



# BARGE "DBL 98"

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

October 18, 2013

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

<http://www.pmacorp.net>



# BARGE "DBL 98"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00"

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	IN	0						
1/4		1/4		1/4		1/4		1/4		1/4	144,080	1/4		1/4	134,733	1/4		1/4	125,350	1/4		1/4	115,968	1/4		1/4	106,235
1/2		1/2		1/2		1/2		1/2		1/2	143,887	1/2		1/2	134,537	1/2		1/2	125,155	1/2		1/2	115,773	1/2		1/2	106,011
3/4		3/4		3/4		3/4		3/4		3/4	143,693	3/4		3/4	134,342	3/4		3/4	124,960	3/4		3/4	115,577	3/4		3/4	105,787
<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>1</b>	<b>1</b>	<b>143,499</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>134,147</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>124,764</b>	<b>1</b>	<b>1</b>	<b>115,382</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>105,563</b>	
1/4		1/4		1/4		1/4		1/4		1/4	143,306	1/4		1/4	133,951	1/4		1/4	124,569	1/4		1/4	115,186	1/4		1/4	105,338
1/2		1/2		1/2		1/2		1/2		1/2	143,112	1/2		1/2	133,756	1/2		1/2	124,373	1/2		1/2	114,991	1/2		1/2	105,114
3/4		3/4		3/4		3/4		3/4		3/4	151,097	3/4		3/4	133,560	3/4		3/4	124,178	3/4		3/4	114,795	3/4		3/4	104,890
<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>2</b>	<b>2</b>	<b>151,075</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>133,365</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>123,982</b>	<b>2</b>	<b>2</b>	<b>114,600</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>104,666</b>	
1/4		1/4		1/4		1/4		1/4		1/4	150,996	1/4		1/4	133,169	1/4		1/4	123,787	1/4		1/4	114,404	1/4		1/4	104,441
1/2		1/2		1/2		1/2		1/2		1/2	150,940	1/2		1/2	132,974	1/2		1/2	123,591	1/2		1/2	114,209	1/2		1/2	104,217
3/4		3/4		3/4		3/4		3/4		3/4	150,884	3/4		3/4	132,778	3/4		3/4	123,396	3/4		3/4	114,013	3/4		3/4	103,993
<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>3</b>	<b>3</b>	<b>150,884</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>132,583</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>123,200</b>	<b>3</b>	<b>3</b>	<b>113,818</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>103,768</b>	
1/4		1/4		1/4		1/4		1/4		1/4	150,828	1/4		1/4	132,387	1/4		1/4	123,005	1/4		1/4	113,622	1/4		1/4	103,544
1/2		1/2		1/2		1/2		1/2		1/2	150,683	1/2		1/2	132,192	1/2		1/2	122,809	1/2		1/2	113,427	1/2		1/2	103,320
3/4		3/4		3/4		3/4		3/4		3/4	150,537	3/4		3/4	131,996	3/4		3/4	122,614	3/4		3/4	113,231	3/4		3/4	103,096
<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>4</b>	<b>4</b>	<b>150,391</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>131,801</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>122,418</b>	<b>4</b>	<b>4</b>	<b>113,036</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>102,871</b>	
1/4		1/4		1/4		1/4		1/4		1/4	150,245	1/4		1/4	131,605	1/4		1/4	122,223	1/4		1/4	112,841	1/4		1/4	102,647
1/2		1/2		1/2		1/2		1/2		1/2	150,054	1/2		1/2	131,410	1/2		1/2	122,028	1/2		1/2	112,645	1/2		1/2	102,423
3/4		3/4		3/4		3/4		3/4		3/4	149,863	3/4		3/4	131,215	3/4		3/4	121,832	3/4		3/4	112,450	3/4		3/4	102,199
<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>5</b>	<b>5</b>	<b>149,673</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>131,019</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>121,637</b>	<b>5</b>	<b>5</b>	<b>112,254</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>101,974</b>	
1/4		1/4		1/4		1/4		1/4		1/4	149,482	1/4		1/4	130,824	1/4		1/4	121,441	1/4		1/4	112,059	1/4		1/4	101,750
1/2		1/2		1/2		1/2		1/2		1/2	149,291	1/2		1/2	130,628	1/2		1/2	121,246	1/2		1/2	111,863	1/2		1/2	101,526
3/4		3/4		3/4		3/4		3/4		3/4	149,100	3/4		3/4	130,433	3/4		3/4	121,050	3/4		3/4	111,668	3/4		3/4	101,301
<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>6</b>	<b>6</b>	<b>148,909</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>130,237</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>120,855</b>	<b>6</b>	<b>6</b>	<b>111,472</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>101,077</b>	
1/4		1/4		1/4		1/4		1/4		1/4	148,718	1/4		1/4	130,042	1/4		1/4	120,659	1/4		1/4	111,277	1/4		1/4	100,853
1/2		1/2		1/2		1/2		1/2		1/2	148,527	1/2		1/2	129,846	1/2		1/2	120,464	1/2		1/2	111,081	1/2		1/2	100,629
3/4		3/4		3/4		3/4		3/4		3/4	148,337	3/4		3/4	129,651	3/4		3/4	120,268	3/4		3/4	110,886	3/4		3/4	100,404
<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>7</b>	<b>7</b>	<b>148,146</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>129,455</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>120,073</b>	<b>7</b>	<b>7</b>	<b>110,690</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>100,180</b>	
1/4		1/4		1/4		1/4		1/4		1/4	147,955	1/4		1/4	138,642	1/4		1/4	119,877	1/4		1/4	110,495	1/4		1/4	99,956
1/2		1/2		1/2		1/2		1/2		1/2	147,761	1/2		1/2	138,447	1/2		1/2	119,682	1/2		1/2	110,299	1/2		1/2	99,732
3/4		3/4		3/4		3/4		3/4		3/4	147,567	3/4		3/4	138,251	3/4		3/4	119,486	3/4		3/4	110,104	3/4		3/4	99,507
<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>8</b>	<b>8</b>	<b>147,374</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>138,056</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>119,291</b>	<b>8</b>	<b>8</b>	<b>109,909</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>99,283</b>	
1/4		1/4		1/4		1/4		1/4		1/4	147,180	1/4		1/4	137,860	1/4		1/4	119,096	1/4		1/4	109,713	1/4		1/4	99,059
1/2		1/2		1/2		1/2		1/2		1/2	146,986	1/2		1/2	137,665	1/2		1/2	118,900	1/2		1/2	109,518	1/2		1/2	98,834
3/4		3/4		3/4		3/4		3/4		3/4	146,793	3/4		3/4	137,469	3/4		3/4	118,705	3/4		3/4	109,322	3/4		3/4	98,610
<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>9</b>	<b>9</b>	<b>146,599</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>137,274</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>118,509</b>	<b>9</b>	<b>9</b>	<b>109,127</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>98,386</b>	
1/4		1/4		1/4		1/4		1/4		1/4	146,405	1/4		1/4	137,079	1/4		1/4	118,314	1/4		1/4	108,931	1/4		1/4	98,162
1/2		1/2		1/2		1/2		1/2		1/2	146,211	1/2		1/2	136,883	1/2		1/2	118,118	1/2		1/2	108,706	1/2		1/2	97,937
3/4		3/4		3/4		3/4		3/4		3/4	146,018	3/4		3/4	136,688	3/4		3/4	117,923	3/4		3/4	108,482	3/4		3/4	97,713
<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>10</b>	<b>10</b>	<b>145,824</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>136,492</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>117,727</b>	<b>10</b>	<b>10</b>	<b>108,257</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>97,489</b>	
1/4		1/4		1/4		1/4		1/4		1/4	145,630	1/4		1/4	136,297	1/4		1/4	117,532	1/4		1/4	108,032	1/4		1/4	97,265
1/2		1/2		1/2		1/2		1/2		1/2	145,437	1/2		1/2	136,101	1/2		1/2	117,336	1/2		1/2	107,807	1/2		1/2	97,040
3/4		3/4		3/4		3/4		3/4		3/4	145,243	3/4		3/4	135,906	3/4		3/4	117,141	3/4		3/4	107,582	3/4		3/4	96,816
<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>11</b>	<b>11</b>	<b>145,049</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>135,710</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>116,945</b>	<b>11</b>	<b>11</b>	<b>107,357</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>96,592</b>	
1/4		1/4		1/4		1/4		1/4		1/4	144,855	1/4		1/4	135,515	1/4		1/4	116,750	1/4		1/4	107,133	1/4		1/4	96,367
1/2		1/2		1/2		1/2		1/2		1/2	144,662	1/2		1/2	135,319	1/2		1/2	116,554	1/2		1/2	106,908	1/2		1/2	96,143
3/4		3/4		3/4		3/4		3/4		3/4	144,468	3/4		3/4	135,124	3/4		3/4	116,359	3/4		3/4	106,684	3/4		3/4	95,919
											144,274				134,928				116,164				106,460				95,695

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "DBL 98"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-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	95,470	0	84,705	0	73,937	0	63,167	0	52,398	0	41,739	0	30,974	0	20,209	0	9,683	0	27
1/4	95,246	1/4	84,481	1/4	73,712	1/4	62,943	1/4	52,173	1/4	41,515	1/4	30,750	1/4	19,985	1/4	9,458	1/4	
1/2	95,022	1/2	84,257	1/2	73,488	1/2	62,718	1/2	51,949	1/2	41,290	1/2	30,526	1/2	19,761	1/2	9,234	1/2	
3/4	94,798	3/4	84,033	3/4	73,264	3/4	62,494	3/4	51,725	3/4	41,066	3/4	30,301	3/4	19,537	3/4	9,010	3/4	
1	94,573	1	83,808	1	73,039	1	62,270	1	51,500	1	40,842	1	30,077	1	19,312	1	8,786	1	
1/4	94,349	1/4	83,584	1/4	72,815	1/4	62,045	1/4	51,276	1/4	40,618	1/4	29,853	1/4	19,094	1/4	8,561	1/4	
1/2	94,125	1/2	83,360	1/2	72,590	1/2	61,821	1/2	51,051	1/2	40,393	1/2	29,629	1/2	18,876	1/2	8,337	1/2	
3/4	93,900	3/4	83,135	3/4	72,366	3/4	61,597	3/4	50,827	3/4	40,169	3/4	29,404	3/4	18,657	3/4	8,113	3/4	
2	93,676	2	82,911	2	72,142	2	61,372	2	50,603	2	39,945	2	29,180	2	18,439	2	7,888	2	
1/4	93,452	1/4	82,687	1/4	71,917	1/4	61,148	1/4	50,380	1/4	39,720	1/4	28,956	1/4	18,221	1/4	7,664	1/4	
1/2	93,228	1/2	82,462	1/2	71,693	1/2	60,924	1/2	50,157	1/2	39,496	1/2	28,731	1/2	18,002	1/2	7,440	1/2	
3/4	93,003	3/4	82,238	3/4	71,469	3/4	60,699	3/4	49,934	3/4	39,272	3/4	28,507	3/4	17,784	3/4	7,216	3/4	
3	92,779	3	82,014	3	71,244	3	60,475	3	49,712	3	39,048	3	28,283	3	17,566	3	6,991	3	
1/4	92,555	1/4	81,789	1/4	71,020	1/4	60,250	1/4	49,489	1/4	38,823	1/4	28,059	1/4	17,348	1/4	6,767	1/4	
1/2	92,331	1/2	81,565	1/2	70,796	1/2	60,026	1/2	49,266	1/2	38,599	1/2	27,834	1/2	17,129	1/2	6,543	1/2	
3/4	92,106	3/4	81,341	3/4	70,571	3/4	59,802	3/4	49,043	3/4	38,375	3/4	27,610	3/4	16,911	3/4	6,318	3/4	
4	91,882	4	81,116	4	70,347	4	59,577	4	48,820	4	38,151	4	27,386	4	16,693	4	6,094	4	
1/4	91,658	1/4	80,892	1/4	70,122	1/4	59,353	1/4	48,599	1/4	37,926	1/4	27,162	1/4	16,474	1/4	5,870	1/4	
1/2	91,433	1/2	80,668	1/2	69,898	1/2	59,129	1/2	48,378	1/2	37,702	1/2	26,937	1/2	16,256	1/2	5,645	1/2	
3/4	91,209	3/4	80,443	3/4	69,674	3/4	58,904	3/4	48,157	3/4	37,478	3/4	26,713	3/4	16,038	3/4	5,421	3/4	
5	90,985	5	80,219	5	69,449	5	58,680	5	47,935	5	37,254	5	26,489	5	15,819	5	5,197	5	
1/4	90,761	1/4	79,994	1/4	69,225	1/4	58,456	1/4	47,714	1/4	37,029	1/4	26,265	1/4	15,601	1/4	4,972	1/4	
1/2	90,536	1/2	79,770	1/2	69,001	1/2	58,231	1/2	47,493	1/2	36,805	1/2	26,040	1/2	15,383	1/2	4,748	1/2	
3/4	90,312	3/4	79,546	3/4	68,776	3/4	58,007	3/4	47,271	3/4	36,581	3/4	25,816	3/4	15,164	3/4	4,523	3/4	
6	90,088	6	79,321	6	68,552	6	57,782	6	47,050	6	36,356	6	25,592	6	14,946	6	4,299	6	
1/4	89,864	1/4	79,097	1/4	68,328	1/4	57,558	1/4	46,829	1/4	36,132	1/4	25,367	1/4	14,728	1/4	4,074	1/4	
1/2	89,639	1/2	78,873	1/2	68,103	1/2	57,334	1/2	46,607	1/2	35,908	1/2	25,143	1/2	14,509	1/2	3,850	1/2	
3/4	89,415	3/4	78,648	3/4	67,879	3/4	57,109	3/4	46,386	3/4	35,684	3/4	24,919	3/4	14,291	3/4	3,626	3/4	
7	89,191	7	78,424	7	67,654	7	56,885	7	46,165	7	35,459	7	24,695	7	14,073	7	3,401	7	
1/4	88,966	1/4	78,200	1/4	67,430	1/4	56,661	1/4	45,944	1/4	35,235	1/4	24,470	1/4	13,855	1/4	3,176	1/4	
1/2	88,742	1/2	77,975	1/2	67,206	1/2	56,436	1/2	45,722	1/2	35,011	1/2	24,246	1/2	13,636	1/2	2,951	1/2	
3/4	88,518	3/4	77,751	3/4	66,981	3/4	56,212	3/4	45,501	3/4	34,787	3/4	24,022	3/4	13,418	3/4	2,726	3/4	
8	88,294	8	77,526	8	66,757	8	55,988	8	45,280	8	34,562	8	23,798	8	13,200	8	2,501	8	
1/4	88,069	1/4	77,302	1/4	66,533	1/4	55,763	1/4	45,058	1/4	34,338	1/4	23,573	1/4	12,981	1/4	2,277	1/4	
1/2	87,845	1/2	77,078	1/2	66,308	1/2	55,539	1/2	44,837	1/2	34,114	1/2	23,349	1/2	12,763	1/2	2,052	1/2	
3/4	87,621	3/4	76,853	3/4	66,084	3/4	55,314	3/4	44,616	3/4	33,890	3/4	23,125	3/4	12,545	3/4	1,827	3/4	
9	87,397	9	76,629	9	65,860	9	55,090	9	44,394	9	33,665	9	22,901	9	12,327	9	1,602	9	
1/4	87,172	1/4	76,405	1/4	65,635	1/4	54,866	1/4	44,173	1/4	33,441	1/4	22,676	1/4	12,109	1/4	1,388	1/4	
1/2	86,948	1/2	76,180	1/2	65,411	1/2	54,641	1/2	43,952	1/2	33,217	1/2	22,452	1/2	11,890	1/2	1,174	1/2	
3/4	86,724	3/4	75,956	3/4	65,186	3/4	54,417	3/4	43,731	3/4	32,993	3/4	22,228	3/4	11,672	3/4	961	3/4	
10	86,500	10	75,732	10	64,962	10	54,193	10	43,509	10	32,768	10	22,004	10	11,453	10	747	10	
1/4	86,275	1/4	75,507	1/4	64,738	1/4	53,968	1/4	43,288	1/4	32,544	1/4	21,779	1/4	11,235	1/4	612	1/4	
1/2	86,051	1/2	75,283	1/2	64,513	1/2	53,744	1/2	43,067	1/2	32,320	1/2	21,555	1/2	11,017	1/2	477	1/2	
3/4	85,827	3/4	75,058	3/4	64,289	3/4	53,520	3/4	42,845	3/4	32,095	3/4	21,331	3/4	10,798	3/4	342	3/4	
11	85,602	11	74,834	11	64,065	11	53,295	11	42,624	11	31,871	11	21,106	11	10,580	11	207	11	
1/4	85,378	1/4	74,610	1/4	63,840	1/4	53,071	1/4	42,403	1/4	31,647	1/4	20,882	1/4	10,356	1/4	162	1/4	
1/2	85,154	1/2	74,385	1/2	63,616	1/2	52,846	1/2	42,181	1/2	31,423	1/2	20,658	1/2	10,131	1/2	118	1/2	
3/4	84,930	3/4	74,161	3/4	63,392	3/4	52,622	3/4	41,960	3/4	31,198	3/4	20,434	3/4	9,907	3/4	73	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 SW  
CALCULATED: 10/18/2013 CL  
PRINTED: 10/19/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "DBL 98"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN		
0	0	0	0	0	0	0	0	0	167,711	0	155,728	0	143,690	0	131,653	0	119,616				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	167,463	1/4	155,477	1/4	143,440	1/4	131,402	1/4	119,365				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	167,215	1/2	155,226	1/2	143,189	1/2	131,152	1/2	119,114				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	166,966	3/4	154,975	3/4	142,938	3/4	130,901	3/4	118,863				
1	1	1	1	1	1	1	1	1	166,718	1	154,725	1	142,687	1	130,650	1	118,613				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	177,091	1/4	166,469	1/4	154,474	1/4	142,437	1/4	130,399	1/4	118,362			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	177,066	1/2	166,221	1/2	154,223	1/2	142,186	1/2	130,148	1/2	118,111			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	177,041	3/4	165,972	3/4	153,972	3/4	141,935	3/4	129,898	3/4	117,860			
2	2	2	2	2	2	2	2	2	176,940	2	165,724	2	153,722	2	141,684	2	129,647	2	117,610		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	176,840	1/4	165,475	1/4	153,471	1/4	141,433	1/4	129,396	1/4	117,359			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	176,740	1/2	165,227	1/2	153,220	1/2	141,183	1/2	129,145	1/2	117,108			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	176,639	3/4	164,979	3/4	152,969	3/4	140,932	3/4	128,895	3/4	116,857			
3	3	3	3	3	3	3	3	3	176,444	3	164,730	3	152,718	3	140,681	3	128,644	3	116,606		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	176,249	1/4	164,482	1/4	152,468	1/4	140,430	1/4	128,393	1/4	116,356			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	176,054	1/2	164,233	1/2	152,217	1/2	140,180	1/2	128,142	1/2	116,105			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	175,859	3/4	163,985	3/4	151,966	3/4	139,929	3/4	127,891	3/4	115,854			
4	4	4	4	4	4	4	4	4	175,614	4	163,736	4	151,715	4	139,678	4	127,641	4	115,603		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	175,369	1/4	163,488	1/4	151,465	1/4	139,427	1/4	127,390	1/4	115,353			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	175,123	1/2	163,239	1/2	151,214	1/2	139,176	1/2	127,139	1/2	115,102			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	174,878	3/4	162,991	3/4	150,963	3/4	138,926	3/4	126,888	3/4	114,851			
5	5	5	5	5	5	5	5	5	174,633	5	162,743	5	150,712	5	138,675	5	126,638	5	114,600		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	174,388	1/4	162,494	1/4	150,461	1/4	138,424	1/4	126,387	1/4	114,349			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	174,142	1/2	162,246	1/2	150,211	1/2	138,173	1/2	126,136	1/2	114,099			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	173,897	3/4	161,997	3/4	149,960	3/4	137,923	3/4	125,885	3/4	113,848			
6	6	6	6	6	6	6	6	6	173,652	6	161,746	6	149,709	6	137,672	6	125,634	6	113,597		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	173,407	1/4	161,496	1/4	149,458	1/4	137,421	1/4	125,384	1/4	113,346			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	173,161	1/2	161,245	1/2	149,208	1/2	137,170	1/2	125,133	1/2	113,096			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	172,916	3/4	160,994	3/4	148,957	3/4	136,919	3/4	124,882	3/4	112,845			
7	7	7	7	7	7	7	7	7	172,671	7	160,743	7	148,706	7	136,669	7	124,631	7	112,594		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	172,426	1/4	160,493	1/4	148,455	1/4	136,418	1/4	124,381	1/4	112,343			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	172,180	1/2	160,242	1/2	148,204	1/2	136,167	1/2	124,130	1/2	112,092			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	171,935	3/4	159,991	3/4	147,954	3/4	135,916	3/4	123,879	3/4	111,842			
8	8	8	8	8	8	8	8	8	171,687	8	159,740	8	147,703	8	135,666	8	123,628	8	111,591		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	171,438	1/4	159,489	1/4	147,452	1/4	135,415	1/4	123,377	1/4	111,340			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	171,190	1/2	159,239	1/2	147,201	1/2	135,164	1/2	123,127	1/2	111,089			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	170,941	3/4	158,988	3/4	146,951	3/4	134,913	3/4	122,876	3/4	110,839			
9	9	9	9	9	9	9	9	9	170,693	9	158,737	9	146,700	9	134,662	9	122,625	9	110,588		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	170,444	1/4	158,486	1/4	146,449	1/4	134,412	1/4	122,374	1/4	110,337			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	170,196	1/2	158,236	1/2	146,198	1/2	134,161	1/2	122,124	1/2	110,086			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	169,948	3/4	157,985	3/4	145,947	3/4	133,910	3/4	121,873	3/4	109,835			
10	10	10	10	10	10	10	10	10	169,699	10	157,734	10	145,697	10	133,659	10	121,622	10	109,585		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	169,451	1/4	157,483	1/4	145,446	1/4	133,409	1/4	121,371	1/4	109,334			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	169,202	1/2	157,232	1/2	145,195	1/2	133,158	1/2	121,120	1/2	109,083			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	168,954	3/4	156,982	3/4	144,944	3/4	132,907	3/4	120,870	3/4	108,832			
11	11	11	11	11	11	11	11	11	168,705	11	156,731	11	144,694	11	132,656	11	120,619	11	108,582		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	168,457	1/4	156,480	1/4	144,443	1/4	132,405	1/4	120,368	1/4	108,331			
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	168,208	1/2	156,229	1/2	144,192	1/2	132,155	1/2	120,117	1/2	108,080			
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	167,960	3/4	155,979	3/4	143,941	3/4	131,904	3/4	119,867	3/4	107,829			

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'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "DBL 98"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00 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	107,579	0	95,541	0	83,499	0	71,456	0	59,413	0	47,370	0	35,327	0	23,284	0	11,565	0	178
1/4	107,328	1/4	95,290	1/4	83,249	1/4	71,205	1/4	59,162	1/4	47,119	1/4	35,076	1/4	23,033	1/4	11,315	1/4	128
1/2	107,077	1/2	95,040	1/2	82,998	1/2	70,955	1/2	58,911	1/2	46,868	1/2	34,825	1/2	22,782	1/2	11,064	1/2	78
3/4	106,826	3/4	94,789	3/4	82,747	3/4	70,704	3/4	58,661	3/4	46,617	3/4	34,574	3/4	22,531	3/4	10,813	3/4	27
1	106,575	1	94,538	1	82,496	1	70,453	1	58,410	1	46,367	1	34,323	1	22,280	1	10,563	1	
1/4	106,325	1/4	94,287	1/4	82,245	1/4	70,202	1/4	58,159	1/4	46,116	1/4	34,073	1/4	22,029	1/4	10,312	1/4	
1/2	106,074	1/2	94,037	1/2	81,994	1/2	69,951	1/2	57,908	1/2	45,865	1/2	33,822	1/2	21,779	1/2	10,061	1/2	
3/4	105,823	3/4	93,786	3/4	81,743	3/4	69,700	3/4	57,657	3/4	45,614	3/4	33,571	3/4	21,528	3/4	9,810	3/4	
2	105,572	2	93,535	2	81,492	2	69,449	2	57,406	2	45,363	2	33,320	2	21,285	2	9,560	2	
1/4	105,322	1/4	93,284	1/4	81,241	1/4	69,198	1/4	57,155	1/4	45,112	1/4	33,069	1/4	21,042	1/4	9,309	1/4	
1/2	105,071	1/2	93,033	1/2	80,990	1/2	68,947	1/2	56,904	1/2	44,861	1/2	32,818	1/2	20,800	1/2	9,058	1/2	
3/4	104,820	3/4	92,783	3/4	80,740	3/4	68,696	3/4	56,653	3/4	44,610	3/4	32,567	3/4	20,557	3/4	8,807	3/4	
3	104,569	3	92,532	3	80,489	3	68,446	3	56,402	3	44,359	3	32,316	3	20,314	3	8,557	3	
1/4	104,318	1/4	92,281	1/4	80,238	1/4	68,195	1/4	56,152	1/4	44,108	1/4	32,065	1/4	20,071	1/4	8,306	1/4	
1/2	104,068	1/2	92,030	1/2	79,987	1/2	67,944	1/2	55,901	1/2	43,858	1/2	31,814	1/2	19,829	1/2	8,055	1/2	
3/4	103,817	3/4	91,779	3/4	79,736	3/4	67,693	3/4	55,650	3/4	43,607	3/4	31,564	3/4	19,586	3/4	7,804	3/4	
4	103,566	4	91,528	4	79,485	4	67,442	4	55,399	4	43,356	4	31,313	4	19,343	4	7,554	4	
1/4	103,315	1/4	91,277	1/4	79,234	1/4	67,191	1/4	55,148	1/4	43,105	1/4	31,062	1/4	19,101	1/4	7,303	1/4	
1/2	103,065	1/2	91,026	1/2	78,983	1/2	66,940	1/2	54,897	1/2	42,854	1/2	30,811	1/2	18,858	1/2	7,052	1/2	
3/4	102,814	3/4	90,775	3/4	78,732	3/4	66,689	3/4	54,646	3/4	42,603	3/4	30,560	3/4	18,615	3/4	6,801	3/4	
5	102,563	5	90,525	5	78,481	5	66,438	5	54,395	5	42,352	5	30,309	5	18,373	5	6,550	5	
1/4	102,312	1/4	90,274	1/4	78,231	1/4	66,187	1/4	54,144	1/4	42,101	1/4	30,058	1/4	18,130	1/4	6,300	1/4	
1/2	102,061	1/2	90,023	1/2	77,980	1/2	65,937	1/2	53,893	1/2	41,850	1/2	29,807	1/2	17,887	1/2	6,049	1/2	
3/4	101,811	3/4	89,772	3/4	77,729	3/4	65,686	3/4	53,643	3/4	41,599	3/4	29,556	3/4	17,644	3/4	5,798	3/4	
6	101,560	6	89,521	6	77,478	6	65,435	6	53,392	6	41,349	6	29,305	6	17,402	6	5,547	6	
1/4	101,309	1/4	89,270	1/4	77,227	1/4	65,184	1/4	53,141	1/4	41,098	1/4	29,055	1/4	17,159	1/4	5,296	1/4	
1/2	101,058	1/2	89,019	1/2	76,976	1/2	64,933	1/2	52,890	1/2	40,847	1/2	28,804	1/2	16,916	1/2	5,045	1/2	
3/4	100,808	3/4	88,768	3/4	76,725	3/4	64,682	3/4	52,639	3/4	40,596	3/4	28,553	3/4	16,674	3/4	4,794	3/4	
7	100,557	7	88,517	7	76,474	7	64,431	7	52,388	7	40,345	7	28,302	7	16,431	7	4,543	7	
1/4	100,306	1/4	88,266	1/4	76,223	1/4	64,180	1/4	52,137	1/4	40,094	1/4	28,051	1/4	16,188	1/4	4,292	1/4	
1/2	100,055	1/2	88,016	1/2	75,972	1/2	63,929	1/2	51,886	1/2	39,843	1/2	27,800	1/2	15,946	1/2	4,042	1/2	
3/4	99,804	3/4	87,765	3/4	75,722	3/4	63,678	3/4	51,635	3/4	39,592	3/4	27,549	3/4	15,703	3/4	3,791	3/4	
8	99,554	8	87,514	8	75,471	8	63,428	8	51,384	8	39,341	8	27,298	8	15,460	8	3,540	8	
1/4	99,303	1/4	87,263	1/4	75,220	1/4	63,177	1/4	51,134	1/4	39,090	1/4	27,047	1/4	15,218	1/4	3,289	1/4	
1/2	99,052	1/2	87,012	1/2	74,969	1/2	62,926	1/2	50,883	1/2	38,840	1/2	26,796	1/2	14,975	1/2	3,038	1/2	
3/4	98,801	3/4	86,761	3/4	74,718	3/4	62,675	3/4	50,632	3/4	38,589	3/4	26,546	3/4	14,732	3/4	2,787	3/4	
9	98,551	9	86,510	9	74,467	9	62,424	9	50,381	9	38,338	9	26,295	9	14,490	9	2,536	9	
1/4	98,300	1/4	86,259	1/4	74,216	1/4	62,173	1/4	50,130	1/4	38,087	1/4	26,044	1/4	14,247	1/4	2,285	1/4	
1/2	98,049	1/2	86,008	1/2	73,965	1/2	61,922	1/2	49,879	1/2	37,836	1/2	25,793	1/2	14,004	1/2	2,034	1/2	
3/4	97,798	3/4	85,757	3/4	73,714	3/4	61,671	3/4	49,628	3/4	37,585	3/4	25,542	3/4	13,762	3/4	1,784	3/4	
10	97,547	10	85,507	10	73,463	10	61,420	10	49,377	10	37,334	10	25,291	10	13,519	10	1,545	10	
1/4	97,297	1/4	85,256	1/4	73,213	1/4	61,169	1/4	49,126	1/4	37,083	1/4	25,040	1/4	13,276	1/4	1,307	1/4	
1/2	97,046	1/2	85,005	1/2	72,962	1/2	60,919	1/2	48,875	1/2	36,832	1/2	24,789	1/2	13,032	1/2	1,069	1/2	
3/4	96,795	3/4	84,754	3/4	72,711	3/4	60,668	3/4	48,625	3/4	36,581	3/4	24,538	3/4	12,789	3/4	830	3/4	
11	96,544	11	84,503	11	72,460	11	60,417	11	48,374	11	36,331	11	24,287	11	12,546	11	680	11	
1/4	96,294	1/4	84,252	1/4	72,209	1/4	60,166	1/4	48,123	1/4	36,080	1/4	24,037	1/4	12,303	1/4	529	1/4	
1/2	96,043	1/2	84,001	1/2	71,958	1/2	59,915	1/2	47,872	1/2	35,829	1/2	23,786	1/2	12,059	1/2	379	1/2	
3/4	95,792	3/4	83,750	3/4	71,707	3/4	59,664	3/4	47,621	3/4	35,578	3/4	23,535	3/4	11,816	3/4	228	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 SW  
CALCULATED: 10/18/2013 CL  
PRINTED: 10/19/2013 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013



# BARGE "DBL 98"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	0	0	0	0	147,569	0	136,990	0	126,371	0	115,751	0	105,132		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	147,350	1/4	136,769	1/4	126,150	1/4	115,530	1/4	104,911		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	156,502	1/2	147,131	1/2	136,548	1/2	125,928	1/2	115,309	1/2	104,689
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	156,480	3/4	146,911	3/4	136,327	3/4	125,707	3/4	115,088	3/4	104,468
1	1	1	1	1	1	1	1	1	156,458	1	146,692	1	136,105	1	125,486	1	114,866	1	104,247
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	156,369	1/4	146,473	1/4	135,884	1/4	125,265	1/4	114,645	1/4	104,026
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	156,281	1/2	146,254	1/2	135,663	1/2	125,043	1/2	114,424	1/2	103,804
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	156,192	3/4	146,035	3/4	135,442	3/4	124,822	3/4	114,203	3/4	103,583
2	2	2	2	2	2	2	2	2	156,104	2	145,815	2	135,220	2	124,601	2	113,981	2	103,362
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	155,931	1/4	145,596	1/4	134,999	1/4	124,380	1/4	113,760	1/4	103,141
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	155,759	1/2	145,377	1/2	134,778	1/2	124,158	1/2	113,539	1/2	102,919
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	155,587	3/4	145,158	3/4	134,557	3/4	123,937	3/4	113,318	3/4	102,698
3	3	3	3	3	3	3	3	3	155,415	3	144,939	3	134,335	3	123,716	3	113,096	3	102,477
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	155,199	1/4	144,719	1/4	134,114	1/4	123,495	1/4	112,875	1/4	102,256
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	154,982	1/2	144,500	1/2	133,893	1/2	123,273	1/2	112,654	1/2	102,034
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	154,766	3/4	144,281	3/4	133,672	3/4	123,052	3/4	112,433	3/4	101,813
4	4	4	4	4	4	4	4	4	154,550	4	144,062	4	133,450	4	122,831	4	112,211	4	101,592
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	154,333	1/4	143,843	1/4	133,229	1/4	122,610	1/4	111,990	1/4	101,371
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	154,117	1/2	143,623	1/2	133,008	1/2	122,388	1/2	111,769	1/2	101,149
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	153,900	3/4	143,404	3/4	132,787	3/4	122,167	3/4	111,548	3/4	100,928
5	5	5	5	5	5	5	5	5	153,684	5	143,185	5	132,565	5	121,946	5	111,326	5	100,707
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	153,468	1/4	142,964	1/4	132,344	1/4	121,725	1/4	111,105	1/4	100,486
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	153,251	1/2	142,742	1/2	132,123	1/2	121,503	1/2	110,884	1/2	100,265
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	153,035	3/4	142,521	3/4	131,902	3/4	121,282	3/4	110,663	3/4	100,043
6	6	6	6	6	6	6	6	6	152,819	6	142,300	6	131,681	6	121,061	6	110,442	6	99,822
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	152,602	1/4	142,079	1/4	131,459	1/4	120,840	1/4	110,220	1/4	99,601
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	152,386	1/2	141,858	1/2	131,238	1/2	120,619	1/2	109,999	1/2	99,380
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	152,169	3/4	141,636	3/4	131,017	3/4	120,397	3/4	109,778	3/4	99,158
7	7	7	7	7	7	7	7	7	151,953	7	141,415	7	130,796	7	120,176	7	109,557	7	98,937
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	151,734	1/4	141,194	1/4	130,574	1/4	119,955	1/4	109,335	1/4	98,716
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	151,515	1/2	140,973	1/2	130,353	1/2	119,734	1/2	109,114	1/2	98,495
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	151,295	3/4	140,751	3/4	130,132	3/4	119,512	3/4	108,893	3/4	98,273
8	8	8	8	8	8	8	8	8	151,076	8	140,530	8	129,911	8	119,291	8	108,672	8	98,052
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	150,857	1/4	140,309	1/4	129,689	1/4	119,070	1/4	108,450	1/4	97,831
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	150,638	1/2	140,088	1/2	129,468	1/2	118,849	1/2	108,229	1/2	97,610
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	150,419	3/4	139,866	3/4	129,247	3/4	118,627	3/4	108,008	3/4	97,388
9	9	9	9	9	9	9	9	9	150,199	9	139,645	9	129,026	9	118,406	9	107,787	9	97,167
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	149,980	1/4	139,424	1/4	128,804	1/4	118,185	1/4	107,565	1/4	96,946
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	149,761	1/2	139,203	1/2	128,583	1/2	117,964	1/2	107,344	1/2	96,725
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	149,542	3/4	138,981	3/4	128,362	3/4	117,742	3/4	107,123	3/4	96,503
10	10	10	10	10	10	10	10	10	149,323	10	138,760	10	128,141	10	117,521	10	106,902	10	96,282
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	149,103	1/4	138,539	1/4	127,919	1/4	117,300	1/4	106,680	1/4	96,061
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	148,884	1/2	138,318	1/2	127,698	1/2	117,079	1/2	106,459	1/2	95,840
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	148,665	3/4	138,096	3/4	127,477	3/4	116,857	3/4	106,238	3/4	95,619
11	11	11	11	11	11	11	11	11	148,446	11	137,875	11	127,256	11	116,636	11	106,017	11	95,397
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	148,227	1/4	137,654	1/4	127,034	1/4	116,415	1/4	105,796	1/4	95,176
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	148,007	1/2	137,433	1/2	126,813	1/2	116,194	1/2	105,574	1/2	94,955
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	147,788	3/4	137,211	3/4	126,592	3/4	115,973	3/4	105,353	3/4	94,734

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 25'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "DBL 98"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-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	94,512	0	83,893	0	73,269	0	62,645	0	52,020	0	41,395	0	30,771	0	20,146	0	9,545	0	27
1/4	94,291	1/4	83,672	1/4	73,048	1/4	62,423	1/4	51,799	1/4	41,174	1/4	30,549	1/4	19,925	1/4	9,323	1/4	
1/2	94,070	1/2	83,450	1/2	72,826	1/2	62,202	1/2	51,577	1/2	40,953	1/2	30,328	1/2	19,704	1/2	9,102	1/2	
3/4	93,849	3/4	83,229	3/4	72,605	3/4	61,981	3/4	51,356	3/4	40,731	3/4	30,107	3/4	19,483	3/4	8,881	3/4	
1	93,627	1	83,008	1	72,384	1	61,759	1	51,135	1	40,510	1	29,885	1	19,262	1	8,659	1	
1/4	93,406	1/4	82,787	1/4	72,162	1/4	61,538	1/4	50,913	1/4	40,289	1/4	29,664	1/4	19,042	1/4	8,438	1/4	
1/2	93,185	1/2	82,565	1/2	71,941	1/2	61,316	1/2	50,692	1/2	40,067	1/2	29,443	1/2	18,821	1/2	8,217	1/2	
3/4	92,964	3/4	82,344	3/4	71,720	3/4	61,095	3/4	50,471	3/4	39,846	3/4	29,221	3/4	18,600	3/4	7,995	3/4	
2	92,742	2	82,123	2	71,498	2	60,874	2	50,249	2	39,625	2	29,000	2	18,379	2	7,774	2	
1/4	92,521	1/4	81,902	1/4	71,277	1/4	60,652	1/4	50,028	1/4	39,403	1/4	28,779	1/4	18,159	1/4	7,552	1/4	
1/2	92,300	1/2	81,680	1/2	71,056	1/2	60,431	1/2	49,807	1/2	39,182	1/2	28,557	1/2	17,938	1/2	7,331	1/2	
3/4	92,079	3/4	81,459	3/4	70,834	3/4	60,210	3/4	49,585	3/4	38,961	3/4	28,336	3/4	17,717	3/4	7,110	3/4	
3	91,857	3	81,238	3	70,613	3	59,988	3	49,364	3	38,739	3	28,115	3	17,497	3	6,888	3	
1/4	91,636	1/4	81,016	1/4	70,392	1/4	59,767	1/4	49,142	1/4	38,518	1/4	27,893	1/4	17,276	1/4	6,667	1/4	
1/2	91,415	1/2	80,795	1/2	70,170	1/2	59,546	1/2	48,921	1/2	38,297	1/2	27,672	1/2	17,055	1/2	6,446	1/2	
3/4	91,194	3/4	80,574	3/4	69,949	3/4	59,324	3/4	48,700	3/4	38,075	3/4	27,451	3/4	16,834	3/4	6,224	3/4	
4	90,972	4	80,352	4	69,728	4	59,103	4	48,478	4	37,854	4	27,229	4	16,614	4	6,003	4	
1/4	90,751	1/4	80,131	1/4	69,506	1/4	58,882	1/4	48,257	1/4	37,633	1/4	27,008	1/4	16,393	1/4	5,782	1/4	
1/2	90,530	1/2	79,909	1/2	69,285	1/2	58,660	1/2	48,036	1/2	37,411	1/2	26,787	1/2	16,172	1/2	5,560	1/2	
3/4	90,309	3/4	79,688	3/4	69,064	3/4	58,439	3/4	47,814	3/4	37,190	3/4	26,565	3/4	15,951	3/4	5,339	3/4	
5	90,088	5	79,467	5	68,842	5	58,218	5	47,593	5	36,969	5	26,344	5	15,731	5	5,118	5	
1/4	89,866	1/4	79,245	1/4	68,621	1/4	57,996	1/4	47,372	1/4	36,747	1/4	26,123	1/4	15,510	1/4	4,896	1/4	
1/2	89,645	1/2	79,024	1/2	68,400	1/2	57,775	1/2	47,150	1/2	36,526	1/2	25,901	1/2	15,289	1/2	4,675	1/2	
3/4	89,424	3/4	78,803	3/4	68,178	3/4	57,554	3/4	46,929	3/4	36,304	3/4	25,680	3/4	15,069	3/4	4,454	3/4	
6	89,203	6	78,581	6	67,957	6	57,332	6	46,708	6	36,083	6	25,459	6	14,848	6	4,232	6	
1/4	88,981	1/4	78,360	1/4	67,735	1/4	57,111	1/4	46,486	1/4	35,862	1/4	25,237	1/4	14,627	1/4	4,011	1/4	
1/2	88,760	1/2	78,139	1/2	67,514	1/2	56,890	1/2	46,265	1/2	35,640	1/2	25,016	1/2	14,406	1/2	3,790	1/2	
3/4	88,539	3/4	77,917	3/4	67,293	3/4	56,668	3/4	46,044	3/4	35,419	3/4	24,795	3/4	14,186	3/4	3,568	3/4	
7	88,318	7	77,696	7	67,071	7	56,447	7	45,822	7	35,198	7	24,573	7	13,965	7	3,347	7	
1/4	88,096	1/4	77,475	1/4	66,850	1/4	56,226	1/4	45,601	1/4	34,976	1/4	24,352	1/4	13,744	1/4	3,126	1/4	
1/2	87,875	1/2	77,253	1/2	66,629	1/2	56,004	1/2	45,380	1/2	34,755	1/2	24,130	1/2	13,523	1/2	2,904	1/2	
3/4	87,654	3/4	77,032	3/4	66,407	3/4	55,783	3/4	45,158	3/4	34,534	3/4	23,909	3/4	13,303	3/4	2,683	3/4	
8	87,433	8	76,811	8	66,186	8	55,561	8	44,937	8	34,312	8	23,688	8	13,082	8	2,462	8	
1/4	87,211	1/4	76,589	1/4	65,965	1/4	55,340	1/4	44,716	1/4	34,091	1/4	23,466	1/4	12,861	1/4	2,240	1/4	
1/2	86,990	1/2	76,368	1/2	65,743	1/2	55,119	1/2	44,494	1/2	33,870	1/2	23,245	1/2	12,641	1/2	2,019	1/2	
3/4	86,769	3/4	76,147	3/4	65,522	3/4	54,897	3/4	44,273	3/4	33,648	3/4	23,024	3/4	12,420	3/4	1,798	3/4	
9	86,548	9	75,925	9	65,301	9	54,676	9	44,052	9	33,427	9	22,802	9	12,199	9	1,576	9	
1/4	86,326	1/4	75,704	1/4	65,079	1/4	54,455	1/4	43,830	1/4	33,206	1/4	22,581	1/4	11,978	1/4	1,366	1/4	
1/2	86,105	1/2	75,483	1/2	64,858	1/2	54,233	1/2	43,609	1/2	32,984	1/2	22,360	1/2	11,757	1/2	1,156	1/2	
3/4	85,884	3/4	75,261	3/4	64,637	3/4	54,012	3/4	43,388	3/4	32,763	3/4	22,138	3/4	11,536	3/4	946	3/4	
10	85,663	10	75,040	10	64,415	10	53,791	10	43,166	10	32,542	10	21,917	10	11,315	10	735	10	
1/4	85,442	1/4	74,819	1/4	64,194	1/4	53,569	1/4	42,945	1/4	32,320	1/4	21,696	1/4	11,094	1/4	603	1/4	
1/2	85,220	1/2	74,597	1/2	63,973	1/2	53,348	1/2	42,723	1/2	32,099	1/2	21,474	1/2	10,873	1/2	470	1/2	
3/4	84,999	3/4	74,376	3/4	63,751	3/4	53,127	3/4	42,502	3/4	31,878	3/4	21,253	3/4	10,651	3/4	337	3/4	
11	84,778	11	74,154	11	63,530	11	52,905	11	42,281	11	31,656	11	21,032	11	10,430	11	204	11	
1/4	84,557	1/4	73,933	1/4	63,309	1/4	52,684	1/4	42,059	1/4	31,435	1/4	20,810	1/4	10,209	1/4	160	1/4	
1/2	84,335	1/2	73,712	1/2	63,087	1/2	52,463	1/2	41,838	1/2	31,214	1/2	20,589	1/2	9,987	1/2	116	1/2	
3/4	84,114	3/4	73,490	3/4	62,866	3/4	52,241	3/4	41,617	3/4	30,992	3/4	20,368	3/4	9,766	3/4	72	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/18/2013 SW  
CALCULATED: 10/18/2013 CL  
PRINTED: 10/19/2013 SW

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CANCELS AND SUPERCEDES  
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