



# BARGE "CBC 1410"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
<b>1 CENTER</b>	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
<b>2 CENTER</b>	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8	- 01-1/8	01-1/8
<b>3 CENTER</b>	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4

(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 - 00-3/4"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/4"

LENGTH BETWEEN DRAFT MARKS: 178'-06"

March 28, 2019

**PRECISION MEASUREMENT  
 & ANALYSIS, INC.**  
 P.O. Box 2092  
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# BARGE "CBC 1410"

# 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	39	0	8,706	0	20,318	0	31,746	0	43,216	0	54,800	0	66,384	0	77,944	0	89,507	0	101,095
1/4	60	1/4	8,948	1/4	20,559	1/4	31,981	1/4	43,457	1/4	55,041	1/4	66,625	1/4	78,184	1/4	89,748	1/4	101,337
1/2	80	1/2	9,189	1/2	20,801	1/2	32,215	1/2	43,698	1/2	55,282	1/2	66,866	1/2	78,424	1/2	89,990	1/2	101,578
3/4	100	3/4	9,431	3/4	21,043	3/4	32,449	3/4	43,940	3/4	55,524	3/4	67,108	3/4	78,664	3/4	90,231	3/4	101,820
1	120	1	9,673	1	21,285	1	32,683	1	44,181	1	55,765	1	67,349	1	78,904	1	90,473	1	102,061
1/4	180	1/4	9,915	1/4	21,527	1/4	32,917	1/4	44,422	1/4	56,006	1/4	67,590	1/4	79,144	1/4	90,714	1/4	102,302
1/2	241	1/2	10,157	1/2	21,769	1/2	33,151	1/2	44,664	1/2	56,248	1/2	67,832	1/2	79,384	1/2	90,955	1/2	102,544
3/4	301	3/4	10,399	3/4	22,011	3/4	33,386	3/4	44,905	3/4	56,489	3/4	68,073	3/4	79,624	3/4	91,197	3/4	102,785
2	362	2	10,641	2	22,253	2	33,620	2	45,146	2	56,730	2	68,314	2	79,864	2	91,438	2	103,027
1/4	463	1/4	10,883	1/4	22,495	1/4	33,854	1/4	45,388	1/4	56,972	1/4	68,555	1/4	80,104	1/4	91,680	1/4	103,268
1/2	563	1/2	11,125	1/2	22,737	1/2	34,088	1/2	45,629	1/2	57,213	1/2	68,797	1/2	80,344	1/2	91,921	1/2	103,510
3/4	664	3/4	11,367	3/4	22,979	3/4	34,322	3/4	45,870	3/4	57,454	3/4	69,038	3/4	80,584	3/4	92,163	3/4	103,751
3	765	3	11,609	3	23,220	3	34,556	3	46,112	3	57,696	3	69,279	3	80,824	3	92,404	3	103,992
1/4	906	1/4	11,851	1/4	23,462	1/4	34,790	1/4	46,353	1/4	57,937	1/4	69,521	1/4	81,064	1/4	92,645	1/4	104,234
1/2	1,047	1/2	12,092	1/2	23,704	1/2	35,025	1/2	46,594	1/2	58,178	1/2	69,762	1/2	81,304	1/2	92,887	1/2	104,475
3/4	1,188	3/4	12,334	3/4	23,946	3/4	35,259	3/4	46,836	3/4	58,420	3/4	70,003	3/4	81,544	3/4	93,128	3/4	104,717
4	1,329	4	12,576	4	24,188	4	35,493	4	47,077	4	58,661	4	70,245	4	81,784	4	93,370	4	104,958
1/4	1,511	1/4	12,818	1/4	24,430	1/4	35,734	1/4	47,318	1/4	58,902	1/4	70,486	1/4	82,025	1/4	93,611	1/4	105,200
1/2	1,692	1/2	13,060	1/2	24,672	1/2	35,976	1/2	47,560	1/2	59,144	1/2	70,727	1/2	82,265	1/2	93,853	1/2	105,441
3/4	1,874	3/4	13,302	3/4	24,914	3/4	36,217	3/4	47,801	3/4	59,385	3/4	70,969	3/4	82,506	3/4	94,094	3/4	105,682
5	2,055	5	13,544	5	25,156	5	36,458	5	48,042	5	59,626	5	71,210	5	82,747	5	94,335	5	105,924
1/4	2,276	1/4	13,786	1/4	25,398	1/4	36,700	1/4	48,284	1/4	59,868	1/4	71,451	1/4	82,988	1/4	94,577	1/4	106,165
1/2	2,497	1/2	14,028	1/2	25,640	1/2	36,941	1/2	48,525	1/2	60,109	1/2	71,693	1/2	83,230	1/2	94,818	1/2	106,407
3/4	2,718	3/4	14,270	3/4	25,882	3/4	37,182	3/4	48,766	3/4	60,350	3/4	71,934	3/4	83,471	3/4	95,060	3/4	106,648
6	2,939	6	14,512	6	26,123	6	37,424	6	49,008	6	60,592	6	72,175	6	83,712	6	95,301	6	106,890
1/4	3,176	1/4	14,753	1/4	26,358	1/4	37,665	1/4	49,249	1/4	60,833	1/4	72,416	1/4	83,954	1/4	95,542	1/4	107,131
1/2	3,414	1/2	14,995	1/2	26,593	1/2	37,906	1/2	49,490	1/2	61,074	1/2	72,657	1/2	84,195	1/2	95,784	1/2	107,372
3/4	3,651	3/4	15,237	3/4	26,827	3/4	38,148	3/4	49,732	3/4	61,316	3/4	72,898	3/4	84,437	3/4	96,025	3/4	107,614
7	3,888	7	15,479	7	27,062	7	38,389	7	49,973	7	61,557	7	73,138	7	84,678	7	96,267	7	107,855
1/4	4,127	1/4	15,721	1/4	27,296	1/4	38,630	1/4	50,214	1/4	61,798	1/4	73,379	1/4	84,920	1/4	96,508	1/4	108,097
1/2	4,366	1/2	15,963	1/2	27,531	1/2	38,872	1/2	50,456	1/2	62,040	1/2	73,620	1/2	85,161	1/2	96,750	1/2	108,338
3/4	4,605	3/4	16,205	3/4	27,765	3/4	39,113	3/4	50,697	3/4	62,281	3/4	73,861	3/4	85,402	3/4	96,991	3/4	108,579
8	4,845	8	16,447	8	28,000	8	39,354	8	50,938	8	62,522	8	74,101	8	85,644	8	97,232	8	108,821
1/4	5,085	1/4	16,689	1/4	28,234	1/4	39,596	1/4	51,180	1/4	62,764	1/4	74,342	1/4	85,885	1/4	97,474	1/4	109,062
1/2	5,325	1/2	16,931	1/2	28,468	1/2	39,837	1/2	51,421	1/2	63,005	1/2	74,583	1/2	86,127	1/2	97,715	1/2	109,304
3/4	5,566	3/4	17,173	3/4	28,702	3/4	40,078	3/4	51,662	3/4	63,246	3/4	74,824	3/4	86,368	3/4	97,957	3/4	109,545
9	5,806	9	17,415	9	28,936	9	40,320	9	51,904	9	63,488	9	75,064	9	86,610	9	98,198	9	109,787
1/4	6,048	1/4	17,656	1/4	29,171	1/4	40,561	1/4	52,145	1/4	63,729	1/4	75,304	1/4	86,851	1/4	98,440	1/4	110,028
1/2	6,289	1/2	17,898	1/2	29,405	1/2	40,802	1/2	52,386	1/2	63,970	1/2	75,544	1/2	87,093	1/2	98,681	1/2	110,269
3/4	6,530	3/4	18,140	3/4	29,639	3/4	41,044	3/4	52,628	3/4	64,212	3/4	75,784	3/4	87,334	3/4	98,922	3/4	110,511
10	6,771	10	18,382	10	29,873	10	41,285	10	52,869	10	64,453	10	76,024	10	87,575	10	99,164	10	110,752
1/4	7,013	1/4	18,624	1/4	30,107	1/4	41,526	1/4	53,110	1/4	64,694	1/4	76,264	1/4	87,817	1/4	99,405	1/4	110,994
1/2	7,255	1/2	18,866	1/2	30,341	1/2	41,768	1/2	53,352	1/2	64,936	1/2	76,504	1/2	88,058	1/2	99,647	1/2	111,235
3/4	7,496	3/4	19,108	3/4	30,576	3/4	42,009	3/4	53,593	3/4	65,177	3/4	76,744	3/4	88,300	3/4	99,888	3/4	111,477
11	7,738	11	19,350	11	30,810	11	42,250	11	53,834	11	65,418	11	76,984	11	88,541	11	100,130	11	111,718
1/4	7,980	1/4	19,592	1/4	31,044	1/4	42,492	1/4	54,076	1/4	65,660	1/4	77,224	1/4	88,783	1/4	100,371	1/4	111,959
1/2	8,222	1/2	19,834	1/2	31,278	1/2	42,733	1/2	54,317	1/2	65,901	1/2	77,464	1/2	89,024	1/2	100,612	1/2	112,201
3/4	8,464	3/4	20,076	3/4	31,512	3/4	42,974	3/4	54,558	3/4	66,142	3/4	77,704	3/4	89,265	3/4	100,854	3/4	112,442

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
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# BARGE "CBC 1410"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0								
	112,684		122,221		130,343		138,464		146,586										
1/4	112,925	1/4	122,390	1/4	130,512	1/4	138,633	1/4	146,755	1/4		1/4		1/4		1/4		1/4	
1/2	113,165	1/2	122,559	1/2	130,681	1/2	138,803	1/2	146,924	1/2		1/2		1/2		1/2		1/2	
3/4	113,406	3/4	122,728	3/4	130,850	3/4	138,972	3/4	147,094	3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>113,647</b>	<b>1</b>	<b>122,898</b>	<b>1</b>	<b>131,019</b>	<b>1</b>	<b>139,141</b>	<b>1</b>	<b>147,263</b>	<b>1</b>									
1/4	113,888	1/4	123,067	1/4	131,189	1/4	139,310	1/4	147,432	1/4		1/4		1/4		1/4		1/4	
1/2	114,129	1/2	123,236	1/2	131,358	1/2	139,479	1/2	147,601	1/2		1/2		1/2		1/2		1/2	
3/4	114,370	3/4	123,405	3/4	131,527	3/4	139,649	3/4	147,770	3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>114,611</b>	<b>2</b>	<b>123,574</b>	<b>2</b>	<b>131,696</b>	<b>2</b>	<b>139,818</b>	<b>2</b>	<b>147,940</b>	<b>2</b>									
1/4	114,852	1/4	123,744	1/4	131,865	1/4	139,987	1/4	148,109	1/4		1/4		1/4		1/4		1/4	
1/2	115,092	1/2	123,913	1/2	132,035	1/2	140,156	1/2	148,278	1/2		1/2		1/2		1/2		1/2	
3/4	115,333	3/4	124,082	3/4	132,204	3/4	140,325	3/4	148,447	3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>115,574</b>	<b>3</b>	<b>124,251</b>	<b>3</b>	<b>132,373</b>	<b>3</b>	<b>140,495</b>	<b>3</b>	<b>148,616</b>	<b>3</b>									
1/4	115,815	1/4	124,420	1/4	132,542	1/4	140,664	1/4	148,838	1/4		1/4		1/4		1/4		1/4	
1/2	116,056	1/2	124,590	1/2	132,711	1/2	140,833	1/2	149,060	1/2		1/2		1/2		1/2		1/2	
3/4	116,297	3/4	124,759	3/4	132,881	3/4	141,002	3/4	149,282	3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>116,538</b>	<b>4</b>	<b>124,928</b>	<b>4</b>	<b>133,050</b>	<b>4</b>	<b>141,171</b>	<b>4</b>	<b>149,503</b>	<b>4</b>									
1/4	116,778	1/4	125,097	1/4	133,219	1/4	141,341	1/4	149,685	1/4		1/4		1/4		1/4		1/4	
1/2	117,019	1/2	125,267	1/2	133,388	1/2	141,510	1/2	149,866	1/2		1/2		1/2		1/2		1/2	
3/4	117,260	3/4	125,436	3/4	133,557	3/4	141,679	3/4	150,048	3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>117,501</b>	<b>5</b>	<b>125,605</b>	<b>5</b>	<b>133,727</b>	<b>5</b>	<b>141,848</b>	<b>5</b>	<b>150,229</b>	<b>5</b>									
1/4	117,669	1/4	125,774	1/4	133,896	1/4	142,017	1/4	150,370	1/4		1/4		1/4		1/4		1/4	
1/2	117,837	1/2	125,943	1/2	134,065	1/2	142,187	1/2	150,511	1/2		1/2		1/2		1/2		1/2	
3/4	118,006	3/4	126,113	3/4	134,234	3/4	142,356	3/4	150,653	3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>118,174</b>	<b>6</b>	<b>126,282</b>	<b>6</b>	<b>134,403</b>	<b>6</b>	<b>142,525</b>	<b>6</b>	<b>150,794</b>	<b>6</b>									
1/4	118,342	1/4	126,451	1/4	134,573	1/4	142,694	1/4	150,894	1/4		1/4		1/4		1/4		1/4	
1/2	118,511	1/2	126,620	1/2	134,742	1/2	142,863	1/2	150,995	1/2		1/2		1/2		1/2		1/2	
3/4	118,680	3/4	126,789	3/4	134,911	3/4	143,033	3/4	151,096	3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>118,848</b>	<b>7</b>	<b>126,959</b>	<b>7</b>	<b>135,080</b>	<b>7</b>	<b>143,202</b>	<b>7</b>	<b>151,197</b>	<b>7</b>									
1/4	119,017	1/4	127,128	1/4	135,249	1/4	143,371	1/4	151,257	1/4		1/4		1/4		1/4		1/4	
1/2	119,185	1/2	127,297	1/2	135,419	1/2	143,540	1/2	151,318	1/2		1/2		1/2		1/2		1/2	
3/4	119,354	3/4	127,466	3/4	135,588	3/4	143,709	3/4	151,378	3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>119,523</b>	<b>8</b>	<b>127,635</b>	<b>8</b>	<b>135,757</b>	<b>8</b>	<b>143,879</b>	<b>8</b>	<b>151,439</b>	<b>8</b>									
1/4	119,691	1/4	127,805	1/4	135,926	1/4	144,048	1/4	151,459	1/4		1/4		1/4		1/4		1/4	
1/2	119,860	1/2	127,974	1/2	136,095	1/2	144,217	1/2	151,479	1/2		1/2		1/2		1/2		1/2	
3/4	120,029	3/4	128,143	3/4	136,265	3/4	144,386	3/4	151,499	3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>120,197</b>	<b>9</b>	<b>128,312</b>	<b>9</b>	<b>136,434</b>	<b>9</b>	<b>144,556</b>	<b>9</b>	<b>151,519</b>	<b>9</b>									
1/4	120,366	1/4	128,481	1/4	136,603	1/4	144,725	1/4	151,539	1/4		1/4		1/4		1/4		1/4	
1/2	120,535	1/2	128,651	1/2	136,772	1/2	144,894	1/2	151,559	1/2		1/2		1/2		1/2		1/2	
3/4	120,703	3/4	128,820	3/4	136,941	3/4	145,063	3/4	151,579	3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>120,872</b>	<b>10</b>	<b>128,989</b>	<b>10</b>	<b>137,111</b>	<b>10</b>	<b>145,232</b>	<b>10</b>	<b>151,599</b>	<b>10</b>									
1/4	121,040	1/4	129,158	1/4	137,280	1/4	145,402	1/4	151,619	1/4		1/4		1/4		1/4		1/4	
1/2	121,209	1/2	129,327	1/2	137,449	1/2	145,571	1/2	151,639	1/2		1/2		1/2		1/2		1/2	
3/4	121,378	3/4	129,497	3/4	137,618	3/4	145,740	3/4	151,659	3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>121,546</b>	<b>11</b>	<b>129,666</b>	<b>11</b>	<b>137,787</b>	<b>11</b>	<b>145,909</b>	<b>11</b>	<b>151,679</b>	<b>11</b>									
1/4	121,715	1/4	129,835	1/4	137,957	1/4	146,078	1/4	151,699	1/4		1/4		1/4		1/4		1/4	
1/2	121,884	1/2	130,004	1/2	138,126	1/2	146,248	1/2	151,719	1/2		1/2		1/2		1/2		1/2	
3/4	122,052	3/4	130,173	3/4	138,295	3/4	146,417	3/4	151,739	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

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



# BARGE "CBC 1410"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	39	0	10,068	0	23,506	0	36,780	0	50,055	0	63,492	0	76,930	0	90,368	0	103,805	0	117,243
1/4	63	1/4	10,348	1/4	23,786	1/4	37,052	1/4	50,335	1/4	63,772	1/4	77,210	1/4	90,648	1/4	104,085	1/4	117,523
1/2	86	1/2	10,628	1/2	24,065	1/2	37,323	1/2	50,615	1/2	64,052	1/2	77,490	1/2	90,928	1/2	104,365	1/2	117,803
3/4	109	3/4	10,908	3/4	24,345	3/4	37,595	3/4	50,895	3/4	64,332	3/4	77,770	3/4	91,208	3/4	104,645	3/4	118,083
1	133	1	11,188	1	24,625	1	37,867	1	51,174	1	64,612	1	78,050	1	91,488	1	104,925	1	118,363
1/4	203	1/4	11,468	1/4	24,905	1/4	38,139	1/4	51,454	1/4	64,892	1/4	78,330	1/4	91,767	1/4	105,205	1/4	118,643
1/2	273	1/2	11,748	1/2	25,185	1/2	38,410	1/2	51,734	1/2	65,172	1/2	78,610	1/2	92,047	1/2	105,485	1/2	118,923
3/4	343	3/4	12,028	3/4	25,465	3/4	38,682	3/4	52,014	3/4	65,452	3/4	78,890	3/4	92,327	3/4	105,765	3/4	119,203
2	413	2	12,308	2	25,745	2	38,954	2	52,294	2	65,732	2	79,170	2	92,607	2	106,045	2	119,483
1/4	529	1/4	12,588	1/4	26,025	1/4	39,226	1/4	52,574	1/4	66,012	1/4	79,450	1/4	92,887	1/4	106,325	1/4	119,763
1/2	646	1/2	12,868	1/2	26,305	1/2	39,497	1/2	52,854	1/2	66,292	1/2	79,730	1/2	93,167	1/2	106,605	1/2	120,043
3/4	763	3/4	13,148	3/4	26,585	3/4	39,769	3/4	53,134	3/4	66,572	3/4	80,010	3/4	93,447	3/4	106,885	3/4	120,323
3	879	3	13,428	3	26,865	3	40,041	3	53,414	3	66,852	3	80,289	3	93,727	3	107,165	3	120,602
1/4	1,042	1/4	13,708	1/4	27,145	1/4	40,312	1/4	53,694	1/4	67,132	1/4	80,569	1/4	94,007	1/4	107,445	1/4	120,882
1/2	1,206	1/2	13,988	1/2	27,425	1/2	40,584	1/2	53,974	1/2	67,412	1/2	80,849	1/2	94,287	1/2	107,725	1/2	121,162
3/4	1,369	3/4	14,267	3/4	27,705	3/4	40,856	3/4	54,254	3/4	67,692	3/4	81,129	3/4	94,567	3/4	108,005	3/4	121,442
4	1,532	4	14,547	4	27,985	4	41,128	4	54,534	4	67,972	4	81,409	4	94,847	4	108,285	4	121,722
1/4	1,742	1/4	14,827	1/4	28,265	1/4	41,400	1/4	54,814	1/4	68,252	1/4	81,689	1/4	95,127	1/4	108,565	1/4	122,002
1/2	1,952	1/2	15,107	1/2	28,545	1/2	41,672	1/2	55,094	1/2	68,531	1/2	81,969	1/2	95,407	1/2	108,845	1/2	122,282
3/4	2,162	3/4	15,387	3/4	28,824	3/4	41,944	3/4	55,374	3/4	68,811	3/4	82,249	3/4	95,687	3/4	109,124	3/4	122,562
5	2,372	5	15,667	5	29,104	5	42,216	5	55,654	5	69,091	5	82,529	5	95,967	5	109,404	5	122,842
1/4	2,628	1/4	15,947	1/4	29,384	1/4	42,496	1/4	55,934	1/4	69,371	1/4	82,809	1/4	96,247	1/4	109,684	1/4	123,122
1/2	2,884	1/2	16,227	1/2	29,664	1/2	42,776	1/2	56,214	1/2	69,651	1/2	83,089	1/2	96,527	1/2	109,964	1/2	123,402
3/4	3,140	3/4	16,507	3/4	29,944	3/4	43,056	3/4	56,494	3/4	69,931	3/4	83,369	3/4	96,807	3/4	110,244	3/4	123,682
6	3,396	6	16,787	6	30,224	6	43,336	6	56,774	6	70,211	6	83,649	6	97,087	6	110,524	6	123,962
1/4	3,670	1/4	17,067	1/4	30,504	1/4	43,616	1/4	57,053	1/4	70,491	1/4	83,929	1/4	97,367	1/4	110,804	1/4	124,242
1/2	3,944	1/2	17,347	1/2	30,784	1/2	43,896	1/2	57,333	1/2	70,771	1/2	84,209	1/2	97,646	1/2	111,084	1/2	124,522
3/4	4,219	3/4	17,627	3/4	31,064	3/4	44,176	3/4	57,613	3/4	71,051	3/4	84,489	3/4	97,926	3/4	111,364	3/4	124,802
7	4,493	7	17,907	7	31,344	7	44,456	7	57,893	7	71,331	7	84,769	7	98,206	7	111,644	7	125,082
1/4	4,770	1/4	18,187	1/4	31,616	1/4	44,736	1/4	58,173	1/4	71,611	1/4	85,049	1/4	98,486	1/4	111,924	1/4	125,362
1/2	5,047	1/2	18,467	1/2	31,888	1/2	45,016	1/2	58,453	1/2	71,891	1/2	85,329	1/2	98,766	1/2	112,204	1/2	125,642
3/4	5,324	3/4	18,747	3/4	32,160	3/4	45,296	3/4	58,733	3/4	72,171	3/4	85,609	3/4	99,046	3/4	112,484	3/4	125,922
8	5,600	8	19,026	8	32,432	8	45,575	8	59,013	8	72,451	8	85,888	8	99,326	8	112,764	8	126,202
1/4	5,879	1/4	19,306	1/4	32,704	1/4	45,855	1/4	59,293	1/4	72,731	1/4	86,168	1/4	99,606	1/4	113,044	1/4	126,481
1/2	6,157	1/2	19,586	1/2	32,976	1/2	46,135	1/2	59,573	1/2	73,011	1/2	86,448	1/2	99,886	1/2	113,324	1/2	126,761
3/4	6,435	3/4	19,866	3/4	33,247	3/4	46,415	3/4	59,853	3/4	73,291	3/4	86,728	3/4	100,166	3/4	113,604	3/4	127,041
9	6,713	9	20,146	9	33,519	9	46,695	9	60,133	9	73,571	9	87,008	9	100,446	9	113,884	9	127,321
1/4	6,992	1/4	20,426	1/4	33,791	1/4	46,975	1/4	60,413	1/4	73,851	1/4	87,288	1/4	100,726	1/4	114,164	1/4	127,601
1/2	7,272	1/2	20,706	1/2	34,063	1/2	47,255	1/2	60,693	1/2	74,131	1/2	87,568	1/2	101,006	1/2	114,444	1/2	127,881
3/4	7,551	3/4	20,986	3/4	34,334	3/4	47,535	3/4	60,973	3/4	74,410	3/4	87,848	3/4	101,286	3/4	114,724	3/4	128,161
10	7,830	10	21,266	10	34,606	10	47,815	10	61,253	10	74,690	10	88,128	10	101,566	10	115,003	10	128,441
1/4	8,110	1/4	21,546	1/4	34,878	1/4	48,095	1/4	61,533	1/4	74,970	1/4	88,408	1/4	101,846	1/4	115,283	1/4	128,721
1/2	8,389	1/2	21,826	1/2	35,150	1/2	48,375	1/2	61,813	1/2	75,250	1/2	88,688	1/2	102,126	1/2	115,563	1/2	129,001
3/4	8,669	3/4	22,106	3/4	35,421	3/4	48,655	3/4	62,093	3/4	75,530	3/4	88,968	3/4	102,406	3/4	115,843	3/4	129,281
11	8,949	11	22,386	11	35,693	11	48,935	11	62,373	11	75,810	11	89,248	11	102,686	11	116,123	11	129,561
1/4	9,229	1/4	22,666	1/4	35,965	1/4	49,215	1/4	62,653	1/4	76,090	1/4	89,528	1/4	102,966	1/4	116,403	1/4	129,841
1/2	9,508	1/2	22,946	1/2	36,237	1/2	49,495	1/2	62,932	1/2	76,370	1/2	89,808	1/2	103,245	1/2	116,683	1/2	130,121
3/4	9,788	3/4	23,226	3/4	36,508	3/4	49,775	3/4	63,212	3/4	76,650	3/4	90,088	3/4	103,525	3/4	116,963	3/4	130,401

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CBC 1410"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0								
1/4	130,961	1/4	144,398	1/4	157,836	1/4	171,274	1/4	184,711	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	131,241	1/2	144,678	1/2	158,116	1/2	171,554	1/2	184,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	131,521	3/4	144,958	3/4	158,396	3/4	171,834	3/4	185,271	3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>131,801</b>	<b>1</b>	<b>145,238</b>	<b>1</b>	<b>158,676</b>	<b>1</b>	<b>172,114</b>	<b>1</b>	<b>185,551</b>	<b>1</b>											
1/4	132,081	1/4	145,518	1/4	158,956	1/4	172,394	1/4	185,831	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	132,360	1/2	145,798	1/2	159,236	1/2	172,673	1/2	186,111	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	132,640	3/4	146,078	3/4	159,516	3/4	172,953	3/4	186,391	3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>132,920</b>	<b>2</b>	<b>146,358</b>	<b>2</b>	<b>159,796</b>	<b>2</b>	<b>173,233</b>	<b>2</b>	<b>186,671</b>	<b>2</b>											
1/4	133,200	1/4	146,638	1/4	160,076	1/4	173,513	1/4	186,951	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	133,480	1/2	146,918	1/2	160,356	1/2	173,793	1/2	187,231	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	133,760	3/4	147,198	3/4	160,636	3/4	174,073	3/4	187,511	3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>134,040</b>	<b>3</b>	<b>147,478</b>	<b>3</b>	<b>160,916</b>	<b>3</b>	<b>174,353</b>	<b>3</b>	<b>187,791</b>	<b>3</b>											
1/4	134,320	1/4	147,758	1/4	161,195	1/4	174,633	1/4	188,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	134,600	1/2	148,038	1/2	161,475	1/2	174,913	1/2	188,304	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	134,880	3/4	148,318	3/4	161,755	3/4	175,193	3/4	188,561	3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>135,160</b>	<b>4</b>	<b>148,598</b>	<b>4</b>	<b>162,035</b>	<b>4</b>	<b>175,473</b>	<b>4</b>	<b>188,817</b>	<b>4</b>											
1/4	135,440	1/4	148,878	1/4	162,315	1/4	175,753	1/4	189,027	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	135,720	1/2	149,158	1/2	162,595	1/2	176,033	1/2	189,237	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	136,000	3/4	149,438	3/4	162,875	3/4	176,313	3/4	189,447	3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>136,280</b>	<b>5</b>	<b>149,717</b>	<b>5</b>	<b>163,155</b>	<b>5</b>	<b>176,593</b>	<b>5</b>	<b>189,657</b>	<b>5</b>											
1/4	136,560	1/4	149,997	1/4	163,435	1/4	176,873	1/4	189,820	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	136,840	1/2	150,277	1/2	163,715	1/2	177,153	1/2	189,984	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	137,120	3/4	150,557	3/4	163,995	3/4	177,433	3/4	190,147	3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>137,400</b>	<b>6</b>	<b>150,837</b>	<b>6</b>	<b>164,275</b>	<b>6</b>	<b>177,713</b>	<b>6</b>	<b>190,310</b>	<b>6</b>											
1/4	137,680	1/4	151,117	1/4	164,555	1/4	177,993	1/4	190,427	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	137,959	1/2	151,397	1/2	164,835	1/2	178,273	1/2	190,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	138,239	3/4	151,677	3/4	165,115	3/4	178,552	3/4	190,660	3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>138,519</b>	<b>7</b>	<b>151,957</b>	<b>7</b>	<b>165,395</b>	<b>7</b>	<b>178,832</b>	<b>7</b>	<b>190,777</b>	<b>7</b>											
1/4	138,799	1/4	152,237	1/4	165,675	1/4	179,112	1/4	190,847	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	139,079	1/2	152,517	1/2	165,955	1/2	179,392	1/2	190,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	139,359	3/4	152,797	3/4	166,235	3/4	179,672	3/4	190,987	3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>139,639</b>	<b>8</b>	<b>153,077</b>	<b>8</b>	<b>166,515</b>	<b>8</b>	<b>179,952</b>	<b>8</b>	<b>191,057</b>	<b>8</b>											
1/4	139,919	1/4	153,357	1/4	166,795	1/4	180,232	1/4	191,080	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	140,199	1/2	153,637	1/2	167,074	1/2	180,512	1/2	191,104	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	140,479	3/4	153,917	3/4	167,354	3/4	180,792	3/4	191,128	3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>140,759</b>	<b>9</b>	<b>154,197</b>	<b>9</b>	<b>167,634</b>	<b>9</b>	<b>181,072</b>	<b>9</b>	<b>191,152</b>	<b>9</b>											
1/4	141,039	1/4	154,477	1/4	167,914	1/4	181,352	1/4	191,176	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	141,319	1/2	154,757	1/2	168,194	1/2	181,632	1/2	191,199	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	141,599	3/4	155,037	3/4	168,474	3/4	181,912	3/4	191,222	3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>141,879</b>	<b>10</b>	<b>155,316</b>	<b>10</b>	<b>168,754</b>	<b>10</b>	<b>182,192</b>	<b>10</b>	<b>191,246</b>	<b>10</b>											
1/4	142,159	1/4	155,596	1/4	169,034	1/4	182,472	1/4	191,269	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	142,439	1/2	155,876	1/2	169,314	1/2	182,752	1/2	191,292	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	142,719	3/4	156,156	3/4	169,594	3/4	183,032	3/4	191,315	3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>142,999</b>	<b>11</b>	<b>156,436</b>	<b>11</b>	<b>169,874</b>	<b>11</b>	<b>183,312</b>	<b>11</b>	<b>191,338</b>	<b>11</b>											
1/4	143,279	1/4	156,716	1/4	170,154	1/4	183,592	1/4	191,361	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	143,559	1/2	156,996	1/2	170,434	1/2	183,872	1/2	191,384	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	143,838	3/4	157,276	3/4	170,714	3/4	184,152	3/4	191,407	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

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



# BARGE "CBC 1410"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	39	0	8,988	0	20,977	0	32,952	0	44,930	0	56,919	0	68,909	0	80,898	0	92,888	0	104,878
1/4	60	1/4	9,237	1/4	21,227	1/4	33,201	1/4	45,179	1/4	57,169	1/4	69,159	1/4	81,148	1/4	93,138	1/4	105,127
1/2	81	1/2	9,487	1/2	21,476	1/2	33,450	1/2	45,429	1/2	57,419	1/2	69,408	1/2	81,398	1/2	93,388	1/2	105,377
3/4	102	3/4	9,737	3/4	21,726	3/4	33,699	3/4	45,679	3/4	57,669	3/4	69,658	3/4	81,648	3/4	93,637	3/4	105,627
1	123	1	9,987	1	21,976	1	33,948	1	45,929	1	57,918	1	69,908	1	81,898	1	93,887	1	105,877
1/4	185	1/4	10,236	1/4	22,226	1/4	34,197	1/4	46,179	1/4	58,168	1/4	70,158	1/4	82,147	1/4	94,137	1/4	106,127
1/2	248	1/2	10,486	1/2	22,475	1/2	34,446	1/2	46,428	1/2	58,418	1/2	70,408	1/2	82,397	1/2	94,387	1/2	106,376
3/4	310	3/4	10,736	3/4	22,725	3/4	34,695	3/4	46,678	3/4	58,668	3/4	70,657	3/4	82,647	3/4	94,637	3/4	106,626
2	372	2	10,986	2	22,975	2	34,944	2	46,928	2	58,918	2	70,907	2	82,897	2	94,886	2	106,876
1/4	477	1/4	11,236	1/4	23,225	1/4	35,193	1/4	47,178	1/4	59,167	1/4	71,157	1/4	83,146	1/4	95,136	1/4	107,126
1/2	581	1/2	11,485	1/2	23,474	1/2	35,442	1/2	47,428	1/2	59,417	1/2	71,407	1/2	83,396	1/2	95,386	1/2	107,375
3/4	685	3/4	11,735	3/4	23,724	3/4	35,691	3/4	47,677	3/4	59,667	3/4	71,656	3/4	83,646	3/4	95,636	3/4	107,625
3	789	3	11,985	3	23,974	3	35,940	3	47,927	3	59,917	3	71,906	3	83,896	3	95,885	3	107,875
1/4	934	1/4	12,235	1/4	24,224	1/4	36,189	1/4	48,177	1/4	60,166	1/4	72,156	1/4	84,146	1/4	96,135	1/4	108,125
1/2	1,080	1/2	12,484	1/2	24,474	1/2	36,439	1/2	48,427	1/2	60,416	1/2	72,406	1/2	84,395	1/2	96,385	1/2	108,375
3/4	1,226	3/4	12,734	3/4	24,723	3/4	36,688	3/4	48,676	3/4	60,666	3/4	72,656	3/4	84,645	3/4	96,635	3/4	108,624
4	1,371	4	12,984	4	24,973	4	36,937	4	48,926	4	60,916	4	72,905	4	84,895	4	96,885	4	108,874
1/4	1,559	1/4	13,234	1/4	25,223	1/4	37,186	1/4	49,176	1/4	61,166	1/4	73,155	1/4	85,145	1/4	97,134	1/4	109,124
1/2	1,746	1/2	13,484	1/2	25,473	1/2	37,436	1/2	49,426	1/2	61,415	1/2	73,405	1/2	85,395	1/2	97,384	1/2	109,374
3/4	1,933	3/4	13,733	3/4	25,722	3/4	37,686	3/4	49,676	3/4	61,665	3/4	73,655	3/4	85,644	3/4	97,634	3/4	109,623
5	2,121	5	13,983	5	25,972	5	37,936	5	49,926	5	61,915	5	73,905	5	85,894	5	97,884	5	109,873
1/4	2,349	1/4	14,233	1/4	26,222	1/4	38,186	1/4	50,175	1/4	62,165	1/4	74,154	1/4	86,144	1/4	98,133	1/4	110,123
1/2	2,577	1/2	14,483	1/2	26,472	1/2	38,435	1/2	50,425	1/2	62,415	1/2	74,404	1/2	86,394	1/2	98,383	1/2	110,373
3/4	2,806	3/4	14,732	3/4	26,722	3/4	38,685	3/4	50,675	3/4	62,664	3/4	74,654	3/4	86,643	3/4	98,633	3/4	110,623
6	3,034	6	14,982	6	26,971	6	38,935	6	50,924	6	62,914	6	74,904	6	86,893	6	98,883	6	110,872
1/4	3,279	1/4	15,232	1/4	27,221	1/4	39,185	1/4	51,174	1/4	63,164	1/4	75,153	1/4	87,143	1/4	99,133	1/4	111,122
1/2	3,524	1/2	15,482	1/2	27,470	1/2	39,434	1/2	51,424	1/2	63,414	1/2	75,403	1/2	87,393	1/2	99,382	1/2	111,372
3/4	3,768	3/4	15,731	3/4	27,720	3/4	39,684	3/4	51,674	3/4	63,663	3/4	75,653	3/4	87,643	3/4	99,632	3/4	111,622
7	4,013	7	15,981	7	27,969	7	39,934	7	51,924	7	63,913	7	75,903	7	87,892	7	99,882	7	111,872
1/4	4,260	1/4	16,231	1/4	28,218	1/4	40,184	1/4	52,173	1/4	64,163	1/4	76,153	1/4	88,142	1/4	100,132	1/4	112,121
1/2	4,507	1/2	16,481	1/2	28,468	1/2	40,434	1/2	52,423	1/2	64,413	1/2	76,402	1/2	88,392	1/2	100,382	1/2	112,371
3/4	4,754	3/4	16,731	3/4	28,717	3/4	40,683	3/4	52,673	3/4	64,663	3/4	76,652	3/4	88,642	3/4	100,631	3/4	112,621
8	5,001	8	16,980	8	28,967	8	40,933	8	52,923	8	64,912	8	76,902	8	88,891	8	100,881	8	112,871
1/4	5,249	1/4	17,230	1/4	29,216	1/4	41,183	1/4	53,173	1/4	65,162	1/4	77,152	1/4	89,141	1/4	101,131	1/4	113,120
1/2	5,498	1/2	17,480	1/2	29,465	1/2	41,433	1/2	53,422	1/2	65,412	1/2	77,401	1/2	89,391	1/2	101,381	1/2	113,370
3/4	5,746	3/4	17,730	3/4	29,714	3/4	41,683	3/4	53,672	3/4	65,662	3/4	77,651	3/4	89,641	3/4	101,630	3/4	113,620
9	5,994	9	17,979	9	29,963	9	41,932	9	53,922	9	65,911	9	77,901	9	89,891	9	101,880	9	113,870
1/4	6,243	1/4	18,229	1/4	30,212	1/4	42,182	1/4	54,172	1/4	66,161	1/4	78,151	1/4	90,140	1/4	102,130	1/4	114,120
1/2	6,492	1/2	18,479	1/2	30,461	1/2	42,432	1/2	54,421	1/2	66,411	1/2	78,401	1/2	90,390	1/2	102,380	1/2	114,369
3/4	6,741	3/4	18,729	3/4	30,710	3/4	42,682	3/4	54,671	3/4	66,661	3/4	78,650	3/4	90,640	3/4	102,630	3/4	114,619
10	6,990	10	18,979	10	30,959	10	42,931	10	54,921	10	66,911	10	78,900	10	90,890	10	102,879	10	114,869
1/4	7,240	1/4	19,228	1/4	31,208	1/4	43,181	1/4	55,171	1/4	67,160	1/4	79,150	1/4	91,140	1/4	103,129	1/4	115,119
1/2	7,489	1/2	19,478	1/2	31,457	1/2	43,431	1/2	55,421	1/2	67,410	1/2	79,400	1/2	91,389	1/2	103,379	1/2	115,368
3/4	7,739	3/4	19,728	3/4	31,706	3/4	43,681	3/4	55,670	3/4	67,660	3/4	79,650	3/4	91,639	3/4	103,629	3/4	115,618
11	7,989	11	19,978	11	31,955	11	43,931	11	55,920	11	67,910	11	79,899	11	91,889	11	103,878	11	115,868
1/4	8,238	1/4	20,227	1/4	32,204	1/4	44,180	1/4	56,170	1/4	68,160	1/4	80,149	1/4	92,139	1/4	104,128	1/4	116,118
1/2	8,488	1/2	20,477	1/2	32,454	1/2	44,430	1/2	56,420	1/2	68,409	1/2	80,399	1/2	92,388	1/2	104,378	1/2	116,368
3/4	8,738	3/4	20,727	3/4	32,703	3/4	44,680	3/4	56,670	3/4	68,659	3/4	80,649	3/4	92,638	3/4	104,628	3/4	116,617

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CBC 1410"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN									
0	116,867	0	128,857	0	140,846	0	152,836	0	164,826	0		0		0		0		0	
1/4	117,117	1/4	129,107	1/4	141,096	1/4	153,086	1/4	165,075	1/4		1/4		1/4		1/4		1/4	
1/2	117,367	1/2	129,356	1/2	141,346	1/2	153,335	1/2	165,325	1/2		1/2		1/2		1/2		1/2	
3/4	117,617	3/4	129,606	3/4	141,596	3/4	153,585	3/4	165,575	3/4		3/4		3/4		3/4		3/4	
1	117,866	1	129,856	1	141,845	1	153,835	1	165,825	1		1		1		1		1	
1/4	118,116	1/4	130,106	1/4	142,095	1/4	154,085	1/4	166,074	1/4		1/4		1/4		1/4		1/4	
1/2	118,366	1/2	130,355	1/2	142,345	1/2	154,335	1/2	166,324	1/2		1/2		1/2		1/2		1/2	
3/4	118,616	3/4	130,605	3/4	142,595	3/4	154,584	3/4	166,574	3/4		3/4		3/4		3/4		3/4	
2	118,865	2	130,855	2	142,845	2	154,834	2	166,824	2		2		2		2		2	
1/4	119,115	1/4	131,105	1/4	143,094	1/4	155,084	1/4	167,074	1/4		1/4		1/4		1/4		1/4	
1/2	119,365	1/2	131,355	1/2	143,344	1/2	155,334	1/2	167,323	1/2		1/2		1/2		1/2		1/2	
3/4	119,615	3/4	131,604	3/4	143,594	3/4	155,584	3/4	167,573	3/4		3/4		3/4		3/4		3/4	
3	119,865	3	131,854	3	143,844	3	155,833	3	167,823	3		3		3		3		3	
1/4	120,114	1/4	132,104	1/4	144,094	1/4	156,083	1/4	168,052	1/4		1/4		1/4		1/4		1/4	
1/2	120,364	1/2	132,354	1/2	144,343	1/2	156,333	1/2	168,281	1/2		1/2		1/2		1/2		1/2	
3/4	120,614	3/4	132,604	3/4	144,593	3/4	156,583	3/4	168,510	3/4		3/4		3/4		3/4		3/4	
4	120,864	4	132,853	4	144,843	4	156,832	4	168,739	4		4		4		4		4	
1/4	121,113	1/4	133,103	1/4	145,093	1/4	157,082	1/4	168,926	1/4		1/4		1/4		1/4		1/4	
1/2	121,363	1/2	133,353	1/2	145,342	1/2	157,332	1/2	169,113	1/2		1/2		1/2		1/2		1/2	
3/4	121,613	3/4	133,603	3/4	145,592	3/4	157,582	3/4	169,301	3/4		3/4		3/4		3/4		3/4	
5	121,863	5	133,852	5	145,842	5	157,832	5	169,488	5		5		5		5		5	
1/4	122,113	1/4	134,102	1/4	146,092	1/4	158,081	1/4	169,634	1/4		1/4		1/4		1/4		1/4	
1/2	122,362	1/2	134,352	1/2	146,342	1/2	158,331	1/2	169,780	1/2		1/2		1/2		1/2		1/2	
3/4	122,612	3/4	134,602	3/4	146,591	3/4	158,581	3/4	169,925	3/4		3/4		3/4		3/4		3/4	
6	122,862	6	134,852	6	146,841	6	158,831	6	170,071	6		6		6		6		6	
1/4	123,112	1/4	135,101	1/4	147,091	1/4	159,080	1/4	170,175	1/4		1/4		1/4		1/4		1/4	
1/2	123,362	1/2	135,351	1/2	147,341	1/2	159,330	1/2	170,279	1/2		1/2		1/2		1/2		1/2	
3/4	123,611	3/4	135,601	3/4	147,590	3/4	159,580	3/4	170,383	3/4		3/4		3/4		3/4		3/4	
7	123,861	7	135,851	7	147,840	7	159,830	7	170,487	7		7		7		7		7	
1/4	124,111	1/4	136,100	1/4	148,090	1/4	160,080	1/4	170,550	1/4		1/4		1/4		1/4		1/4	
1/2	124,361	1/2	136,350	1/2	148,340	1/2	160,329	1/2	170,612	1/2		1/2		1/2		1/2		1/2	
3/4	124,610	3/4	136,600	3/4	148,590	3/4	160,579	3/4	170,675	3/4		3/4		3/4		3/4		3/4	
8	124,860	8	136,850	8	148,839	8	160,829	8	170,737	8		8		8		8		8	
1/4	125,110	1/4	137,100	1/4	149,089	1/4	161,079	1/4	170,758	1/4		1/4		1/4		1/4		1/4	
1/2	125,360	1/2	137,349	1/2	149,339	1/2	161,329	1/2	170,779	1/2		1/2		1/2		1/2		1/2	
3/4	125,610	3/4	137,599	3/4	149,589	3/4	161,578	3/4		3/4		3/4		3/4		3/4		3/4	
9	125,859	9	137,849	9	149,839	9	161,828	9		9		9		9		9		9	
1/4	126,109	1/4	138,099	1/4	150,088	1/4	162,078	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,359	1/2	138,349	1/2	150,338	1/2	162,328	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,609	3/4	138,598	3/4	150,588	3/4	162,577	3/4		3/4		3/4		3/4		3/4		3/4	
10	126,859	10	138,848	10	150,838	10	162,827	10		10		10		10		10		10	
1/4	127,108	1/4	139,098	1/4	151,087	1/4	163,077	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,358	1/2	139,348	1/2	151,337	1/2	163,327	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,608	3/4	139,597	3/4	151,587	3/4	163,577	3/4		3/4		3/4		3/4		3/4		3/4	
11	127,858	11	139,847	11	151,837	11	163,826	11		11		11		11		11		11	
1/4	128,107	1/4	140,097	1/4	152,087	1/4	164,076	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,357	1/2	140,347	1/2	152,336	1/2	164,326	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	128,607	3/4	140,597	3/4	152,586	3/4	164,576	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "CBC 1410"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>										
1 CENTER	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-1/8	01-1/8	- 01-1/2	01-1/2	- 01-7/8	01-7/8	- 02-1/4	02-1/4
2 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8	01-1/8	- 01-1/8
3 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4

(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 00-3/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/4"

LENGTH BETWEEN DRAFT MARKS: 178'-06"

March 28, 2019

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

<http://www.pmacorp.net>



# BARGE "CBC 1410"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	144,386	0	136,265	0	128,143	0	120,029	0	109,545	0	97,957	0	86,368
1/4		1/4		1/4	151,479	1/4	144,217	1/4	136,095	1/4	127,974	1/4	119,860	1/4	109,304	1/4	97,715	1/4	86,127
1/2		1/2		1/2	151,459	1/2	144,048	1/2	135,926	1/2	127,805	1/2	119,691	1/2	109,062	1/2	97,474	1/2	85,885
3/4		3/4		3/4	151,439	3/4	143,879	3/4	135,757	3/4	127,635	3/4	119,523	3/4	108,821	3/4	97,232	3/4	85,644
1	1	1	1	1	151,378	1	143,709	1	135,588	1	127,466	1	119,354	1	108,579	1	96,991	1	85,402
1/4		1/4		1/4	151,318	1/4	143,540	1/4	135,419	1/4	127,297	1/4	119,185	1/4	108,338	1/4	96,750	1/4	85,161
1/2		1/2		1/2	151,257	1/2	143,371	1/2	135,249	1/2	127,128	1/2	119,017	1/2	108,097	1/2	96,508	1/2	84,920
3/4		3/4		3/4	151,197	3/4	143,202	3/4	135,080	3/4	126,959	3/4	118,848	3/4	107,855	3/4	96,267	3/4	84,678
2	2	2	2	2	151,096	2	143,033	2	134,911	2	126,789	2	118,680	2	107,614	2	96,025	2	84,437
1/4		1/4		1/4	150,995	1/4	142,863	1/4	134,742	1/4	126,620	1/4	118,511	1/4	107,372	1/4	95,784	1/4	84,195
1/2		1/2		1/2	150,894	1/2	142,694	1/2	134,573	1/2	126,451	1/2	118,342	1/2	107,131	1/2	95,542	1/2	83,954
3/4		3/4		3/4	150,794	3/4	142,525	3/4	134,403	3/4	126,282	3/4	118,174	3/4	106,890	3/4	95,301	3/4	83,712
3	3	3	3	3	150,653	3	142,356	3	134,234	3	126,113	3	118,006	3	106,648	3	95,060	3	83,471
1/4		1/4		1/4	150,511	1/4	142,187	1/4	134,065	1/4	125,943	1/4	117,837	1/4	106,407	1/4	94,818	1/4	83,230
1/2		1/2		1/2	150,370	1/2	142,017	1/2	133,896	1/2	125,774	1/2	117,669	1/2	106,165	1/2	94,577	1/2	82,988
3/4		3/4		3/4	150,229	3/4	141,848	3/4	133,727	3/4	125,605	3/4	117,501	3/4	105,924	3/4	94,335	3/4	82,747
4	4	4	4	4	150,048	4	141,679	4	133,557	4	125,436	4	117,260	4	105,682	4	94,094	4	82,506
1/4		1/4		1/4	149,866	1/4	141,510	1/4	133,388	1/4	125,267	1/4	117,019	1/4	105,441	1/4	93,853	1/4	82,265
1/2		1/2		1/2	149,685	1/2	141,341	1/2	133,219	1/2	125,097	1/2	116,778	1/2	105,200	1/2	93,611	1/2	82,025
3/4		3/4		3/4	149,503	3/4	141,171	3/4	133,050	3/4	124,928	3/4	116,538	3/4	104,958	3/4	93,370	3/4	81,784
5	5	5	5	5	149,282	5	141,002	5	132,881	5	124,759	5	116,297	5	104,717	5	93,128	5	81,544
1/4		1/4		1/4	149,060	1/4	140,833	1/4	132,711	1/4	124,590	1/4	116,056	1/4	104,475	1/4	92,887	1/4	81,304
1/2		1/2		1/2	148,838	1/2	140,664	1/2	132,542	1/2	124,420	1/2	115,815	1/2	104,234	1/2	92,645	1/2	81,064
3/4		3/4		3/4	148,616	3/4	140,495	3/4	132,373	3/4	124,251	3/4	115,574	3/4	103,992	3/4	92,404	3/4	80,824
6	6	6	6	6	148,447	6	140,325	6	132,204	6	124,082	6	115,333	6	103,751	6	92,163	6	80,584
1/4		1/4		1/4	148,278	1/4	140,156	1/4	132,035	1/4	123,913	1/4	115,092	1/4	103,510	1/4	91,921	1/4	80,344
1/2		1/2		1/2	148,109	1/2	139,987	1/2	131,865	1/2	123,744	1/2	114,852	1/2	103,268	1/2	91,680	1/2	80,104
3/4		3/4		3/4	147,940	3/4	139,818	3/4	131,696	3/4	123,574	3/4	114,611	3/4	103,027	3/4	91,438	3/4	79,864
7	7	7	7	7	147,770	7	139,649	7	131,527	7	123,405	7	114,370	7	102,785	7	91,197	7	79,624
1/4		1/4		1/4	147,601	1/4	139,479	1/4	131,358	1/4	123,236	1/4	114,129	1/4	102,544	1/4	90,955	1/4	79,384
1/2		1/2		1/2	147,432	1/2	139,310	1/2	131,189	1/2	123,067	1/2	113,888	1/2	102,302	1/2	90,714	1/2	79,144
3/4		3/4		3/4	147,263	3/4	139,141	3/4	131,019	3/4	122,898	3/4	113,647	3/4	102,061	3/4	90,473	3/4	78,904
8	8	8	8	8	147,094	8	138,972	8	130,850	8	122,728	8	113,406	8	101,820	8	90,231	8	78,664
1/4		1/4		1/4	146,924	1/4	138,803	1/4	130,681	1/4	122,559	1/4	113,165	1/4	101,578	1/4	89,990	1/4	78,424
1/2		1/2		1/2	146,755	1/2	138,633	1/2	130,512	1/2	122,390	1/2	112,925	1/2	101,337	1/2	89,748	1/2	78,184
3/4		3/4		3/4	146,586	3/4	138,464	3/4	130,343	3/4	122,221	3/4	112,684	3/4	101,095	3/4	89,507	3/4	77,944
9	9	9	9	9	146,417	9	138,295	9	130,173	9	122,052	9	112,442	9	100,854	9	89,265	9	77,704
1/4		1/4		1/4	146,248	1/4	138,126	1/4	130,004	1/4	121,884	1/4	112,201	1/4	100,612	1/4	89,024	1/4	77,464
1/2		1/2		1/2	146,078	1/2	137,957	1/2	129,835	1/2	121,715	1/2	111,959	1/2	100,371	1/2	88,783	1/2	77,224
3/4		3/4		3/4	145,909	3/4	137,787	3/4	129,666	3/4	121,546	3/4	111,718	3/4	100,130	3/4	88,541	3/4	76,984
10	10	10	10	10	145,740	10	137,618	10	129,497	10	121,378	10	111,477	10	99,888	10	88,300	10	76,744
1/4		1/4		1/4	145,571	1/4	137,449	1/4	129,327	1/4	121,209	1/4	111,235	1/4	99,647	1/4	88,058	1/4	76,504
1/2		1/2		1/2	145,402	1/2	137,280	1/2	129,158	1/2	121,040	1/2	110,994	1/2	99,405	1/2	87,817	1/2	76,264
3/4		3/4		3/4	145,232	3/4	137,111	3/4	128,989	3/4	120,872	3/4	110,752	3/4	99,164	3/4	87,575	3/4	76,024
11	11	11	11	11	145,063	11	136,941	11	128,820	11	120,703	11	110,511	11	98,922	11	87,334	11	75,784
1/4		1/4		1/4	144,894	1/4	136,772	1/4	128,651	1/4	120,535	1/4	110,269	1/4	98,681	1/4	87,093	1/4	75,544
1/2		1/2		1/2	144,725	1/2	136,603	1/2	128,481	1/2	120,366	1/2	110,028	1/2	98,440	1/2	86,851	1/2	75,304
3/4		3/4		3/4	144,556	3/4	136,434	3/4	128,312	3/4	120,197	3/4	109,787	3/4	98,198	3/4	86,610	3/4	75,064

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "CBC 1410"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 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	74,824	0	63,246	0	51,662	0	40,078	0	28,702	0	17,173	0	5,566	0		0		0	
1/4	74,583	1/4	63,005	1/4	51,421	1/4	39,837	1/4	28,468	1/4	16,931	1/4	5,325	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,342	1/2	62,764	1/2	51,180	1/2	39,596	1/2	28,234	1/2	16,689	1/2	5,085	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,101	3/4	62,522	3/4	50,938	3/4	39,354	3/4	28,000	3/4	16,447	3/4	4,845	3/4	3/4	3/4	3/4	3/4	3/4
1	73,861	1	62,281	1	50,697	1	39,113	1	27,765	1	16,205	1	4,605	1	1	1	1	1	1
1/4	73,620	1/4	62,040	1/4	50,456	1/4	38,872	1/4	27,531	1/4	15,963	1/4	4,366	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,379	1/2	61,798	1/2	50,214	1/2	38,630	1/2	27,296	1/2	15,721	1/2	4,127	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,138	3/4	61,557	3/4	49,973	3/4	38,389	3/4	27,062	3/4	15,479	3/4	3,888	3/4	3/4	3/4	3/4	3/4	3/4
2	72,898	2	61,316	2	49,732	2	38,148	2	26,827	2	15,237	2	3,651	2	2	2	2	2	2
1/4	72,657	1/4	61,074	1/4	49,490	1/4	37,906	1/4	26,593	1/4	14,995	1/4	3,414	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,416	1/2	60,833	1/2	49,249	1/2	37,665	1/2	26,358	1/2	14,753	1/2	3,176	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,175	3/4	60,592	3/4	49,008	3/4	37,424	3/4	26,123	3/4	14,512	3/4	2,939	3/4	3/4	3/4	3/4	3/4	3/4
3	71,934	3	60,350	3	48,766	3	37,182	3	25,882	3	14,270	3	2,718	3	3	3	3	3	3
1/4	71,693	1/4	60,109	1/4	48,525	1/4	36,941	1/4	25,640	1/4	14,028	1/4	2,497	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,451	1/2	59,868	1/2	48,284	1/2	36,700	1/2	25,398	1/2	13,786	1/2	2,276	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,210	3/4	59,626	3/4	48,042	3/4	36,458	3/4	25,156	3/4	13,544	3/4	2,055	3/4	3/4	3/4	3/4	3/4	3/4
4	70,969	4	59,385	4	47,801	4	36,217	4	24,914	4	13,302	4	1,874	4	4	4	4	4	4
1/4	70,727	1/4	59,144	1/4	47,560	1/4	35,976	1/4	24,672	1/4	13,060	1/4	1,692	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,486	1/2	58,902	1/2	47,318	1/2	35,734	1/2	24,430	1/2	12,818	1/2	1,511	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,245	3/4	58,661	3/4	47,077	3/4	35,493	3/4	24,188	3/4	12,576	3/4	1,329	3/4	3/4	3/4	3/4	3/4	3/4
5	70,003	5	58,420	5	46,836	5	35,259	5	23,946	5	12,334	5	1,188	5	5	5	5	5	5
1/4	69,762	1/4	58,178	1/4	46,594	1/4	35,025	1/4	23,704	1/4	12,092	1/4	1,047	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,521	1/2	57,937	1/2	46,353	1/2	34,790	1/2	23,462	1/2	11,851	1/2	906	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,279	3/4	57,696	3/4	46,112	3/4	34,556	3/4	23,220	3/4	11,609	3/4	765	3/4	3/4	3/4	3/4	3/4	3/4
6	69,038	6	57,454	6	45,870	6	34,322	6	22,979	6	11,367	6	664	6	6	6	6	6	6
1/4	68,797	1/4	57,213	1/4	45,629	1/4	34,088	1/4	22,737	1/4	11,125	1/4	563	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,555	1/2	56,972	1/2	45,388	1/2	33,854	1/2	22,495	1/2	10,883	1/2	463	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,314	3/4	56,730	3/4	45,146	3/4	33,620	3/4	22,253	3/4	10,641	3/4	362	3/4	3/4	3/4	3/4	3/4	3/4
7	68,073	7	56,489	7	44,905	7	33,386	7	22,011	7	10,399	7	301	7	7	7	7	7	7
1/4	67,832	1/4	56,248	1/4	44,664	1/4	33,151	1/4	21,769	1/4	10,157	1/4	241	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,590	1/2	56,006	1/2	44,422	1/2	32,917	1/2	21,527	1/2	9,915	1/2	180	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,349	3/4	55,765	3/4	44,181	3/4	32,683	3/4	21,285	3/4	9,673	3/4	120	3/4	3/4	3/4	3/4	3/4	3/4
8	67,108	8	55,524	8	43,940	8	32,449	8	21,043	8	9,431	8	100	8	8	8	8	8	8
1/4	66,866	1/4	55,282	1/4	43,698	1/4	32,215	1/4	20,801	1/4	9,189	1/4	80	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,625	1/2	55,041	1/2	43,457	1/2	31,981	1/2	20,559	1/2	8,948	1/2	60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,384	3/4	54,800	3/4	43,216	3/4	31,746	3/4	20,318	3/4	8,706	3/4	39	3/4	3/4	3/4	3/4	3/4	3/4
9	66,142	9	54,558	9	42,974	9	31,512	9	20,076	9	8,464	9		9	9	9	9	9	9
1/4	65,901	1/4	54,317	1/4	42,733	1/4	31,278	1/4	19,834	1/4	8,222	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,660	1/2	54,076	1/2	42,492	1/2	31,044	1/2	19,592	1/2	7,980	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,418	3/4	53,834	3/4	42,250	3/4	30,810	3/4	19,350	3/4	7,738	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	65,177	10	53,593	10	42,009	10	30,576	10	19,108	10	7,496	10		10	10	10	10	10	10
1/4	64,936	1/4	53,352	1/4	41,768	1/4	30,341	1/4	18,866	1/4	7,255	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,694	1/2	53,110	1/2	41,526	1/2	30,107	1/2	18,624	1/2	7,013	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	64,453	3/4	52,869	3/4	41,285	3/4	29,873	3/4	18,382	3/4	6,771	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	64,212	11	52,628	11	41,044	11	29,639	11	18,140	11	6,530	11		11	11	11	11	11	11
1/4	63,970	1/4	52,386	1/4	40,802	1/4	29,405	1/4	17,898	1/4	6,289	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,729	1/2	52,145	1/2	40,561	1/2	29,171	1/2	17,656	1/2	6,048	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,488	3/4	51,904	3/4	40,320	3/4	28,936	3/4	17,415	3/4	5,806	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "CBC 1410"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	181,072	0	167,634	0	154,197	0	140,759	0	127,321	0	113,884	0	100,446	0	100,446
1/4	1/4	1/4	1/4	1/4	180,792	1/4	167,354	1/4	153,917	1/4	140,479	1/4	127,041	1/4	113,604	1/4	100,166	1/4	100,166
1/2	1/2	1/2	1/2	191,104	180,512	1/2	167,074	1/2	153,637	1/2	140,199	1/2	126,761	1/2	113,324	1/2	99,886	1/2	99,886
3/4	3/4	3/4	3/4	191,080	180,232	3/4	166,795	3/4	153,357	3/4	139,919	3/4	126,481	3/4	113,044	3/4	99,606	3/4	99,606
1	1	1	1	191,057	179,952	1	166,515	1	153,077	1	139,639	1	126,202	1	112,764	1	99,326	1	99,326
1/4	1/4	1/4	1/4	190,987	179,672	1/4	166,235	1/4	152,797	1/4	139,359	1/4	125,922	1/4	112,484	1/4	99,046	1/4	99,046
1/2	1/2	1/2	1/2	190,917	179,392	1/2	165,955	1/2	152,517	1/2	139,079	1/2	125,642	1/2	112,204	1/2	98,766	1/2	98,766
3/4	3/4	3/4	3/4	190,847	179,112	3/4	165,675	3/4	152,237	3/4	138,799	3/4	125,362	3/4	111,924	3/4	98,486	3/4	98,486
2	2	2	2	190,777	178,832	2	165,395	2	151,957	2	138,519	2	125,082	2	111,644	2	98,206	2	98,206
1/4	1/4	1/4	1/4	190,660	178,552	1/4	165,115	1/4	151,677	1/4	138,239	1/4	124,802	1/4	111,364	1/4	97,926	1/4	97,926
1/2	1/2	1/2	1/2	190,544	178,273	1/2	164,835	1/2	151,397	1/2	137,959	1/2	124,522	1/2	111,084	1/2	97,646	1/2	97,646
3/4	3/4	3/4	3/4	190,427	177,993	3/4	164,555	3/4	151,117	3/4	137,680	3/4	124,242	3/4	110,804	3/4	97,367	3/4	97,367
3	3	3	3	190,310	177,713	3	164,275	3	150,837	3	137,400	3	123,962	3	110,524	3	97,087	3	97,087
1/4	1/4	1/4	1/4	190,147	177,433	1/4	163,995	1/4	150,557	1/4	137,120	1/4	123,682	1/4	110,244	1/4	96,807	1/4	96,807
1/2	1/2	1/2	1/2	189,984	177,153	1/2	163,715	1/2	150,277	1/2	136,840	1/2	123,402	1/2	109,964	1/2	96,527	1/2	96,527
3/4	3/4	3/4	3/4	189,820	176,873	3/4	163,435	3/4	149,997	3/4	136,560	3/4	123,122	3/4	109,684	3/4	96,247	3/4	96,247
4	4	4	4	189,657	176,593	4	163,155	4	149,717	4	136,280	4	122,842	4	109,404	4	95,967	4	95,967
1/4	1/4	1/4	1/4	189,447	176,313	1/4	162,875	1/4	149,438	1/4	136,000	1/4	122,562	1/4	109,124	1/4	95,687	1/4	95,687
1/2	1/2	1/2	1/2	189,237	176,033	1/2	162,595	1/2	149,158	1/2	135,720	1/2	122,282	1/2	108,845	1/2	95,407	1/2	95,407
3/4	3/4	3/4	3/4	189,027	175,753	3/4	162,315	3/4	148,878	3/4	135,440	3/4	122,002	3/4	108,565	3/4	95,127	3/4	95,127
5	5	5	5	188,817	175,473	5	162,035	5	148,598	5	135,160	5	121,722	5	108,285	5	94,847	5	94,847
1/4	1/4	1/4	1/4	188,561	175,193	1/4	161,755	1/4	148,318	1/4	134,880	1/4	121,442	1/4	108,005	1/4	94,567	1/4	94,567
1/2	1/2	1/2	1/2	188,304	174,913	1/2	161,475	1/2	148,038	1/2	134,600	1/2	121,162	1/2	107,725	1/2	94,287	1/2	94,287
3/4	3/4	3/4	3/4	188,047	174,633	3/4	161,195	3/4	147,758	3/4	134,320	3/4	120,882	3/4	107,445	3/4	94,007	3/4	94,007
6	6	6	6	187,791	174,353	6	160,916	6	147,478	6	134,040	6	120,602	6	107,165	6	93,727	6	93,727
1/4	1/4	1/4	1/4	187,511	174,073	1/4	160,636	1/4	147,198	1/4	133,760	1/4	120,323	1/4	106,885	1/4	93,447	1/4	93,447
1/2	1/2	1/2	1/2	187,231	173,793	1/2	160,356	1/2	146,918	1/2	133,480	1/2	120,043	1/2	106,605	1/2	93,167	1/2	93,167
3/4	3/4	3/4	3/4	186,951	173,513	3/4	160,076	3/4	146,638	3/4	133,200	3/4	119,763	3/4	106,325	3/4	92,887	3/4	92,887
7	7	7	7	186,671	173,233	7	159,796	7	146,358	7	132,920	7	119,483	7	106,045	7	92,607	7	92,607
1/4	1/4	1/4	1/4	186,391	172,953	1/4	159,516	1/4	146,078	1/4	132,640	1/4	119,203	1/4	105,765	1/4	92,327	1/4	92,327
1/2	1/2	1/2	1/2	186,111	172,673	1/2	159,236	1/2	145,798	1/2	132,360	1/2	118,923	1/2	105,485	1/2	92,047	1/2	92,047
3/4	3/4	3/4	3/4	185,831	172,394	3/4	158,956	3/4	145,518	3/4	132,081	3/4	118,643	3/4	105,205	3/4	91,767	3/4	91,767
8	8	8	8	185,551	172,114	8	158,676	8	145,238	8	131,801	8	118,363	8	104,925	8	91,488	8	91,488
1/4	1/4	1/4	1/4	185,271	171,834	1/4	158,396	1/4	144,958	1/4	131,521	1/4	118,083	1/4	104,645	1/4	91,208	1/4	91,208
1/2	1/2	1/2	1/2	184,991	171,554	1/2	158,116	1/2	144,678	1/2	131,241	1/2	117,803	1/2	104,365	1/2	90,928	1/2	90,928
3/4	3/4	3/4	3/4	184,711	171,274	3/4	157,836	3/4	144,398	3/4	130,961	3/4	117,523	3/4	104,085	3/4	90,648	3/4	90,648
9	9	9	9	184,431	170,994	9	157,556	9	144,118	9	130,681	9	117,243	9	103,805	9	90,368	9	90,368
1/4	1/4	1/4	1/4	184,152	170,714	1/4	157,276	1/4	143,838	1/4	130,401	1/4	116,963	1/4	103,525	1/4	90,088	1/4	90,088
1/2	1/2	1/2	1/2	183,872	170,434	1/2	156,996	1/2	143,559	1/2	130,121	1/2	116,683	1/2	103,245	1/2	89,808	1/2	89,808
3/4	3/4	3/4	3/4	183,592	170,154	3/4	156,716	3/4	143,279	3/4	129,841	3/4	116,403	3/4	102,966	3/4	89,528	3/4	89,528
10	10	10	10	183,312	169,874	10	156,436	10	142,999	10	129,561	10	116,123	10	102,686	10	89,248	10	89,248
1/4	1/4	1/4	1/4	183,032	169,594	1/4	156,156	1/4	142,719	1/4	129,281	1/4	115,843	1/4	102,406	1/4	88,968	1/4	88,968
1/2	1/2	1/2	1/2	182,752	169,314	1/2	155,876	1/2	142,439	1/2	129,001	1/2	115,563	1/2	102,126	1/2	88,688	1/2	88,688
3/4	3/4	3/4	3/4	182,472	169,034	3/4	155,596	3/4	142,159	3/4	128,721	3/4	115,283	3/4	101,846	3/4	88,408	3/4	88,408
11	11	11	11	182,192	168,754	11	155,316	11	141,879	11	128,441	11	115,003	11	101,566	11	88,128	11	88,128
1/4	1/4	1/4	1/4	181,912	168,474	1/4	155,037	1/4	141,599	1/4	128,161	1/4	114,724	1/4	101,286	1/4	87,848	1/4	87,848
1/2	1/2	1/2	1/2	181,632	168,194	1/2	154,757	1/2	141,319	1/2	127,881	1/2	114,444	1/2	101,006	1/2	87,568	1/2	87,568
3/4	3/4	3/4	3/4	181,352	167,914	3/4	154,477	3/4	141,039	3/4	127,601	3/4	114,164	3/4	100,726	3/4	87,288	3/4	87,288

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CBC 1410"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

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	87,008	0	73,571	0	60,133	0	46,695	0	33,519	0	20,146	0	6,713	0		0		0	
1/4	86,728	1/4	73,291	1/4	59,853	1/4	46,415	1/4	33,247	1/4	19,866	1/4	6,435	1/4	1/4	1/4	1/4	1/4	1/4
1/2	86,448	1/2	73,011	1/2	59,573	1/2	46,135	1/2	32,976	1/2	19,586	1/2	6,157	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,168	3/4	72,731	3/4	59,293	3/4	45,855	3/4	32,704	3/4	19,306	3/4	5,879	3/4	3/4	3/4	3/4	3/4	3/4
1	85,888	1	72,451	1	59,013	1	45,575	1	32,432	1	19,026	1	5,600	1	1	1	1	1	1
1/4	85,609	1/4	72,171	1/4	58,733	1/4	45,296	1/4	32,160	1/4	18,747	1/4	5,324	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,329	1/2	71,891	1/2	58,453	1/2	45,016	1/2	31,888	1/2	18,467	1/2	5,047	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,049	3/4	71,611	3/4	58,173	3/4	44,736	3/4	31,616	3/4	18,187	3/4	4,770	3/4	3/4	3/4	3/4	3/4	3/4
2	84,769	2	71,331	2	57,893	2	44,456	2	31,344	2	17,907	2	4,493	2	2	2	2	2	2
1/4	84,489	1/4	71,051	1/4	57,613	1/4	44,176	1/4	31,064	1/4	17,627	1/4	4,219	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,209	1/2	70,771	1/2	57,333	1/2	43,896	1/2	30,784	1/2	17,347	1/2	3,944	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,929	3/4	70,491	3/4	57,053	3/4	43,616	3/4	30,504	3/4	17,067	3/4	3,670	3/4	3/4	3/4	3/4	3/4	3/4
3	83,649	3	70,211	3	56,774	3	43,336	3	30,224	3	16,787	3	3,396	3	3	3	3	3	3
1/4	83,369	1/4	69,931	1/4	56,494	1/4	43,056	1/4	29,944	1/4	16,507	1/4	3,140	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,089	1/2	69,651	1/2	56,214	1/2	42,776	1/2	29,664	1/2	16,227	1/2	2,884	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82,809	3/4	69,371	3/4	55,934	3/4	42,496	3/4	29,384	3/4	15,947	3/4	2,628	3/4	3/4	3/4	3/4	3/4	3/4
4	82,529	4	69,091	4	55,654	4	42,216	4	29,104	4	15,667	4	2,372	4	4	4	4	4	4
1/4	82,249	1/4	68,811	1/4	55,374	1/4	41,944	1/4	28,824	1/4	15,387	1/4	2,162	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,969	1/2	68,531	1/2	55,094	1/2	41,672	1/2	28,545	1/2	15,107	1/2	1,952	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,689	3/4	68,252	3/4	54,814	3/4	41,400	3/4	28,265	3/4	14,827	3/4	1,742	3/4	3/4	3/4	3/4	3/4	3/4
5	81,409	5	67,972	5	54,534	5	41,128	5	27,985	5	14,547	5	1,532	5	5	5	5	5	5
1/4	81,129	1/4	67,692	1/4	54,254	1/4	40,856	1/4	27,705	1/4	14,267	1/4	1,369	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,849	1/2	67,412	1/2	53,974	1/2	40,584	1/2	27,425	1/2	13,988	1/2	1,206	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,569	3/4	67,132	3/4	53,694	3/4	40,312	3/4	27,145	3/4	13,708	3/4	1,042	3/4	3/4	3/4	3/4	3/4	3/4
6	80,289	6	66,852	6	53,414	6	40,041	6	26,865	6	13,428	6	879	6	6	6	6	6	6
1/4	80,010	1/4	66,572	1/4	53,134	1/4	39,769	1/4	26,585	1/4	13,148	1/4	763	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,730	1/2	66,292	1/2	52,854	1/2	39,497	1/2	26,305	1/2	12,868	1/2	646	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,450	3/4	66,012	3/4	52,574	3/4	39,226	3/4	26,025	3/4	12,588	3/4	529	3/4	3/4	3/4	3/4	3/4	3/4
7	79,170	7	65,732	7	52,294	7	38,954	7	25,745	7	12,308	7	413	7	7	7	7	7	7
1/4	78,890	1/4	65,452	1/4	52,014	1/4	38,682	1/4	25,465	1/4	12,028	1/4	343	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,610	1/2	65,172	1/2	51,734	1/2	38,410	1/2	25,185	1/2	11,748	1/2	273	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,330	3/4	64,892	3/4	51,454	3/4	38,139	3/4	24,905	3/4	11,468	3/4	203	3/4	3/4	3/4	3/4	3/4	3/4
8	78,050	8	64,612	8	51,174	8	37,867	8	24,625	8	11,188	8	133	8	8	8	8	8	8
1/4	77,770	1/4	64,332	1/4	50,895	1/4	37,595	1/4	24,345	1/4	10,908	1/4	109	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,490	1/2	64,052	1/2	50,615	1/2	37,323	1/2	24,065	1/2	10,628	1/2	86	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,210	3/4	63,772	3/4	50,335	3/4	37,052	3/4	23,786	3/4	10,348	3/4	63	3/4	3/4	3/4	3/4	3/4	3/4
9	76,930	9	63,492	9	50,055	9	36,780	9	23,506	9	10,068	9	39	9	9	9	9	9	9
1/4	76,650	1/4	63,212	1/4	49,775	1/4	36,508	1/4	23,226	1/4	9,788	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,370	1/2	62,932	1/2	49,495	1/2	36,237	1/2	22,946	1/2	9,508	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,090	3/4	62,653	3/4	49,215	3/4	35,965	3/4	22,666	3/4	9,229	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	75,810	10	62,373	10	48,935	10	35,693	10	22,386	10	8,949	10		10	10	10	10	10	10
1/4	75,530	1/4	62,093	1/4	48,655	1/4	35,421	1/4	22,106	1/4	8,669	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,250	1/2	61,813	1/2	48,375	1/2	35,150	1/2	21,826	1/2	8,389	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,970	3/4	61,533	3/4	48,095	3/4	34,878	3/4	21,546	3/4	8,110	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	74,690	11	61,253	11	47,815	11	34,606	11	21,266	11	7,830	11		11	11	11	11	11	11
1/4	74,410	1/4	60,973	1/4	47,535	1/4	34,334	1/4	20,986	1/4	7,551	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,131	1/2	60,693	1/2	47,255	1/2	34,063	1/2	20,706	1/2	7,272	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,851	3/4	60,413	3/4	46,975	3/4	33,791	3/4	20,426	3/4	6,992	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

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



# BARGE "CBC 1410"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	161,828	0	149,839	0	137,849	0	125,859	0	113,870	0	101,880	0	89,891
1/4	1/4	1/4	1/4	1/4	1/4	1/4	161,578	1/4	149,589	1/4	137,599	1/4	125,610	1/4	113,620	1/4	101,630	1/4	89,641
1/2	1/2	1/2	1/2	1/2	170,779	1/2	161,329	1/2	149,339	1/2	137,349	1/2	125,360	1/2	113,370	1/2	101,381	1/2	89,391
3/4	3/4	3/4	3/4	3/4	170,758	3/4	161,079	3/4	149,089	3/4	137,100	3/4	125,110	3/4	113,120	3/4	101,131	3/4	89,141
1	1	1	1	1	170,737	1	160,829	1	148,839	1	136,850	1	124,860	1	112,871	1	100,881	1	88,891
1/4	1/4	1/4	1/4	1/4	170,675	1/4	160,579	1/4	148,590	1/4	136,600	1/4	124,810	1/4	112,821	1/4	100,831	1/4	88,842
1/2	1/2	1/2	1/2	1/2	170,612	1/2	160,329	1/2	148,340	1/2	136,350	1/2	124,361	1/2	112,371	1/2	100,382	1/2	88,392
3/4	3/4	3/4	3/4	3/4	170,550	3/4	160,080	3/4	148,090	3/4	136,100	3/4	124,111	3/4	112,121	3/4	100,132	3/4	88,142
2	2	2	2	2	170,487	2	159,830	2	147,840	2	135,851	2	123,861	2	111,872	2	99,882	2	87,892
1/4	1/4	1/4	1/4	1/4	170,383	1/4	159,580	1/4	147,590	1/4	135,601	1/4	123,611	1/4	111,622	1/4	99,632	1/4	87,643
1/2	1/2	1/2	1/2	1/2	170,279	1/2	159,330	1/2	147,341	1/2	135,351	1/2	123,362	1/2	111,372	1/2	99,382	1/2	87,393
3/4	3/4	3/4	3/4	3/4	170,175	3/4	159,080	3/4	147,091	3/4	135,101	3/4	123,112	3/4	111,122	3/4	99,133	3/4	87,143
3	3	3	3	3	170,071	3	158,831	3	146,841	3	134,852	3	122,862	3	110,872	3	98,882	3	86,892
1/4	1/4	1/4	1/4	1/4	169,925	1/4	158,581	1/4	146,591	1/4	134,602	1/4	122,612	1/4	110,623	1/4	98,633	1/4	86,643
1/2	1/2	1/2	1/2	1/2	169,780	1/2	158,331	1/2	146,342	1/2	134,352	1/2	122,362	1/2	110,373	1/2	98,383	1/2	86,394
3/4	3/4	3/4	3/4	3/4	169,634	3/4	158,081	3/4	146,092	3/4	134,102	3/4	122,113	3/4	110,123	3/4	98,133	3/4	86,144
4	4	4	4	4	169,488	4	157,832	4	145,842	4	133,852	4	121,863	4	109,873	4	97,884	4	85,894
1/4	1/4	1/4	1/4	1/4	169,301	1/4	157,582	1/4	145,592	1/4	133,603	1/4	121,613	1/4	109,623	1/4	97,634	1/4	85,644
1/2	1/2	1/2	1/2	1/2	169,113	1/2	157,332	1/2	145,342	1/2	133,353	1/2	121,363	1/2	109,374	1/2	97,384	1/2	85,395
3/4	3/4	3/4	3/4	3/4	168,926	3/4	157,082	3/4	145,093	3/4	133,103	3/4	121,113	3/4	109,124	3/4	97,134	3/4	85,145
5	5	5	5	5	168,739	5	156,832	5	144,843	5	132,853	5	120,864	5	108,874	5	96,885	5	84,895
1/4	1/4	1/4	1/4	1/4	168,510	1/4	156,583	1/4	144,593	1/4	132,604	1/4	120,614	1/4	108,624	1/4	96,635	1/4	84,645
1/2	1/2	1/2	1/2	1/2	168,281	1/2	156,333	1/2	144,343	1/2	132,354	1/2	120,364	1/2	108,375	1/2	96,385	1/2	84,395
3/4	3/4	3/4	3/4	3/4	168,052	3/4	156,083	3/4	144,094	3/4	132,104	3/4	120,114	3/4	108,125	3/4	96,135	3/4	84,146
6	6	6	6	6	167,823	6	155,833	6	143,844	6	131,854	6	119,865	6	107,875	6	95,885	6	83,896
1/4	1/4	1/4	1/4	1/4	167,573	1/4	155,584	1/4	143,594	1/4	131,604	1/4	119,615	1/4	107,625	1/4	95,636	1/4	83,646
1/2	1/2	1/2	1/2	1/2	167,323	1/2	155,334	1/2	143,344	1/2	131,355	1/2	119,365	1/2	107,375	1/2	95,386	1/2	83,396
3/4	3/4	3/4	3/4	3/4	167,074	3/4	155,084	3/4	143,094	3/4	131,105	3/4	119,115	3/4	107,126	3/4	95,136	3/4	83,146
7	7	7	7	7	166,824	7	154,834	7	142,845	7	130,855	7	118,865	7	106,876	7	94,886	7	82,897
1/4	1/4	1/4	1/4	1/4	166,574	1/4	154,584	1/4	142,595	1/4	130,605	1/4	118,616	1/4	106,626	1/4	94,637	1/4	82,647
1/2	1/2	1/2	1/2	1/2	166,324	1/2	154,335	1/2	142,345	1/2	130,355	1/2	118,366	1/2	106,376	1/2	94,387	1/2	82,397
3/4	3/4	3/4	3/4	3/4	166,074	3/4	154,085	3/4	142,095	3/4	130,106	3/4	118,116	3/4	106,126	3/4	94,137	3/4	82,147
8	8	8	8	8	165,825	8	153,835	8	141,845	8	129,856	8	117,866	8	105,877	8	93,887	8	81,898
1/4	1/4	1/4	1/4	1/4	165,575	1/4	153,585	1/4	141,596	1/4	129,606	1/4	117,617	1/4	105,627	1/4	93,637	1/4	81,648
1/2	1/2	1/2	1/2	1/2	165,325	1/2	153,335	1/2	141,346	1/2	129,356	1/2	117,367	1/2	105,377	1/2	93,388	1/2	81,398
3/4	3/4	3/4	3/4	3/4	165,075	3/4	153,086	3/4	141,096	3/4	129,107	3/4	117,117	3/4	105,127	3/4	93,138	3/4	81,148
9	9	9	9	9	164,826	9	152,836	9	140,846	9	128,857	9	116,867	9	104,878	9	92,888	9	80,898
1/4	1/4	1/4	1/4	1/4	164,576	1/4	152,586	1/4	140,597	1/4	128,607	1/4	116,617	1/4	104,628	1/4	92,638	1/4	80,649
1/2	1/2	1/2	1/2	1/2	164,326	1/2	152,336	1/2	140,347	1/2	128,357	1/2	116,368	1/2	104,378	1/2	92,388	1/2	80,399
3/4	3/4	3/4	3/4	3/4	164,076	3/4	152,087	3/4	140,097	3/4	128,107	3/4	116,118	3/4	104,128	3/4	92,139	3/4	80,149
10	10	10	10	10	163,826	10	151,837	10	139,847	10	127,858	10	115,868	10	103,878	10	91,889	10	79,899
1/4	1/4	1/4	1/4	1/4	163,577	1/4	151,587	1/4	139,597	1/4	127,608	1/4	115,618	1/4	103,629	1/4	91,639	1/4	79,650
1/2	1/2	1/2	1/2	1/2	163,327	1/2	151,337	1/2	139,348	1/2	127,358	1/2	115,368	1/2	103,379	1/2	91,389	1/2	79,400
3/4	3/4	3/4	3/4	3/4	163,077	3/4	151,087	3/4	139,098	3/4	127,108	3/4	115,119	3/4	103,129	3/4	91,140	3/4	79,150
11	11	11	11	11	162,827	11	150,838	11	138,848	11	126,859	11	114,869	11	102,879	11	90,890	11	78,900
1/4	1/4	1/4	1/4	1/4	162,577	1/4	150,588	1/4	138,598	1/4	126,609	1/4	114,619	1/4	102,630	1/4	90,640	1/4	78,650
1/2	1/2	1/2	1/2	1/2	162,328	1/2	150,338	1/2	138,349	1/2	126,359	1/2	114,369	1/2	102,380	1/2	90,390	1/2	78,401
3/4	3/4	3/4	3/4	3/4	162,078	3/4	150,088	3/4	138,099	3/4	126,109	3/4	114,120	3/4	102,130	3/4	90,140	3/4	78,151

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 THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "CBC 1410"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0										
1/4	77,651	1/4	65,662	1/4	53,672	1/4	41,683	1/4	29,714	1/4	17,730	1/4	5,746	1/4		1/4		1/4		1/4	
1/2	77,401	1/2	65,412	1/2	53,422	1/2	41,433	1/2	29,465	1/2	17,480	1/2	5,498	1/2		1/2		1/2		1/2	
3/4	77,152	3/4	65,162	3/4	53,173	3/4	41,183	3/4	29,216	3/4	17,230	3/4	5,249	3/4		3/4		3/4		3/4	
<b>1</b>	<b>76,902</b>	<b>1</b>	<b>64,912</b>	<b>1</b>	<b>52,923</b>	<b>1</b>	<b>40,933</b>	<b>1</b>	<b>28,967</b>	<b>1</b>	<b>16,980</b>	<b>1</b>	<b>5,001</b>	<b>1</b>							
1/4	76,652	1/4	64,663	1/4	52,673	1/4	40,683	1/4	28,717	1/4	16,731	1/4	4,754	1/4		1/4		1/4		1/4	
1/2	76,402	1/2	64,413	1/2	52,423	1/2	40,434	1/2	28,468	1/2	16,481	1/2	4,507	1/2		1/2		1/2		1/2	
3/4	76,153	3/4	64,163	3/4	52,173	3/4	40,184	3/4	28,218	3/4	16,231	3/4	4,260	3/4		3/4		3/4		3/4	
<b>2</b>	<b>75,903</b>	<b>2</b>	<b>63,913</b>	<b>2</b>	<b>51,924</b>	<b>2</b>	<b>39,934</b>	<b>2</b>	<b>27,969</b>	<b>2</b>	<b>15,981</b>	<b>2</b>	<b>4,013</b>	<b>2</b>							
1/4	75,653	1/4	63,663	1/4	51,674	1/4	39,684	1/4	27,720	1/4	15,731	1/4	3,768	1/4		1/4		1/4		1/4	
1/2	75,403	1/2	63,414	1/2	51,424	1/2	39,434	1/2	27,470	1/2	15,482	1/2	3,524	1/2		1/2		1/2		1/2	
3/4	75,153	3/4	63,164	3/4	51,174	3/4	39,185	3/4	27,221	3/4	15,232	3/4	3,279	3/4		3/4		3/4		3/4	
<b>3</b>	<b>74,904</b>	<b>3</b>	<b>62,914</b>	<b>3</b>	<b>50,924</b>	<b>3</b>	<b>38,935</b>	<b>3</b>	<b>26,971</b>	<b>3</b>	<b>14,982</b>	<b>3</b>	<b>3,034</b>	<b>3</b>							
1/4	74,654	1/4	62,664	1/4	50,675	1/4	38,685	1/4	26,722	1/4	14,732	1/4	2,806	1/4		1/4		1/4		1/4	
1/2	74,404	1/2	62,415	1/2	50,425	1/2	38,435	1/2	26,472	1/2	14,483	1/2	2,577	1/2		1/2		1/2		1/2	
3/4	74,154	3/4	62,165	3/4	50,175	3/4	38,186	3/4	26,222	3/4	14,233	3/4	2,349	3/4		3/4		3/4		3/4	
<b>4</b>	<b>73,905</b>	<b>4</b>	<b>61,915</b>	<b>4</b>	<b>49,925</b>	<b>4</b>	<b>37,936</b>	<b>4</b>	<b>25,972</b>	<b>4</b>	<b>13,983</b>	<b>4</b>	<b>2,121</b>	<b>4</b>							
1/4	73,655	1/4	61,665	1/4	49,676	1/4	37,686	1/4	25,722	1/4	13,733	1/4	1,933	1/4		1/4		1/4		1/4	
1/2	73,405	1/2	61,415	1/2	49,426	1/2	37,436	1/2	25,473	1/2	13,484	1/2	1,746	1/2		1/2		1/2		1/2	
3/4	73,155	3/4	61,166	3/4	49,176	3/4	37,186	3/4	25,223	3/4	13,234	3/4	1,559	3/4		3/4		3/4		3/4	
<b>5</b>	<b>72,905</b>	<b>5</b>	<b>60,916</b>	<b>5</b>	<b>48,926</b>	<b>5</b>	<b>36,937</b>	<b>5</b>	<b>24,973</b>	<b>5</b>	<b>12,984</b>	<b>5</b>	<b>1,371</b>	<b>5</b>							
1/4	72,656	1/4	60,666	1/4	48,676	1/4	36,688	1/4	24,723	1/4	12,734	1/4	1,226	1/4		1/4		1/4		1/4	
1/2	72,406	1/2	60,416	1/2	48,427	1/2	36,439	1/2	24,474	1/2	12,484	1/2	1,080	1/2		1/2		1/2		1/2	
3/4	72,156	3/4	60,166	3/4	48,177	3/4	36,189	3/4	24,224	3/4	12,235	3/4	934	3/4		3/4		3/4		3/4	
<b>6</b>	<b>71,906</b>	<b>6</b>	<b>59,917</b>	<b>6</b>	<b>47,927</b>	<b>6</b>	<b>35,940</b>	<b>6</b>	<b>23,974</b>	<b>6</b>	<b>11,985</b>	<b>6</b>	<b>789</b>	<b>6</b>							
1/4	71,656	1/4	59,667	1/4	47,677	1/4	35,691	1/4	23,724	1/4	11,735	1/4	685	1/4		1/4		1/4		1/4	
1/2	71,407	1/2	59,417	1/2	47,428	1/2	35,442	1/2	23,474	1/2	11,485	1/2	581	1/2		1/2		1/2		1/2	
3/4	71,157	3/4	59,167	3/4	47,178	3/4	35,193	3/4	23,225	3/4	11,236	3/4	477	3/4		3/4		3/4		3/4	
<b>7</b>	<b>70,907</b>	<b>7</b>	<b>58,918</b>	<b>7</b>	<b>46,928</b>	<b>7</b>	<b>34,944</b>	<b>7</b>	<b>22,975</b>	<b>7</b>	<b>10,986</b>	<b>7</b>	<b>372</b>	<b>7</b>							
1/4	70,657	1/4	58,668	1/4	46,678	1/4	34,695	1/4	22,725	1/4	10,736	1/4	310	1/4		1/4		1/4		1/4	
1/2	70,408	1/2	58,418	1/2	46,428	1/2	34,446	1/2	22,475	1/2	10,486	1/2	248	1/2		1/2		1/2		1/2	
3/4	70,158	3/4	58,168	3/4	46,179	3/4	34,197	3/4	22,226	3/4	10,236	3/4	185	3/4		3/4		3/4		3/4	
<b>8</b>	<b>69,908</b>	<b>8</b>	<b>57,918</b>	<b>8</b>	<b>45,929</b>	<b>8</b>	<b>33,948</b>	<b>8</b>	<b>21,976</b>	<b>8</b>	<b>9,987</b>	<b>8</b>	<b>123</b>	<b>8</b>							
1/4	69,658	1/4	57,669	1/4	45,679	1/4	33,699	1/4	21,726	1/4	9,737	1/4	102	1/4		1/4		1/4		1/4	
1/2	69,408	1/2	57,419	1/2	45,429	1/2	33,450	1/2	21,476	1/2	9,487	1/2	81	1/2		1/2		1/2		1/2	
3/4	69,159	3/4	57,169	3/4	45,179	3/4	33,201	3/4	21,227	3/4	9,237	3/4	60	3/4		3/4		3/4		3/4	
<b>9</b>	<b>68,909</b>	<b>9</b>	<b>56,919</b>	<b>9</b>	<b>44,930</b>	<b>9</b>	<b>32,952</b>	<b>9</b>	<b>20,977</b>	<b>9</b>	<b>8,988</b>	<b>9</b>	<b>39</b>	<b>9</b>							
1/4	68,659	1/4	56,670	1/4	44,680	1/4	32,703	1/4	20,727	1/4	8,738	1/4		1/4		1/4		1/4		1/4	
1/2	68,409	1/2	56,420	1/2	44,430	1/2	32,454	1/2	20,477	1/2	8,488	1/2		1/2		1/2		1/2		1/2	
3/4	68,160	3/4	56,170	3/4	44,180	3/4	32,204	3/4	20,227	3/4	8,238	3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>67,910</b>	<b>10</b>	<b>55,920</b>	<b>10</b>	<b>43,931</b>	<b>10</b>	<b>31,955</b>	<b>10</b>	<b>19,978</b>	<b>10</b>	<b>7,989</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>
1/4	67,660	1/4	55,670	1/4	43,681	1/4	31,706	1/4	19,728	1/4	7,739	1/4		1/4		1/4		1/4		1/4	
1/2	67,410	1/2	55,421	1/2	43,431	1/2	31,457	1/2	19,478	1/2	7,489	1/2		1/2		1/2		1/2		1/2	
3/4	67,160	3/4	55,171	3/4	43,181	3/4	31,208	3/4	19,228	3/4	7,240	3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>66,911</b>	<b>11</b>	<b>54,921</b>	<b>11</b>	<b>42,931</b>	<b>11</b>	<b>30,959</b>	<b>11</b>	<b>18,979</b>	<b>11</b>	<b>6,990</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>
1/4	66,661	1/4	54,671	1/4	42,682	1/4	30,710	1/4	18,729	1/4	6,741	1/4		1/4		1/4		1/4		1/4	
1/2	66,411	1/2	54,421	1/2	42,432	1/2	30,461	1/2	18,479	1/2	6,492	1/2		1/2		1/2		1/2		1/2	
3/4	66,161	3/4	54,172	3/4	42,182	3/4	30,212	3/4	18,229	3/4	6,243	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2019 SW - JS  
CALCULATED: 03/28/2019 CL  
PRINTED: 03/28/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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