



# BARGE "DBL 97"

## 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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 CENTER	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 CENTER	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8

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

LENGTH BETWEEN DRAFT MARKS: 159'-00"

August 1, 2013

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

<http://www.pmacorp.net>



# BARGE "DBL 97"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-11 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
1/4		1/4		1/4		1/4		1/4		1/4	143,563	1/4		1/4	134,224	1/4		1/4	124,853
1/2		1/2		1/2		1/2		1/2		1/2	143,370	1/2		1/2	134,029	1/2		1/2	124,658
3/4		3/4		3/4		3/4		3/4		3/4	143,176	3/4		3/4	133,834	3/4		3/4	124,463
<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>150,957</b>	<b>1</b>	<b>142,790</b>	<b>1</b>	<b>133,443</b>	<b>1</b>	<b>124,072</b>	<b>1</b>	<b>114,702</b>	<b>1</b>	<b>104,807</b>
1/4		1/4		1/4		1/4		1/4		1/4	150,935	1/4		1/4	133,248	1/4		1/4	123,877
1/2		1/2		1/2		1/2		1/2		1/2	150,912	1/2		1/2	133,053	1/2		1/2	123,682
3/4		3/4		3/4		3/4		3/4		3/4	150,857	3/4		3/4	132,858	3/4		3/4	123,487
<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>150,801</b>	<b>2</b>	<b>142,016</b>	<b>2</b>	<b>132,662</b>	<b>2</b>	<b>123,291</b>	<b>2</b>	<b>113,921</b>	<b>2</b>	<b>103,910</b>
1/4		1/4		1/4		1/4		1/4		1/4	150,745	1/4		1/4	132,467	1/4		1/4	123,096
1/2		1/2		1/2		1/2		1/2		1/2	150,690	1/2		1/2	132,272	1/2		1/2	122,901
3/4		3/4		3/4		3/4		3/4		3/4	150,544	3/4		3/4	132,077	3/4		3/4	122,706
<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>150,398</b>	<b>3</b>	<b>141,242</b>	<b>3</b>	<b>131,881</b>	<b>3</b>	<b>122,511</b>	<b>3</b>	<b>113,140</b>	<b>3</b>	<b>103,014</b>
1/4		1/4		1/4		1/4		1/4		1/4	150,253	1/4		1/4	131,686	1/4		1/4	122,315
1/2		1/2		1/2		1/2		1/2		1/2	150,107	1/2		1/2	131,491	1/2		1/2	122,120
3/4		3/4		3/4		3/4		3/4		3/4	149,916	3/4		3/4	131,296	3/4		3/4	121,925
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>149,726</b>	<b>4</b>	<b>140,468</b>	<b>4</b>	<b>131,101</b>	<b>4</b>	<b>121,730</b>	<b>4</b>	<b>112,359</b>	<b>4</b>	<b>102,117</b>
1/4		1/4		1/4		1/4		1/4		1/4	149,535	1/4		1/4	130,905	1/4		1/4	121,534
1/2		1/2		1/2		1/2		1/2		1/2	149,345	1/2		1/2	130,710	1/2		1/2	121,339
3/4		3/4		3/4		3/4		3/4		3/4	149,154	3/4		3/4	130,515	3/4		3/4	121,144
<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>148,963</b>	<b>5</b>	<b>139,690</b>	<b>5</b>	<b>130,320</b>	<b>5</b>	<b>120,949</b>	<b>5</b>	<b>111,578</b>	<b>5</b>	<b>101,221</b>
1/4		1/4		1/4		1/4		1/4		1/4	148,773	1/4		1/4	130,124	1/4		1/4	120,754
1/2		1/2		1/2		1/2		1/2		1/2	148,582	1/2		1/2	129,929	1/2		1/2	120,558
3/4		3/4		3/4		3/4		3/4		3/4	148,392	3/4		3/4	129,734	3/4		3/4	120,363
<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>148,201</b>	<b>6</b>	<b>138,910</b>	<b>6</b>	<b>129,539</b>	<b>6</b>	<b>120,168</b>	<b>6</b>	<b>110,797</b>	<b>6</b>	<b>100,325</b>
1/4		1/4		1/4		1/4		1/4		1/4	148,010	1/4		1/4	129,343	1/4		1/4	119,973
1/2		1/2		1/2		1/2		1/2		1/2	147,820	1/2		1/2	129,148	1/2		1/2	119,777
3/4		3/4		3/4		3/4		3/4		3/4	147,626	3/4		3/4	128,953	3/4		3/4	119,582
<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>147,433</b>	<b>7</b>	<b>138,129</b>	<b>7</b>	<b>128,758</b>	<b>7</b>	<b>119,387</b>	<b>7</b>	<b>110,016</b>	<b>7</b>	<b>99,428</b>
1/4		1/4		1/4		1/4		1/4		1/4	147,239	1/4		1/4	128,563	1/4		1/4	119,192
1/2		1/2		1/2		1/2		1/2		1/2	147,046	1/2		1/2	128,367	1/2		1/2	118,997
3/4		3/4		3/4		3/4		3/4		3/4	146,852	3/4		3/4	128,172	3/4		3/4	118,801
<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>146,659</b>	<b>8</b>	<b>137,348</b>	<b>8</b>	<b>127,977</b>	<b>8</b>	<b>118,606</b>	<b>8</b>	<b>109,235</b>	<b>8</b>	<b>98,532</b>
1/4		1/4		1/4		1/4		1/4		1/4	146,466	1/4		1/4	127,782	1/4		1/4	118,411
1/2		1/2		1/2		1/2		1/2		1/2	146,272	1/2		1/2	127,586	1/2		1/2	118,216
3/4		3/4		3/4		3/4		3/4		3/4	146,079	3/4		3/4	127,391	3/4		3/4	118,020
<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>145,885</b>	<b>9</b>	<b>136,567</b>	<b>9</b>	<b>127,196</b>	<b>9</b>	<b>117,825</b>	<b>9</b>	<b>108,396</b>	<b>9</b>	<b>97,636</b>
1/4		1/4		1/4		1/4		1/4		1/4	145,692	1/4		1/4	127,001	1/4		1/4	117,630
1/2		1/2		1/2		1/2		1/2		1/2	145,498	1/2		1/2	126,806	1/2		1/2	117,435
3/4		3/4		3/4		3/4		3/4		3/4	145,305	3/4		3/4	126,610	3/4		3/4	117,240
<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>145,111</b>	<b>10</b>	<b>135,786</b>	<b>10</b>	<b>126,415</b>	<b>10</b>	<b>117,044</b>	<b>10</b>	<b>107,497</b>	<b>10</b>	<b>96,739</b>
1/4		1/4		1/4		1/4		1/4		1/4	144,918	1/4		1/4	126,220	1/4		1/4	116,849
1/2		1/2		1/2		1/2		1/2		1/2	144,724	1/2		1/2	126,025	1/2		1/2	116,654
3/4		3/4		3/4		3/4		3/4		3/4	144,531	3/4		3/4	125,829	3/4		3/4	116,459
<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>144,337</b>	<b>11</b>	<b>135,005</b>	<b>11</b>	<b>125,634</b>	<b>11</b>	<b>116,263</b>	<b>11</b>	<b>106,599</b>	<b>11</b>	<b>95,843</b>
1/4		1/4		1/4		1/4		1/4		1/4	144,144	1/4		1/4	125,439	1/4		1/4	116,068
1/2		1/2		1/2		1/2		1/2		1/2	143,950	1/2		1/2	125,244	1/2		1/2	115,873
3/4		3/4		3/4		3/4		3/4		3/4	143,757	3/4		3/4	125,049	3/4		3/4	115,678

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 26'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "DBL 97"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-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	94,946	0	84,190	0	73,429	0	62,668	0	51,907	0	41,257	0	30,501	0	19,744	0	9,227	0	
1/4	94,722	1/4	83,966	1/4	73,205	1/4	62,444	1/4	51,683	1/4	41,033	1/4	30,277	1/4	19,520	1/4	9,003	1/4	
1/2	94,498	1/2	83,741	1/2	72,981	1/2	62,220	1/2	51,459	1/2	40,809	1/2	30,053	1/2	19,296	1/2	8,778	1/2	
3/4	94,274	3/4	83,517	3/4	72,757	3/4	61,996	3/4	51,234	3/4	40,585	3/4	29,829	3/4	19,078	3/4	8,554	3/4	
1	94,050	1	83,293	1	72,532	1	61,771	1	51,010	1	40,361	1	29,604	1	18,860	1	8,330	1	
1/4	93,826	1/4	83,069	1/4	72,308	1/4	61,547	1/4	50,786	1/4	40,137	1/4	29,380	1/4	18,642	1/4	8,106	1/4	
1/2	93,602	1/2	82,845	1/2	72,084	1/2	61,323	1/2	50,562	1/2	39,913	1/2	29,156	1/2	18,424	1/2	7,882	1/2	
3/4	93,378	3/4	82,621	3/4	71,860	3/4	61,099	3/4	50,339	3/4	39,688	3/4	28,932	3/4	18,206	3/4	7,658	3/4	
2	93,154	2	82,397	2	71,636	2	60,875	2	50,117	2	39,464	2	28,708	2	17,988	2	7,434	2	
1/4	92,929	1/4	82,173	1/4	71,411	1/4	60,650	1/4	49,894	1/4	39,240	1/4	28,484	1/4	17,769	1/4	7,210	1/4	
1/2	92,705	1/2	81,948	1/2	71,187	1/2	60,426	1/2	49,671	1/2	39,016	1/2	28,260	1/2	17,551	1/2	6,986	1/2	
3/4	92,481	3/4	81,724	3/4	70,963	3/4	60,202	3/4	49,449	3/4	38,792	3/4	28,036	3/4	17,333	3/4	6,762	3/4	
3	92,257	3	81,500	3	70,739	3	59,978	3	49,226	3	38,568	3	27,812	3	17,115	3	6,537	3	
1/4	92,033	1/4	81,276	1/4	70,515	1/4	59,754	1/4	49,004	1/4	38,344	1/4	27,588	1/4	16,897	1/4	6,313	1/4	
1/2	91,809	1/2	81,052	1/2	70,291	1/2	59,529	1/2	48,781	1/2	38,120	1/2	27,364	1/2	16,679	1/2	6,089	1/2	
3/4	91,585	3/4	80,827	3/4	70,066	3/4	59,305	3/4	48,560	3/4	37,896	3/4	27,139	3/4	16,461	3/4	5,865	3/4	
4	91,361	4	80,603	4	69,842	4	59,081	4	48,339	4	37,672	4	26,915	4	16,243	4	5,641	4	
1/4	91,137	1/4	80,379	1/4	69,618	1/4	58,857	1/4	48,118	1/4	37,448	1/4	26,691	1/4	16,024	1/4	5,416	1/4	
1/2	90,913	1/2	80,155	1/2	69,394	1/2	58,633	1/2	47,897	1/2	37,223	1/2	26,467	1/2	15,806	1/2	5,192	1/2	
3/4	90,688	3/4	79,931	3/4	69,170	3/4	58,409	3/4	47,675	3/4	36,999	3/4	26,243	3/4	15,588	3/4	4,968	3/4	
5	90,464	5	79,706	5	68,945	5	58,184	5	47,454	5	36,775	5	26,019	5	15,370	5	4,744	5	
1/4	90,240	1/4	79,482	1/4	68,721	1/4	57,960	1/4	47,233	1/4	36,551	1/4	25,795	1/4	15,152	1/4	4,519	1/4	
1/2	90,016	1/2	79,258	1/2	68,497	1/2	57,736	1/2	47,012	1/2	36,327	1/2	25,571	1/2	14,934	1/2	4,295	1/2	
3/4	89,792	3/4	79,034	3/4	68,273	3/4	57,512	3/4	46,791	3/4	36,103	3/4	25,347	3/4	14,716	3/4	4,071	3/4	
6	89,568	6	78,810	6	68,049	6	57,288	6	46,570	6	35,879	6	25,123	6	14,498	6	3,847	6	
1/4	89,344	1/4	78,586	1/4	67,824	1/4	57,063	1/4	46,349	1/4	35,655	1/4	24,899	1/4	14,279	1/4	3,622	1/4	
1/2	89,120	1/2	78,361	1/2	67,600	1/2	56,839	1/2	46,128	1/2	35,431	1/2	24,674	1/2	14,061	1/2	3,398	1/2	
3/4	88,896	3/4	78,137	3/4	67,376	3/4	56,615	3/4	45,906	3/4	35,207	3/4	24,450	3/4	13,843	3/4	3,173	3/4	
7	88,672	7	77,913	7	67,152	7	56,391	7	45,685	7	34,983	7	24,226	7	13,625	7	2,949	7	
1/4	88,448	1/4	77,689	1/4	66,928	1/4	56,167	1/4	45,464	1/4	34,758	1/4	24,002	1/4	13,407	1/4	2,724	1/4	
1/2	88,223	1/2	77,465	1/2	66,704	1/2	55,942	1/2	45,243	1/2	34,534	1/2	23,778	1/2	13,189	1/2	2,499	1/2	
3/4	87,999	3/4	77,240	3/4	66,479	3/4	55,718	3/4	45,022	3/4	34,310	3/4	23,554	3/4	12,971	3/4	2,275	3/4	
8	87,775	8	77,016	8	66,255	8	55,494	8	44,801	8	34,086	8	23,330	8	12,753	8	2,050	8	
1/4	87,551	1/4	76,792	1/4	66,031	1/4	55,270	1/4	44,580	1/4	33,862	1/4	23,106	1/4	12,535	1/4	1,825	1/4	
1/2	87,327	1/2	76,568	1/2	65,807	1/2	55,046	1/2	44,359	1/2	33,638	1/2	22,882	1/2	12,317	1/2	1,600	1/2	
3/4	87,103	3/4	76,344	3/4	65,583	3/4	54,822	3/4	44,138	3/4	33,414	3/4	22,658	3/4	12,099	3/4	1,387	3/4	
9	86,879	9	76,119	9	65,358	9	54,597	9	43,916	9	33,190	9	22,434	9	11,881	9	1,173	9	
1/4	86,655	1/4	75,895	1/4	65,134	1/4	54,373	1/4	43,695	1/4	32,966	1/4	22,209	1/4	11,662	1/4	960	1/4	
1/2	86,431	1/2	75,671	1/2	64,910	1/2	54,149	1/2	43,474	1/2	32,742	1/2	21,985	1/2	11,444	1/2	746	1/2	
3/4	86,207	3/4	75,447	3/4	64,686	3/4	53,925	3/4	43,253	3/4	32,518	3/4	21,761	3/4	11,226	3/4	611	3/4	
10	85,982	10	75,223	10	64,462	10	53,701	10	43,032	10	32,293	10	21,537	10	11,008	10	477	10	
1/4	85,758	1/4	74,998	1/4	64,237	1/4	53,476	1/4	42,811	1/4	32,069	1/4	21,313	1/4	10,790	1/4	342	1/4	
1/2	85,534	1/2	74,774	1/2	64,013	1/2	53,252	1/2	42,590	1/2	31,845	1/2	21,089	1/2	10,571	1/2	207	1/2	
3/4	85,310	3/4	74,550	3/4	63,789	3/4	53,028	3/4	42,369	3/4	31,621	3/4	20,865	3/4	10,347	3/4	162	3/4	
11	85,086	11	74,326	11	63,565	11	52,804	11	42,147	11	31,397	11	20,641	11	10,123	11	117	11	
1/4	84,862	1/4	74,102	1/4	63,341	1/4	52,580	1/4	41,926	1/4	31,173	1/4	20,417	1/4	9,899	1/4	72	1/4	
1/2	84,638	1/2	73,878	1/2	63,116	1/2	52,355	1/2	41,705	1/2	30,949	1/2	20,193	1/2	9,675	1/2	27	1/2	
3/4	84,414	3/4	73,653	3/4	62,892	3/4	52,131	3/4	41,481	3/4	30,725	3/4	19,969	3/4	9,451	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "DBL 97"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-11 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		166,379	0	154,370	0	142,321	0	130,272	0	118,224		
1/4		1/4		1/4		1/4		1/4		166,130	1/4	154,119	1/4	142,070	1/4	130,021	1/4	117,973		
1/2		1/2		1/2		1/2		1/2		165,882	1/2	153,868	1/2	141,819	1/2	129,770	1/2	117,722		
3/4		3/4		3/4		3/4		3/4		176,255	3/4	165,633	3/4	153,617	3/4	141,568	3/4	129,519	3/4	117,471
1		1		1		1		1		176,230	1	165,384	1	153,366	1	141,317	1	129,268	1	117,220
1/4		1/4		1/4		1/4		1/4		176,205	1/4	165,136	1/4	153,115	1/4	141,066	1/4	129,017	1/4	116,969
1/2		1/2		1/2		1/2		1/2		176,110	1/2	164,887	1/2	152,864	1/2	140,815	1/2	128,766	1/2	116,718
3/4		3/4		3/4		3/4		3/4		176,015	3/4	164,638	3/4	152,613	3/4	140,564	3/4	128,515	3/4	116,467
2		2		2		2		2		175,921	2	164,390	2	152,362	2	140,313	2	128,264	2	116,216
1/4		1/4		1/4		1/4		1/4		175,826	1/4	164,141	1/4	152,111	1/4	140,062	1/4	128,013	1/4	115,965
1/2		1/2		1/2		1/2		1/2		175,631	1/2	163,892	1/2	151,860	1/2	139,811	1/2	127,762	1/2	115,713
3/4		3/4		3/4		3/4		3/4		175,435	3/4	163,644	3/4	151,609	3/4	139,560	3/4	127,511	3/4	115,462
3		3		3		3		3		175,240	3	163,395	3	151,358	3	139,309	3	127,260	3	115,211
1/4		1/4		1/4		1/4		1/4		175,045	1/4	163,146	1/4	151,107	1/4	139,058	1/4	127,009	1/4	114,960
1/2		1/2		1/2		1/2		1/2		174,799	1/2	162,897	1/2	150,856	1/2	138,807	1/2	126,758	1/2	114,709
3/4		3/4		3/4		3/4		3/4		174,554	3/4	162,649	3/4	150,605	3/4	138,556	3/4	126,507	3/4	114,458
4		4		4		4		4		174,308	4	162,400	4	150,354	4	138,305	4	126,256	4	114,207
1/4		1/4		1/4		1/4		1/4		174,063	1/4	162,151	1/4	150,103	1/4	138,054	1/4	126,005	1/4	113,956
1/2		1/2		1/2		1/2		1/2		173,817	1/2	161,900	1/2	149,852	1/2	137,803	1/2	125,754	1/2	113,705
3/4		3/4		3/4		3/4		3/4		173,572	3/4	161,649	3/4	149,601	3/4	137,552	3/4	125,503	3/4	113,454
5		5		5		5		5		173,326	5	161,398	5	149,350	5	137,301	5	125,252	5	113,203
1/4		1/4		1/4		1/4		1/4		173,081	1/4	161,147	1/4	149,099	1/4	137,050	1/4	125,001	1/4	112,952
1/2		1/2		1/2		1/2		1/2		172,835	1/2	160,896	1/2	148,848	1/2	136,799	1/2	124,750	1/2	112,701
3/4		3/4		3/4		3/4		3/4		172,590	3/4	160,645	3/4	148,597	3/4	136,548	3/4	124,499	3/4	112,450
6		6		6		6		6		172,344	6	160,394	6	148,346	6	136,297	6	124,248	6	112,199
1/4		1/4		1/4		1/4		1/4		172,099	1/4	160,143	1/4	148,095	1/4	136,046	1/4	124,997	1/4	111,948
1/2		1/2		1/2		1/2		1/2		171,850	1/2	159,892	1/2	147,844	1/2	135,795	1/2	123,746	1/2	111,697
3/4		3/4		3/4		3/4		3/4		171,602	3/4	159,641	3/4	147,592	3/4	135,544	3/4	123,495	3/4	111,446
7		7		7		7		7		171,353	7	159,390	7	147,341	7	135,293	7	123,244	7	111,195
1/4		1/4		1/4		1/4		1/4		171,104	1/4	159,139	1/4	147,090	1/4	135,042	1/4	122,993	1/4	110,944
1/2		1/2		1/2		1/2		1/2		170,856	1/2	158,888	1/2	146,839	1/2	134,791	1/2	122,742	1/2	110,693
3/4		3/4		3/4		3/4		3/4		170,607	3/4	158,637	3/4	146,588	3/4	134,540	3/4	122,491	3/4	110,442
8		8		8		8		8		170,358	8	158,386	8	146,337	8	134,289	8	122,240	8	110,191
1/4		1/4		1/4		1/4		1/4		170,109	1/4	158,135	1/4	146,086	1/4	134,038	1/4	121,989	1/4	109,940
1/2		1/2		1/2		1/2		1/2		169,861	1/2	157,884	1/2	145,835	1/2	133,787	1/2	121,738	1/2	109,689
3/4		3/4		3/4		3/4		3/4		169,612	3/4	157,633	3/4	145,584	3/4	133,536	3/4	121,487	3/4	109,438
9		9		9		9		9		169,363	9	157,382	9	145,333	9	133,285	9	121,236	9	109,187
1/4		1/4		1/4		1/4		1/4		169,115	1/4	157,131	1/4	145,082	1/4	133,034	1/4	120,985	1/4	108,936
1/2		1/2		1/2		1/2		1/2		168,866	1/2	156,880	1/2	144,831	1/2	132,783	1/2	120,734	1/2	108,685
3/4		3/4		3/4		3/4		3/4		168,617	3/4	156,629	3/4	144,580	3/4	132,532	3/4	120,483	3/4	108,434
10		10		10		10		10		168,369	10	156,378	10	144,329	10	132,281	10	120,232	10	108,183
1/4		1/4		1/4		1/4		1/4		168,120	1/4	156,127	1/4	144,078	1/4	132,030	1/4	119,981	1/4	107,932
1/2		1/2		1/2		1/2		1/2		167,871	1/2	155,876	1/2	143,827	1/2	131,778	1/2	119,730	1/2	107,681
3/4		3/4		3/4		3/4		3/4		167,623	3/4	155,625	3/4	143,576	3/4	131,527	3/4	119,479	3/4	107,430
11		11		11		11		11		167,374	11	155,374	11	143,325	11	131,276	11	119,228	11	107,179
1/4		1/4		1/4		1/4		1/4		167,125	1/4	155,123	1/4	143,074	1/4	131,025	1/4	118,977	1/4	106,928
1/2		1/2		1/2		1/2		1/2		166,876	1/2	154,872	1/2	142,823	1/2	130,774	1/2	118,726	1/2	106,677
3/4		3/4		3/4		3/4		3/4		166,628	3/4	154,621	3/4	142,572	3/4	130,523	3/4	118,475	3/4	106,426

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 30'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "DBL 97"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-11 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	106,175	0	94,126	0	82,072	0	70,018	0	57,963	0	45,909	0	33,854	0	21,799	0	10,070	0	
1/4	105,924	1/4	93,875	1/4	81,821	1/4	69,767	1/4	57,712	1/4	45,657	1/4	33,603	1/4	21,548	1/4	9,819	1/4	
1/2	105,673	1/2	93,624	1/2	81,570	1/2	69,515	1/2	57,461	1/2	45,406	1/2	33,352	1/2	21,305	1/2	9,568	1/2	
3/4	105,422	3/4	93,373	3/4	81,319	3/4	69,264	3/4	57,210	3/4	45,155	3/4	33,101	3/4	21,062	3/4	9,317	3/4	
1	105,171	1	93,122	1	81,068	1	69,013	1	56,959	1	44,904	1	32,849	1	20,820	1	9,066	1	
1/4	104,920	1/4	92,871	1/4	80,817	1/4	68,762	1/4	56,707	1/4	44,653	1/4	32,598	1/4	20,577	1/4	8,815	1/4	
1/2	104,669	1/2	92,620	1/2	80,565	1/2	68,511	1/2	56,456	1/2	44,402	1/2	32,347	1/2	20,334	1/2	8,564	1/2	
3/4	104,418	3/4	92,369	3/4	80,314	3/4	68,260	3/4	56,205	3/4	44,151	3/4	32,096	3/4	20,091	3/4	8,313	3/4	
2	104,167	2	92,118	2	80,063	2	68,009	2	55,954	2	43,899	2	31,845	2	19,848	2	8,062	2	
1/4	103,916	1/4	91,867	1/4	79,812	1/4	67,757	1/4	55,703	1/4	43,648	1/4	31,594	1/4	19,605	1/4	7,811	1/4	
1/2	103,665	1/2	91,615	1/2	79,561	1/2	67,506	1/2	55,452	1/2	43,397	1/2	31,343	1/2	19,362	1/2	7,560	1/2	
3/4	103,414	3/4	91,364	3/4	79,310	3/4	67,255	3/4	55,201	3/4	43,146	3/4	31,092	3/4	19,119	3/4	7,309	3/4	
3	103,163	3	91,113	3	79,059	3	67,004	3	54,949	3	42,895	3	30,840	3	18,876	3	7,058	3	
1/4	102,912	1/4	90,862	1/4	78,807	1/4	66,753	1/4	54,698	1/4	42,644	1/4	30,589	1/4	18,633	1/4	6,807	1/4	
1/2	102,661	1/2	90,611	1/2	78,556	1/2	66,502	1/2	54,447	1/2	42,393	1/2	30,338	1/2	18,390	1/2	6,556	1/2	
3/4	102,410	3/4	90,360	3/4	78,305	3/4	66,251	3/4	54,196	3/4	42,142	3/4	30,087	3/4	18,147	3/4	6,305	3/4	
4	102,159	4	90,109	4	78,054	4	65,999	4	53,945	4	41,890	4	29,836	4	17,904	4	6,054	4	
1/4	101,908	1/4	89,857	1/4	77,803	1/4	65,748	1/4	53,694	1/4	41,639	1/4	29,585	1/4	17,661	1/4	5,803	1/4	
1/2	101,657	1/2	89,606	1/2	77,552	1/2	65,497	1/2	53,443	1/2	41,388	1/2	29,334	1/2	17,418	1/2	5,552	1/2	
3/4	101,406	3/4	89,355	3/4	77,301	3/4	65,246	3/4	53,192	3/4	41,137	3/4	29,082	3/4	17,175	3/4	5,301	3/4	
5	101,155	5	89,104	5	77,049	5	64,995	5	52,940	5	40,886	5	28,831	5	16,932	5	5,050	5	
1/4	100,904	1/4	88,853	1/4	76,798	1/4	64,744	1/4	52,689	1/4	40,635	1/4	28,580	1/4	16,690	1/4	4,798	1/4	
1/2	100,653	1/2	88,602	1/2	76,547	1/2	64,493	1/2	52,438	1/2	40,384	1/2	28,329	1/2	16,447	1/2	4,547	1/2	
3/4	100,402	3/4	88,351	3/4	76,296	3/4	64,242	3/4	52,187	3/4	40,132	3/4	28,078	3/4	16,204	3/4	4,296	3/4	
6	100,151	6	88,099	6	76,045	6	63,990	6	51,936	6	39,881	6	27,827	6	15,961	6	4,045	6	
1/4	99,900	1/4	87,848	1/4	75,794	1/4	63,739	1/4	51,685	1/4	39,630	1/4	27,576	1/4	15,718	1/4	3,794	1/4	
1/2	99,648	1/2	87,597	1/2	75,543	1/2	63,488	1/2	51,434	1/2	39,379	1/2	27,324	1/2	15,475	1/2	3,543	1/2	
3/4	99,397	3/4	87,346	3/4	75,292	3/4	63,237	3/4	51,182	3/4	39,128	3/4	27,073	3/4	15,232	3/4	3,292	3/4	
7	99,146	7	87,095	7	75,040	7	62,986	7	50,931	7	38,877	7	26,822	7	14,989	7	3,041	7	
1/4	98,895	1/4	86,844	1/4	74,789	1/4	62,735	1/4	50,680	1/4	38,626	1/4	26,571	1/4	14,746	1/4	2,789	1/4	
1/2	98,644	1/2	86,593	1/2	74,538	1/2	62,484	1/2	50,429	1/2	38,374	1/2	26,320	1/2	14,503	1/2	2,538	1/2	
3/4	98,393	3/4	86,342	3/4	74,287	3/4	62,232	3/4	50,178	3/4	38,123	3/4	26,069	3/4	14,260	3/4	2,287	3/4	
8	98,142	8	86,090	8	74,036	8	61,981	8	49,927	8	37,872	8	25,818	8	14,018	8	2,036	8	
1/4	97,891	1/4	85,839	1/4	73,785	1/4	61,730	1/4	49,676	1/4	37,621	1/4	25,567	1/4	13,775	1/4	1,785	1/4	
1/2	97,640	1/2	85,588	1/2	73,534	1/2	61,479	1/2	49,424	1/2	37,370	1/2	25,315	1/2	13,531	1/2	1,546	1/2	
3/4	97,389	3/4	85,337	3/4	73,282	3/4	61,228	3/4	49,173	3/4	37,119	3/4	25,064	3/4	13,288	3/4	1,308	3/4	
9	97,138	9	85,086	9	73,031	9	60,977	9	48,922	9	36,868	9	24,813	9	13,044	9	1,069	9	
1/4	96,887	1/4	84,835	1/4	72,780	1/4	60,726	1/4	48,671	1/4	36,617	1/4	24,562	1/4	12,801	1/4	831	1/4	
1/2	96,636	1/2	84,584	1/2	72,529	1/2	60,474	1/2	48,420	1/2	36,365	1/2	24,311	1/2	12,558	1/2	680	1/2	
3/4	96,385	3/4	84,332	3/4	72,278	3/4	60,223	3/4	48,169	3/4	36,114	3/4	24,060	3/4	12,314	3/4	529	3/4	
10	96,134	10	84,081	10	72,027	10	59,972	10	47,918	10	35,863	10	23,809	10	12,071	10	379	10	
1/4	95,883	1/4	83,830	1/4	71,776	1/4	59,721	1/4	47,667	1/4	35,612	1/4	23,557	1/4	11,827	1/4	228	1/4	
1/2	95,632	1/2	83,579	1/2	71,524	1/2	59,470	1/2	47,415	1/2	35,361	1/2	23,306	1/2	11,576	1/2	178	1/2	
3/4	95,381	3/4	83,328	3/4	71,273	3/4	59,219	3/4	47,164	3/4	35,110	3/4	23,055	3/4	11,325	3/4	128	3/4	
11	95,130	11	83,077	11	71,022	11	58,968	11	46,913	11	34,859	11	22,804	11	11,074	11	77	11	
1/4	94,879	1/4	82,826	1/4	70,771	1/4	58,717	1/4	46,662	1/4	34,607	1/4	22,553	1/4	10,823	1/4	27	1/4	
1/2	94,628	1/2	82,574	1/2	70,520	1/2	58,465	1/2	46,411	1/2	34,356	1/2	22,302	1/2	10,572	1/2		1/2	
3/4	94,377	3/4	82,323	3/4	70,269	3/4	58,214	3/4	46,160	3/4	34,105	3/4	22,051	3/4	10,321	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "DBL 97"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-11"

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	93,571	0	82,958	0	72,340	0	61,722	0	51,104	0	40,486	0	29,867	0	19,251	0	8,654	0	
1/4	93,350	1/4	82,737	1/4	72,119	1/4	61,501	1/4	50,882	1/4	40,264	1/4	29,646	1/4	19,030	1/4	8,433	1/4	
1/2	93,129	1/2	82,516	1/2	71,898	1/2	61,279	1/2	50,661	1/2	40,043	1/2	29,425	1/2	18,810	1/2	8,212	1/2	
3/4	92,907	3/4	82,294	3/4	71,676	3/4	61,058	3/4	50,440	3/4	39,822	3/4	29,204	3/4	18,589	3/4	7,990	3/4	
1	92,686	1	82,073	1	71,455	1	60,837	1	50,219	1	39,601	1	28,983	1	18,368	1	7,769	1	
1/4	92,465	1/4	81,852	1/4	71,234	1/4	60,616	1/4	49,998	1/4	39,379	1/4	28,761	1/4	18,148	1/4	7,548	1/4	
1/2	92,244	1/2	81,631	1/2	71,013	1/2	60,395	1/2	49,776	1/2	39,158	1/2	28,540	1/2	17,927	1/2	7,327	1/2	
3/4	92,023	3/4	81,410	3/4	70,792	3/4	60,173	3/4	49,555	3/4	38,937	3/4	28,319	3/4	17,707	3/4	7,106	3/4	
2	91,802	2	81,188	2	70,570	2	59,952	2	49,334	2	38,716	2	28,098	2	17,486	2	6,884	2	
1/4	91,581	1/4	80,967	1/4	70,349	1/4	59,731	1/4	49,113	1/4	38,495	1/4	27,876	1/4	17,265	1/4	6,663	1/4	
1/2	91,360	1/2	80,746	1/2	70,128	1/2	59,510	1/2	48,892	1/2	38,273	1/2	27,655	1/2	17,045	1/2	6,442	1/2	
3/4	91,139	3/4	80,525	3/4	69,907	3/4	59,289	3/4	48,670	3/4	38,052	3/4	27,434	3/4	16,824	3/4	6,221	3/4	
3	90,918	3	80,304	3	69,685	3	59,067	3	48,449	3	37,831	3	27,213	3	16,604	3	6,000	3	
1/4	90,696	1/4	80,082	1/4	69,464	1/4	58,846	1/4	48,228	1/4	37,610	1/4	26,992	1/4	16,383	1/4	5,778	1/4	
1/2	90,475	1/2	79,861	1/2	69,243	1/2	58,625	1/2	48,007	1/2	37,389	1/2	26,770	1/2	16,162	1/2	5,557	1/2	
3/4	90,254	3/4	79,640	3/4	69,022	3/4	58,404	3/4	47,786	3/4	37,167	3/4	26,549	3/4	15,942	3/4	5,336	3/4	
4	90,033	4	79,419	4	68,801	4	58,182	4	47,564	4	36,946	4	26,328	4	15,721	4	5,115	4	
1/4	89,812	1/4	79,198	1/4	68,579	1/4	57,961	1/4	47,343	1/4	36,725	1/4	26,107	1/4	15,501	1/4	4,893	1/4	
1/2	89,591	1/2	78,976	1/2	68,358	1/2	57,740	1/2	47,122	1/2	36,504	1/2	25,886	1/2	15,280	1/2	4,672	1/2	
3/4	89,370	3/4	78,755	3/4	68,137	3/4	57,519	3/4	46,901	3/4	36,283	3/4	25,664	3/4	15,059	3/4	4,451	3/4	
5	89,149	5	78,534	5	67,916	5	57,298	5	46,679	5	36,061	5	25,443	5	14,839	5	4,230	5	
1/4	88,928	1/4	78,313	1/4	67,695	1/4	57,076	1/4	46,458	1/4	35,840	1/4	25,222	1/4	14,618	1/4	4,009	1/4	
1/2	88,706	1/2	78,092	1/2	67,473	1/2	56,855	1/2	46,237	1/2	35,619	1/2	25,001	1/2	14,398	1/2	3,787	1/2	
3/4	88,485	3/4	77,870	3/4	67,252	3/4	56,634	3/4	46,016	3/4	35,398	3/4	24,780	3/4	14,177	3/4	3,566	3/4	
6	88,264	6	77,649	6	67,031	6	56,413	6	45,795	6	35,176	6	24,558	6	13,956	6	3,345	6	
1/4	88,043	1/4	77,428	1/4	66,810	1/4	56,192	1/4	45,573	1/4	34,955	1/4	24,337	1/4	13,736	1/4	3,124	1/4	
1/2	87,822	1/2	77,207	1/2	66,589	1/2	55,970	1/2	45,352	1/2	34,734	1/2	24,116	1/2	13,515	1/2	2,903	1/2	
3/4	87,601	3/4	76,985	3/4	66,367	3/4	55,749	3/4	45,131	3/4	34,513	3/4	23,895	3/4	13,295	3/4	2,681	3/4	
7	87,380	7	76,764	7	66,146	7	55,528	7	44,910	7	34,292	7	23,673	7	13,074	7	2,460	7	
1/4	87,159	1/4	76,543	1/4	65,925	1/4	55,307	1/4	44,689	1/4	34,070	1/4	23,452	1/4	12,853	1/4	2,239	1/4	
1/2	86,938	1/2	76,322	1/2	65,704	1/2	55,086	1/2	44,467	1/2	33,849	1/2	23,231	1/2	12,633	1/2	2,018	1/2	
3/4	86,717	3/4	76,101	3/4	65,482	3/4	54,864	3/4	44,246	3/4	33,628	3/4	23,010	3/4	12,412	3/4	1,797	3/4	
8	86,495	8	75,879	8	65,261	8	54,643	8	44,025	8	33,407	8	22,789	8	12,192	8	1,575	8	
1/4	86,274	1/4	75,658	1/4	65,040	1/4	54,422	1/4	43,804	1/4	33,186	1/4	22,567	1/4	11,971	1/4	1,354	1/4	
1/2	86,053	1/2	75,437	1/2	64,819	1/2	54,201	1/2	43,583	1/2	32,964	1/2	22,346	1/2	11,750	1/2	1,133	1/2	
3/4	85,832	3/4	75,216	3/4	64,598	3/4	53,979	3/4	43,361	3/4	32,743	3/4	22,125	3/4	11,529	3/4	912	3/4	
9	85,611	9	74,995	9	64,376	9	53,758	9	43,140	9	32,522	9	21,904	9	11,308	9	691	9	
1/4	85,390	1/4	74,773	1/4	64,155	1/4	53,537	1/4	42,919	1/4	32,301	1/4	21,683	1/4	11,087	1/4	470	1/4	
1/2	85,169	1/2	74,552	1/2	63,934	1/2	53,316	1/2	42,698	1/2	32,080	1/2	21,461	1/2	10,866	1/2	249	1/2	
3/4	84,948	3/4	74,331	3/4	63,713	3/4	53,095	3/4	42,476	3/4	31,858	3/4	21,240	3/4	10,645	3/4	28	3/4	
10	84,727	10	74,110	10	63,492	10	52,873	10	42,255	10	31,637	10	21,019	10	10,424	10	6	10	
1/4	84,505	1/4	73,888	1/4	63,270	1/4	52,652	1/4	42,034	1/4	31,416	1/4	20,798	1/4	10,202	1/4	160	1/4	
1/2	84,284	1/2	73,667	1/2	63,049	1/2	52,431	1/2	41,813	1/2	31,195	1/2	20,577	1/2	9,981	1/2	116	1/2	
3/4	84,063	3/4	73,446	3/4	62,828	3/4	52,210	3/4	41,592	3/4	30,973	3/4	20,355	3/4	9,760	3/4	71	3/4	
11	83,842	11	73,225	11	62,607	11	51,989	11	41,370	11	30,752	11	20,134	11	9,539	11	27	11	
1/4	83,621	1/4	73,004	1/4	62,385	1/4	51,767	1/4	41,149	1/4	30,531	1/4	19,913	1/4	9,318	1/4		1/4	
1/2	83,400	1/2	72,782	1/2	62,164	1/2	51,546	1/2	40,928	1/2	30,310	1/2	19,692	1/2	9,096	1/2		1/2	
3/4	83,179	3/4	72,561	3/4	61,943	3/4	51,325	3/4	40,707	3/4	30,089	3/4	19,472	3/4	8,875	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2013 SW  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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