1/2	2,931.41	1/2	2,653.45	1/2	2,357.55	1/2	2,061.36		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,683.64	3/4	3,431.77	3/4	3,178.96	3/4	2,926.14	3/4	2,647.29	3/4	2,351.38	3/4	2,055.19		
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>3,678.45</b>	<b>5</b>	<b>3,426.50</b>	<b>5</b>	<b>3,173.69</b>	<b>5</b>	<b>2,920.87</b>	<b>5</b>	<b>2,641.14</b>	<b>5</b>	<b>2,345.21</b>	<b>5</b>	<b>2,049.02</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,673.27	1/4	3,421.24	1/4	3,168.42	1/4	2,915.61	1/4	2,634.99	1/4	2,339.04	1/4	2,042.85		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,668.09	1/2	3,415.97	1/2	3,163.15	1/2	2,910.34	1/2	2,628.84	1/2	2,332.87	1/2	2,036.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,662.91	3/4	3,410.70	3/4	3,157.89	3/4	2,905.07	3/4	2,622.69	3/4	2,326.70	3/4	2,030.50		
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>3,657.73</b>	<b>6</b>	<b>3,405.44</b>	<b>6</b>	<b>3,152.62</b>	<b>6</b>	<b>2,899.80</b>	<b>6</b>	<b>2,616.53</b>	<b>6</b>	<b>2,320.53</b>	<b>6</b>	<b>2,024.33</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,652.55	1/4	3,400.17	1/4	3,147.35	1/4	2,894.54	1/4	2,610.38	1/4	2,314.36	1/4	2,018.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,647.37	1/2	3,394.90	1/2	3,142.09	1/2	2,889.27	1/2	2,604.23	1/2	2,308.19	1/2	2,011.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,642.19	3/4	3,389.64	3/4	3,136.82	3/4	2,884.00	3/4	2,598.08	3/4	2,302.01	3/4	2,005.82		
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>3,637.01</b>	<b>7</b>	<b>3,384.37</b>	<b>7</b>	<b>3,131.55</b>	<b>7</b>	<b>2,878.74</b>	<b>7</b>	<b>2,591.93</b>	<b>7</b>	<b>2,295.84</b>	<b>7</b>	<b>1,999.65</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,631.83	1/4	3,379.10	1/4	3,126.29	1/4	2,873.47	1/4	2,585.77	1/4	2,289.67	1/4	1,993.48		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,626.65	1/2	3,373.83	1/2	3,121.02	1/2	2,868.20	1/2	2,579.62	1/2	2,283.50	1/2	1,987.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,621.38	3/4	3,368.57	3/4	3,115.75	3/4	2,862.91	3/4	2,573.47	3/4	2,277.33	3/4	1,981.14		
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>3,616.12</b>	<b>8</b>	<b>3,363.30</b>	<b>8</b>	<b>3,110.48</b>	<b>8</b>	<b>2,857.62</b>	<b>8</b>	<b>2,567.32</b>	<b>8</b>	<b>2,271.16</b>	<b>8</b>	<b>1,974.97</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,610.85	1/4	3,358.03	1/4	3,105.22	1/4	2,852.33	1/4	2,561.17	1/4	2,264.99	1/4	1,968.80		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,605.58	1/2	3,352.77	1/2	3,099.95	1/2	2,847.03	1/2	2,555.01	1/2	2,258.82	1/2	1,962.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,600.32	3/4	3,347.50	3/4	3,094.68	3/4	2,841.74	3/4	2,548.84	3/4	2,252.65	3/4	1,956.46		
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>3,595.05</b>	<b>9</b>	<b>3,342.23</b>	<b>9</b>	<b>3,089.42</b>	<b>9</b>	<b>2,836.45</b>	<b>9</b>	<b>2,542.67</b>	<b>9</b>	<b>2,246.48</b>	<b>9</b>	<b>1,950.28</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,589.78	1/4	3,336.97	1/4	3,084.15	1/4	2,831.16	1/4	2,536.50	1/4	2,240.31	1/4	1,944.11		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,584.51	1/2	3,331.70	1/2	3,078.88	1/2	2,825.87	1/2	2,530.33	1/2	2,234.14	1/2	1,937.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,579.25	3/4	3,326.43	3/4	3,073.62	3/4	2,819.67	3/4	2,524.16	3/4	2,227.97	3/4	1,931.77		
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>3,573.98</b>	<b>10</b>	<b>3,321.16</b>	<b>10</b>	<b>3,068.35</b>	<b>10</b>	<b>2,813.48</b>	<b>10</b>	<b>2,517.99</b>	<b>10</b>	<b>2,221.80</b>	<b>10</b>	<b>1,925.60</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,568.71	1/4	3,315.90	1/4	3,063.08	1/4	2,807.29	1/4	2,511.82	1/4	2,215.62	1/4	1,919.43		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,563.45	1/2	3,310.63	1/2	3,057.81	1/2	2,801.09	1/2	2,505.65	1/2	2,209.45	1/2	1,913.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,558.18	3/4	3,305.36	3/4	3,052.55	3/4	2,794.94	3/4	2,499.48	3/4	2,203.28	3/4	1,907.09		
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>3,552.91</b>	<b>11</b>	<b>3,300.10</b>	<b>11</b>	<b>3,047.28</b>	<b>11</b>	<b>2,788.79</b>	<b>11</b>	<b>2,493.31</b>	<b>11</b>	<b>2,197.11</b>	<b>11</b>	<b>1,900.92</b>		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,547.65	1/4	3,294.83	1/4	3,042.01	1/4	2,782.64	1/4	2,487.14	1/4	2,190.94	1/4	1,894.75		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,763.14	1/2	3,542.38	1/2	3,289.56	1/2	3,036.75	1/2	2,776.49	1/2	2,480.96	1/2	2,184.77	1/2	1,888.58
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,762.10	3/4	3,537.11	3/4	3,284.30	3/4	3,031.48	3/4	2,770.33	3/4	2,474.79	3/4	2,178.60	3/4	1,882.41

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" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 10549"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,876.24	0	1,579.79	0	1,283.19	0	986.58	0	696.03	0	399.26	0	102.52	0		0		0	
1/4	1,870.07	1/4	1,573.62	1/4	1,277.01	1/4	980.40	1/4	689.87	1/4	393.08	1/4	96.36	1/4		1/4		1/4	
1/2	1,863.89	1/2	1,567.44	1/2	1,270.83	1/2	974.22	1/2	683.70	1/2	386.90	1/2	90.20	1/2		1/2		1/2	
3/4	1,857.72	3/4	1,561.26	3/4	1,264.65	3/4	968.11	3/4	677.52	3/4	380.71	3/4	84.08	3/4		3/4		3/4	
1	1,851.55	1	1,555.08	1	1,258.47	1	961.99	1	671.34	1	374.53	1	77.96	1		1		1	
1/4	1,845.38	1/4	1,548.90	1/4	1,252.29	1/4	955.87	1/4	665.15	1/4	368.35	1/4	71.83	1/4		1/4		1/4	
1/2	1,839.21	1/2	1,542.72	1/2	1,246.11	1/2	949.76	1/2	658.97	1/2	362.16	1/2	65.71	1/2		1/2		1/2	
3/4	1,833.04	3/4	1,536.54	3/4	1,239.93	3/4	943.70	3/4	652.79	3/4	355.98	3/4	59.64	3/4		3/4		3/4	
2	1,826.87	2	1,530.36	2	1,233.75	2	937.65	2	646.61	2	349.80	2	53.58	2		2		2	
1/4	1,820.70	1/4	1,524.18	1/4	1,227.57	1/4	931.60	1/4	640.42	1/4	343.61	1/4	47.51	1/4		1/4		1/4	
1/2	1,814.53	1/2	1,518.00	1/2	1,221.40	1/2	925.54	1/2	634.24	1/2	337.43	1/2	41.44	1/2		1/2		1/2	
3/4	1,808.35	3/4	1,511.82	3/4	1,215.22	3/4	919.49	3/4	628.06	3/4	331.24	3/4	36.29	3/4		3/4		3/4	
3	1,802.17	3	1,505.64	3	1,209.04	3	913.44	3	621.87	3	325.06	3	31.13	3		3		3	
1/4	1,795.99	1/4	1,499.46	1/4	1,202.86	1/4	907.39	1/4	615.69	1/4	318.88	1/4	25.98	1/4		1/4		1/4	
1/2	1,789.81	1/2	1,493.28	1/2	1,196.68	1/2	901.33	1/2	609.51	1/2	312.69	1/2	20.83	1/2		1/2		1/2	
3/4	1,783.63	3/4	1,487.11	3/4	1,190.50	3/4	895.30	3/4	603.32	3/4	306.51	3/4	17.73	3/4		3/4		3/4	
4	1,777.45	4	1,480.93	4	1,184.32	4	889.26	4	597.14	4	300.33	4	14.63	4		4		4	
1/4	1,771.28	1/4	1,474.75	1/4	1,178.14	1/4	883.22	1/4	590.96	1/4	294.14	1/4	11.53	1/4		1/4		1/4	
1/2	1,765.10	1/2	1,468.57	1/2	1,171.96	1/2	877.19	1/2	584.77	1/2	287.96	1/2	8.44	1/2		1/2		1/2	
3/4	1,758.92	3/4	1,462.39	3/4	1,165.78	3/4	871.17	3/4	578.59	3/4	281.78	3/4	7.40	3/4		3/4		3/4	
5	1,752.74	5	1,456.21	5	1,159.60	5	865.15	5	572.41	5	275.59	5	6.37	5		5		5	
1/4	1,746.56	1/4	1,450.03	1/4	1,153.42	1/4	859.12	1/4	566.22	1/4	269.41	1/4	5.34	1/4		1/4		1/4	
1/2	1,740.38	1/2	1,443.85	1/2	1,147.24	1/2	853.10	1/2	560.04	1/2	263.23	1/2	4.31	1/2		1/2		1/2	
3/4	1,734.20	3/4	1,437.67	3/4	1,141.06	3/4	847.08	3/4	553.85	3/4	257.04	3/4		3/4		3/4		3/4	
6	1,728.02	6	1,431.49	6	1,134.89	6	841.06	6	547.67	6	250.86	6		6		6		6	
1/4	1,721.85	1/4	1,425.31	1/4	1,128.71	1/4	835.04	1/4	541.49	1/4	244.67	1/4		1/4		1/4		1/4	
1/2	1,715.67	1/2	1,419.13	1/2	1,122.53	1/2	829.02	1/2	535.30	1/2	238.49	1/2		1/2		1/2		1/2	
3/4	1,709.49	3/4	1,412.95	3/4	1,116.35	3/4	823.00	3/4	529.12	3/4	232.31	3/4		3/4		3/4		3/4	
7	1,703.32	7	1,406.77	7	1,110.17	7	816.98	7	522.94	7	226.12	7		7		7		7	
1/4	1,697.14	1/4	1,400.60	1/4	1,103.99	1/4	810.96	1/4	516.75	1/4	219.94	1/4		1/4		1/4		1/4	
1/2	1,690.97	1/2	1,394.42	1/2	1,097.81	1/2	804.94	1/2	510.57	1/2	213.76	1/2		1/2		1/2		1/2	
3/4	1,684.79	3/4	1,388.24	3/4	1,091.63	3/4	798.92	3/4	504.39	3/4	207.57	3/4		3/4		3/4		3/4	
8	1,678.61	8	1,382.06	8	1,085.45	8	792.90	8	498.20	8	201.39	8		8		8		8	
1/4	1,672.44	1/4	1,375.88	1/4	1,079.27	1/4	786.88	1/4	492.02	1/4	195.21	1/4		1/4		1/4		1/4	
1/2	1,666.26	1/2	1,369.70	1/2	1,073.09	1/2	780.86	1/2	485.83	1/2	189.02	1/2		1/2		1/2		1/2	
3/4	1,660.09	3/4	1,363.52	3/4	1,066.91	3/4	774.84	3/4	479.65	3/4	182.84	3/4		3/4		3/4		3/4	
9	1,653.91	9	1,357.34	9	1,060.73	9	768.82	9	473.47	9	176.66	9		9		9		9	
1/4	1,647.74	1/4	1,351.16	1/4	1,054.55	1/4	762.80	1/4	467.28	1/4	170.47	1/4		1/4		1/4		1/4	
1/2	1,641.56	1/2	1,344.98	1/2	1,048.37	1/2	756.78	1/2	461.10	1/2	164.29	1/2		1/2		1/2		1/2	
3/4	1,635.38	3/4	1,338.80	3/4	1,042.20	3/4	750.76	3/4	454.92	3/4	158.10	3/4		3/4		3/4		3/4	
10	1,629.21	10	1,332.62	10	1,036.02	10	744.74	10	448.73	10	151.91	10		10		10		10	
1/4	1,623.03	1/4	1,326.44	1/4	1,029.84	1/4	738.72	1/4	442.55	1/4	145.72	1/4		1/4		1/4		1/4	
1/2	1,616.86	1/2	1,320.26	1/2	1,023.66	1/2	732.70	1/2	436.37	1/2	139.53	1/2		1/2		1/2		1/2	
3/4	1,610.68	3/4	1,314.08	3/4	1,017.48	3/4	726.61	3/4	430.18	3/4	133.36	3/4		3/4		3/4		3/4	
11	1,604.50	11	1,307.91	11	1,011.30	11	720.53	11	424.00	11	127.18	11		11		11		11	
1/4	1,598.33	1/4	1,301.73	1/4	1,005.12	1/4	714.45	1/4	417.82	1/4	121.01	1/4		1/4		1/4		1/4	
1/2	1,592.15	1/2	1,295.55	1/2	998.94	1/2	708.36	1/2	411.63	1/2	114.83	1/2		1/2		1/2		1/2	
3/4	1,585.97	3/4	1,289.37	3/4	992.76	3/4	702.20	3/4	405.45	3/4	108.67	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2012 CL - SW  
CALCULATED: 08/15/2012 CL  
PRINTED: 08/15/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 10549"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	3,472.96	0	3,241.88	0	2,980.14	0	2,718.39	0	2,456.15	0	2,193.00	0	1,929.85		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,472.05	1/4	3,236.43	1/4	2,974.69	1/4	2,712.94	1/4	2,450.67	1/4	2,187.52	1/4	1,924.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,471.13	1/2	3,230.98	1/2	2,969.23	1/2	2,707.49	1/2	2,445.19	1/2	2,182.04	1/2	1,918.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,470.22	3/4	3,225.52	3/4	2,963.78	3/4	2,702.04	3/4	2,439.71	3/4	2,176.55	3/4	1,913.40		
1		1		1		1	3,467.48	1	3,220.07	1	2,958.33	1	2,696.58	1	2,434.22	1	2,171.07	1	1,907.92		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,464.73	1/4	3,214.62	1/4	2,952.87	1/4	2,691.13	1/4	2,428.74	1/4	2,165.59	1/4	1,902.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,461.99	1/2	3,209.16	1/2	2,947.42	1/2	2,685.68	1/2	2,423.26	1/2	2,160.11	1/2	1,896.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,459.25	3/4	3,203.71	3/4	2,941.97	3/4	2,680.22	3/4	2,417.78	3/4	2,154.63	3/4	1,891.48		
2		2		2		2	3,454.81	2	3,176.26	2	2,936.51	2	2,674.77	2	2,412.29	2	2,149.14	2	1,885.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,450.36	1/4	3,192.81	1/4	2,931.06	1/4	2,669.32	1/4	2,406.81	1/4	2,143.66	1/4	1,880.51		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,445.92	1/2	3,187.35	1/2	2,925.61	1/2	2,663.86	1/2	2,401.33	1/2	2,138.18	1/2	1,875.03		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,441.48	3/4	3,181.90	3/4	2,920.16	3/4	2,658.41	3/4	2,395.85	3/4	2,132.70	3/4	1,869.55		
3		3		3		3	3,436.17	3	3,176.45	3	2,914.70	3	2,652.96	3	2,390.36	3	2,127.21	3	1,864.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,430.85	1/4	3,170.99	1/4	2,909.25	1/4	2,647.51	1/4	2,384.88	1/4	2,121.73	1/4	1,858.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,425.54	1/2	3,165.54	1/2	2,903.80	1/2	2,642.05	1/2	2,379.40	1/2	2,116.25	1/2	1,853.10		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,420.23	3/4	3,160.09	3/4	2,898.34	3/4	2,636.60	3/4	2,373.92	3/4	2,110.77	3/4	1,847.62		
4		4		4		4	3,414.88	4	3,154.63	4	2,892.89	4	2,631.15	4	2,368.44	4	2,105.28	4	1,842.13		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,409.54	1/4	3,149.18	1/4	2,887.44	1/4	2,625.69	1/4	2,362.95	1/4	2,099.80	1/4	1,836.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,404.19	1/2	3,143.73	1/2	2,881.98	1/2	2,620.24	1/2	2,357.47	1/2	2,094.32	1/2	1,831.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,398.85	3/4	3,138.28	3/4	2,876.53	3/4	2,614.79	3/4	2,351.99	3/4	2,088.84	3/4	1,825.69		
5		5		5		5	3,393.49	5	3,132.82	5	2,871.08	5	2,609.33	5	2,346.51	5	2,083.36	5	1,820.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,388.13	1/4	3,127.37	1/4	2,865.63	1/4	2,603.88	1/4	2,341.02	1/4	2,077.87	1/4	1,814.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,382.77	1/2	3,121.92	1/2	2,860.17	1/2	2,598.43	1/2	2,335.54	1/2	2,072.39	1/2	1,809.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,377.42	3/4	3,116.46	3/4	2,854.72	3/4	2,592.98	3/4	2,330.06	3/4	2,066.91	3/4	1,803.76		
6		6		6		6	3,372.06	6	3,111.01	6	2,849.27	6	2,587.52	6	2,324.58	6	2,061.43	6	1,798.28		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,366.71	1/4	3,105.56	1/4	2,843.81	1/4	2,582.07	1/4	2,319.09	1/4	2,055.94	1/4	1,792.79		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,361.35	1/2	3,100.10	1/2	2,838.36	1/2	2,576.62	1/2	2,313.61	1/2	2,050.46	1/2	1,787.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,356.00	3/4	3,094.65	3/4	2,832.91	3/4	2,571.16	3/4	2,308.13	3/4	2,044.98	3/4	1,781.83		
7		7		7		7	3,350.65	7	3,089.20	7	2,827.45	7	2,565.71	7	2,302.65	7	2,039.50	7	1,776.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,345.29	1/4	3,083.75	1/4	2,822.00	1/4	2,560.26	1/4	2,297.17	1/4	2,034.01	1/4	1,770.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,339.94	1/2	3,078.29	1/2	2,816.55	1/2	2,554.80	1/2	2,291.68	1/2	2,028.53	1/2	1,765.38		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,334.58	3/4	3,072.84	3/4	2,811.10	3/4	2,549.35	3/4	2,286.20	3/4	2,023.05	3/4	1,759.90		
8		8		8		8	3,329.13	8	3,067.39	8	2,805.64	8	2,543.87	8	2,280.72	8	2,017.57	8	1,754.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,323.68	1/4	3,061.93	1/4	2,800.19	1/4	2,538.39	1/4	2,275.24	1/4	2,012.09	1/4	1,748.94		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,318.22	1/2	3,056.48	1/2	2,794.74	1/2	2,532.90	1/2	2,269.75	1/2	2,006.60	1/2	1,743.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,312.77	3/4	3,051.03	3/4	2,789.28	3/4	2,527.42	3/4	2,264.27	3/4	2,001.12	3/4	1,737.97		
9		9		9		9	3,307.32	9	3,045.57	9	2,783.83	9	2,521.94	9	2,258.79	9	1,995.64	9	1,732.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,301.87	1/4	3,040.12	1/4	2,778.38	1/4	2,516.46	1/4	2,253.31	1/4	1,990.16	1/4	1,727.01		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,296.41	1/2	3,034.67	1/2	2,772.92	1/2	2,510.98	1/2	2,247.82	1/2	1,984.67	1/2	1,721.52		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,290.96	3/4	3,029.22	3/4	2,767.47	3/4	2,505.49	3/4	2,242.34	3/4	1,979.19	3/4	1,716.04		
10		10		10		10	3,285.51	10	3,023.76	10	2,762.02	10	2,500.01	10	2,236.86	10	1,973.71	10	1,710.56		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,280.05	1/4	3,018.31	1/4	2,756.57	1/4	2,494.53	1/4	2,231.38	1/4	1,968.23	1/4	1,705.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,274.60	1/2	3,012.86	1/2	2,751.11	1/2	2,489.05	1/2	2,225.90	1/2	1,962.74	1/2	1,699.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,269.15	3/4	3,007.40	3/4	2,745.66	3/4	2,483.56	3/4	2,220.41	3/4	1,957.26	3/4	1,694.11		
11		11		11		11	3,263.69	11	3,001.95	11	2,740.21	11	2,478.08	11	2,214.93	11	1,951.78	11	1,688.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,258.24	1/4	2,996.50	1/4	2,734.75	1/4	2,472.60	1/4	2,209.45	1/4	1,946.30	1/4	1,683.15		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,252.79	1/2	2,991.04	1/2	2,729.30	1/2	2,467.12	1/2	2,203.97	1/2	1,940.82	1/2	1,677.67		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,473.88	3/4	3,247.34	3/4	2,985.59	3/4	2,723.85	3/4	2,461.63	3/4	2,198.48	3/4	1,935.33	3/4	1,672.18

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" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 10549"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,666.70	0	1,403.55	0	1,140.23	0	878.87	0	619.55	0	356.25	0	93.08	0		0		0	
1/4	1,661.22	1/4	1,398.06	1/4	1,134.75	1/4	873.47	1/4	614.06	1/4	350.77	1/4	87.63	1/4	1/4	1/4		1/4	1/4
1/2	1,655.74	1/2	1,392.58	1/2	1,129.26	1/2	868.07	1/2	608.58	1/2	345.28	1/2	82.18	1/2	1/2	1/2		1/2	1/2
3/4	1,650.25	3/4	1,387.09	3/4	1,123.78	3/4	862.67	3/4	603.09	3/4	339.80	3/4	76.73	3/4	3/4	3/4		3/4	3/4
1	1,644.77	1	1,381.60	1	1,118.29	1	857.26	1	597.61	1	334.31	1	71.31	1	1	1		1	1
1/4	1,639.29	1/4	1,376.12	1/4	1,112.80	1/4	851.86	1/4	592.12	1/4	328.83	1/4	65.89	1/4	1/4	1/4		1/4	1/4
1/2	1,633.81	1/2	1,370.63	1/2	1,107.32	1/2	846.46	1/2	586.64	1/2	323.34	1/2	60.47	1/2	1/2	1/2		1/2	1/2
3/4	1,628.32	3/4	1,365.15	3/4	1,101.83	3/4	841.06	3/4	581.15	3/4	317.86	3/4	55.04	3/4	3/4	3/4		3/4	3/4
2	1,622.84	2	1,359.66	2	1,096.35	2	835.66	2	575.67	2	312.37	2	49.67	2	2	2		2	2
1/4	1,617.36	1/4	1,354.18	1/4	1,090.86	1/4	830.26	1/4	570.18	1/4	306.89	1/4	44.30	1/4	1/4	1/4		1/4	1/4
1/2	1,611.88	1/2	1,348.69	1/2	1,085.38	1/2	824.86	1/2	564.69	1/2	301.40	1/2	38.93	1/2	1/2	1/2		1/2	1/2
3/4	1,606.40	3/4	1,343.20	3/4	1,079.89	3/4	819.46	3/4	559.21	3/4	295.92	3/4	33.56	3/4	3/4	3/4		3/4	3/4
3	1,600.91	3	1,337.72	3	1,074.41	3	814.06	3	553.72	3	290.43	3	28.99	3	3	3		3	3
1/4	1,595.43	1/4	1,332.23	1/4	1,068.92	1/4	808.67	1/4	548.24	1/4	284.94	1/4	24.43	1/4	1/4	1/4		1/4	1/4
1/2	1,589.95	1/2	1,326.75	1/2	1,063.43	1/2	803.27	1/2	542.75	1/2	279.46	1/2	19.87	1/2	1/2	1/2		1/2	1/2
3/4	1,584.47	3/4	1,321.26	3/4	1,057.95	3/4	797.88	3/4	537.27	3/4	273.97	3/4	15.30	3/4	3/4	3/4		3/4	3/4
4	1,578.98	4	1,315.78	4	1,052.46	4	792.48	4	531.78	4	268.49	4	12.56	4	4	4		4	4
1/4	1,573.50	1/4	1,310.29	1/4	1,046.98	1/4	787.08	1/4	526.30	1/4	263.00	1/4	9.82	1/4	1/4	1/4		1/4	1/4
1/2	1,568.02	1/2	1,304.80	1/2	1,041.49	1/2	781.69	1/2	520.81	1/2	257.52	1/2	7.08	1/2	1/2	1/2		1/2	1/2
3/4	1,562.54	3/4	1,299.32	3/4	1,036.01	3/4	776.29	3/4	515.33	3/4	252.03	3/4	4.33	3/4	3/4	3/4		3/4	3/4
5	1,557.05	5	1,293.83	5	1,030.52	5	770.90	5	509.84	5	246.55	5	3.42	5	5	5		5	5
1/4	1,551.57	1/4	1,288.35	1/4	1,025.03	1/4	765.50	1/4	504.36	1/4	241.06	1/4	2.51	1/4	1/4	1/4		1/4	1/4
1/2	1,546.09	1/2	1,282.86	1/2	1,019.55	1/2	760.11	1/2	498.87	1/2	235.58	1/2	1.59	1/2	1/2	1/2		1/2	1/2
3/4	1,540.61	3/4	1,277.38	3/4	1,014.06	3/4	754.71	3/4	493.39	3/4	230.09	3/4	0.68	3/4	3/4	3/4		3/4	3/4
6	1,535.13	6	1,271.89	6	1,008.62	6	749.32	6	487.90	6	224.61	6		6	6	6		6	6
1/4	1,529.64	1/4	1,266.40	1/4	1,003.17	1/4	743.92	1/4	482.42	1/4	219.12	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,524.16	1/2	1,260.92	1/2	997.73	1/2	738.52	1/2	476.93	1/2	213.64	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,518.68	3/4	1,255.43	3/4	992.29	3/4	733.13	3/4	471.44	3/4	208.15	3/4		3/4	3/4	3/4		3/4	3/4
7	1,513.20	7	1,249.95	7	986.89	7	727.73	7	465.96	7	202.67	7		7	7	7		7	7
1/4	1,507.71	1/4	1,244.46	1/4	981.48	1/4	722.34	1/4	460.47	1/4	197.18	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,502.23	1/2	1,238.98	1/2	976.08	1/2	716.94	1/2	454.99	1/2	191.69	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,496.75	3/4	1,233.49	3/4	970.68	3/4	711.55	3/4	449.50	3/4	186.21	3/4		3/4	3/4	3/4		3/4	3/4
8	1,491.27	8	1,228.00	8	965.28	8	706.15	8	444.02	8	180.72	8		8	8	8		8	8
1/4	1,485.78	1/4	1,222.52	1/4	959.88	1/4	700.75	1/4	438.53	1/4	175.24	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,480.30	1/2	1,217.03	1/2	954.48	1/2	695.36	1/2	433.05	1/2	169.75	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,474.82	3/4	1,211.55	3/4	949.08	3/4	689.96	3/4	427.56	3/4	164.27	3/4		3/4	3/4	3/4		3/4	3/4
9	1,469.34	9	1,206.06	9	943.68	9	684.57	9	422.08	9	158.78	9		9	9	9		9	9
1/4	1,463.86	1/4	1,200.58	1/4	938.28	1/4	679.17	1/4	416.59	1/4	153.30	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,458.37	1/2	1,195.09	1/2	932.88	1/2	673.78	1/2	411.11	1/2	147.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,452.89	3/4	1,189.60	3/4	927.48	3/4	668.38	3/4	405.62	3/4	142.33	3/4		3/4	3/4	3/4		3/4	3/4
10	1,447.41	10	1,184.12	10	922.08	10	662.99	10	400.14	10	136.85	10		10	10	10		10	10
1/4	1,441.93	1/4	1,178.63	1/4	916.67	1/4	657.59	1/4	394.65	1/4	131.37	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,436.44	1/2	1,173.15	1/2	911.27	1/2	652.20	1/2	389.17	1/2	125.89	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,430.96	3/4	1,167.66	3/4	905.87	3/4	646.80	3/4	383.68	3/4	120.41	3/4		3/4	3/4	3/4		3/4	3/4
11	1,425.48	11	1,162.18	11	900.47	11	641.36	11	378.19	11	114.94	11		11	11	11		11	11
1/4	1,420.00	1/4	1,156.69	1/4	895.07	1/4	635.92	1/4	372.71	1/4	109.47	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,414.52	1/2	1,151.20	1/2	889.67	1/2	630.48	1/2	367.22	1/2	104.00	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,409.03	3/4	1,145.72	3/4	884.27	3/4	625.03	3/4	361.74	3/4	98.54	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2012 CL - SW  
CALCULATED: 08/15/2012 CL  
PRINTED: 08/15/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "KIRBY 10549"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/4"

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		0	3,241.96	0	2,981.88	0	2,721.79	0	2,461.29	0	2,199.80	0	1,938.31		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,236.55	1/4	2,976.46	1/4	2,716.37	1/4	2,455.84	1/4	2,194.35	1/4	1,932.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,456.23	1/2	3,231.13	1/2	2,971.04	1/2	2,710.95	1/2	2,450.40	1/2	2,188.91	1/2	1,927.42
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,455.32	3/4	3,225.71	3/4	2,965.62	3/4	2,705.53	3/4	2,444.95	3/4	2,183.46	3/4	1,921.97
1		1		1		1		1	3,454.41	1	3,220.29	1	2,960.20	1	2,700.11	1	2,439.50	1	2,178.01	1	1,916.52
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,453.51	1/4	3,214.87	1/4	2,954.78	1/4	2,694.70	1/4	2,434.05	1/4	2,172.56	1/4	1,911.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,452.60	1/2	3,209.45	1/2	2,949.37	1/2	2,689.28	1/2	2,428.61	1/2	2,167.12	1/2	1,905.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,449.87	3/4	3,204.04	3/4	2,943.95	3/4	2,683.86	3/4	2,423.16	3/4	2,161.67	3/4	1,900.18
2		2		2		2		2	3,447.15	2	3,176.62	2	2,938.53	2	2,678.44	2	2,417.71	2	2,156.22	2	1,894.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,444.42	1/4	3,193.20	1/4	2,933.11	1/4	2,673.02	1/4	2,412.26	1/4	2,150.77	1/4	1,889.28
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,441.70	1/2	3,187.78	1/2	2,927.69	1/2	2,667.60	1/2	2,406.82	1/2	2,145.33	1/2	1,883.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,437.28	3/4	3,182.36	3/4	2,922.27	3/4	2,662.19	3/4	2,401.37	3/4	2,139.88	3/4	1,878.39
3		3		3		3		3	3,432.87	3	3,176.94	3	2,916.85	3	2,656.77	3	2,395.92	3	2,134.43	3	1,872.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,428.46	1/4	3,171.52	1/4	2,911.44	1/4	2,651.35	1/4	2,390.47	1/4	2,128.98	1/4	1,867.49
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,424.04	1/2	3,166.11	1/2	2,906.02	1/2	2,645.93	1/2	2,385.02	1/2	2,123.53	1/2	1,862.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,418.76	3/4	3,160.69	3/4	2,900.60	3/4	2,640.51	3/4	2,379.58	3/4	2,118.09	3/4	1,856.60
4		4		4		4		4	3,413.48	4	3,155.27	4	2,895.18	4	2,635.09	4	2,374.13	4	2,112.64	4	1,851.15
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,408.20	1/4	3,149.85	1/4	2,889.76	1/4	2,629.67	1/4	2,368.68	1/4	2,107.19	1/4	1,845.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,402.93	1/2	3,144.43	1/2	2,884.34	1/2	2,624.26	1/2	2,363.23	1/2	2,101.74	1/2	1,840.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,397.61	3/4	3,139.01	3/4	2,878.93	3/4	2,618.84	3/4	2,357.79	3/4	2,096.30	3/4	1,834.81
5		5		5		5		5	3,392.30	5	3,133.59	5	2,873.51	5	2,613.42	5	2,352.34	5	2,090.85	5	1,829.36
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,386.99	1/4	3,128.18	1/4	2,868.09	1/4	2,608.00	1/4	2,346.89	1/4	2,085.40	1/4	1,823.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,381.68	1/2	3,122.76	1/2	2,862.67	1/2	2,602.58	1/2	2,341.44	1/2	2,079.95	1/2	1,818.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,376.36	3/4	3,117.34	3/4	2,857.25	3/4	2,597.16	3/4	2,335.99	3/4	2,074.51	3/4	1,813.02
6		6		6		6		6	3,371.03	6	3,111.92	6	2,851.83	6	2,591.74	6	2,330.55	6	2,069.06	6	1,807.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,365.71	1/4	3,106.50	1/4	2,846.41	1/4	2,586.33	1/4	2,325.10	1/4	2,063.61	1/4	1,802.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,360.38	1/2	3,101.08	1/2	2,841.00	1/2	2,580.91	1/2	2,319.65	1/2	2,058.16	1/2	1,796.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,355.06	3/4	3,095.67	3/4	2,835.58	3/4	2,575.49	3/4	2,314.20	3/4	2,052.71	3/4	1,791.22
7		7		7		7		7	3,349.74	7	3,090.25	7	2,830.16	7	2,570.07	7	2,308.76	7	2,047.27	7	1,785.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,344.42	1/4	3,084.83	1/4	2,824.74	1/4	2,564.65	1/4	2,303.31	1/4	2,041.82	1/4	1,780.33
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,339.10	1/2	3,079.41	1/2	2,819.32	1/2	2,559.23	1/2	2,297.86	1/2	2,036.37	1/2	1,774.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,333.78	3/4	3,073.99	3/4	2,813.90	3/4	2,553.82	3/4	2,292.41	3/4	2,030.92	3/4	1,769.43
8		8		8		8		8	3,328.46	8	3,068.57	8	2,808.48	8	2,548.40	8	2,286.97	8	2,025.48	8	1,763.99
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,323.14	1/4	3,063.15	1/4	2,803.07	1/4	2,542.98	1/4	2,281.52	1/4	2,020.03	1/4	1,758.54
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,317.82	1/2	3,057.74	1/2	2,797.65	1/2	2,537.56	1/2	2,276.07	1/2	2,014.58	1/2	1,753.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,312.41	3/4	3,052.32	3/4	2,792.23	3/4	2,532.11	3/4	2,270.62	3/4	2,009.13	3/4	1,747.64
9		9		9		9		9	3,306.99	9	3,046.90	9	2,786.81	9	2,526.66	9	2,265.17	9	2,003.69	9	1,742.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,301.57	1/4	3,041.48	1/4	2,781.39	1/4	2,521.22	1/4	2,259.73	1/4	1,998.24	1/4	1,736.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,296.15	1/2	3,036.06	1/2	2,775.97	1/2	2,515.77	1/2	2,254.28	1/2	1,992.79	1/2	1,731.30
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,290.73	3/4	3,030.64	3/4	2,770.56	3/4	2,510.32	3/4	2,248.83	3/4	1,987.34	3/4	1,725.85
10		10		10		10		10	3,285.31	10	3,025.22	10	2,765.14	10	2,504.87	10	2,243.38	10	1,981.89	10	1,720.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,279.89	1/4	3,019.81	1/4	2,759.72	1/4	2,499.43	1/4	2,237.94	1/4	1,976.45	1/4	1,714.96
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,274.48	1/2	3,014.39	1/2	2,754.30	1/2	2,493.98	1/2	2,232.49	1/2	1,971.00	1/2	1,709.51
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,269.06	3/4	3,008.97	3/4	2,748.88	3/4	2,488.53	3/4	2,227.04	3/4	1,965.55	3/4	1,704.06
11		11		11		11		11	3,263.64	11	3,003.55	11	2,743.46	11	2,483.08	11	2,221.59	11	1,960.10	11	1,698.61
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,258.22	1/4	2,998.13	1/4	2,738.04	1/4	2,477.64	1/4	2,216.15	1/4	1,954.66	1/4	1,693.17
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,252.80	1/2	2,992.71	1/2	2,732.63	1/2	2,472.19	1/2	2,210.70	1/2	1,949.21	1/2	1,687.72
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,247.38	3/4	2,987.30	3/4	2,727.21	3/4	2,466.74	3/4	2,205.25	3/4	1,943.76	3/4	1,682.27

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" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD.

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 10549"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,676.82	0	1,415.33	0	1,153.68	0	892.83	0	632.00	0	370.37	0	108.79	0		0		0	
1/4	1,671.38	1/4	1,409.89	1/4	1,148.23	1/4	887.41	1/4	626.55	1/4	364.92	1/4	103.35	1/4	1/4	1/4		1/4	1/4
1/2	1,665.93	1/2	1,404.44	1/2	1,142.78	1/2	882.00	1/2	621.10	1/2	359.47	1/2	97.92	1/2	1/2	1/2		1/2	1/2
3/4	1,660.48	3/4	1,398.99	3/4	1,137.33	3/4	876.58	3/4	615.65	3/4	354.02	3/4	92.50	3/4	3/4	3/4		3/4	3/4
1	1,655.03	1	1,393.54	1	1,131.88	1	871.17	1	610.20	1	348.57	1	87.09	1	1	1		1	1
1/4	1,649.58	1/4	1,388.08	1/4	1,126.43	1/4	865.75	1/4	604.75	1/4	343.12	1/4	81.67	1/4	1/4	1/4		1/4	1/4
1/2	1,644.14	1/2	1,382.63	1/2	1,120.98	1/2	860.34	1/2	599.30	1/2	337.66	1/2	76.25	1/2	1/2	1/2		1/2	1/2
3/4	1,638.69	3/4	1,377.18	3/4	1,115.52	3/4	854.92	3/4	593.85	3/4	332.21	3/4	70.87	3/4	3/4	3/4		3/4	3/4
2	1,633.24	2	1,371.73	2	1,110.07	2	849.51	2	588.40	2	326.76	2	65.48	2	2	2		2	2
1/4	1,627.79	1/4	1,366.28	1/4	1,104.62	1/4	844.09	1/4	582.95	1/4	321.31	1/4	60.09	1/4	1/4	1/4		1/4	1/4
1/2	1,622.35	1/2	1,360.83	1/2	1,099.17	1/2	838.68	1/2	577.50	1/2	315.86	1/2	54.70	1/2	1/2	1/2		1/2	1/2
3/4	1,616.90	3/4	1,355.38	3/4	1,093.72	3/4	833.26	3/4	572.05	3/4	310.41	3/4	49.36	3/4	3/4	3/4		3/4	3/4
3	1,611.45	3	1,349.93	3	1,088.27	3	827.85	3	566.60	3	304.96	3	44.03	3	3	3		3	3
1/4	1,606.00	1/4	1,344.48	1/4	1,082.82	1/4	822.43	1/4	561.15	1/4	299.51	1/4	38.69	1/4	1/4	1/4		1/4	1/4
1/2	1,600.56	1/2	1,339.02	1/2	1,077.37	1/2	817.02	1/2	555.70	1/2	294.06	1/2	33.35	1/2	1/2	1/2		1/2	1/2
3/4	1,595.11	3/4	1,333.57	3/4	1,071.92	3/4	811.61	3/4	550.25	3/4	288.61	3/4	28.82	3/4	3/4	3/4		3/4	3/4
4	1,589.66	4	1,328.12	4	1,066.46	4	806.20	4	544.79	4	283.16	4	24.28	4	4	4		4	4
1/4	1,584.21	1/4	1,322.67	1/4	1,061.01	1/4	800.79	1/4	539.34	1/4	277.71	1/4	19.75	1/4	1/4	1/4		1/4	1/4
1/2	1,578.76	1/2	1,317.22	1/2	1,055.56	1/2	795.38	1/2	533.89	1/2	272.25	1/2	15.21	1/2	1/2	1/2		1/2	1/2
3/4	1,573.32	3/4	1,311.77	3/4	1,050.11	3/4	789.93	3/4	528.44	3/4	266.80	3/4	12.49	3/4	3/4	3/4		3/4	3/4
5	1,567.87	5	1,306.32	5	1,044.66	5	784.49	5	522.99	5	261.35	5	9.76	5	5	5		5	5
1/4	1,562.42	1/4	1,300.87	1/4	1,039.21	1/4	779.04	1/4	517.54	1/4	255.90	1/4	7.04	1/4	1/4	1/4		1/4	1/4
1/2	1,556.97	1/2	1,295.41	1/2	1,033.76	1/2	773.60	1/2	512.09	1/2	250.45	1/2	4.31	1/2	1/2	1/2		1/2	1/2
3/4	1,551.53	3/4	1,289.96	3/4	1,028.31	3/4	768.15	3/4	506.64	3/4	245.00	3/4	3.40	3/4	3/4	3/4		3/4	3/4
6	1,546.08	6	1,284.51	6	1,022.85	6	762.71	6	501.19	6	239.55	6	2.49	6	6	6		6	6
1/4	1,540.63	1/4	1,279.06	1/4	1,017.40	1/4	757.26	1/4	495.74	1/4	234.10	1/4	1.59	1/4	1/4	1/4		1/4	1/4
1/2	1,535.18	1/2	1,273.61	1/2	1,011.95	1/2	751.81	1/2	490.29	1/2	228.65	1/2	0.68	1/2	1/2	1/2		1/2	1/2
3/4	1,529.74	3/4	1,268.16	3/4	1,006.54	3/4	746.37	3/4	484.84	3/4	223.20	3/4		3/4	3/4	3/4		3/4	3/4
7	1,524.29	7	1,262.71	7	1,001.12	7	740.92	7	479.39	7	217.75	7		7	7	7		7	7
1/4	1,518.84	1/4	1,257.26	1/4	995.71	1/4	735.48	1/4	473.93	1/4	212.30	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,513.39	1/2	1,251.80	1/2	990.29	1/2	730.03	1/2	468.48	1/2	206.85	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,507.94	3/4	1,246.35	3/4	984.88	3/4	724.59	3/4	463.03	3/4	201.39	3/4		3/4	3/4	3/4		3/4	3/4
8	1,502.50	8	1,240.90	8	979.46	8	719.14	8	457.58	8	195.94	8		8	8	8		8	8
1/4	1,497.05	1/4	1,235.45	1/4	974.05	1/4	713.69	1/4	452.13	1/4	190.49	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,491.60	1/2	1,230.00	1/2	968.63	1/2	708.25	1/2	446.68	1/2	185.04	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,486.15	3/4	1,224.55	3/4	963.22	3/4	702.80	3/4	441.23	3/4	179.59	3/4		3/4	3/4	3/4		3/4	3/4
9	1,480.71	9	1,219.10	9	957.80	9	697.36	9	435.78	9	174.14	9		9	9	9		9	9
1/4	1,475.26	1/4	1,213.65	1/4	952.39	1/4	691.91	1/4	430.33	1/4	168.69	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,469.81	1/2	1,208.20	1/2	946.97	1/2	686.46	1/2	424.88	1/2	163.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,464.36	3/4	1,202.74	3/4	941.56	3/4	681.02	3/4	419.43	3/4	157.79	3/4		3/4	3/4	3/4		3/4	3/4
10	1,458.92	10	1,197.29	10	936.14	10	675.57	10	413.98	10	152.34	10		10	10	10		10	10
1/4	1,453.47	1/4	1,191.84	1/4	930.73	1/4	670.13	1/4	408.52	1/4	146.89	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,448.02	1/2	1,186.39	1/2	925.32	1/2	664.68	1/2	403.07	1/2	141.44	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,442.57	3/4	1,180.94	3/4	919.90	3/4	659.24	3/4	397.62	3/4	135.99	3/4		3/4	3/4	3/4		3/4	3/4
11	1,437.12	11	1,175.49	11	914.49	11	653.79	11	392.17	11	130.55	11		11	11	11		11	11
1/4	1,431.68	1/4	1,170.04	1/4	909.07	1/4	648.35	1/4	386.72	1/4	125.10	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,426.23	1/2	1,164.59	1/2	903.66	1/2	642.90	1/2	381.27	1/2	119.66	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,420.78	3/4	1,159.13	3/4	898.24	3/4	637.45	3/4	375.82	3/4	114.22	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/15/2012 CL - SW  
CALCULATED: 08/15/2012 CL  
PRINTED: 08/15/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

PRECISION MEASUREMENT  
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