



# BARGE "CBC 1413"

## INNAGE 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	00-3/8	- 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 INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/4"

LENGTH BETWEEN DRAFT MARKS: 176'-06"

June 25, 2019

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

<http://www.pmacorp.net>



# BARGE "CBC 1413"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

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	8,717	0	20,344	0	31,787	0	43,271	0	54,870	0	66,469	0	78,045	0	89,622	0	101,226
1/4	60	1/4	8,959	1/4	20,586	1/4	32,022	1/4	43,513	1/4	55,112	1/4	66,711	1/4	78,285	1/4	89,864	1/4	101,468
1/2	80	1/2	9,201	1/2	20,828	1/2	32,256	1/2	43,755	1/2	55,354	1/2	66,953	1/2	78,525	1/2	90,106	1/2	101,709
3/4	100	3/4	9,444	3/4	21,070	3/4	32,491	3/4	43,996	3/4	55,595	3/4	67,194	3/4	78,766	3/4	90,348	3/4	101,951
1	120	1	9,686	1	21,313	1	32,725	1	44,238	1	55,837	1	67,436	1	79,006	1	90,589	1	102,193
1/4	181	1/4	9,928	1/4	21,555	1/4	32,960	1/4	44,480	1/4	56,079	1/4	67,677	1/4	79,246	1/4	90,831	1/4	102,435
1/2	241	1/2	10,170	1/2	21,797	1/2	33,194	1/2	44,721	1/2	56,320	1/2	67,919	1/2	79,487	1/2	91,073	1/2	102,676
3/4	302	3/4	10,412	3/4	22,039	3/4	33,429	3/4	44,963	3/4	56,562	3/4	68,161	3/4	79,727	3/4	91,315	3/4	102,918
2	362	2	10,655	2	22,282	2	33,663	2	45,205	2	56,803	2	68,402	2	79,967	2	91,556	2	103,160
1/4	463	1/4	10,897	1/4	22,524	1/4	33,898	1/4	45,446	1/4	57,045	1/4	68,644	1/4	80,208	1/4	91,798	1/4	103,401
1/2	564	1/2	11,139	1/2	22,766	1/2	34,132	1/2	45,688	1/2	57,287	1/2	68,886	1/2	80,448	1/2	92,040	1/2	103,643
3/4	665	3/4	11,381	3/4	23,008	3/4	34,366	3/4	45,929	3/4	57,528	3/4	69,127	3/4	80,688	3/4	92,282	3/4	103,885
3	766	3	11,624	3	23,250	3	34,601	3	46,171	3	57,770	3	69,369	3	80,928	3	92,523	3	104,127
1/4	907	1/4	11,866	1/4	23,493	1/4	34,835	1/4	46,413	1/4	58,012	1/4	69,611	1/4	81,169	1/4	92,765	1/4	104,368
1/2	1,049	1/2	12,108	1/2	23,735	1/2	35,070	1/2	46,654	1/2	58,253	1/2	69,852	1/2	81,409	1/2	93,007	1/2	104,610
3/4	1,190	3/4	12,350	3/4	23,977	3/4	35,304	3/4	46,896	3/4	58,495	3/4	70,094	3/4	81,649	3/4	93,248	3/4	104,852
4	1,331	4	12,592	4	24,219	4	35,539	4	47,138	4	58,737	4	70,336	4	81,890	4	93,490	4	105,094
1/4	1,513	1/4	12,835	1/4	24,462	1/4	35,780	1/4	47,379	1/4	58,978	1/4	70,577	1/4	82,131	1/4	93,732	1/4	105,335
1/2	1,694	1/2	13,077	1/2	24,704	1/2	36,022	1/2	47,621	1/2	59,220	1/2	70,819	1/2	82,372	1/2	93,974	1/2	105,577
3/4	1,876	3/4	13,319	3/4	24,946	3/4	36,264	3/4	47,863	3/4	59,462	3/4	71,060	3/4	82,613	3/4	94,215	3/4	105,819
5	2,058	5	13,561	5	25,188	5	36,505	5	48,104	5	59,703	5	71,302	5	82,854	5	94,457	5	106,061
1/4	2,279	1/4	13,804	1/4	25,431	1/4	36,747	1/4	48,346	1/4	59,945	1/4	71,544	1/4	83,095	1/4	94,699	1/4	106,302
1/2	2,500	1/2	14,046	1/2	25,673	1/2	36,989	1/2	48,588	1/2	60,186	1/2	71,785	1/2	83,337	1/2	94,941	1/2	106,544
3/4	2,722	3/4	14,288	3/4	25,915	3/4	37,230	3/4	48,829	3/4	60,428	3/4	72,027	3/4	83,579	3/4	95,182	3/4	106,786
6	2,943	6	14,530	6	26,157	6	37,472	6	49,071	6	60,670	6	72,269	6	83,821	6	95,424	6	107,028
1/4	3,181	1/4	14,773	1/4	26,392	1/4	37,714	1/4	49,313	1/4	60,911	1/4	72,510	1/4	84,062	1/4	95,666	1/4	107,269
1/2	3,418	1/2	15,015	1/2	26,627	1/2	37,955	1/2	49,554	1/2	61,153	1/2	72,751	1/2	84,304	1/2	95,908	1/2	107,511
3/4	3,655	3/4	15,257	3/4	26,862	3/4	38,197	3/4	49,796	3/4	61,395	3/4	72,992	3/4	84,546	3/4	96,149	3/4	107,753
7	3,893	7	15,499	7	27,097	7	38,439	7	50,037	7	61,636	7	73,233	7	84,787	7	96,391	7	107,994
1/4	4,132	1/4	15,741	1/4	27,331	1/4	38,680	1/4	50,279	1/4	61,878	1/4	73,474	1/4	85,029	1/4	96,633	1/4	108,236
1/2	4,372	1/2	15,984	1/2	27,566	1/2	38,922	1/2	50,521	1/2	62,120	1/2	73,715	1/2	85,271	1/2	96,875	1/2	108,478
3/4	4,611	3/4	16,226	3/4	27,801	3/4	39,163	3/4	50,762	3/4	62,361	3/4	73,956	3/4	85,513	3/4	97,116	3/4	108,720
8	4,851	8	16,468	8	28,036	8	39,405	8	51,004	8	62,603	8	74,197	8	85,754	8	97,358	8	108,961
1/4	5,092	1/4	16,710	1/4	28,270	1/4	39,647	1/4	51,246	1/4	62,845	1/4	74,438	1/4	85,996	1/4	97,600	1/4	109,203
1/2	5,332	1/2	16,953	1/2	28,505	1/2	39,888	1/2	51,487	1/2	63,086	1/2	74,679	1/2	86,238	1/2	97,841	1/2	109,445
3/4	5,573	3/4	17,195	3/4	28,739	3/4	40,130	3/4	51,729	3/4	63,328	3/4	74,920	3/4	86,480	3/4	98,083	3/4	109,687
9	5,814	9	17,437	9	28,974	9	40,372	9	51,971	9	63,570	9	75,161	9	86,721	9	98,325	9	109,928
1/4	6,055	1/4	17,679	1/4	29,208	1/4	40,613	1/4	52,212	1/4	63,811	1/4	75,402	1/4	86,963	1/4	98,567	1/4	110,170
1/2	6,297	1/2	17,921	1/2	29,443	1/2	40,855	1/2	52,454	1/2	64,053	1/2	75,642	1/2	87,205	1/2	98,808	1/2	110,412
3/4	6,538	3/4	18,164	3/4	29,677	3/4	41,097	3/4	52,696	3/4	64,294	3/4	75,882	3/4	87,447	3/4	99,050	3/4	110,654
10	6,780	10	18,406	10	29,912	10	41,338	10	52,937	10	64,536	10	76,123	10	87,688	10	99,292	10	110,895
1/4	7,022	1/4	18,648	1/4	30,146	1/4	41,580	1/4	53,179	1/4	64,778	1/4	76,363	1/4	87,930	1/4	99,534	1/4	111,137
1/2	7,264	1/2	18,890	1/2	30,381	1/2	41,822	1/2	53,420	1/2	65,019	1/2	76,603	1/2	88,172	1/2	99,775	1/2	111,379
3/4	7,506	3/4	19,133	3/4	30,615	3/4	42,063	3/4	53,662	3/4	65,261	3/4	76,843	3/4	88,414	3/4	100,017	3/4	111,621
11	7,748	11	19,375	11	30,850	11	42,305	11	53,904	11	65,503	11	77,084	11	88,655	11	100,259	11	111,862
1/4	7,990	1/4	19,617	1/4	31,084	1/4	42,546	1/4	54,145	1/4	65,744	1/4	77,324	1/4	88,897	1/4	100,501	1/4	112,104
1/2	8,232	1/2	19,859	1/2	31,318	1/2	42,788	1/2	54,387	1/2	65,986	1/2	77,564	1/2	89,139	1/2	100,742	1/2	112,346
3/4	8,475	3/4	20,102	3/4	31,553	3/4	43,030	3/4	54,629	3/4	66,228	3/4	77,805	3/4	89,381	3/4	100,984	3/4	112,587

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  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "CBC 1413"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	112,829	0	122,379	0	130,511	0	138,643	0	146,775	0		0		0		0		0	
1/4	113,070	1/4	122,548	1/4	130,680	1/4	138,812	1/4	146,945	1/4		1/4		1/4		1/4		1/4	
1/2	113,312	1/2	122,718	1/2	130,850	1/2	138,982	1/2	147,114	1/2		1/2		1/2		1/2		1/2	
3/4	113,553	3/4	122,887	3/4	131,019	3/4	139,151	3/4	147,283	3/4		3/4		3/4		3/4		3/4	
1	113,794	1	123,056	1	131,189	1	139,321	1	147,453	1		1		1		1		1	
1/4	114,035	1/4	123,226	1/4	131,358	1/4	139,490	1/4	147,622	1/4		1/4		1/4		1/4		1/4	
1/2	114,276	1/2	123,395	1/2	131,527	1/2	139,660	1/2	147,792	1/2		1/2		1/2		1/2		1/2	
3/4	114,517	3/4	123,565	3/4	131,697	3/4	139,829	3/4	147,961	3/4		3/4		3/4		3/4		3/4	
2	114,759	2	123,734	2	131,866	2	139,998	2	148,131	2		2		2		2		2	
1/4	115,000	1/4	123,903	1/4	132,036	1/4	140,168	1/4	148,300	1/4		1/4		1/4		1/4		1/4	
1/2	115,241	1/2	124,073	1/2	132,205	1/2	140,337	1/2	148,469	1/2		1/2		1/2		1/2		1/2	
3/4	115,482	3/4	124,242	3/4	132,374	3/4	140,507	3/4	148,639	3/4		3/4		3/4		3/4		3/4	
3	115,723	3	124,412	3	132,544	3	140,676	3	148,808	3		3		3		3		3	
1/4	115,965	1/4	124,581	1/4	132,713	1/4	140,845	1/4	149,030	1/4		1/4		1/4		1/4		1/4	
1/2	116,206	1/2	124,751	1/2	132,883	1/2	141,015	1/2	149,252	1/2		1/2		1/2		1/2		1/2	
3/4	116,447	3/4	124,920	3/4	133,052	3/4	141,184	3/4	149,474	3/4		3/4		3/4		3/4		3/4	
4	116,688	4	125,089	4	133,222	4	141,354	4	149,696	4		4		4		4		4	
1/4	116,929	1/4	125,259	1/4	133,391	1/4	141,523	1/4	149,878	1/4		1/4		1/4		1/4		1/4	
1/2	117,170	1/2	125,428	1/2	133,560	1/2	141,693	1/2	150,060	1/2		1/2		1/2		1/2		1/2	
3/4	117,412	3/4	125,598	3/4	133,730	3/4	141,862	3/4	150,241	3/4		3/4		3/4		3/4		3/4	
5	117,653	5	125,767	5	133,899	5	142,031	5	150,423	5		5		5		5		5	
1/4	117,821	1/4	125,937	1/4	134,069	1/4	142,201	1/4	150,564	1/4		1/4		1/4		1/4		1/4	
1/2	117,990	1/2	126,106	1/2	134,238	1/2	142,370	1/2	150,706	1/2		1/2		1/2		1/2		1/2	
3/4	118,158	3/4	126,275	3/4	134,408	3/4	142,540	3/4	150,847	3/4		3/4		3/4		3/4		3/4	
6	118,326	6	126,445	6	134,577	6	142,709	6	150,988	6		6		6		6		6	
1/4	118,495	1/4	126,614	1/4	134,746	1/4	142,879	1/4	151,089	1/4		1/4		1/4		1/4		1/4	
1/2	118,664	1/2	126,784	1/2	134,916	1/2	143,048	1/2	151,190	1/2		1/2		1/2		1/2		1/2	
3/4	118,833	3/4	126,953	3/4	135,085	3/4	143,217	3/4	151,291	3/4		3/4		3/4		3/4		3/4	
7	119,002	7	127,122	7	135,255	7	143,387	7	151,392	7		7		7		7		7	
1/4	119,170	1/4	127,292	1/4	135,424	1/4	143,556	1/4	151,453	1/4		1/4		1/4		1/4		1/4	
1/2	119,339	1/2	127,461	1/2	135,593	1/2	143,726	1/2	151,513	1/2		1/2		1/2		1/2		1/2	
3/4	119,508	3/4	127,631	3/4	135,763	3/4	143,895	3/4	151,574	3/4		3/4		3/4		3/4		3/4	
8	119,677	8	127,800	8	135,932	8	144,064	8	151,634	8		8		8		8		8	
1/4	119,846	1/4	127,970	1/4	136,102	1/4	144,234	1/4	151,654	1/4		1/4		1/4		1/4		1/4	
1/2	120,015	1/2	128,139	1/2	136,271	1/2	144,403	1/2	151,675	1/2		1/2		1/2		1/2		1/2	
3/4	120,184	3/4	128,308	3/4	136,441	3/4	144,573	3/4		3/4		3/4		3/4		3/4		3/4	
9	120,352	9	128,478	9	136,610	9	144,742	9		9		9		9		9		9	
1/4	120,521	1/4	128,647	1/4	136,779	1/4	144,912	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,690	1/2	128,817	1/2	136,949	1/2	145,081	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	120,859	3/4	128,986	3/4	137,118	3/4	145,250	3/4		3/4		3/4		3/4		3/4		3/4	
10	121,028	10	129,155	10	137,288	10	145,420	10		10		10		10		10		10	
1/4	121,197	1/4	129,325	1/4	137,457	1/4	145,589	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,366	1/2	129,494	1/2	137,627	1/2	145,759	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,534	3/4	129,664	3/4	137,796	3/4	145,928	3/4		3/4		3/4		3/4		3/4		3/4	
11	121,703	11	129,833	11	137,965	11	146,098	11		11		11		11		11		11	
1/4	121,872	1/4	130,003	1/4	138,135	1/4	146,267	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,041	1/2	130,172	1/2	138,304	1/2	146,436	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,210	3/4	130,341	3/4	138,474	3/4	146,606	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "CBC 1413"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	10,056	0	23,477	0	36,735	0	49,993	0	63,414	0	76,835	0	90,256	0	103,677	0	117,099
1/4	63	1/4	10,336	1/4	23,756	1/4	37,006	1/4	50,273	1/4	63,694	1/4	77,115	1/4	90,536	1/4	103,957	1/4	117,378
1/2	86	1/2	10,615	1/2	24,036	1/2	37,277	1/2	50,552	1/2	63,973	1/2	77,394	1/2	90,816	1/2	104,237	1/2	117,658
3/4	109	3/4	10,895	3/4	24,315	3/4	37,549	3/4	50,832	3/4	64,253	3/4	77,674	3/4	91,095	3/4	104,516	3/4	117,937
1	133	1	11,174	1	24,595	1	37,820	1	51,111	1	64,533	1	77,954	1	91,375	1	104,796	1	118,217
1/4	202	1/4	11,454	1/4	24,875	1/4	38,092	1/4	51,391	1/4	64,812	1/4	78,233	1/4	91,654	1/4	105,075	1/4	118,497
1/2	272	1/2	11,734	1/2	25,154	1/2	38,363	1/2	51,671	1/2	65,092	1/2	78,513	1/2	91,934	1/2	105,355	1/2	118,776
3/4	342	3/4	12,013	3/4	25,434	3/4	38,634	3/4	51,950	3/4	65,371	3/4	78,792	3/4	92,214	3/4	105,635	3/4	119,056
2	412	2	12,293	2	25,713	2	38,906	2	52,230	2	65,651	2	79,072	2	92,493	2	105,914	2	119,335
1/4	529	1/4	12,572	1/4	25,993	1/4	39,177	1/4	52,509	1/4	65,931	1/4	79,352	1/4	92,773	1/4	106,194	1/4	119,615
1/2	645	1/2	12,852	1/2	26,273	1/2	39,449	1/2	52,789	1/2	66,210	1/2	79,631	1/2	93,052	1/2	106,474	1/2	119,895
3/4	762	3/4	13,131	3/4	26,552	3/4	39,720	3/4	53,069	3/4	66,490	3/4	79,911	3/4	93,332	3/4	106,753	3/4	120,174
3	878	3	13,411	3	26,832	3	39,991	3	53,348	3	66,769	3	80,191	3	93,612	3	107,033	3	120,454
1/4	1,041	1/4	13,691	1/4	27,111	1/4	40,263	1/4	53,628	1/4	67,049	1/4	80,470	1/4	93,891	1/4	107,312	1/4	120,733
1/2	1,204	1/2	13,970	1/2	27,391	1/2	40,534	1/2	53,907	1/2	67,329	1/2	80,750	1/2	94,171	1/2	107,592	1/2	121,013
3/4	1,367	3/4	14,250	3/4	27,671	3/4	40,806	3/4	54,187	3/4	67,608	3/4	81,029	3/4	94,450	3/4	107,872	3/4	121,293
4	1,530	4	14,529	4	27,950	4	41,077	4	54,467	4	67,888	4	81,309	4	94,730	4	108,151	4	121,572
1/4	1,740	1/4	14,809	1/4	28,230	1/4	41,349	1/4	54,746	1/4	68,167	1/4	81,589	1/4	95,010	1/4	108,431	1/4	121,852
1/2	1,950	1/2	15,089	1/2	28,509	1/2	41,620	1/2	55,026	1/2	68,447	1/2	81,868	1/2	95,289	1/2	108,710	1/2	122,132
3/4	2,160	3/4	15,368	3/4	28,789	3/4	41,892	3/4	55,306	3/4	68,727	3/4	82,148	3/4	95,569	3/4	108,990	3/4	122,411
5	2,369	5	15,648	5	29,069	5	42,164	5	55,585	5	69,006	5	82,427	5	95,848	5	109,270	5	122,691
1/4	2,625	1/4	15,927	1/4	29,348	1/4	42,444	1/4	55,865	1/4	69,286	1/4	82,707	1/4	96,128	1/4	109,549	1/4	122,970
1/2	2,880	1/2	16,207	1/2	29,628	1/2	42,723	1/2	56,144	1/2	69,565	1/2	82,987	1/2	96,408	1/2	109,829	1/2	123,250
3/4	3,136	3/4	16,487	3/4	29,907	3/4	43,003	3/4	56,424	3/4	69,845	3/4	83,266	3/4	96,687	3/4	110,108	3/4	123,530
6	3,391	6	16,766	6	30,187	6	43,282	6	56,704	6	70,125	6	83,546	6	96,967	6	110,388	6	123,809
1/4	3,665	1/4	17,046	1/4	30,467	1/4	43,562	1/4	56,983	1/4	70,404	1/4	83,825	1/4	97,247	1/4	110,668	1/4	124,089
1/2	3,940	1/2	17,325	1/2	30,746	1/2	43,842	1/2	57,263	1/2	70,684	1/2	84,105	1/2	97,526	1/2	110,947	1/2	124,368
3/4	4,214	3/4	17,605	3/4	31,026	3/4	44,121	3/4	57,542	3/4	70,963	3/4	84,385	3/4	97,806	3/4	111,227	3/4	124,648
7	4,488	7	17,885	7	31,305	7	44,401	7	57,822	7	71,243	7	84,664	7	98,085	7	111,506	7	124,928
1/4	4,764	1/4	18,164	1/4	31,577	1/4	44,680	1/4	58,102	1/4	71,523	1/4	84,944	1/4	98,365	1/4	111,786	1/4	125,207
1/2	5,041	1/2	18,444	1/2	31,849	1/2	44,960	1/2	58,381	1/2	71,802	1/2	85,223	1/2	98,645	1/2	112,066	1/2	125,487
3/4	5,317	3/4	18,723	3/4	32,121	3/4	45,240	3/4	58,661	3/4	72,082	3/4	85,503	3/4	98,924	3/4	112,345	3/4	125,766
8	5,593	8	19,003	8	32,392	8	45,519	8	58,940	8	72,362	8	85,783	8	99,204	8	112,625	8	126,046
1/4	5,871	1/4	19,283	1/4	32,664	1/4	45,799	1/4	59,220	1/4	72,641	1/4	86,062	1/4	99,483	1/4	112,904	1/4	126,326
1/2	6,149	1/2	19,562	1/2	32,935	1/2	46,079	1/2	59,500	1/2	72,921	1/2	86,342	1/2	99,763	1/2	113,184	1/2	126,605
3/4	6,427	3/4	19,842	3/4	33,207	3/4	46,358	3/4	59,779	3/4	73,200	3/4	86,621	3/4	100,043	3/4	113,464	3/4	126,885
9	6,705	9	20,121	9	33,478	9	46,638	9	60,059	9	73,480	9	86,901	9	100,322	9	113,743	9	127,164
1/4	6,984	1/4	20,401	1/4	33,749	1/4	46,917	1/4	60,338	1/4	73,760	1/4	87,181	1/4	100,602	1/4	114,023	1/4	127,444
1/2	7,263	1/2	20,681	1/2	34,021	1/2	47,197	1/2	60,618	1/2	74,039	1/2	87,460	1/2	100,881	1/2	114,303	1/2	127,724
3/4	7,541	3/4	20,960	3/4	34,292	3/4	47,477	3/4	60,898	3/4	74,319	3/4	87,740	3/4	101,161	3/4	114,582	3/4	128,003
10	7,820	10	21,240	10	34,563	10	47,756	10	61,177	10	74,598	10	88,019	10	101,441	10	114,862	10	128,283
1/4	8,100	1/4	21,519	1/4	34,835	1/4	48,036	1/4	61,457	1/4	74,878	1/4	88,299	1/4	101,720	1/4	115,141	1/4	128,562
1/2	8,379	1/2	21,799	1/2	35,106	1/2	48,315	1/2	61,736	1/2	75,158	1/2	88,579	1/2	102,000	1/2	115,421	1/2	128,842
3/4	8,658	3/4	22,079	3/4	35,378	3/4	48,595	3/4	62,016	3/4	75,437	3/4	88,858	3/4	102,279	3/4	115,701	3/4	129,121
11	8,938	11	22,358	11	35,649	11	48,875	11	62,296	11	75,717	11	89,138	11	102,559	11	115,980	11	129,401
1/4	9,217	1/4	22,638	1/4	35,920	1/4	49,154	1/4	62,575	1/4	75,996	1/4	89,418	1/4	102,839	1/4	116,260	1/4	129,681
1/2	9,497	1/2	22,917	1/2	36,192	1/2	49,434	1/2	62,855	1/2	76,276	1/2	89,697	1/2	103,118	1/2	116,539	1/2	129,960
3/4	9,776	3/4	23,197	3/4	36,463	3/4	49,713	3/4	63,135	3/4	76,556	3/4	89,977	3/4	103,398	3/4	116,819	3/4	130,240

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  
<http://www.pmacorp.net>



# BARGE "CBC 1413"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	130,520	0	143,941	0	157,362	0	170,783	0	184,204	0		0		0		0		0	
1/4	130,799	1/4	144,220	1/4	157,642	1/4	171,063	1/4	184,484	1/4		1/4		1/4		1/4		1/4	
1/2	131,079	1/2	144,500	1/2	157,921	1/2	171,342	1/2	184,763	1/2		1/2		1/2		1/2		1/2	
3/4	131,359	3/4	144,780	3/4	158,201	3/4	171,622	3/4	185,043	3/4		3/4		3/4		3/4		3/4	
1	131,638	1	145,059	1	158,480	1	171,901	1	185,323	1		1		1		1		1	
1/4	131,918	1/4	145,339	1/4	158,760	1/4	172,181	1/4	185,602	1/4		1/4		1/4		1/4		1/4	
1/2	132,197	1/2	145,618	1/2	159,040	1/2	172,461	1/2	185,882	1/2		1/2		1/2		1/2		1/2	
3/4	132,477	3/4	145,898	3/4	159,319	3/4	172,740	3/4	186,161	3/4		3/4		3/4		3/4		3/4	
2	132,757	2	146,178	2	159,599	2	173,020	2	186,441	2		2		2		2		2	
1/4	133,036	1/4	146,457	1/4	159,878	1/4	173,300	1/4	186,721	1/4		1/4		1/4		1/4		1/4	
1/2	133,316	1/2	146,737	1/2	160,158	1/2	173,579	1/2	187,000	1/2		1/2		1/2		1/2		1/2	
3/4	133,595	3/4	147,016	3/4	160,438	3/4	173,859	3/4	187,280	3/4		3/4		3/4		3/4		3/4	
3	133,875	3	147,296	3	160,717	3	174,138	3	187,559	3		3		3		3		3	
1/4	134,155	1/4	147,576	1/4	160,997	1/4	174,418	1/4	187,816	1/4		1/4		1/4		1/4		1/4	
1/2	134,434	1/2	147,855	1/2	161,276	1/2	174,698	1/2	188,072	1/2		1/2		1/2		1/2		1/2	
3/4	134,714	3/4	148,135	3/4	161,556	3/4	174,977	3/4	188,328	3/4		3/4		3/4		3/4		3/4	
4	134,993	4	148,415	4	161,836	4	175,257	4	188,585	4		4		4		4		4	
1/4	135,273	1/4	148,694	1/4	162,115	1/4	175,536	1/4	188,794	1/4		1/4		1/4		1/4		1/4	
1/2	135,553	1/2	148,974	1/2	162,395	1/2	175,816	1/2	189,004	1/2		1/2		1/2		1/2		1/2	
3/4	135,832	3/4	149,253	3/4	162,674	3/4	176,096	3/4	189,214	3/4		3/4		3/4		3/4		3/4	
5	136,112	5	149,533	5	162,954	5	176,375	5	189,423	5		5		5		5		5	
1/4	136,391	1/4	149,813	1/4	163,234	1/4	176,655	1/4	189,587	1/4		1/4		1/4		1/4		1/4	
1/2	136,671	1/2	150,092	1/2	163,513	1/2	176,934	1/2	189,750	1/2		1/2		1/2		1/2		1/2	
3/4	136,951	3/4	150,372	3/4	163,793	3/4	177,214	3/4	189,913	3/4		3/4		3/4		3/4		3/4	
6	137,230	6	150,651	6	164,072	6	177,494	6	190,076	6		6		6		6		6	
1/4	137,510	1/4	150,931	1/4	164,352	1/4	177,773	1/4	190,192	1/4		1/4		1/4		1/4		1/4	
1/2	137,789	1/2	151,211	1/2	164,632	1/2	178,053	1/2	190,309	1/2		1/2		1/2		1/2		1/2	
3/4	138,069	3/4	151,490	3/4	164,911	3/4	178,332	3/4	190,425	3/4		3/4		3/4		3/4		3/4	
7	138,349	7	151,770	7	165,191	7	178,612	7	190,542	7		7		7		7		7	
1/4	138,628	1/4	152,049	1/4	165,471	1/4	178,892	1/4	190,612	1/4		1/4		1/4		1/4		1/4	
1/2	138,908	1/2	152,329	1/2	165,750	1/2	179,171	1/2	190,682	1/2		1/2		1/2		1/2		1/2	
3/4	139,188	3/4	152,609	3/4	166,030	3/4	179,451	3/4	190,752	3/4		3/4		3/4		3/4		3/4	
8	139,467	8	152,888	8	166,309	8	179,730	8	190,821	8		8		8		8		8	
1/4	139,747	1/4	153,168	1/4	166,589	1/4	180,010	1/4	190,845	1/4		1/4		1/4		1/4		1/4	
1/2	140,026	1/2	153,447	1/2	166,869	1/2	180,290	1/2	190,868	1/2		1/2		1/2		1/2		1/2	
3/4	140,306	3/4	153,727	3/4	167,148	3/4	180,569	3/4		3/4		3/4		3/4		3/4		3/4	
9	140,586	9	154,007	9	167,428	9	180,849	9		9		9		9		9		9	
1/4	140,865	1/4	154,286	1/4	167,707	1/4	181,128	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	141,145	1/2	154,566	1/2	167,987	1/2	181,408	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	141,424	3/4	154,845	3/4	168,267	3/4	181,688	3/4		3/4		3/4		3/4		3/4		3/4	
10	141,704	10	155,125	10	168,546	10	181,967	10		10		10		10		10		10	
1/4	141,984	1/4	155,405	1/4	168,826	1/4	182,247	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	142,263	1/2	155,684	1/2	169,105	1/2	182,527	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	142,543	3/4	155,964	3/4	169,385	3/4	182,806	3/4		3/4		3/4		3/4		3/4		3/4	
11	142,822	11	156,244	11	169,665	11	183,086	11		11		11		11		11		11	
1/4	143,102	1/4	156,523	1/4	169,944	1/4	183,365	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	143,382	1/2	156,803	1/2	170,224	1/2	183,645	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	143,661	3/4	157,082	3/4	170,503	3/4	183,925	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "CBC 1413"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

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	8,989	0	20,980	0	32,957	0	44,938	0	56,929	0	68,921	0	80,913	0	92,904	0	104,896
1/4	60	1/4	9,239	1/4	21,230	1/4	33,207	1/4	45,187	1/4	57,179	1/4	69,171	1/4	81,162	1/4	93,154	1/4	105,146
1/2	81	1/2	9,489	1/2	21,480	1/2	33,456	1/2	45,437	1/2	57,429	1/2	69,421	1/2	81,412	1/2	93,404	1/2	105,396
3/4	102	3/4	9,739	3/4	21,730	3/4	33,705	3/4	45,687	3/4	57,679	3/4	69,670	3/4	81,662	3/4	93,654	3/4	105,645
1	123	1	9,988	1	21,980	1	33,954	1	45,937	1	57,929	1	69,920	1	81,912	1	93,904	1	105,895
1/4	185	1/4	10,238	1/4	22,229	1/4	34,203	1/4	46,187	1/4	58,178	1/4	70,170	1/4	82,162	1/4	94,153	1/4	106,145
1/2	248	1/2	10,488	1/2	22,479	1/2	34,452	1/2	46,437	1/2	58,428	1/2	70,420	1/2	82,412	1/2	94,403	1/2	106,395
3/4	310	3/4	10,738	3/4	22,729	3/4	34,701	3/4	46,686	3/4	58,678	3/4	70,670	3/4	82,661	3/4	94,653	3/4	106,645
2	373	2	10,988	2	22,979	2	34,950	2	46,936	2	58,928	2	70,920	2	82,911	2	94,903	2	106,895
1/4	477	1/4	11,238	1/4	23,229	1/4	35,199	1/4	47,186	1/4	59,178	1/4	71,169	1/4	83,161	1/4	95,153	1/4	107,144
1/2	581	1/2	11,487	1/2	23,479	1/2	35,448	1/2	47,436	1/2	59,428	1/2	71,419	1/2	83,411	1/2	95,403	1/2	107,394
3/4	685	3/4	11,737	3/4	23,728	3/4	35,698	3/4	47,686	3/4	59,677	3/4	71,669	3/4	83,661	3/4	95,652	3/4	107,644
3	789	3	11,987	3	23,978	3	35,947	3	47,935	3	59,927	3	71,919	3	83,911	3	95,902	3	107,894
1/4	935	1/4	12,237	1/4	24,228	1/4	36,196	1/4	48,185	1/4	60,177	1/4	72,169	1/4	84,160	1/4	96,152	1/4	108,144
1/2	1,080	1/2	12,487	1/2	24,478	1/2	36,445	1/2	48,435	1/2	60,427	1/2	72,418	1/2	84,410	1/2	96,402	1/2	108,394
3/4	1,226	3/4	12,736	3/4	24,728	3/4	36,694	3/4	48,685	3/4	60,677	3/4	72,668	3/4	84,660	3/4	96,652	3/4	108,643
4	1,372	4	12,986	4	24,977	4	36,943	4	48,935	4	60,926	4	72,918	4	84,910	4	96,902	4	108,893
1/4	1,559	1/4	13,236	1/4	25,227	1/4	37,193	1/4	49,185	1/4	61,176	1/4	73,168	1/4	85,160	1/4	97,151	1/4	109,143
1/2	1,746	1/2	13,486	1/2	25,477	1/2	37,443	1/2	49,434	1/2	61,426	1/2	73,418	1/2	85,409	1/2	97,401	1/2	109,393
3/4	1,934	3/4	13,736	3/4	25,727	3/4	37,693	3/4	49,684	3/4	61,676	3/4	73,668	3/4	85,659	3/4	97,651	3/4	109,643
5	2,121	5	13,986	5	25,977	5	37,942	5	49,934	5	61,926	5	73,917	5	85,909	5	97,901	5	109,892
1/4	2,350	1/4	14,235	1/4	26,227	1/4	38,192	1/4	50,184	1/4	62,176	1/4	74,167	1/4	86,159	1/4	98,151	1/4	110,142
1/2	2,578	1/2	14,485	1/2	26,476	1/2	38,442	1/2	50,434	1/2	62,425	1/2	74,417	1/2	86,409	1/2	98,400	1/2	110,392
3/4	2,806	3/4	14,735	3/4	26,726	3/4	38,692	3/4	50,684	3/4	62,675	3/4	74,667	3/4	86,659	3/4	98,650	3/4	110,642
6	3,035	6	14,985	6	26,976	6	38,942	6	50,933	6	62,925	6	74,917	6	86,908	6	98,900	6	110,892
1/4	3,279	1/4	15,235	1/4	27,225	1/4	39,192	1/4	51,183	1/4	63,175	1/4	75,167	1/4	87,158	1/4	99,150	1/4	111,142
1/2	3,524	1/2	15,484	1/2	27,475	1/2	39,441	1/2	51,433	1/2	63,425	1/2	75,416	1/2	87,408	1/2	99,400	1/2	111,391
3/4	3,769	3/4	15,734	3/4	27,724	3/4	39,691	3/4	51,683	3/4	63,675	3/4	75,666	3/4	87,658	3/4	99,650	3/4	111,641
7	4,014	7	15,984	7	27,974	7	39,941	7	51,933	7	63,924	7	75,916	7	87,908	7	99,899	7	111,891
1/4	4,261	1/4	16,234	1/4	28,223	1/4	40,191	1/4	52,183	1/4	64,174	1/4	76,166	1/4	88,158	1/4	100,149	1/4	112,141
1/2	4,508	1/2	16,484	1/2	28,473	1/2	40,441	1/2	52,432	1/2	64,424	1/2	76,416	1/2	88,407	1/2	100,399	1/2	112,391
3/4	4,755	3/4	16,734	3/4	28,722	3/4	40,691	3/4	52,682	3/4	64,674	3/4	76,666	3/4	88,657	3/4	100,649	3/4	112,641
8	5,002	8	16,983	8	28,972	8	40,940	8	52,932	8	64,924	8	76,915	8	88,907	8	100,899	8	112,890
1/4	5,250	1/4	17,233	1/4	29,221	1/4	41,190	1/4	53,182	1/4	65,174	1/4	77,165	1/4	89,157	1/4	101,149	1/4	113,140
1/2	5,499	1/2	17,483	1/2	29,470	1/2	41,440	1/2	53,432	1/2	65,423	1/2	77,415	1/2	89,407	1/2	101,398	1/2	113,390
3/4	5,747	3/4	17,733	3/4	29,719	3/4	41,690	3/4	53,682	3/4	65,673	3/4	77,665	3/4	89,657	3/4	101,648	3/4	113,640
9	5,995	9	17,983	9	29,968	9	41,940	9	53,931	9	65,923	9	77,915	9	89,906	9	101,898	9	113,890
1/4	6,244	1/4	18,232	1/4	30,217	1/4	42,189	1/4	54,181	1/4	66,173	1/4	78,165	1/4	90,156	1/4	102,148	1/4	114,140
1/2	6,493	1/2	18,482	1/2	30,466	1/2	42,439	1/2	54,431	1/2	66,423	1/2	78,414	1/2	90,406	1/2	102,398	1/2	114,389
3/4	6,742	3/4	18,732	3/4	30,715	3/4	42,689	3/4	54,681	3/4	66,672	3/4	78,664	3/4	90,656	3/4	102,648	3/4	114,639
10	6,992	10	18,982	10	30,965	10	42,939	10	54,931	10	66,922	10	78,914	10	90,906	10	102,897	10	114,889
1/4	7,241	1/4	19,232	1/4	31,214	1/4	43,189	1/4	55,180	1/4	67,172	1/4	79,164	1/4	91,155	1/4	103,147	1/4	115,139
1/2	7,491	1/2	19,481	1/2	31,463	1/2	43,439	1/2	55,430	1/2	67,422	1/2	79,414	1/2	91,405	1/2	103,397	1/2	115,389
3/4	7,740	3/4	19,731	3/4	31,712	3/4	43,688	3/4	55,680	3/4	67,672	3/4	79,663	3/4	91,655	3/4	103,647	3/4	115,638
11	7,990	11	19,981	11	31,961	11	43,938	11	55,930	11	67,922	11	79,913	11	91,905	11	103,897	11	115,888
1/4	8,240	1/4	20,231	1/4	32,210	1/4	44,188	1/4	56,180	1/4	68,171	1/4	80,163	1/4	92,155	1/4	104,146	1/4	116,138
1/2	8,490	1/2	20,481	1/2	32,459	1/2	44,438	1/2	56,430	1/2	68,421	1/2	80,413	1/2	92,405	1/2	104,396	1/2	116,388
3/4	8,739	3/4	20,731	3/4	32,708	3/4	44,688	3/4	56,679	3/4	68,671	3/4	80,663	3/4	92,654	3/4	104,646	3/4	116,638

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  
<http://www.pmacorp.net>



# BARGE "CBC 1413"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

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	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	117,137	1/4	129,129	1/4	141,121	1/4	153,112	1/4	165,104	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	117,387	1/2	129,379	1/2	141,371	1/2	153,362	1/2	165,354	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	117,637	3/4	129,629	3/4	141,620	3/4	153,612	3/4	165,604	3/4		3/4		3/4		3/4		3/4		3/4	
<b>1</b>	<b>117,887</b>	<b>1</b>	<b>129,879</b>	<b>1</b>	<b>141,870</b>	<b>1</b>	<b>153,862</b>	<b>1</b>	<b>165,854</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>1</b>	<b>1</b>
1/4	118,137	1/4	130,128	1/4	142,120	1/4	154,112	1/4	166,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	118,387	1/2	130,378	1/2	142,370	1/2	154,362	1/2	166,353	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	118,636	3/4	130,628	3/4	142,620	3/4	154,611	3/4	166,603	3/4		3/4		3/4		3/4		3/4		3/4	
<b>2</b>	<b>118,886</b>	<b>2</b>	<b>130,878</b>	<b>2</b>	<b>142,870</b>	<b>2</b>	<b>154,861</b>	<b>2</b>	<b>166,853</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>2</b>	<b>2</b>
1/4	119,136	1/4	131,128	1/4	143,119	1/4	155,111	1/4	167,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	119,386	1/2	131,378	1/2	143,369	1/2	155,361	1/2	167,353	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	119,636	3/4	131,627	3/4	143,619	3/4	155,611	3/4	167,602	3/4		3/4		3/4		3/4		3/4		3/4	
<b>3</b>	<b>119,886</b>	<b>3</b>	<b>131,877</b>	<b>3</b>	<b>143,869</b>	<b>3</b>	<b>155,861</b>	<b>3</b>	<b>167,852</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>3</b>	<b>3</b>
1/4	120,135	1/4	132,127	1/4	144,119	1/4	156,110	1/4	168,081	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,385	1/2	132,377	1/2	144,369	1/2	156,360	1/2	168,310	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	120,635	3/4	132,627	3/4	144,618	3/4	156,610	3/4	168,539	3/4		3/4		3/4		3/4		3/4		3/4	
<b>4</b>	<b>120,885</b>	<b>4</b>	<b>132,877</b>	<b>4</b>	<b>144,868</b>	<b>4</b>	<b>156,860</b>	<b>4</b>	<b>168,768</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>4</b>	<b>4</b>
1/4	121,135	1/4	133,126	1/4	145,118	1/4	157,110	1/4	168,956	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,385	1/2	133,376	1/2	145,368	1/2	157,360	1/2	169,143	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,634	3/4	133,626	3/4	145,618	3/4	157,609	3/4	169,330	3/4		3/4		3/4		3/4		3/4		3/4	
<b>5</b>	<b>121,884</b>	<b>5</b>	<b>133,876</b>	<b>5</b>	<b>145,868</b>	<b>5</b>	<b>157,859</b>	<b>5</b>	<b>169,518</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>5</b>	<b>5</b>
1/4	122,134	1/4	134,126	1/4	146,117	1/4	158,109	1/4	169,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,384	1/2	134,375	1/2	146,367	1/2	158,359	1/2	169,809	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,634	3/4	134,625	3/4	146,617	3/4	158,609	3/4	169,955	3/4		3/4		3/4		3/4		3/4		3/4	
<b>6</b>	<b>122,883</b>	<b>6</b>	<b>134,875</b>	<b>6</b>	<b>146,867</b>	<b>6</b>	<b>158,858</b>	<b>6</b>	<b>170,101</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>6</b>	<b>6</b>
1/4	123,133	1/4	135,125	1/4	147,117	1/4	159,108	1/4	170,205	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123,383	1/2	135,375	1/2	147,366	1/2	159,358	1/2	170,309	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	123,633	3/4	135,625	3/4	147,616	3/4	159,608	3/4	170,413	3/4		3/4		3/4		3/4		3/4		3/4	
<b>7</b>	<b>123,883</b>	<b>7</b>	<b>135,874</b>	<b>7</b>	<b>147,866</b>	<b>7</b>	<b>159,858</b>	<b>7</b>	<b>170,517</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>7</b>	<b>7</b>
1/4	124,133	1/4	136,124	1/4	148,116	1/4	160,108	1/4	170,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	124,382	1/2	136,374	1/2	148,366	1/2	160,357	1/2	170,642	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124,632	3/4	136,624	3/4	148,616	3/4	160,607	3/4	170,704	3/4		3/4		3/4		3/4		3/4		3/4	
<b>8</b>	<b>124,882</b>	<b>8</b>	<b>136,874</b>	<b>8</b>	<b>148,865</b>	<b>8</b>	<b>160,857</b>	<b>8</b>	<b>170,767</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>8</b>	<b>8</b>
1/4	125,132	1/4	137,124	1/4	149,115	1/4	161,107	1/4	170,788	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	125,382	1/2	137,373	1/2	149,365	1/2	161,357	1/2	170,809	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125,632	3/4	137,623	3/4	149,615	3/4	161,607	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>9</b>	<b>125,881</b>	<b>9</b>	<b>137,873</b>	<b>9</b>	<b>149,865</b>	<b>9</b>	<b>161,856</b>	<b>9</b>	<b>170,809</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>9</b>	<b>9</b>
1/4	126,131	1/4	138,123	1/4	150,115	1/4	162,106	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,381	1/2	138,373	1/2	150,364	1/2	162,356	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,631	3/4	138,623	3/4	150,614	3/4	162,606	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>10</b>	<b>126,881</b>	<b>10</b>	<b>138,872</b>	<b>10</b>	<b>150,864</b>	<b>10</b>	<b>162,856</b>	<b>10</b>	<b>170,809</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>10</b>	<b>10</b>
1/4	127,131	1/4	139,122	1/4	151,114	1/4	163,106	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,380	1/2	139,372	1/2	151,364	1/2	163,355	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,630	3/4	139,622	3/4	151,614	3/4	163,605	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
<b>11</b>	<b>127,880</b>	<b>11</b>	<b>139,872</b>	<b>11</b>	<b>151,863</b>	<b>11</b>	<b>163,855</b>	<b>11</b>	<b>170,809</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>11</b>	<b>11</b>
1/4	128,130	1/4	140,122	1/4	152,113	1/4	164,105	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,380	1/2	140,371	1/2	152,363	1/2	164,355	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	128,629	3/4	140,621	3/4	152,613	3/4	164,605	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "CBC 1413"

## 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	- 00-3/8	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: 176'-06"

June 25, 2019

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

<http://www.pmacorp.net>



# BARGE "CBC 1413"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

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	151,675	0	144,403	0	136,271	0	128,139	0	120,015	0	109,445	0	97,841	0	86,238
1/4	1/4	1/4	1/4	1/4	151,654	1/4	144,234	1/4	136,102	1/4	127,970	1/4	119,846	1/4	109,203	1/4	97,600	1/4	85,996
1/2	1/2	1/2	1/2	1/2	151,634	1/2	144,064	1/2	135,932	1/2	127,800	1/2	119,677	1/2	108,961	1/2	97,358	1/2	85,754
3/4	3/4	3/4	3/4	3/4	151,574	3/4	143,895	3/4	135,763	3/4	127,631	3/4	119,508	3/4	108,720	3/4	97,116	3/4	85,513
1	1	1	1	1	151,513	1	143,726	1	135,593	1	127,461	1	119,339	1	108,478	1	96,875	1	85,271
1/4	1/4	1/4	1/4	1/4	151,453	1/4	143,556	1/4	135,424	1/4	127,292	1/4	119,170	1/4	108,236	1/4	96,633	1/4	85,029
1/2	1/2	1/2	1/2	1/2	151,392	1/2	143,387	1/2	135,255	1/2	127,122	1/2	119,002	1/2	107,994	1/2	96,391	1/2	84,787
3/4	3/4	3/4	3/4	3/4	151,291	3/4	143,217	3/4	135,085	3/4	126,953	3/4	118,833	3/4	107,753	3/4	96,149	3/4	84,546
2	2	2	2	2	151,190	2	143,048	2	134,916	2	126,784	2	118,664	2	107,511	2	95,908	2	84,304
1/4	1/4	1/4	1/4	1/4	151,089	1/4	142,879	1/4	134,746	1/4	126,614	1/4	118,495	1/4	107,269	1/4	95,666	1/4	84,062
1/2	1/2	1/2	1/2	1/2	150,988	1/2	142,709	1/2	134,577	1/2	126,445	1/2	118,326	1/2	107,028	1/2	95,424	1/2	83,821
3/4	3/4	3/4	3/4	3/4	150,847	3/4	142,540	3/4	134,408	3/4	126,275	3/4	118,158	3/4	106,786	3/4	95,182	3/4	83,579
3	3	3	3	3	150,706	3	142,370	3	134,238	3	126,106	3	117,990	3	106,544	3	94,941	3	83,337
1/4	1/4	1/4	1/4	1/4	150,564	1/4	142,201	1/4	134,069	1/4	125,937	1/4	117,821	1/4	106,302	1/4	94,699	1/4	83,095
1/2	1/2	1/2	1/2	1/2	150,423	1/2	142,031	1/2	133,899	1/2	125,767	1/2	117,653	1/2	106,061	1/2	94,457	1/2	82,854
3/4	3/4	3/4	3/4	3/4	150,241	3/4	141,862	3/4	133,730	3/4	125,598	3/4	117,412	3/4	105,819	3/4	94,215	3/4	82,613
4	4	4	4	4	150,060	4	141,693	4	133,560	4	125,428	4	117,170	4	105,577	4	93,974	4	82,372
1/4	1/4	1/4	1/4	1/4	149,878	1/4	141,523	1/4	133,391	1/4	125,259	1/4	116,929	1/4	105,335	1/4	93,732	1/4	82,131
1/2	1/2	1/2	1/2	1/2	149,696	1/2	141,354	1/2	133,222	1/2	125,089	1/2	116,688	1/2	105,094	1/2	93,490	1/2	81,890
3/4	3/4	3/4	3/4	3/4	149,474	3/4	141,184	3/4	133,052	3/4	124,920	3/4	116,447	3/4	104,852	3/4	93,248	3/4	81,649
5	5	5	5	5	149,252	5	141,015	5	132,883	5	124,751	5	116,206	5	104,610	5	93,007	5	81,409
1/4	1/4	1/4	1/4	1/4	149,030	1/4	140,845	1/4	132,713	1/4	124,581	1/4	115,965	1/4	104,368	1/4	92,765	1/4	81,169
1/2	1/2	1/2	1/2	1/2	148,808	1/2	140,676	1/2	132,544	1/2	124,412	1/2	115,723	1/2	104,127	1/2	92,523	1/2	80,928
3/4	3/4	3/4	3/4	3/4	148,639	3/4	140,507	3/4	132,374	3/4	124,242	3/4	115,482	3/4	103,885	3/4	92,282	3/4	80,688
6	6	6	6	6	148,469	6	140,337	6	132,205	6	124,073	6	115,241	6	103,643	6	92,040	6	80,448
1/4	1/4	1/4	1/4	1/4	148,300	1/4	140,168	1/4	132,036	1/4	123,903	1/4	115,000	1/4	103,401	1/4	91,798	1/4	80,208
1/2	1/2	1/2	1/2	1/2	148,131	1/2	139,998	1/2	131,866	1/2	123,734	1/2	114,759	1/2	103,160	1/2	91,556	1/2	79,967
3/4	3/4	3/4	3/4	3/4	147,961	3/4	139,829	3/4	131,697	3/4	123,565	3/4	114,517	3/4	102,918	3/4	91,315	3/4	79,727
7	7	7	7	7	147,792	7	139,660	7	131,527	7	123,395	7	114,276	7	102,676	7	91,073	7	79,487
1/4	1/4	1/4	1/4	1/4	147,622	1/4	139,490	1/4	131,358	1/4	123,226	1/4	114,035	1/4	102,435	1/4	90,831	1/4	79,246
1/2	1/2	1/2	1/2	1/2	147,453	1/2	139,321	1/2	131,189	1/2	123,056	1/2	113,794	1/2	102,193	1/2	90,589	1/2	79,006
3/4	3/4	3/4	3/4	3/4	147,283	3/4	139,151	3/4	131,019	3/4	122,887	3/4	113,553	3/4	101,951	3/4	90,348	3/4	78,766
8	8	8	8	8	147,114	8	138,982	8	130,850	8	122,718	8	113,312	8	101,709	8	90,106	8	78,525
1/4	1/4	1/4	1/4	1/4	146,945	1/4	138,812	1/4	130,680	1/4	122,548	1/4	113,070	1/4	101,468	1/4	89,864	1/4	78,285
1/2	1/2	1/2	1/2	1/2	146,775	1/2	138,643	1/2	130,511	1/2	122,379	1/2	112,829	1/2	101,226	1/2	89,622	1/2	78,045
3/4	3/4	3/4	3/4	3/4	146,606	3/4	138,474	3/4	130,341	3/4	122,210	3/4	112,587	3/4	100,984	3/4	89,381	3/4	77,805
9	9	9	9	9	146,436	9	138,304	9	130,172	9	122,041	9	112,346	9	100,742	9	89,139	9	77,564
1/4	1/4	1/4	1/4	1/4	146,267	1/4	138,135	1/4	130,003	1/4	121,872	1/4	112,104	1/4	100,501	1/4	88,897	1/4	77,324
1/2	1/2	1/2	1/2	1/2	146,098	1/2	137,965	1/2	129,833	1/2	121,703	1/2	111,862	1/2	100,259	1/2	88,655	1/2	77,084
3/4	3/4	3/4	3/4	3/4	145,928	3/4	137,796	3/4	129,664	3/4	121,534	3/4	111,621	3/4	100,017	3/4	88,414	3/4	76,843
10	10	10	10	10	145,759	10	137,627	10	129,494	10	121,366	10	111,379	10	99,775	10	88,172	10	76,603
1/4	1/4	1/4	1/4	1/4	145,589	1/4	137,457	1/4	129,325	1/4	121,197	1/4	111,137	1/4	99,534	1/4	87,930	1/4	76,363
1/2	1/2	1/2	1/2	1/2	145,420	1/2	137,288	1/2	129,155	1/2	121,028	1/2	110,895	1/2	99,292	1/2	87,688	1/2	76,123
3/4	3/4	3/4	3/4	3/4	145,250	3/4	137,118	3/4	128,986	3/4	120,859	3/4	110,654	3/4	99,050	3/4	87,447	3/4	75,882
11	11	11	11	11	145,081	11	136,949	11	128,817	11	120,690	11	110,412	11	98,808	11	87,205	11	75,642
1/4	1/4	1/4	1/4	1/4	144,912	1/4	136,779	1/4	128,647	1/4	120,521	1/4	110,170	1/4	98,567	1/4	86,963	1/4	75,402
1/2	1/2	1/2	1/2	1/2	144,742	1/2	136,610	1/2	128,478	1/2	120,352	1/2	109,928	1/2	98,325	1/2	86,721	1/2	75,161
3/4	3/4	3/4	3/4	3/4	144,573	3/4	136,441	3/4	128,308	3/4	120,184	3/4	109,687	3/4	98,083	3/4	86,480	3/4	74,920

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  
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# BARGE "CBC 1413"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	74,679	0	63,086	0	51,487	0	39,888	0	28,505	0	16,953	0	5,332	0		0		0	
1/4	74,438	1/4	62,845	1/4	51,246	1/4	39,647	1/4	28,270	1/4	16,710	1/4	5,092	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,197	1/2	62,603	1/2	51,004	1/2	39,405	1/2	28,036	1/2	16,468	1/2	4,851	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,956	3/4	62,361	3/4	50,762	3/4	39,163	3/4	27,801	3/4	16,226	3/4	4,611	3/4	3/4	3/4	3/4	3/4	3/4
1	73,715	1	62,120	1	50,521	1	38,922	1	27,566	1	15,984	1	4,372	1	1	1	1	1	1
1/4	73,474	1/4	61,878	1/4	50,279	1/4	38,680	1/4	27,331	1/4	15,741	1/4	4,132	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,233	1/2	61,636	1/2	50,037	1/2	38,439	1/2	27,097	1/2	15,499	1/2	3,893	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,992	3/4	61,395	3/4	49,796	3/4	38,197	3/4	26,862	3/4	15,257	3/4	3,655	3/4	3/4	3/4	3/4	3/4	3/4
2	72,751	2	61,153	2	49,554	2	37,955	2	26,627	2	15,015	2	3,418	2	2	2	2	2	2
1/4	72,510	1/4	60,911	1/4	49,313	1/4	37,714	1/4	26,392	1/4	14,773	1/4	3,181	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,269	1/2	60,670	1/2	49,071	1/2	37,472	1/2	26,157	1/2	14,530	1/2	2,943	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,027	3/4	60,428	3/4	48,829	3/4	37,230	3/4	25,915	3/4	14,288	3/4	2,722	3/4	3/4	3/4	3/4	3/4	3/4
3	71,785	3	60,186	3	48,588	3	36,989	3	25,673	3	14,046	3	2,500	3	3	3	3	3	3
1/4	71,544	1/4	59,945	1/4	48,346	1/4	36,747	1/4	25,431	1/4	13,804	1/4	2,279	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,302	1/2	59,703	1/2	48,104	1/2	36,505	1/2	25,188	1/2	13,561	1/2	2,058	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,060	3/4	59,462	3/4	47,863	3/4	36,264	3/4	24,946	3/4	13,319	3/4	1,876	3/4	3/4	3/4	3/4	3/4	3/4
4	70,819	4	59,220	4	47,621	4	36,022	4	24,704	4	13,077	4	1,694	4	4	4	4	4	4
1/4	70,577	1/4	58,978	1/4	47,379	1/4	35,780	1/4	24,462	1/4	12,835	1/4	1,513	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,336	1/2	58,737	1/2	47,138	1/2	35,539	1/2	24,219	1/2	12,592	1/2	1,331	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,094	3/4	58,495	3/4	46,896	3/4	35,304	3/4	23,977	3/4	12,350	3/4	1,190	3/4	3/4	3/4	3/4	3/4	3/4
5	69,852	5	58,253	5	46,654	5	35,070	5	23,735	5	12,108	5	1,049	5	5	5	5	5	5
1/4	69,611	1/4	58,012	1/4	46,413	1/4	34,835	1/4	23,493	1/4	11,866	1/4	907	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,369	1/2	57,770	1/2	46,171	1/2	34,601	1/2	23,250	1/2	11,624	1/2	766	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,127	3/4	57,528	3/4	45,929	3/4	34,366	3/4	23,008	3/4	11,381	3/4	665	3/4	3/4	3/4	3/4	3/4	3/4
6	68,886	6	57,287	6	45,688	6	34,132	6	22,766	6	11,139	6	564	6	6	6	6	6	6
1/4	68,644	1/4	57,045	1/4	45,446	1/4	33,898	1/4	22,524	1/4	10,897	1/4	463	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,402	1/2	56,803	1/2	45,205	1/2	33,663	1/2	22,282	1/2	10,655	1/2	362	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,161	3/4	56,562	3/4	44,963	3/4	33,429	3/4	22,039	3/4	10,412	3/4	302	3/4	3/4	3/4	3/4	3/4	3/4
7	67,919	7	56,320	7	44,721	7	33,194	7	21,797	7	10,170	7	241	7	7	7	7	7	7
1/4	67,677	1/4	56,079	1/4	44,480	1/4	32,960	1/4	21,555	1/4	9,928	1/4	181	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,436	1/2	55,837	1/2	44,238	1/2	32,725	1/2	21,313	1/2	9,686	1/2	120	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,194	3/4	55,595	3/4	43,996	3/4	32,491	3/4	21,070	3/4	9,444	3/4	100	3/4	3/4	3/4	3/4	3/4	3/4
8	66,953	8	55,354	8	43,755	8	32,256	8	20,828	8	9,201	8	80	8	8	8	8	8	8
1/4	66,711	1/4	55,112	1/4	43,513	1/4	32,022	1/4	20,586	1/4	8,959	1/4	60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,469	1/2	54,870	1/2	43,271	1/2	31,787	1/2	20,344	1/2	8,717	1/2	39	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,228	3/4	54,629	3/4	43,030	3/4	31,553	3/4	20,102	3/4	8,475	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	65,986	9	54,387	9	42,788	9	31,318	9	19,859	9	8,232	9		9	9	9	9	9	9
1/4	65,744	1/4	54,145	1/4	42,546	1/4	31,084	1/4	19,617	1/4	7,990	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,503	1/2	53,904	1/2	42,305	1/2	30,850	1/2	19,375	1/2	7,748	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,261	3/4	53,662	3/4	42,063	3/4	30,615	3/4	19,133	3/4	7,506	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	65,019	10	53,420	10	41,822	10	30,381	10	18,890	10	7,264	10		10	10	10	10	10	10
1/4	64,778	1/4	53,179	1/4	41,580	1/4	30,146	1/4	18,648	1/4	7,022	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,536	1/2	52,937	1/2	41,338	1/2	29,912	1/2	18,406	1/2	6,780	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	64,294	3/4	52,696	3/4	41,097	3/4	29,677	3/4	18,164	3/4	6,538	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	64,053	11	52,454	11	40,855	11	29,443	11	17,921	11	6,297	11		11	11	11	11	11	11
1/4	63,811	1/4	52,212	1/4	40,613	1/4	29,208	1/4	17,679	1/4	6,055	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,570	1/2	51,971	1/2	40,372	1/2	28,974	1/2	17,437	1/2	5,814	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,328	3/4	51,729	3/4	40,130	3/4	28,739	3/4	17,195	3/4	5,573	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "CBC 1413"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 1/2"

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	190,682	0	179,171	0	165,750	0	152,329	0	138,908	0	125,487	0	112,066	0	98,645
1/4		1/4		1/4	190,612	1/4	178,892	1/4	165,471	1/4	152,049	1/4	138,628	1/4	125,207	1/4	111,786	1/4	98,365
1/2		1/2		1/2	190,542	1/2	178,612	1/2	165,191	1/2	151,770	1/2	138,349	1/2	124,928	1/2	111,506	1/2	98,085
3/4		3/4		3/4	190,425	3/4	178,332	3/4	164,911	3/4	151,490	3/4	138,069	3/4	124,648	3/4	111,227	3/4	97,806
1	1	1	1	1	190,309	1	178,053	1	164,632	1	151,211	1	137,789	1	124,368	1	110,947	1	97,526
1/4		1/4		1/4	190,192	1/4	177,773	1/4	164,352	1/4	150,931	1/4	137,510	1/4	124,089	1/4	110,668	1/4	97,247
1/2		1/2		1/2	190,076	1/2	177,494	1/2	164,072	1/2	150,651	1/2	137,230	1/2	123,809	1/2	110,388	1/2	96,967
3/4		3/4		3/4	189,913	3/4	177,214	3/4	163,793	3/4	150,372	3/4	136,951	3/4	123,530	3/4	110,108	3/4	96,687
2	2	2	2	2	189,750	2	176,934	2	163,513	2	150,092	2	136,671	2	123,250	2	109,829	2	96,408
1/4		1/4		1/4	189,587	1/4	176,655	1/4	163,234	1/4	149,813	1/4	136,391	1/4	122,970	1/4	109,549	1/4	96,128
1/2		1/2		1/2	189,423	1/2	176,375	1/2	162,954	1/2	149,533	1/2	136,112	1/2	122,691	1/2	109,270	1/2	95,848
3/4		3/4		3/4	189,214	3/4	176,096	3/4	162,674	3/4	149,253	3/4	135,832	3/4	122,411	3/4	108,990	3/4	95,569
3	3	3	3	3	189,004	3	175,816	3	162,395	3	148,974	3	135,553	3	122,132	3	108,710	3	95,289
1/4		1/4		1/4	188,794	1/4	175,536	1/4	162,115	1/4	148,694	1/4	135,273	1/4	121,852	1/4	108,431	1/4	95,010
1/2		1/2		1/2	188,585	1/2	175,257	1/2	161,836	1/2	148,415	1/2	134,993	1/2	121,572	1/2	108,151	1/2	94,730
3/4		3/4		3/4	188,328	3/4	174,977	3/4	161,556	3/4	148,135	3/4	134,714	3/4	121,293	3/4	107,872	3/4	94,450
4	4	4	4	4	188,072	4	174,698	4	161,276	4	147,855	4	134,434	4	121,013	4	107,592	4	94,171
1/4		1/4		1/4	187,816	1/4	174,418	1/4	160,997	1/4	147,576	1/4	134,155	1/4	120,733	1/4	107,312	1/4	93,891
1/2		1/2		1/2	187,559	1/2	174,138	1/2	160,717	1/2	147,296	1/2	133,875	1/2	120,454	1/2	107,033	1/2	93,612
3/4		3/4		3/4	187,280	3/4	173,859	3/4	160,438	3/4	147,016	3/4	133,595	3/4	120,174	3/4	106,753	3/4	93,332
5	5	5	5	5	187,000	5	173,579	5	160,158	5	146,737	5	133,316	5	119,895	5	106,474	5	93,052
1/4		1/4		1/4	186,721	1/4	173,300	1/4	159,878	1/4	146,457	1/4	133,036	1/4	119,615	1/4	106,194	1/4	92,773
1/2		1/2		1/2	186,441	1/2	173,020	1/2	159,599	1/2	146,178	1/2	132,757	1/2	119,335	1/2	105,914	1/2	92,493
3/4		3/4		3/4	186,161	3/4	172,740	3/4	159,319	3/4	145,898	3/4	132,477	3/4	119,056	3/4	105,635	3/4	92,214
6	6	6	6	6	185,882	6	172,461	6	159,040	6	145,618	6	132,197	6	118,776	6	105,355	6	91,934
1/4		1/4		1/4	185,602	1/4	172,181	1/4	158,760	1/4	145,339	1/4	131,918	1/4	118,497	1/4	105,075	1/4	91,654
1/2		1/2		1/2	185,323	1/2	171,901	1/2	158,480	1/2	145,059	1/2	131,638	1/2	118,217	1/2	104,796	1/2	91,375
3/4		3/4		3/4	185,043	3/4	171,622	3/4	158,201	3/4	144,780	3/4	131,359	3/4	117,937	3/4	104,516	3/4	91,095
7	7	7	7	7	184,763	7	171,342	7	157,921	7	144,500	7	131,079	7	117,658	7	104,237	7	90,816
1/4		1/4		1/4	184,484	1/4	171,063	1/4	157,642	1/4	144,220	1/4	130,799	1/4	117,378	1/4	103,957	1/4	90,536
1/2		1/2		1/2	184,204	1/2	170,783	1/2	157,362	1/2	143,941	1/2	130,520	1/2	117,099	1/2	103,677	1/2	90,256
3/4		3/4		3/4	183,925	3/4	170,503	3/4	157,082	3/4	143,661	3/4	130,240	3/4	116,819	3/4	103,398	3/4	89,977
8	8	8	8	8	183,645	8	170,224	8	156,803	8	143,382	8	129,960	8	116,539	8	103,118	8	89,697
1/4		1/4		1/4	183,365	1/4	169,944	1/4	156,523	1/4	143,102	1/4	129,681	1/4	116,260	1/4	102,839	1/4	89,418
1/2		1/2		1/2	183,086	1/2	169,665	1/2	156,244	1/2	142,822	1/2	129,401	1/2	115,980	1/2	102,559	1/2	89,138
3/4		3/4		3/4	182,806	3/4	169,385	3/4	155,964	3/4	142,543	3/4	129,122	3/4	115,701	3/4	102,279	3/4	88,858
9	9	9	9	9	182,527	9	169,105	9	155,684	9	142,263	9	128,842	9	115,421	9	102,000	9	88,579
1/4		1/4		1/4	182,247	1/4	168,826	1/4	155,405	1/4	141,984	1/4	128,562	1/4	115,141	1/4	101,720	1/4	88,299
1/2		1/2		1/2	181,967	1/2	168,546	1/2	155,125	1/2	141,704	1/2	128,283	1/2	114,862	1/2	101,441	1/2	88,019
3/4		3/4		3/4	181,688	3/4	168,267	3/4	154,845	3/4	141,424	3/4	128,003	3/4	114,582	3/4	101,161	3/4	87,740
10	10	10	10	10	181,408	10	167,987	10	154,566	10	141,145	10	127,724	10	114,303	10	100,881	10	87,460
1/4		1/4		1/4	181,128	1/4	167,707	1/4	154,286	1/4	140,865	1/4	127,444	1/4	114,023	1/4	100,602	1/4	87,181
1/2		1/2		1/2	180,849	1/2	167,428	1/2	154,007	1/2	140,586	1/2	127,164	1/2	113,743	1/2	100,322	1/2	86,901
3/4		3/4		3/4	180,569	3/4	167,148	3/4	153,727	3/4	140,306	3/4	126,885	3/4	113,464	3/4	100,043	3/4	86,621
11	11	11	11	11	190,868	11	166,869	11	153,447	11	140,026	11	126,605	11	113,184	11	99,763	11	86,342
1/4		1/4		1/4	190,845	1/4	180,010	1/4	166,589	1/4	153,168	1/4	139,747	1/4	112,904	1/4	99,483	1/4	86,062
1/2		1/2		1/2	190,821	1/2	179,730	1/2	166,309	1/2	152,888	1/2	139,467	1/2	112,625	1/2	99,204	1/2	85,783
3/4		3/4		3/4	190,752	3/4	179,451	3/4	166,030	3/4	152,609	3/4	139,188	3/4	112,345	3/4	98,924	3/4	85,503

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  
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# BARGE "CBC 1413"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	85,223	0	71,802	0	58,381	0	44,960	0	31,849	0	18,444	0	5,041	0		0		0	
1/4	84,944	1/4	71,523	1/4	58,102	1/4	44,680	1/4	31,577	1/4	18,164	1/4	4,764	1/4		1/4		1/4	
1/2	84,664	1/2	71,243	1/2	57,822	1/2	44,401	1/2	31,305	1/2	17,885	1/2	4,488	1/2		1/2		1/2	
3/4	84,385	3/4	70,963	3/4	57,542	3/4	44,121	3/4	31,026	3/4	17,605	3/4	4,214	3/4		3/4		3/4	
1	84,105	1	70,684	1	57,263	1	43,842	1	30,746	1	17,325	1	3,940	1		1		1	
1/4	83,825	1/4	70,404	1/4	56,983	1/4	43,562	1/4	30,467	1/4	17,046	1/4	3,665	1/4		1/4		1/4	
1/2	83,546	1/2	70,125	1/2	56,704	1/2	43,282	1/2	30,187	1/2	16,766	1/2	3,391	1/2		1/2		1/2	
3/4	83,266	3/4	69,845	3/4	56,424	3/4	43,003	3/4	29,907	3/4	16,487	3/4	3,136	3/4		3/4		3/4	
2	82,987	2	69,565	2	56,144	2	42,723	2	29,628	2	16,207	2	2,880	2		2		2	
1/4	82,707	1/4	69,286	1/4	55,865	1/4	42,444	1/4	29,348	1/4	15,927	1/4	2,625	1/4		1/4		1/4	
1/2	82,427	1/2	69,006	1/2	55,585	1/2	42,164	1/2	29,069	1/2	15,648	1/2	2,369	1/2		1/2		1/2	
3/4	82,148	3/4	68,727	3/4	55,306	3/4	41,882	3/4	28,789	3/4	15,368	3/4	2,160	3/4		3/4		3/4	
3	81,868	3	68,447	3	55,026	3	41,620	3	28,509	3	15,089	3	1,950	3		3		3	
1/4	81,589	1/4	68,167	1/4	54,746	1/4	41,349	1/4	28,230	1/4	14,809	1/4	1,740	1/4		1/4		1/4	
1/2	81,309	1/2	67,888	1/2	54,467	1/2	41,077	1/2	27,950	1/2	14,529	1/2	1,530	1/2		1/2		1/2	
3/4	81,029	3/4	67,608	3/4	54,187	3/4	40,806	3/4	27,671	3/4	14,250	3/4	1,367	3/4		3/4		3/4	
4	80,750	4	67,329	4	53,907	4	40,534	4	27,391	4	13,970	4	1,204	4		4		4	
1/4	80,470	1/4	67,049	1/4	53,628	1/4	40,263	1/4	27,111	1/4	13,691	1/4	1,041	1/4		1/4		1/4	
1/2	80,191	1/2	66,769	1/2	53,348	1/2	39,991	1/2	26,832	1/2	13,411	1/2	878	1/2		1/2		1/2	
3/4	79,911	3/4	66,490	3/4	53,069	3/4	39,720	3/4	26,552	3/4	13,131	3/4	762	3/4		3/4		3/4	
5	79,631	5	66,210	5	52,789	5	39,449	5	26,273	5	12,852	5	645	5		5		5	
1/4	79,352	1/4	65,931	1/4	52,509	1/4	39,177	1/4	25,993	1/4	12,572	1/4	529	1/4		1/4		1/4	
1/2	79,072	1/2	65,651	1/2	52,230	1/2	38,906	1/2	25,713	1/2	12,293	1/2	412	1/2		1/2		1/2	
3/4	78,792	3/4	65,371	3/4	51,950	3/4	38,634	3/4	25,434	3/4	12,013	3/4	342	3/4		3/4		3/4	
6	78,513	6	65,092	6	51,671	6	38,363	6	25,154	6	11,734	6	272	6		6		6	
1/4	78,233	1/4	64,812	1/4	51,391	1/4	38,092	1/4	24,875	1/4	11,454	1/4	202	1/4		1/4		1/4	
1/2	77,954	1/2	64,533	1/2	51,111	1/2	37,820	1/2	24,595	1/2	11,174	1/2	133	1/2		1/2		1/2	
3/4	77,674	3/4	64,253	3/4	50,832	3/4	37,549	3/4	24,315	3/4	10,895	3/4	109	3/4		3/4		3/4	
7	77,394	7	63,973	7	50,552	7	37,277	7	24,036	7	10,615	7	86	7		7		7	
1/4	77,115	1/4	63,694	1/4	50,273	1/4	37,006	1/4	23,756	1/4	10,336	1/4	63	1/4		1/4		1/4	
1/2	76,835	1/2	63,414	1/2	49,993	1/2	36,735	1/2	23,477	1/2	10,056	1/2	39	1/2		1/2		1/2	
3/4	76,556	3/4	63,135	3/4	49,713	3/4	36,463	3/4	23,197	3/4	9,776	3/4		3/4		3/4		3/4	
8	76,276	8	62,855	8	49,434	8	36,192	8	22,917	8	9,497	8		8		8		8	
1/4	75,996	1/4	62,575	1/4	49,154	1/4	35,920	1/4	22,638	1/4	9,217	1/4		1/4		1/4		1/4	
1/2	75,717	1/2	62,296	1/2	48,875	1/2	35,649	1/2	22,358	1/2	8,938	1/2		1/2		1/2		1/2	
3/4	75,437	3/4	62,016	3/4	48,595	3/4	35,378	3/4	22,079	3/4	8,658	3/4		3/4		3/4		3/4	
9	75,158	9	61,736	9	48,315	9	35,106	9	21,799	9	8,379	9		9		9		9	
1/4	74,878	1/4	61,457	1/4	48,036	1/4	34,835	1/4	21,519	1/4	8,100	1/4		1/4		1/4		1/4	
1/2	74,598	1/2	61,177	1/2	47,756	1/2	34,563	1/2	21,240	1/2	7,820	1/2		1/2		1/2		1/2	
3/4	74,319	3/4	60,898	3/4	47,477	3/4	34,292	3/4	20,960	3/4	7,541	3/4		3/4		3/4		3/4	
10	74,039	10	60,618	10	47,197	10	34,021	10	20,681	10	7,263	10		10		10		10	
1/4	73,760	1/4	60,338	1/4	46,917	1/4	33,749	1/4	20,401	1/4	6,984	1/4		1/4		1/4		1/4	
1/2	73,480	1/2	60,059	1/2	46,638	1/2	33,478	1/2	20,121	1/2	6,705	1/2		1/2		1/2		1/2	
3/4	73,200	3/4	59,779	3/4	46,358	3/4	33,207	3/4	19,842	3/4	6,427	3/4		3/4		3/4		3/4	
11	72,921	11	59,500	11	46,079	11	32,935	11	19,562	11	6,149	11		11		11		11	
1/4	72,641	1/4	59,220	1/4	45,799	1/4	32,664	1/4	19,283	1/4	5,871	1/4		1/4		1/4		1/4	
1/2	72,362	1/2	58,940	1/2	45,519	1/2	32,392	1/2	19,003	1/2	5,593	1/2		1/2		1/2		1/2	
3/4	72,082	3/4	58,661	3/4	45,240	3/4	32,121	3/4	18,723	3/4	5,317	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

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



# BARGE "CBC 1413"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

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	170,788	0	161,107	0	149,115	0	137,124	0	125,132	0	113,140	0	101,149	0	89,157	0	89,157
1/4	1/4	1/4	170,767	1/4	160,857	1/4	148,865	1/4	136,874	1/4	124,882	1/4	112,890	1/4	100,899	1/4	88,907	1/4	88,907
1/2	1/2	1/2	170,704	1/2	160,607	1/2	148,616	1/2	136,624	1/2	124,632	1/2	112,641	1/2	100,649	1/2	88,657	1/2	88,657
3/4	3/4	3/4	170,642	3/4	160,357	3/4	148,366	3/4	136,374	3/4	124,382	3/4	112,391	3/4	100,399	3/4	88,407	3/4	88,407
1	1	1	170,580	1	160,108	1	148,116	1	136,124	1	124,133	1	112,141	1	100,149	1	88,158	1	88,158
1/4	1/4	1/4	170,517	1/4	159,858	1/4	147,866	1/4	135,874	1/4	123,883	1/4	111,891	1/4	99,899	1/4	87,908	1/4	87,908
1/2	1/2	1/2	170,413	1/2	159,608	1/2	147,616	1/2	135,625	1/2	123,633	1/2	111,641	1/2	99,650	1/2	87,658	1/2	87,658
3/4	3/4	3/4	170,309	3/4	159,358	3/4	147,366	3/4	135,375	3/4	123,383	3/4	111,391	3/4	99,400	3/4	87,408	3/4	87,408
2	2	2	170,205	2	159,108	2	147,117	2	135,125	2	123,133	2	111,142	2	99,150	2	87,158	2	87,158
1/4	1/4	1/4	170,101	1/4	158,858	1/4	146,867	1/4	134,875	1/4	122,883	1/4	110,892	1/4	98,900	1/4	86,908	1/4	86,908
1/2	1/2	1/2	169,955	1/2	158,609	1/2	146,617	1/2	134,625	1/2	122,634	1/2	110,642	1/2	98,650	1/2	86,659	1/2	86,659
3/4	3/4	3/4	169,809	3/4	158,359	3/4	146,367	3/4	134,375	3/4	122,384	3/4	110,392	3/4	98,400	3/4	86,409	3/4	86,409
3	3	3	169,663	3	158,109	3	146,117	3	134,126	3	122,134	3	110,142	3	98,151	3	86,159	3	86,159
1/4	1/4	1/4	169,518	1/4	157,859	1/4	145,868	1/4	133,876	1/4	121,884	1/4	109,892	1/4	97,901	1/4	85,909	1/4	85,909
1/2	1/2	1/2	169,330	1/2	157,609	1/2	145,618	1/2	133,626	1/2	121,634	1/2	109,643	1/2	97,651	1/2	85,659	1/2	85,659
3/4	3/4	3/4	169,143	3/4	157,360	3/4	145,368	3/4	133,376	3/4	121,385	3/4	109,393	3/4	97,401	3/4	85,409	3/4	85,409
4	4	4	168,956	4	157,110	4	145,118	4	133,126	4	121,135	4	109,143	4	97,151	4	85,160	4	85,160
1/4	1/4	1/4	168,768	1/4	156,860	1/4	144,868	1/4	132,877	1/4	120,885	1/4	108,893	1/4	96,902	1/4	84,910	1/4	84,910
1/2	1/2	1/2	168,539	1/2	156,610	1/2	144,618	1/2	132,627	1/2	120,635	1/2	108,643	1/2	96,652	1/2	84,660	1/2	84,660
3/4	3/4	3/4	168,310	3/4	156,360	3/4	144,369	3/4	132,377	3/4	120,385	3/4	108,394	3/4	96,402	3/4	84,410	3/4	84,410
5	5	5	168,081	5	156,110	5	144,119	5	132,127	5	120,135	5	108,144	5	96,152	5	84,160	5	84,160
1/4	1/4	1/4	167,852	1/4	155,861	1/4	143,869	1/4	131,877	1/4	119,886	1/4	107,894	1/4	95,902	1/4	83,911	1/4	83,911
1/2	1/2	1/2	167,602	1/2	155,611	1/2	143,619	1/2	131,627	1/2	119,636	1/2	107,644	1/2	95,652	1/2	83,661	1/2	83,661
3/4	3/4	3/4	167,353	3/4	155,361	3/4	143,369	3/4	131,378	3/4	119,386	3/4	107,394	3/4	95,403	3/4	83,411	3/4	83,411
6	6	6	167,103	6	155,111	6	143,119	6	131,128	6	119,136	6	107,144	6	95,153	6	83,161	6	83,161
1/4	1/4	1/4	166,853	1/4	154,861	1/4	142,870	1/4	130,878	1/4	118,886	1/4	106,895	1/4	94,903	1/4	82,911	1/4	82,911
1/2	1/2	1/2	166,603	1/2	154,611	1/2	142,620	1/2	130,628	1/2	118,636	1/2	106,645	1/2	94,653	1/2	82,661	1/2	82,661
3/4	3/4	3/4	166,353	3/4	154,362	3/4	142,370	3/4	130,378	3/4	118,387	3/4	106,395	3/4	94,403	3/4	82,412	3/4	82,412
7	7	7	166,103	7	154,112	7	142,120	7	130,128	7	118,137	7	106,145	7	94,153	7	82,162	7	82,162
1/4	1/4	1/4	165,854	1/4	153,862	1/4	141,870	1/4	129,879	1/4	117,887	1/4	105,895	1/4	93,904	1/4	81,912	1/4	81,912
1/2	1/2	1/2	165,604	1/2	153,612	1/2	141,620	1/2	129,629	1/2	117,637	1/2	105,645	1/2	93,654	1/2	81,662	1/2	81,662
3/4	3/4	3/4	165,354	3/4	153,362	3/4	141,371	3/4	129,379	3/4	117,387	3/4	105,396	3/4	93,404	3/4	81,412	3/4	81,412
8	8	8	165,104	8	153,112	8	141,121	8	129,129	8	117,137	8	105,146	8	93,154	8	81,162	8	81,162
1/4	1/4	1/4	164,854	1/4	152,863	1/4	140,871	1/4	128,879	1/4	116,888	1/4	104,896	1/4	92,904	1/4	80,913	1/4	80,913
1/2	1/2	1/2	164,605	1/2	152,613	1/2	140,621	1/2	128,629	1/2	116,638	1/2	104,646	1/2	92,654	1/2	80,663	1/2	80,663
3/4	3/4	3/4	164,355	3/4	152,363	3/4	140,371	3/4	128,380	3/4	116,388	3/4	104,396	3/4	92,405	3/4	80,413	3/4	80,413
9	9	9	164,105	9	152,113	9	140,122	9	128,130	9	116,138	9	104,146	9	92,155	9	80,163	9	80,163
1/4	1/4	1/4	163,855	1/4	151,863	1/4	139,872	1/4	127,880	1/4	115,888	1/4	103,897	1/4	91,905	1/4	79,913	1/4	79,913
1/2	1/2	1/2	163,605	1/2	151,614	1/2	139,622	1/2	127,630	1/2	115,638	1/2	103,647	1/2	91,655	1/2	79,663	1/2	79,663
3/4	3/4	3/4	163,355	3/4	151,364	3/4	139,372	3/4	127,380	3/4	115,389	3/4	103,397	3/4	91,405	3/4	79,414	3/4	79,414
10	10	10	163,106	10	151,114	10	139,122	10	127,131	10	115,139	10	103,147	10	91,155	10	79,164	10	79,164
1/4	1/4	1/4	162,856	1/4	150,864	1/4	138,872	1/4	126,881	1/4	114,889	1/4	102,897	1/4	90,906	1/4	78,914	1/4	78,914
1/2	1/2	1/2	162,606	1/2	150,614	1/2	138,623	1/2	126,631	1/2	114,639	1/2	102,648	1/2	90,656	1/2	78,664	1/2	78,664
3/4	3/4	3/4	162,356	3/4	150,364	3/4	138,373	3/4	126,381	3/4	114,389	3/4	102,398	3/4	90,406	3/4	78,414	3/4	78,414
11	11	11	162,106	11	150,115	11	138,123	11	126,131	11	114,140	11	102,148	11	90,156	11	78,165	11	78,165
1/4	1/4	1/4	161,856	1/4	149,865	1/4	137,873	1/4	125,881	1/4	113,890	1/4	101,898	1/4	89,906	1/4	77,915	1/4	77,915
1/2	1/2	1/2	161,607	1/2	149,615	1/2	137,623	1/2	125,632	1/2	113,640	1/2	101,648	1/2	89,657	1/2	77,665	1/2	77,665
3/4	3/4	3/4	170,809	3/4	161,357	3/4	149,365	3/4	137,373	3/4	125,382	3/4	113,390	3/4	101,398	3/4	89,407	3/4	77,415

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 1413"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

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	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	76,915	1/4	64,924	1/4	52,932	1/4	40,940	1/4	28,972	1/4	16,983	1/4	5,002	1/4		1/4		1/4		1/4	
1/2	76,666	1/2	64,674	1/2	52,682	1/2	40,691	1/2	28,722	1/2	16,734	1/2	4,755	1/2		1/2		1/2		1/2	
3/4	76,416	3/4	64,424	3/4	52,432	3/4	40,441	3/4	28,473	3/4	16,484	3/4	4,508	3/4		3/4		3/4		3/4	
1	76,166	1	64,174	1	52,183	1	40,191	1	28,223	1	16,234	1	4,261	1		1		1		1	
1/4	75,916	1/4	63,924	1/4	51,933	1/4	39,941	1/4	27,974	1/4	15,984	1/4	4,014	1/4		1/4		1/4		1/4	
1/2	75,666	1/2	63,675	1/2	51,683	1/2	39,691	1/2	27,724	1/2	15,734	1/2	3,769	1/2		1/2		1/2		1/2	
3/4	75,416	3/4	63,425	3/4	51,433	3/4	39,441	3/4	27,475	3/4	15,484	3/4	3,524	3/4		3/4		3/4		3/4	
2	75,167	2	63,175	2	51,183	2	39,192	2	27,225	2	15,235	2	3,279	2		2		2		2	
1/4	74,917	1/4	62,925	1/4	50,933	1/4	38,942	1/4	26,976	1/4	14,985	1/4	3,035	1/4		1/4		1/4		1/4	
1/2	74,667	1/2	62,675	1/2	50,684	1/2	38,692	1/2	26,726	1/2	14,735	1/2	2,806	1/2		1/2		1/2		1/2	
3/4	74,417	3/4	62,425	3/4	50,434	3/4	38,442	3/4	26,476	3/4	14,485	3/4	2,578	3/4		3/4		3/4		3/4	
3	74,167	3	62,176	3	50,184	3	38,192	3	26,227	3	14,235	3	2,350	3		3		3		3	
1/4	73,917	1/4	61,926	1/4	49,934	1/4	37,942	1/4	25,977	1/4	13,986	1/4	2,121	1/4		1/4		1/4		1/4	
1/2	73,668	1/2	61,676	1/2	49,684	1/2	37,693	1/2	25,727	1/2	13,736	1/2	1,934	1/2		1/2		1/2		1/2	
3/4	73,418	3/4	61,426	3/4	49,434	3/4	37,443	3/4	25,477	3/4	13,486	3/4	1,746	3/4		3/4		3/4		3/4	
4	73,168	4	61,176	4	49,185	4	37,193	4	25,227	4	13,236	4	1,559	4		4		4		4	
1/4	72,918	1/4	60,926	1/4	48,935	1/4	36,943	1/4	24,977	1/4	12,986	1/4	1,372	1/4		1/4		1/4		1/4	
1/2	72,668	1/2	60,677	1/2	48,685	1/2	36,694	1/2	24,728	1/2	12,736	1/2	1,226	1/2		1/2		1/2		1/2	
3/4	72,418	3/4	60,427	3/4	48,435	3/4	36,445	3/4	24,478	3/4	12,487	3/4	1,080	3/4		3/4		3/4		3/4	
5	72,169	5	60,177	5	48,185	5	36,196	5	24,228	5	12,237	5	935	5		5		5		5	
1/4	71,919	1/4	59,927	1/4	47,935	1/4	35,947	1/4	23,978	1/4	11,987	1/4	789	1/4		1/4		1/4		1/4	
1/2	71,669	1/2	59,677	1/2	47,686	1/2	35,698	1/2	23,728	1/2	11,737	1/2	685	1/2		1/2		1/2		1/2	
3/4	71,419	3/4	59,428	3/4	47,436	3/4	35,448	3/4	23,479	3/4	11,487	3/4	581	3/4		3/4		3/4		3/4	
6	71,169	6	59,178	6	47,186	6	35,199	6	23,229	6	11,238	6	477	6		6		6		6	
1/4	70,920	1/4	58,928	1/4	46,936	1/4	34,950	1/4	22,979	1/4	10,988	1/4	373	1/4		1/4		1/4		1/4	
1/2	70,670	1/2	58,678	1/2	46,686	1/2	34,701	1/2	22,729	1/2	10,738	1/2	310	1/2		1/2		1/2		1/2	
3/4	70,420	3/4	58,428	3/4	46,437	3/4	34,452	3/4	22,479	3/4	10,488	3/4	248	3/4		3/4		3/4		3/4	
7	70,170	7	58,178	7	46,187	7	34,203	7	22,229	7	10,238	7	185	7		7		7		7	
1/4	69,920	1/4	57,929	1/4	45,937	1/4	33,954	1/4	21,980	1/4	9,988	1/4	123	1/4		1/4		1/4		1/4	
1/2	69,670	1/2	57,679	1/2	45,687	1/2	33,705	1/2	21,730	1/2	9,739	1/2	102	1/2		1/2		1/2		1/2	
3/4	69,421	3/4	57,429	3/4	45,437	3/4	33,456	3/4	21,480	3/4	9,489	3/4	81	3/4		3/4		3/4		3/4	
8	69,171	8	57,179	8	45,187	8	33,207	8	21,230	8	9,239	8	60	8		8		8		8	
1/4	68,921	1/4	56,929	1/4	44,938	1/4	32,957	1/4	20,980	1/4	8,989	1/4	39	1/4		1/4		1/4		1/4	
1/2	68,671	1/2	56,679	1/2	44,688	1/2	32,708	1/2	20,731	1/2	8,739	1/2		1/2		1/2		1/2		1/2	
3/4	68,421	3/4	56,430	3/4	44,438	3/4	32,459	3/4	20,481	3/4	8,490	3/4		3/4		3/4		3/4		3/4	
9	68,171	9	56,180	9	44,188	9	32,210	9	20,231	9	8,240	9		9		9		9		9	
1/4	67,922	1/4	55,930	1/4	43,938	1/4	31,961	1/4	19,981	1/4	7,990	1/4		1/4		1/4		1/4		1/4	
1/2	67,672	1/2	55,680	1/2	43,688	1/2	31,712	1/2	19,731	1/2	7,740	1/2		1/2		1/2		1/2		1/2	
3/4	67,422	3/4	55,430	3/4	43,439	3/4	31,463	3/4	19,481	3/4	7,491	3/4		3/4		3/4		3/4		3/4	
10	67,172	10	55,180	10	43,189	10	31,214	10	19,232	10	7,241	10		10		10		10		10	
1/4	66,922	1/4	54,931	1/4	42,939	1/4	30,965	1/4	18,982	1/4	6,992	1/4		1/4		1/4		1/4		1/4	
1/2	66,672	1/2	54,681	1/2	42,689	1/2	30,715	1/2	18,732	1/2	6,742	1/2		1/2		1/2		1/2		1/2	
3/4	66,423	3/4	54,431	3/4	42,439	3/4	30,466	3/4	18,482	3/4	6,493	3/4		3/4		3/4		3/4		3/4	
11	66,173	11	54,181	11	42,189	11	30,217	11	18,232	11	6,244	11		11		11		11		11	
1/4	65,923	1/4	53,931	1/4	41,940	1/4	29,968	1/4	17,983	1/4	5,995	1/4		1/4		1/4		1/4		1/4	
1/2	65,673	1/2	53,682	1/2	41,690	1/2	29,719	1/2	17,733	1/2	5,747	1/2		1/2		1/2		1/2		1/2	
3/4	65,423	3/4	53,432	3/4	41,440	3/4	29,470	3/4	17,483	3/4	5,499	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/24/2019 JS  
CALCULATED: 06/25/2019 CL  
PRINTED: 06/25/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2019

PRECISION MEASUREMENT  
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