



# BARGE "CBC 1398"

## 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>
<b>1 CENTER</b>	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
<b>2 CENTER</b>	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
<b>3 CENTER</b>	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-7/8	- 00-7/8	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-5/8	- 01-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 161'-09"

November 22, 2017

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

<http://www.pmacorp.net>



# BARGE "CBC 1398"

## 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	8,102	0	18,905	0	29,558	0	40,240	0	51,015	0	61,790	0	72,542	0	83,296	0	94,074
1/4	58	1/4	8,327	1/4	19,130	1/4	29,776	1/4	40,464	1/4	51,239	1/4	62,015	1/4	72,765	1/4	83,521	1/4	94,299
1/2	77	1/2	8,552	1/2	19,355	1/2	29,995	1/2	40,689	1/2	51,464	1/2	62,239	1/2	72,988	1/2	83,745	1/2	94,524
3/4	96	3/4	8,777	3/4	19,580	3/4	30,214	3/4	40,913	3/4	51,688	3/4	62,464	3/4	73,212	3/4	83,970	3/4	94,748
1	114	1	9,002	1	19,805	1	30,432	1	41,138	1	51,913	1	62,688	1	73,435	1	84,194	1	94,973
1/4	171	1/4	9,227	1/4	20,030	1/4	30,651	1/4	41,362	1/4	52,137	1/4	62,913	1/4	73,658	1/4	84,419	1/4	95,197
1/2	227	1/2	9,452	1/2	20,256	1/2	30,870	1/2	41,587	1/2	52,362	1/2	63,137	1/2	73,881	1/2	84,643	1/2	95,422
3/4	283	3/4	9,677	3/4	20,481	3/4	31,088	3/4	41,811	3/4	52,586	3/4	63,362	3/4	74,104	3/4	84,868	3/4	95,646
2	339	2	9,903	2	20,706	2	31,307	2	42,036	2	52,811	2	63,586	2	74,327	2	85,092	2	95,871
1/4	433	1/4	10,128	1/4	20,931	1/4	31,526	1/4	42,260	1/4	53,035	1/4	63,811	1/4	74,550	1/4	85,317	1/4	96,095
1/2	527	1/2	10,353	1/2	21,156	1/2	31,744	1/2	42,485	1/2	53,260	1/2	64,035	1/2	74,773	1/2	85,541	1/2	96,320
3/4	621	3/4	10,578	3/4	21,381	3/4	31,963	3/4	42,709	3/4	53,484	3/4	64,260	3/4	74,997	3/4	85,766	3/4	96,545
3	715	3	10,803	3	21,606	3	32,182	3	42,934	3	53,709	3	64,484	3	75,220	3	85,991	3	96,769
1/4	846	1/4	11,028	1/4	21,831	1/4	32,400	1/4	43,158	1/4	53,933	1/4	64,708	1/4	75,443	1/4	86,215	1/4	96,994
1/2	977	1/2	11,253	1/2	22,056	1/2	32,619	1/2	43,383	1/2	54,158	1/2	64,933	1/2	75,666	1/2	86,440	1/2	97,218
3/4	1,108	3/4	11,478	3/4	22,281	3/4	32,838	3/4	43,607	3/4	54,382	3/4	65,157	3/4	75,889	3/4	86,664	3/4	97,443
4	1,240	4	11,703	4	22,506	4	33,056	4	43,832	4	54,607	4	65,382	4	76,112	4	86,889	4	97,667
1/4	1,408	1/4	11,928	1/4	22,731	1/4	33,281	1/4	44,056	1/4	54,831	1/4	65,606	1/4	76,336	1/4	87,113	1/4	97,892
1/2	1,577	1/2	12,153	1/2	22,956	1/2	33,505	1/2	44,281	1/2	55,056	1/2	65,831	1/2	76,560	1/2	87,338	1/2	98,116
3/4	1,746	3/4	12,378	3/4	23,181	3/4	33,730	3/4	44,505	3/4	55,280	3/4	66,055	3/4	76,784	3/4	87,562	3/4	98,341
5	1,915	5	12,603	5	23,406	5	33,954	5	44,729	5	55,505	5	66,280	5	77,008	5	87,787	5	98,566
1/4	2,120	1/4	12,828	1/4	23,632	1/4	34,179	1/4	44,954	1/4	55,729	1/4	66,504	1/4	77,232	1/4	88,012	1/4	98,790
1/2	2,326	1/2	13,053	1/2	23,857	1/2	34,403	1/2	45,178	1/2	55,954	1/2	66,729	1/2	77,457	1/2	88,236	1/2	99,015
3/4	2,532	3/4	13,279	3/4	24,082	3/4	34,628	3/4	45,403	3/4	56,178	3/4	66,953	3/4	77,681	3/4	88,461	3/4	99,239
6	2,737	6	13,504	6	24,307	6	34,852	6	45,627	6	56,403	6	67,178	6	77,906	6	88,685	6	99,464
1/4	2,958	1/4	13,729	1/4	24,526	1/4	35,077	1/4	45,852	1/4	56,627	1/4	67,402	1/4	78,131	1/4	88,910	1/4	99,688
1/2	3,179	1/2	13,954	1/2	24,745	1/2	35,301	1/2	46,076	1/2	56,852	1/2	67,626	1/2	78,355	1/2	89,134	1/2	99,913
3/4	3,399	3/4	14,179	3/4	24,964	3/4	35,526	3/4	46,301	3/4	57,076	3/4	67,849	3/4	78,580	3/4	89,359	3/4	100,137
7	3,620	7	14,404	7	25,183	7	35,750	7	46,525	7	57,301	7	68,073	7	78,804	7	89,583	7	100,362
1/4	3,842	1/4	14,629	1/4	25,402	1/4	35,975	1/4	46,750	1/4	57,525	1/4	68,297	1/4	79,029	1/4	89,808	1/4	100,586
1/2	4,065	1/2	14,854	1/2	25,621	1/2	36,199	1/2	46,974	1/2	57,749	1/2	68,521	1/2	79,253	1/2	90,033	1/2	100,811
3/4	4,287	3/4	15,079	3/4	25,840	3/4	36,424	3/4	47,199	3/4	57,974	3/4	68,745	3/4	79,478	3/4	90,257	3/4	101,036
8	4,510	8	15,304	8	26,059	8	36,648	8	47,423	8	58,198	8	68,969	8	79,703	8	90,482	8	101,260
1/4	4,734	1/4	15,529	1/4	26,278	1/4	36,873	1/4	47,648	1/4	58,423	1/4	69,193	1/4	79,927	1/4	90,706	1/4	101,485
1/2	4,957	1/2	15,754	1/2	26,496	1/2	37,097	1/2	47,872	1/2	58,647	1/2	69,417	1/2	80,152	1/2	90,931	1/2	101,709
3/4	5,181	3/4	15,979	3/4	26,715	3/4	37,322	3/4	48,097	3/4	58,872	3/4	69,641	3/4	80,376	3/4	91,155	3/4	101,934
9	5,405	9	16,204	9	26,934	9	37,546	9	48,321	9	59,096	9	69,865	9	80,601	9	91,380	9	102,158
1/4	5,629	1/4	16,429	1/4	27,152	1/4	37,770	1/4	48,546	1/4	59,321	1/4	70,088	1/4	80,826	1/4	91,604	1/4	102,383
1/2	5,854	1/2	16,655	1/2	27,371	1/2	37,995	1/2	48,770	1/2	59,545	1/2	70,311	1/2	81,050	1/2	91,829	1/2	102,607
3/4	6,078	3/4	16,880	3/4	27,590	3/4	38,219	3/4	48,995	3/4	59,770	3/4	70,534	3/4	81,275	3/4	92,054	3/4	102,832
10	6,302	10	17,105	10	27,808	10	38,444	10	49,219	10	59,994	10	70,757	10	81,499	10	92,278	10	103,057
1/4	6,527	1/4	17,330	1/4	28,027	1/4	38,668	1/4	49,444	1/4	60,219	1/4	70,980	1/4	81,724	1/4	92,503	1/4	103,281
1/2	6,752	1/2	17,555	1/2	28,246	1/2	38,893	1/2	49,668	1/2	60,443	1/2	71,203	1/2	81,948	1/2	92,727	1/2	103,506
3/4	6,977	3/4	17,780	3/4	28,464	3/4	39,117	3/4	49,893	3/4	60,668	3/4	71,426	3/4	82,173	3/4	92,952	3/4	103,730
11	7,202	11	18,005	11	28,683	11	39,342	11	50,117	11	60,892	11	71,650	11	82,398	11	93,176	11	103,955
1/4	7,427	1/4	18,230	1/4	28,902	1/4	39,566	1/4	50,342	1/4	61,117	1/4	71,873	1/4	82,622	1/4	93,401	1/4	104,179
1/2	7,652	1/2	18,455	1/2	29,120	1/2	39,791	1/2	50,566	1/2	61,341	1/2	72,096	1/2	82,847	1/2	93,625	1/2	104,404
3/4	7,877	3/4	18,680	3/4	29,339	3/4	40,015	3/4	50,791	3/4	61,566	3/4	72,319	3/4	83,071	3/4	93,850	3/4	104,628

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'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CBC 1398"

## 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	104,853	0	114,967	0	124,440	0	133,870	0	143,284	0		0		0		0		0	
1/4	105,077	1/4	115,165	1/4	124,636	1/4	134,067	1/4	143,479	1/4		1/4		1/4		1/4		1/4	
1/2	105,302	1/2	115,362	1/2	124,833	1/2	134,263	1/2	143,673	1/2		1/2		1/2		1/2		1/2	
3/4	105,526	3/4	115,559	3/4	125,030	3/4	134,460	3/4	143,868	3/4		3/4		3/4		3/4		3/4	
1	105,750	1	115,757	1	125,227	1	134,657	1	144,063	1		1		1		1		1	
1/4	105,975	1/4	115,954	1/4	125,424	1/4	134,854	1/4	144,257	1/4		1/4		1/4		1/4		1/4	
1/2	106,199	1/2	116,151	1/2	125,620	1/2	135,051	1/2	144,452	1/2		1/2		1/2		1/2		1/2	
3/4	106,423	3/4	116,349	3/4	125,817	3/4	135,248	3/4	144,647	3/4		3/4		3/4		3/4		3/4	
2	106,647	2	116,546	2	126,014	2	135,444	2	144,842	2		2		2		2		2	
1/4	106,872	1/4	116,743	1/4	126,211	1/4	135,641	1/4	145,045	1/4		1/4		1/4		1/4		1/4	
1/2	107,096	1/2	116,941	1/2	126,408	1/2	135,838	1/2	145,249	1/2		1/2		1/2		1/2		1/2	
3/4	107,320	3/4	117,138	3/4	126,605	3/4	136,035	3/4	145,453	3/4		3/4		3/4		3/4		3/4	
3	107,545	3	117,335	3	126,801	3	136,232	3	145,656	3		3		3		3		3	
1/4	107,769	1/4	117,533	1/4	126,998	1/4	136,428	1/4	145,822	1/4		1/4		1/4		1/4		1/4	
1/2	107,993	1/2	117,730	1/2	127,195	1/2	136,625	1/2	145,989	1/2		1/2		1/2		1/2		1/2	
3/4	108,218	3/4	117,927	3/4	127,392	3/4	136,822	3/4	146,155	3/4		3/4		3/4		3/4		3/4	
4	108,442	4	118,125	4	127,589	4	137,019	4	146,321	4		4		4		4		4	
1/4	108,666	1/4	118,322	1/4	127,785	1/4	137,216	1/4	146,450	1/4		1/4		1/4		1/4		1/4	
1/2	108,890	1/2	118,519	1/2	127,982	1/2	137,413	1/2	146,578	1/2		1/2		1/2		1/2		1/2	
3/4	109,115	3/4	118,717	3/4	128,179	3/4	137,609	3/4	146,707	3/4		3/4		3/4		3/4		3/4	
5	109,339	5	118,914	5	128,376	5	137,806	5	146,835	5		5		5		5		5	
1/4	109,563	1/4	119,111	1/4	128,573	1/4	138,003	1/4	146,927	1/4		1/4		1/4		1/4		1/4	
1/2	109,788	1/2	119,309	1/2	128,770	1/2	138,200	1/2	147,018	1/2		1/2		1/2		1/2		1/2	
3/4	110,012	3/4	119,506	3/4	128,966	3/4	138,397	3/4	147,109	3/4		3/4		3/4		3/4		3/4	
6	110,236	6	119,703	6	129,163	6	138,593	6	147,200	6		6		6		6		6	
1/4	110,433	1/4	119,901	1/4	129,359	1/4	138,790	1/4	147,253	1/4		1/4		1/4		1/4		1/4	
1/2	110,631	1/2	120,098	1/2	129,555	1/2	138,987	1/2	147,307	1/2		1/2		1/2		1/2		1/2	
3/4	110,828	3/4	120,295	3/4	129,751	3/4	139,184	3/4	147,361	3/4		3/4		3/4		3/4		3/4	
7	111,025	7	120,493	7	129,948	7	139,381	7	147,414	7		7		7		7		7	
1/4	111,222	1/4	120,690	1/4	130,144	1/4	139,577	1/4	147,430	1/4		1/4		1/4		1/4		1/4	
1/2	111,419	1/2	120,887	1/2	130,340	1/2	139,774	1/2	147,446	1/2		1/2		1/2		1/2		1/2	
3/4	111,616	3/4	121,085	3/4	130,536	3/4	139,971	3/4	147,463	3/4		3/4		3/4		3/4		3/4	
8	111,813	8	121,282	8	130,732	8	140,168	8	147,479	8		8		8		8		8	
1/4	112,010	1/4	121,479	1/4	130,928	1/4	140,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	112,208	1/2	121,677	1/2	131,124	1/2	140,557	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	112,405	3/4	121,874	3/4	131,320	3/4	140,752	3/4		3/4		3/4		3/4		3/4		3/4	
9	112,602	9	122,072	9	131,516	9	140,947	9		9		9		9		9		9	
1/4	112,799	1/4	122,269	1/4	131,713	1/4	141,142	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	112,996	1/2	122,466	1/2	131,909	1/2	141,336	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	113,193	3/4	122,664	3/4	132,105	3/4	141,531	3/4		3/4		3/4		3/4		3/4		3/4	
10	113,390	10	122,861	10	132,301	10	141,726	10		10		10		10		10		10	
1/4	113,587	1/4	123,058	1/4	132,497	1/4	141,921	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113,785	1/2	123,256	1/2	132,693	1/2	142,115	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	113,982	3/4	123,453	3/4	132,889	3/4	142,310	3/4		3/4		3/4		3/4		3/4		3/4	
11	114,179	11	123,650	11	133,085	11	142,505	11		11		11		11		11		11	
1/4	114,376	1/4	123,848	1/4	133,281	1/4	142,700	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	114,573	1/2	124,045	1/2	133,478	1/2	142,894	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	114,770	3/4	124,242	3/4	133,674	3/4	143,089	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

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



# BARGE "CBC 1398"

## 2 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	9,059	0	21,143	0	33,081	0	45,019	0	57,104	0	69,189	0	81,274	0	93,359	0	105,442
1/4	60	1/4	9,310	1/4	21,395	1/4	33,325	1/4	45,271	1/4	57,356	1/4	69,441	1/4	81,526	1/4	93,611	1/4	105,693
1/2	81	1/2	9,562	1/2	21,647	1/2	33,570	1/2	45,522	1/2	57,607	1/2	69,692	1/2	81,777	1/2	93,862	1/2	105,945
3/4	102	3/4	9,814	3/4	21,899	3/4	33,814	3/4	45,774	3/4	57,859	3/4	69,944	3/4	82,029	3/4	94,114	3/4	106,197
1	123	1	10,066	1	22,150	1	34,058	1	46,026	1	58,111	1	70,196	1	82,281	1	94,366	1	106,449
1/4	186	1/4	10,317	1/4	22,402	1/4	34,303	1/4	46,278	1/4	58,363	1/4	70,448	1/4	82,533	1/4	94,617	1/4	106,700
1/2	249	1/2	10,569	1/2	22,654	1/2	34,547	1/2	46,529	1/2	58,614	1/2	70,699	1/2	82,784	1/2	94,869	1/2	106,952
3/4	312	3/4	10,821	3/4	22,906	3/4	34,791	3/4	46,781	3/4	58,866	3/4	70,951	3/4	83,036	3/4	95,121	3/4	107,204
2	375	2	11,073	2	23,157	2	35,036	2	47,033	2	59,118	2	71,203	2	83,288	2	95,373	2	107,456
1/4	480	1/4	11,325	1/4	23,409	1/4	35,280	1/4	47,285	1/4	59,370	1/4	71,455	1/4	83,540	1/4	95,624	1/4	107,707
1/2	585	1/2	11,576	1/2	23,661	1/2	35,524	1/2	47,537	1/2	59,622	1/2	71,707	1/2	83,792	1/2	95,876	1/2	107,959
3/4	690	3/4	11,828	3/4	23,913	3/4	35,769	3/4	47,788	3/4	59,873	3/4	71,958	3/4	84,043	3/4	96,128	3/4	108,211
3	795	3	12,080	3	24,164	3	36,013	3	48,040	3	60,125	3	72,210	3	84,295	3	96,380	3	108,462
1/4	941	1/4	12,332	1/4	24,416	1/4	36,257	1/4	48,292	1/4	60,377	1/4	72,462	1/4	84,547	1/4	96,631	1/4	108,714
1/2	1,088	1/2	12,583	1/2	24,668	1/2	36,502	1/2	48,544	1/2	60,629	1/2	72,714	1/2	84,799	1/2	96,883	1/2	108,966
3/4	1,235	3/4	12,835	3/4	24,920	3/4	36,746	3/4	48,795	3/4	60,880	3/4	72,965	3/4	85,050	3/4	97,135	3/4	109,218
4	1,382	4	13,087	4	25,171	4	36,990	4	49,047	4	61,132	4	73,217	4	85,302	4	97,386	4	109,469
1/4	1,571	1/4	13,339	1/4	25,423	1/4	37,235	1/4	49,299	1/4	61,384	1/4	73,469	1/4	85,554	1/4	97,638	1/4	109,721
1/2	1,760	1/2	13,590	1/2	25,675	1/2	37,480	1/2	49,551	1/2	61,636	1/2	73,721	1/2	85,806	1/2	97,890	1/2	109,973
3/4	1,948	3/4	13,842	3/4	25,927	3/4	37,725	3/4	49,803	3/4	61,887	3/4	73,972	3/4	86,057	3/4	98,142	3/4	110,225
5	2,137	5	14,094	5	26,178	5	37,969	5	50,054	5	62,139	5	74,224	5	86,309	5	98,393	5	110,476
1/4	2,367	1/4	14,346	1/4	26,430	1/4	38,221	1/4	50,306	1/4	62,391	1/4	74,476	1/4	86,561	1/4	98,645	1/4	110,728
1/2	2,597	1/2	14,597	1/2	26,682	1/2	38,473	1/2	50,558	1/2	62,643	1/2	74,728	1/2	86,813	1/2	98,897	1/2	110,980
3/4	2,828	3/4	14,849	3/4	26,934	3/4	38,725	3/4	50,810	3/4	62,895	3/4	74,980	3/4	87,065	3/4	99,149	3/4	111,231
6	3,058	6	15,101	6	27,186	6	38,976	6	51,061	6	63,146	6	75,231	6	87,316	6	99,400	6	111,483
1/4	3,304	1/4	15,353	1/4	27,437	1/4	39,228	1/4	51,313	1/4	63,398	1/4	75,483	1/4	87,568	1/4	99,652	1/4	111,735
1/2	3,551	1/2	15,604	1/2	27,689	1/2	39,480	1/2	51,565	1/2	63,650	1/2	75,735	1/2	87,820	1/2	99,904	1/2	111,987
3/4	3,798	3/4	15,856	3/4	27,941	3/4	39,732	3/4	51,817	3/4	63,902	3/4	75,987	3/4	88,072	3/4	100,155	3/4	112,238
7	4,045	7	16,108	7	28,193	7	39,983	7	52,068	7	64,153	7	76,238	7	88,323	7	100,407	7	112,490
1/4	4,294	1/4	16,360	1/4	28,437	1/4	40,235	1/4	52,320	1/4	64,405	1/4	76,490	1/4	88,575	1/4	100,659	1/4	112,742
1/2	4,543	1/2	16,612	1/2	28,682	1/2	40,487	1/2	52,572	1/2	64,657	1/2	76,742	1/2	88,827	1/2	100,911	1/2	112,994
3/4	4,792	3/4	16,863	3/4	28,927	3/4	40,739	3/4	52,824	3/4	64,909	3/4	76,994	3/4	89,079	3/4	101,162	3/4	113,245
8	5,040	8	17,115	8	29,171	8	40,991	8	53,076	8	65,161	8	77,245	8	89,330	8	101,414	8	113,497
1/4	5,291	1/4	17,367	1/4	29,416	1/4	41,242	1/4	53,327	1/4	65,412	1/4	77,497	1/4	89,582	1/4	101,666	1/4	113,749
1/2	5,541	1/2	17,619	1/2	29,660	1/2	41,494	1/2	53,579	1/2	65,664	1/2	77,749	1/2	89,834	1/2	101,918	1/2	114,000
3/4	5,791	3/4	17,870	3/4	29,904	3/4	41,746	3/4	53,831	3/4	65,916	3/4	78,001	3/4	90,086	3/4	102,169	3/4	114,252
9	6,041	9	18,122	9	30,149	9	41,998	9	54,083	9	66,168	9	78,253	9	90,338	9	102,421	9	114,504
1/4	6,292	1/4	18,374	1/4	30,393	1/4	42,249	1/4	54,334	1/4	66,419	1/4	78,504	1/4	90,589	1/4	102,673	1/4	114,756
1/2	6,543	1/2	18,626	1/2	30,637	1/2	42,501	1/2	54,586	1/2	66,671	1/2	78,756	1/2	90,841	1/2	102,924	1/2	115,007
3/4	6,795	3/4	18,877	3/4	30,882	3/4	42,753	3/4	54,838	3/4	66,923	3/4	79,008	3/4	91,093	3/4	103,176	3/4	115,259
10	7,046	10	19,129	10	31,126	10	43,005	10	55,090	10	67,175	10	79,260	10	91,345	10	103,428	10	115,511
1/4	7,297	1/4	19,381	1/4	31,370	1/4	43,256	1/4	55,341	1/4	67,426	1/4	79,511	1/4	91,596	1/4	103,680	1/4	115,762
1/2	7,549	1/2	19,633	1/2	31,615	1/2	43,508	1/2	55,593	1/2	67,678	1/2	79,763	1/2	91,848	1/2	103,931	1/2	116,014
3/4	7,800	3/4	19,884	3/4	31,859	3/4	43,760	3/4	55,845	3/4	67,930	3/4	80,015	3/4	92,100	3/4	104,183	3/4	116,266
11	8,052	11	20,136	11	32,104	11	44,012	11	56,097	11	68,182	11	80,267	11	92,352	11	104,435	11	116,518
1/4	8,303	1/4	20,388	1/4	32,348	1/4	44,264	1/4	56,349	1/4	68,434	1/4	80,518	1/4	92,603	1/4	104,687	1/4	116,769
1/2	8,555	1/2	20,640	1/2	32,592	1/2	44,515	1/2	56,600	1/2	68,685	1/2	80,770	1/2	92,855	1/2	104,938	1/2	117,021
3/4	8,807	3/4	20,891	3/4	32,837	3/4	44,767	3/4	56,852	3/4	68,937	3/4	81,022	3/4	93,107	3/4	105,190	3/4	117,273

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 1398"

## 2 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	117,525	0	129,607	0	141,690	0	153,706	0	165,685	0		0		0		0		0	
1/4	117,776	1/4	129,859	1/4	141,941	1/4	153,956	1/4	165,933	1/4		1/4		1/4		1/4		1/4	
1/2	118,028	1/2	130,111	1/2	142,191	1/2	154,207	1/2	166,181	1/2		1/2		1/2		1/2		1/2	
3/4	118,280	3/4	130,363	3/4	142,441	3/4	154,457	3/4	166,429	3/4		3/4		3/4		3/4		3/4	
1	118,531	1	130,614	1	142,692	1	154,707	1	166,677	1		1		1		1		1	
1/4	118,783	1/4	130,866	1/4	142,942	1/4	154,958	1/4	166,925	1/4		1/4		1/4		1/4		1/4	
1/2	119,035	1/2	131,118	1/2	143,192	1/2	155,208	1/2	167,173	1/2		1/2		1/2		1/2		1/2	
3/4	119,287	3/4	131,370	3/4	143,443	3/4	155,458	3/4	167,421	3/4		3/4		3/4		3/4		3/4	
2	119,538	2	131,621	2	143,693	2	155,709	2	167,669	2		2		2		2		2	
1/4	119,790	1/4	131,873	1/4	143,943	1/4	155,959	1/4	167,896	1/4		1/4		1/4		1/4		1/4	
1/2	120,042	1/2	132,125	1/2	144,194	1/2	156,209	1/2	168,123	1/2		1/2		1/2		1/2		1/2	
3/4	120,294	3/4	132,376	3/4	144,444	3/4	156,460	3/4	168,350	3/4		3/4		3/4		3/4		3/4	
3	120,545	3	132,628	3	144,694	3	156,710	3	168,577	3		3		3		3		3	
1/4	120,797	1/4	132,880	1/4	144,945	1/4	156,960	1/4	168,762	1/4		1/4		1/4		1/4		1/4	
1/2	121,049	1/2	133,132	1/2	145,195	1/2	157,211	1/2	168,947	1/2		1/2		1/2		1/2		1/2	
3/4	121,300	3/4	133,383	3/4	145,445	3/4	157,461	3/4	169,132	3/4		3/4		3/4		3/4		3/4	
4	121,552	4	133,635	4	145,696	4	157,711	4	169,317	4		4		4		4		4	
1/4	121,804	1/4	133,887	1/4	145,946	1/4	157,962	1/4	169,460	1/4		1/4		1/4		1/4		1/4	
1/2	122,056	1/2	134,139	1/2	146,196	1/2	158,212	1/2	169,604	1/2		1/2		1/2		1/2		1/2	
3/4	122,307	3/4	134,390	3/4	146,447	3/4	158,462	3/4	169,747	3/4		3/4		3/4		3/4		3/4	
5	122,559	5	134,642	5	146,697	5	158,713	5	169,890	5		5		5		5		5	
1/4	122,811	1/4	134,894	1/4	146,947	1/4	158,963	1/4	169,991	1/4		1/4		1/4		1/4		1/4	
1/2	123,063	1/2	135,145	1/2	147,198	1/2	159,213	1/2	170,092	1/2		1/2		1/2		1/2		1/2	
3/4	123,314	3/4	135,397	3/4	147,448	3/4	159,464	3/4	170,193	3/4		3/4		3/4		3/4		3/4	
6	123,566	6	135,649	6	147,698	6	159,714	6	170,294	6		6		6		6		6	
1/4	123,818	1/4	135,901	1/4	147,949	1/4	159,964	1/4	170,354	1/4		1/4		1/4		1/4		1/4	
1/2	124,069	1/2	136,152	1/2	148,199	1/2	160,215	1/2	170,413	1/2		1/2		1/2		1/2		1/2	
3/4	124,321	3/4	136,404	3/4	148,449	3/4	160,465	3/4	170,472	3/4		3/4		3/4		3/4		3/4	
7	124,573	7	136,656	7	148,700	7	160,715	7	170,531	7		7		7		7		7	
1/4	124,825	1/4	136,908	1/4	148,950	1/4	160,966	1/4	170,548	1/4		1/4		1/4		1/4		1/4	
1/2	125,076	1/2	137,159	1/2	149,200	1/2	161,216	1/2	170,566	1/2		1/2		1/2		1/2		1/2	
3/4	125,328	3/4	137,411	3/4	149,451	3/4	161,466	3/4	170,583	3/4		3/4		3/4		3/4		3/4	
8	125,580	8	137,663	8	149,701	8	161,717	8	170,600	8		8		8		8		8	
1/4	125,832	1/4	137,914	1/4	149,951	1/4	161,965	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,083	1/2	138,166	1/2	150,202	1/2	162,213	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,335	3/4	138,418	3/4	150,452	3/4	162,461	3/4		3/4		3/4		3/4		3/4		3/4	
9	126,587	9	138,670	9	150,702	9	162,709	9		9		9		9		9		9	
1/4	126,838	1/4	138,921	1/4	150,953	1/4	162,957	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,090	1/2	139,173	1/2	151,203	1/2	163,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,342	3/4	139,425	3/4	151,453	3/4	163,453	3/4		3/4		3/4		3/4		3/4		3/4	
10	127,594	10	139,677	10	151,703	10	163,701	10		10		10		10		10		10	
1/4	127,845	1/4	139,928	1/4	151,954	1/4	163,949	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,097	1/2	140,180	1/2	152,204	1/2	164,197	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	128,349	3/4	140,432	3/4	152,454	3/4	164,445	3/4		3/4		3/4		3/4		3/4		3/4	
11	128,601	11	140,683	11	152,705	11	164,693	11		11		11		11		11		11	
1/4	128,852	1/4	140,935	1/4	152,955	1/4	164,941	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	129,104	1/2	141,187	1/2	153,205	1/2	165,189	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	129,356	3/4	141,439	3/4	153,456	3/4	165,437	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "CBC 1398"

## 3 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	8,061	0	18,808	0	29,541	0	40,277	0	51,024	0	61,772	0	72,520	0	83,267	0	94,013
1/4	58	1/4	8,285	1/4	19,032	1/4	29,764	1/4	40,501	1/4	51,248	1/4	61,996	1/4	72,744	1/4	83,491	1/4	94,237
1/2	77	1/2	8,508	1/2	19,256	1/2	29,987	1/2	40,725	1/2	51,472	1/2	62,220	1/2	72,968	1/2	83,715	1/2	94,461
3/4	95	3/4	8,732	3/4	19,479	3/4	30,210	3/4	40,949	3/4	51,696	3/4	62,444	3/4	73,191	3/4	83,939	3/4	94,685
1	114	1	8,956	1	19,703	1	30,434	1	41,173	1	51,920	1	62,668	1	73,415	1	84,163	1	94,909
1/4	170	1/4	9,180	1/4	19,927	1/4	30,657	1/4	41,396	1/4	52,144	1/4	62,892	1/4	73,639	1/4	84,387	1/4	95,132
1/2	226	1/2	9,404	1/2	20,151	1/2	30,880	1/2	41,620	1/2	52,368	1/2	63,116	1/2	73,863	1/2	84,611	1/2	95,356
3/4	282	3/4	9,628	3/4	20,375	3/4	31,103	3/4	41,844	3/4	52,592	3/4	63,339	3/4	74,087	3/4	84,834	3/4	95,580
2	338	2	9,852	2	20,599	2	31,326	2	42,068	2	52,816	2	63,563	2	74,311	2	85,058	2	95,804
1/4	431	1/4	10,076	1/4	20,823	1/4	31,549	1/4	42,292	1/4	53,040	1/4	63,787	1/4	74,535	1/4	85,282	1/4	96,028
1/2	524	1/2	10,300	1/2	21,047	1/2	31,773	1/2	42,516	1/2	53,264	1/2	64,011	1/2	74,759	1/2	85,506	1/2	96,252
3/4	618	3/4	10,524	3/4	21,271	3/4	31,996	3/4	42,740	3/4	53,487	3/4	64,235	3/4	74,983	3/4	85,730	3/4	96,476
3	711	3	10,747	3	21,495	3	32,219	3	42,964	3	53,711	3	64,459	3	75,207	3	85,954	3	96,700
1/4	842	1/4	10,971	1/4	21,718	1/4	32,442	1/4	43,188	1/4	53,935	1/4	64,683	1/4	75,431	1/4	86,178	1/4	96,923
1/2	972	1/2	11,195	1/2	21,942	1/2	32,665	1/2	43,412	1/2	54,159	1/2	64,907	1/2	75,654	1/2	86,402	1/2	97,147
3/4	1,103	3/4	11,419	3/4	22,166	3/4	32,889	3/4	43,635	3/4	54,383	3/4	65,131	3/4	75,878	3/4	86,625	3/4	97,371
4	1,233	4	11,643	4	22,390	4	33,112	4	43,859	4	54,607	4	65,355	4	76,102	4	86,849	4	97,595
1/4	1,401	1/4	11,867	1/4	22,614	1/4	33,336	1/4	44,083	1/4	54,831	1/4	65,579	1/4	76,326	1/4	87,073	1/4	97,819
1/2	1,569	1/2	12,091	1/2	22,838	1/2	33,560	1/2	44,307	1/2	55,055	1/2	65,802	1/2	76,550	1/2	87,297	1/2	98,043
3/4	1,737	3/4	12,315	3/4	23,062	3/4	33,784	3/4	44,531	3/4	55,279	3/4	66,026	3/4	76,774	3/4	87,521	3/4	98,267
5	1,905	5	12,539	5	23,286	5	34,007	5	44,755	5	55,503	5	66,250	5	76,998	5	87,745	5	98,491
1/4	2,110	1/4	12,762	1/4	23,510	1/4	34,231	1/4	44,979	1/4	55,727	1/4	66,474	1/4	77,222	1/4	87,969	1/4	98,714
1/2	2,314	1/2	12,986	1/2	23,734	1/2	34,455	1/2	45,203	1/2	55,950	1/2	66,698	1/2	77,446	1/2	88,192	1/2	98,938
3/4	2,519	3/4	13,210	3/4	23,957	3/4	34,679	3/4	45,427	3/4	56,174	3/4	66,922	3/4	77,670	3/4	88,416	3/4	99,162
6	2,724	6	13,434	6	24,181	6	34,903	6	45,651	6	56,398	6	67,146	6	77,894	6	88,640	6	99,386
1/4	2,943	1/4	13,658	1/4	24,405	1/4	35,127	1/4	45,875	1/4	56,622	1/4	67,370	1/4	78,117	1/4	88,864	1/4	99,610
1/2	3,163	1/2	13,882	1/2	24,628	1/2	35,351	1/2	46,098	1/2	56,846	1/2	67,594	1/2	78,341	1/2	89,088	1/2	99,834
3/4	3,382	3/4	14,106	3/4	24,852	3/4	35,575	3/4	46,322	3/4	57,070	3/4	67,818	3/4	78,565	3/4	89,312	3/4	100,058
7	3,602	7	14,330	7	25,076	7	35,799	7	46,546	7	57,294	7	68,042	7	78,789	7	89,536	7	100,282
1/4	3,823	1/4	14,554	1/4	25,299	1/4	36,023	1/4	46,770	1/4	57,518	1/4	68,265	1/4	79,013	1/4	89,760	1/4	100,505
1/2	4,044	1/2	14,778	1/2	25,523	1/2	36,247	1/2	46,994	1/2	57,742	1/2	68,489	1/2	79,237	1/2	89,983	1/2	100,729
3/4	4,266	3/4	15,001	3/4	25,746	3/4	36,470	3/4	47,218	3/4	57,966	3/4	68,713	3/4	79,461	3/4	90,207	3/4	100,953
8	4,487	8	15,225	8	25,970	8	36,694	8	47,442	8	58,190	8	68,937	8	79,685	8	90,431	8	101,177
1/4	4,710	1/4	15,449	1/4	26,193	1/4	36,918	1/4	47,666	1/4	58,413	1/4	69,161	1/4	79,909	1/4	90,655	1/4	101,401
1/2	4,932	1/2	15,673	1/2	26,416	1/2	37,142	1/2	47,890	1/2	58,637	1/2	69,385	1/2	80,133	1/2	90,879	1/2	101,625
3/4	5,155	3/4	15,897	3/4	26,639	3/4	37,366	3/4	48,114	3/4	58,861	3/4	69,609	3/4	80,357	3/4	91,103	3/4	101,849
9	5,377	9	16,121	9	26,862	9	37,590	9	48,338	9	59,085	9	69,833	9	80,580	9	91,327	9	102,072
1/4	5,600	1/4	16,345	1/4	27,086	1/4	37,814	1/4	48,561	1/4	59,309	1/4	70,057	1/4	80,804	1/4	91,551	1/4	102,296
1/2	5,824	1/2	16,569	1/2	27,309	1/2	38,038	1/2	48,785	1/2	59,533	1/2	70,281	1/2	81,028	1/2	91,774	1/2	102,520
3/4	6,047	3/4	16,793	3/4	27,532	3/4	38,262	3/4	49,009	3/4	59,757	3/4	70,505	3/4	81,252	3/4	91,998	3/4	102,744
10	6,270	10	17,017	10	27,755	10	38,486	10	49,233	10	59,981	10	70,728	10	81,476	10	92,222	10	102,968
1/4	6,494	1/4	17,240	1/4	27,978	1/4	38,710	1/4	49,457	1/4	60,205	1/4	70,952	1/4	81,700	1/4	92,446	1/4	103,192
1/2	6,718	1/2	17,464	1/2	28,202	1/2	38,933	1/2	49,681	1/2	60,429	1/2	71,176	1/2	81,924	1/2	92,670	1/2	103,416
3/4	6,941	3/4	17,688	3/4	28,425	3/4	39,157	3/4	49,905	3/4	60,653	3/4	71,400	3/4	82,148	3/4	92,894	3/4	103,640
11	7,165	11	17,912	11	28,648	11	39,381	11	50,129	11	60,876	11	71,624	11	82,372	11	93,118	11	103,863
1/4	7,389	1/4	18,136	1/4	28,871	1/4	39,605	1/4	50,353	1/4	61,100	1/4	71,848	1/4	82,596	1/4	93,342	1/4	104,087
1/2	7,613	1/2	18,360	1/2	29,094	1/2	39,829	1/2	50,577	1/2	61,324	1/2	72,072	1/2	82,820	1/2	93,565	1/2	104,311
3/4	7,837	3/4	18,584	3/4	29,318	3/4	40,053	3/4	50,801	3/4	61,548	3/4	72,296	3/4	83,043	3/4	93,789	3/4	104,535

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'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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 Pearland, Texas 77588  
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# BARGE "CBC 1398"

## 3 CENTER INNAGE 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	104,759	0	115,505	0	126,251	0	136,937	0	147,591	0		0		0		0		0	
1/4	104,983	1/4	115,729	1/4	126,473	1/4	137,160	1/4	147,812	1/4		1/4		1/4		1/4		1/4	
1/2	105,207	1/2	115,952	1/2	126,696	1/2	137,383	1/2	148,033	1/2		1/2		1/2		1/2		1/2	
3/4	105,431	3/4	116,176	3/4	126,918	3/4	137,605	3/4	148,253	3/4		3/4		3/4		3/4		3/4	
1	105,654	1	116,400	1	127,141	1	137,828	1	148,474	1		1		1		1		1	
1/4	105,878	1/4	116,624	1/4	127,364	1/4	138,051	1/4	148,694	1/4		1/4		1/4		1/4		1/4	
1/2	106,102	1/2	116,848	1/2	127,586	1/2	138,273	1/2	148,915	1/2		1/2		1/2		1/2		1/2	
3/4	106,326	3/4	117,072	3/4	127,809	3/4	138,496	3/4	149,135	3/4		3/4		3/4		3/4		3/4	
2	106,550	2	117,296	2	128,032	2	138,719	2	149,356	2		2		2		2		2	
1/4	106,774	1/4	117,520	1/4	128,254	1/4	138,941	1/4	149,558	1/4		1/4		1/4		1/4		1/4	
1/2	106,998	1/2	117,743	1/2	128,477	1/2	139,164	1/2	149,760	1/2		1/2		1/2		1/2		1/2	
3/4	107,222	3/4	117,967	3/4	128,700	3/4	139,386	3/4	149,962	3/4		3/4		3/4		3/4		3/4	
3	107,445	3	118,191	3	128,922	3	139,609	3	150,164	3		3		3		3		3	
1/4	107,669	1/4	118,415	1/4	129,145	1/4	139,832	1/4	150,328	1/4		1/4		1/4		1/4		1/4	
1/2	107,893	1/2	118,639	1/2	129,368	1/2	140,054	1/2	150,493	1/2		1/2		1/2		1/2		1/2	
3/4	108,117	3/4	118,863	3/4	129,590	3/4	140,277	3/4	150,658	3/4		3/4		3/4		3/4		3/4	
4	108,341	4	119,087	4	129,813	4	140,500	4	150,822	4		4		4		4		4	
1/4	108,565	1/4	119,311	1/4	130,035	1/4	140,722	1/4	150,949	1/4		1/4		1/4		1/4		1/4	
1/2	108,789	1/2	119,534	1/2	130,258	1/2	140,945	1/2	151,077	1/2		1/2		1/2		1/2		1/2	
3/4	109,012	3/4	119,758	3/4	130,481	3/4	141,168	3/4	151,204	3/4		3/4		3/4		3/4		3/4	
5	109,236	5	119,982	5	130,703	5	141,390	5	151,331	5		5		5		5		5	
1/4	109,460	1/4	120,206	1/4	130,926	1/4	141,613	1/4	151,421	1/4		1/4		1/4		1/4		1/4	
1/2	109,684	1/2	120,430	1/2	131,149	1/2	141,836	1/2	151,511	1/2		1/2		1/2		1/2		1/2	
3/4	109,908	3/4	120,654	3/4	131,371	3/4	142,058	3/4	151,601	3/4		3/4		3/4		3/4		3/4	
6	110,132	6	120,878	6	131,594	6	142,281	6	151,691	6		6		6		6		6	
1/4	110,356	1/4	121,101	1/4	131,817	1/4	142,503	1/4	151,744	1/4		1/4		1/4		1/4		1/4	
1/2	110,580	1/2	121,325	1/2	132,039	1/2	142,726	1/2	151,797	1/2		1/2		1/2		1/2		1/2	
3/4	110,803	3/4	121,549	3/4	132,262	3/4	142,949	3/4	151,849	3/4		3/4		3/4		3/4		3/4	
7	111,027	7	121,773	7	132,485	7	143,171	7	151,902	7		7		7		7		7	
1/4	111,251	1/4	121,997	1/4	132,707	1/4	143,394	1/4	151,917	1/4		1/4		1/4		1/4		1/4	
1/2	111,475	1/2	122,221	1/2	132,930	1/2	143,617	1/2	151,933	1/2		1/2		1/2		1/2		1/2	
3/4	111,699	3/4	122,445	3/4	133,152	3/4	143,839	3/4	151,948	3/4		3/4		3/4		3/4		3/4	
8	111,923	8	122,669	8	133,375	8	144,062	8	151,963	8		8		8		8		8	
1/4	112,147	1/4	122,892	1/4	133,598	1/4	144,283	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	112,371	1/2	123,116	1/2	133,820	1/2	144,503	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	112,594	3/4	123,340	3/4	134,043	3/4	144,724	3/4		3/4		3/4		3/4		3/4		3/4	
9	112,818	9	123,564	9	134,266	9	144,944	9		9		9		9		9		9	
1/4	113,042	1/4	123,788	1/4	134,488	1/4	145,165	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113,266	1/2	124,012	1/2	134,711	1/2	145,385	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	113,490	3/4	124,236	3/4	134,934	3/4	145,606	3/4		3/4		3/4		3/4		3/4		3/4	
10	113,714	10	124,460	10	135,156	10	145,827	10		10		10		10		10		10	
1/4	113,938	1/4	124,683	1/4	135,379	1/4	146,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	114,161	1/2	124,907	1/2	135,602	1/2	146,268	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	114,385	3/4	125,131	3/4	135,824	3/4	146,488	3/4		3/4		3/4		3/4		3/4		3/4	
11	114,609	11	125,355	11	136,047	11	146,709	11		11		11		11		11		11	
1/4	114,833	1/4	125,579	1/4	136,269	1/4	146,930	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	115,057	1/2	125,803	1/2	136,492	1/2	147,150	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	115,281	3/4	126,027	3/4	136,715	3/4	147,371	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "CBC 1398"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 161'-09"

November 22, 2017

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

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# BARGE "CBC 1398"

## 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	140,557	0	131,124	0	121,677	0	112,208	0	101,709	0	90,931	0	80,152	0	79,927
1/4	1/4	1/4	1/4	1/4	140,363	1/4	130,928	1/4	121,479	1/4	112,010	1/4	101,485	1/4	90,706	1/4	80,152	1/4	79,927
1/2	1/2	1/2	1/2	1/2	147,479	1/2	140,168	1/2	130,732	1/2	121,282	1/2	111,813	1/2	101,260	1/2	90,482	1/2	79,703
3/4	3/4	3/4	3/4	3/4	147,463	3/4	139,971	3/4	130,536	3/4	121,085	3/4	111,616	3/4	101,036	3/4	90,257	3/4	79,478
1	1	1	1	1	147,446	1	139,774	1	130,340	1	120,887	1	111,419	1	100,811	1	90,033	1	79,253
1/4	1/4	1/4	1/4	1/4	147,430	1/4	139,577	1/4	130,144	1/4	120,690	1/4	111,222	1/4	100,586	1/4	89,808	1/4	79,029
1/2	1/2	1/2	1/2	1/2	147,414	1/2	139,381	1/2	129,948	1/2	120,493	1/2	111,025	1/2	100,362	1/2	89,583	1/2	78,804
3/4	3/4	3/4	3/4	3/4	147,361	3/4	139,184	3/4	129,751	3/4	120,295	3/4	110,828	3/4	100,137	3/4	89,359	3/4	78,580
2	2	2	2	2	147,307	2	138,987	2	129,555	2	120,098	2	110,631	2	99,913	2	89,134	2	78,355
1/4	1/4	1/4	1/4	1/4	147,253	1/4	138,790	1/4	129,359	1/4	119,901	1/4	110,433	1/4	99,688	1/4	88,910	1/4	78,131
1/2	1/2	1/2	1/2	1/2	147,200	1/2	138,593	1/2	129,163	1/2	119,703	1/2	110,236	1/2	99,464	1/2	88,685	1/2	77,906
3/4	3/4	3/4	3/4	3/4	147,109	3/4	138,397	3/4	128,966	3/4	119,506	3/4	110,012	3/4	99,239	3/4	88,461	3/4	77,681
3	3	3	3	3	147,018	3	138,200	3	128,770	3	119,309	3	109,788	3	99,015	3	88,236	3	77,457
1/4	1/4	1/4	1/4	1/4	146,927	1/4	138,003	1/4	128,573	1/4	119,111	1/4	109,563	1/4	98,790	1/4	88,012	1/4	77,232
1/2	1/2	1/2	1/2	1/2	146,835	1/2	137,806	1/2	128,376	1/2	118,914	1/2	109,339	1/2	98,566	1/2	87,787	1/2	77,008
3/4	3/4	3/4	3/4	3/4	146,707	3/4	137,609	3/4	128,179	3/4	118,717	3/4	109,115	3/4	98,341	3/4	87,562	3/4	76,784
4	4	4	4	4	146,578	4	137,413	4	127,982	4	118,519	4	108,890	4	98,116	4	87,338	4	76,560
1/4	1/4	1/4	1/4	1/4	146,450	1/4	137,216	1/4	127,785	1/4	118,322	1/4	108,666	1/4	97,892	1/4	87,113	1/4	76,336
1/2	1/2	1/2	1/2	1/2	146,321	1/2	137,019	1/2	127,589	1/2	118,125	1/2	108,442	1/2	97,667	1/2	86,889	1/2	76,112
3/4	3/4	3/4	3/4	3/4	146,155	3/4	136,822	3/4	127,392	3/4	117,927	3/4	108,218	3/4	97,443	3/4	86,664	3/4	75,889
5	5	5	5	5	145,989	5	136,625	5	127,195	5	117,730	5	107,993	5	97,218	5	86,440	5	75,666
1/4	1/4	1/4	1/4	1/4	145,822	1/4	136,428	1/4	126,998	1/4	117,533	1/4	107,769	1/4	96,994	1/4	86,215	1/4	75,443
1/2	1/2	1/2	1/2	1/2	145,656	1/2	136,232	1/2	126,801	1/2	117,335	1/2	107,545	1/2	96,769	1/2	85,991	1/2	75,220
3/4	3/4	3/4	3/4	3/4	145,453	3/4	136,035	3/4	126,605	3/4	117,138	3/4	107,320	3/4	96,545	3/4	85,766	3/4	74,997
6	6	6	6	6	145,249	6	135,838	6	126,408	6	116,941	6	107,096	6	96,320	6	85,541	6	74,773
1/4	1/4	1/4	1/4	1/4	145,045	1/4	135,641	1/4	126,211	1/4	116,743	1/4	106,872	1/4	96,095	1/4	85,317	1/4	74,550
1/2	1/2	1/2	1/2	1/2	144,842	1/2	135,444	1/2	126,014	1/2	116,546	1/2	106,647	1/2	95,871	1/2	85,092	1/2	74,327
3/4	3/4	3/4	3/4	3/4	144,647	3/4	135,248	3/4	125,817	3/4	116,349	3/4	106,423	3/4	95,646	3/4	84,868	3/4	74,104
7	7	7	7	7	144,452	7	135,051	7	125,620	7	116,151	7	106,199	7	95,422	7	84,643	7	73,881
1/4	1/4	1/4	1/4	1/4	144,257	1/4	134,854	1/4	125,424	1/4	115,954	1/4	105,975	1/4	95,197	1/4	84,419	1/4	73,658
1/2	1/2	1/2	1/2	1/2	144,063	1/2	134,657	1/2	125,227	1/2	115,757	1/2	105,750	1/2	94,973	1/2	84,194	1/2	73,435
3/4	3/4	3/4	3/4	3/4	143,868	3/4	134,460	3/4	125,030	3/4	115,559	3/4	105,526	3/4	94,748	3/4	83,970	3/4	73,212
8	8	8	8	8	143,673	8	134,263	8	124,833	8	115,362	8	105,302	8	94,524	8	83,745	8	72,988
1/4	1/4	1/4	1/4	1/4	143,479	1/4	134,067	1/4	124,636	1/4	115,165	1/4	105,077	1/4	94,299	1/4	83,521	1/4	72,765
1/2	1/2	1/2	1/2	1/2	143,284	1/2	133,870	1/2	124,440	1/2	114,967	1/2	104,853	1/2	94,074	1/2	83,296	1/2	72,542
3/4	3/4	3/4	3/4	3/4	143,089	3/4	133,674	3/4	124,242	3/4	114,770	3/4	104,628	3/4	93,850	3/4	83,071	3/4	72,319
9	9	9	9	9	142,894	9	133,478	9	124,045	9	114,573	9	104,404	9	93,625	9	82,847	9	72,096
1/4	1/4	1/4	1/4	1/4	142,700	1/4	133,281	1/4	123,848	1/4	114,376	1/4	104,179	1/4	93,401	1/4	82,622	1/4	71,873
1/2	1/2	1/2	1/2	1/2	142,505	1/2	133,085	1/2	123,650	1/2	114,179	1/2	103,955	1/2	93,176	1/2	82,398	1/2	71,650
3/4	3/4	3/4	3/4	3/4	142,310	3/4	132,889	3/4	123,453	3/4	113,982	3/4	103,730	3/4	92,952	3/4	82,173	3/4	71,426
10	10	10	10	10	142,115	10	132,693	10	123,256	10	113,785	10	103,506	10	92,727	10	81,948	10	71,203
1/4	1/4	1/4	1/4	1/4	141,921	1/4	132,497	1/4	123,058	1/4	113,587	1/4	103,281	1/4	92,503	1/4	81,724	1/4	70,980
1/2	1/2	1/2	1/2	1/2	141,726	1/2	132,301	1/2	122,861	1/2	113,390	1/2	103,057	1/2	92,278	1/2	81,499	1/2	70,757
3/4	3/4	3/4	3/4	3/4	141,531	3/4	132,105	3/4	122,664	3/4	113,193	3/4	102,832	3/4	92,054	3/4	81,275	3/4	70,534
11	11	11	11	11	141,336	11	131,909	11	122,466	11	112,996	11	102,607	11	91,829	11	81,050	11	70,311
1/4	1/4	1/4	1/4	1/4	141,142	1/4	131,713	1/4	122,269	1/4	112,799	1/4	102,383	1/4	91,604	1/4	80,826	1/4	70,088
1/2	1/2	1/2	1/2	1/2	140,947	1/2	131,516	1/2	122,072	1/2	112,602	1/2	102,158	1/2	91,380	1/2	80,601	1/2	69,865
3/4	3/4	3/4	3/4	3/4	140,752	3/4	131,320	3/4	121,874	3/4	112,405	3/4	101,934	3/4	91,155	3/4	80,376	3/4	69,641

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'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "CBC 1398"

## 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	69,417	0	58,647	0	47,872	0	37,097	0	26,496	0	15,754	0	4,957	0		0			
1/4	69,193	1/4	58,423	1/4	47,648	1/4	36,873	1/4	26,278	1/4	15,529	1/4	4,734	1/4		0			
1/2	68,969	1/2	58,198	1/2	47,423	1/2	36,648	1/2	26,059	1/2	15,304	1/2	4,510	1/2		0			
3/4	68,745	3/4	57,974	3/4	47,199	3/4	36,424	3/4	25,840	3/4	15,079	3/4	4,287	3/4		0			
1	68,521	1	57,749	1	46,974	1	36,199	1	25,621	1	14,854	1	4,065	1		1			
1/4	68,297	1/4	57,525	1/4	46,750	1/4	35,975	1/4	25,402	1/4	14,629	1/4	3,842	1/4		1			
1/2	68,073	1/2	57,301	1/2	46,525	1/2	35,750	1/2	25,183	1/2	14,404	1/2	3,620	1/2		1			
3/4	67,849	3/4	57,076	3/4	46,301	3/4	35,526	3/4	24,964	3/4	14,179	3/4	3,399	3/4		1			
2	67,626	2	56,852	2	46,076	2	35,301	2	24,745	2	13,954	2	3,179	2		2			
1/4	67,402	1/4	56,627	1/4	45,852	1/4	35,077	1/4	24,526	1/4	13,729	1/4	2,958	1/4		2			
1/2	67,178	1/2	56,403	1/2	45,627	1/2	34,852	1/2	24,307	1/2	13,504	1/2	2,737	1/2		2			
3/4	66,953	3/4	56,178	3/4	45,403	3/4	34,628	3/4	24,082	3/4	13,279	3/4	2,532	3/4		2			
3	66,729	3	55,954	3	45,178	3	34,403	3	23,857	3	13,053	3	2,326	3		3			
1/4	66,504	1/4	55,729	1/4	44,954	1/4	34,179	1/4	23,632	1/4	12,828	1/4	2,120	1/4		3			
1/2	66,280	1/2	55,505	1/2	44,729	1/2	33,954	1/2	23,406	1/2	12,603	1/2	1,915	1/2		3			
3/4	66,055	3/4	55,280	3/4	44,505	3/4	33,730	3/4	23,181	3/4	12,378	3/4	1,746	3/4		3			
4	65,831	4	55,056	4	44,281	4	33,505	4	22,956	4	12,153	4	1,577	4		4			
1/4	65,606	1/4	54,831	1/4	44,056	1/4	33,281	1/4	22,731	1/4	11,928	1/4	1,408	1/4		4			
1/2	65,382	1/2	54,607	1/2	43,832	1/2	33,056	1/2	22,506	1/2	11,703	1/2	1,240	1/2		4			
3/4	65,157	3/4	54,382	3/4	43,607	3/4	32,838	3/4	22,281	3/4	11,478	3/4	1,108	3/4		4			
5	64,933	5	54,158	5	43,383	5	32,619	5	22,056	5	11,253	5	977	5		5			
1/4	64,708	1/4	53,933	1/4	43,158	1/4	32,400	1/4	21,831	1/4	11,028	1/4	846	1/4		5			
1/2	64,484	1/2	53,709	1/2	42,934	1/2	32,182	1/2	21,606	1/2	10,803	1/2	715	1/2		5			
3/4	64,260	3/4	53,484	3/4	42,709	3/4	31,963	3/4	21,381	3/4	10,578	3/4	621	3/4		5			
6	64,035	6	53,260	6	42,485	6	31,744	6	21,156	6	10,353	6	527	6		6			
1/4	63,811	1/4	53,035	1/4	42,260	1/4	31,526	1/4	20,931	1/4	10,128	1/4	433	1/4		6			
1/2	63,586	1/2	52,811	1/2	42,036	1/2	31,307	1/2	20,706	1/2	9,903	1/2	339	1/2		6			
3/4	63,362	3/4	52,586	3/4	41,811	3/4	31,088	3/4	20,481	3/4	9,677	3/4	283	3/4		6			
7	63,137	7	52,362	7	41,587	7	30,870	7	20,256	7	9,452	7	227	7		7			
1/4	62,913	1/4	52,137	1/4	41,362	1/4	30,651	1/4	20,030	1/4	9,227	1/4	171	1/4		7			
1/2	62,688	1/2	51,913	1/2	41,138	1/2	30,432	1/2	19,805	1/2	9,002	1/2	114	1/2		7			
3/4	62,464	3/4	51,688	3/4	40,913	3/4	30,214	3/4	19,580	3/4	8,777	3/4	96	3/4		7			
8	62,239	8	51,464	8	40,689	8	29,995	8	19,355	8	8,552	8	77	8		8			
1/4	62,015	1/4	51,239	1/4	40,464	1/4	29,776	1/4	19,130	1/4	8,327	1/4	58	1/4		8			
1/2	61,790	1/2	51,015	1/2	40,240	1/2	29,558	1/2	18,905	1/2	8,102	1/2	39	1/2		8			
3/4	61,566	3/4	50,791	3/4	40,015	3/4	29,339	3/4	18,680	3/4	7,877	3/4		3/4		8			
9	61,341	9	50,566	9	39,791	9	29,120	9	18,455	9	7,652	9		9		9			
1/4	61,117	1/4	50,342	1/4	39,566	1/4	28,902	1/4	18,230	1/4	7,427	1/4		1/4		9			
1/2	60,892	1/2	50,117	1/2	39,342	1/2	28,683	1/2	18,005	1/2	7,202	1/2		1/2		9			
3/4	60,668	3/4	49,893	3/4	39,117	3/4	28,464	3/4	17,780	3/4	6,977	3/4		3/4		9			
10	60,443	10	49,668	10	38,893	10	28,246	10	17,555	10	6,752	10		10		10			
1/4	60,219	1/4	49,444	1/4	38,668	1/4	28,027	1/4	17,330	1/4	6,527	1/4		1/4		10			
1/2	59,994	1/2	49,219	1/2	38,444	1/2	27,808	1/2	17,105	1/2	6,302	1/2		1/2		10			
3/4	59,770	3/4	48,995	3/4	38,219	3/4	27,590	3/4	16,880	3/4	6,078	3/4		3/4		10			
11	59,545	11	48,770	11	37,995	11	27,371	11	16,655	11	5,854	11		11		11			
1/4	59,321	1/4	48,546	1/4	37,770	1/4	27,152	1/4	16,429	1/4	5,629	1/4		1/4		11			
1/2	59,096	1/2	48,321	1/2	37,546	1/2	26,934	1/2	16,204	1/2	5,405	1/2		1/2		11			
3/4	58,872	3/4	48,097	3/4	37,322	3/4	26,715	3/4	15,979	3/4	5,181	3/4		3/4		11			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "CBC 1398"

## 2 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	0	0	162,213	0	150,202	0	138,166	0	126,083	0	114,000	0	101,918	0	89,834		
1/4		1/4		1/4		1/4	161,965	1/4	149,951	1/4	137,914	1/4	125,832	1/4	113,749	1/4	101,666	1/4	89,582		
1/2		1/2		1/2		1/2	170,600	1/2	161,717	1/2	149,701	1/2	137,663	1/2	125,580	1/2	113,497	1/2	101,414	1/2	89,330
3/4		3/4		3/4		3/4	170,583	3/4	161,466	3/4	149,451	3/4	137,411	3/4	125,328	3/4	113,245	3/4	101,162	3/4	89,079
1	1	1	1	1	1	1	170,566	1	161,216	1	149,200	1	137,159	1	125,076	1	112,994	1	100,911	1	88,827
1/4		1/4		1/4		1/4	170,548	1/4	160,966	1/4	148,950	1/4	136,908	1/4	124,825	1/4	112,742	1/4	100,659	1/4	88,575
1/2		1/2		1/2		1/2	170,531	1/2	160,715	1/2	148,700	1/2	136,656	1/2	124,573	1/2	112,490	1/2	100,407	1/2	88,323
3/4		3/4		3/4		3/4	170,472	3/4	160,465	3/4	148,449	3/4	136,404	3/4	124,321	3/4	112,238	3/4	100,155	3/4	88,072
2	2	2	2	2	2	2	170,413	2	160,215	2	148,199	2	136,152	2	124,069	2	111,987	2	99,904	2	87,820
1/4		1/4		1/4		1/4	170,354	1/4	159,964	1/4	147,949	1/4	135,901	1/4	123,818	1/4	111,735	1/4	99,652	1/4	87,568
1/2		1/2		1/2		1/2	170,294	1/2	159,714	1/2	147,698	1/2	135,649	1/2	123,566	1/2	111,483	1/2	99,400	1/2	87,316
3/4		3/4		3/4		3/4	170,193	3/4	159,464	3/4	147,448	3/4	135,397	3/4	123,314	3/4	111,231	3/4	99,149	3/4	87,065
3	3	3	3	3	3	3	170,092	3	159,213	3	147,198	3	135,145	3	123,063	3	110,980	3	98,877	3	86,813
1/4		1/4		1/4		1/4	169,991	1/4	158,963	1/4	146,947	1/4	134,894	1/4	122,811	1/4	110,728	1/4	98,645	1/4	86,561
1/2		1/2		1/2		1/2	169,890	1/2	158,713	1/2	146,697	1/2	134,642	1/2	122,559	1/2	110,476	1/2	98,393	1/2	86,309
3/4		3/4		3/4		3/4	169,747	3/4	158,462	3/4	146,447	3/4	134,390	3/4	122,307	3/4	110,225	3/4	98,142	3/4	86,057
4	4	4	4	4	4	4	169,604	4	158,212	4	146,196	4	134,139	4	122,056	4	109,973	4	97,890	4	85,806
1/4		1/4		1/4		1/4	169,460	1/4	157,962	1/4	145,946	1/4	133,887	1/4	121,804	1/4	109,721	1/4	97,638	1/4	85,554
1/2		1/2		1/2		1/2	169,317	1/2	157,711	1/2	145,696	1/2	133,635	1/2	121,552	1/2	109,469	1/2	97,386	1/2	85,302
3/4		3/4		3/4		3/4	169,132	3/4	157,461	3/4	145,445	3/4	133,383	3/4	121,300	3/4	109,218	3/4	97,135	3/4	85,050
5	5	5	5	5	5	5	168,947	5	157,211	5	145,195	5	133,132	5	121,049	5	108,966	5	96,883	5	84,799
1/4		1/4		1/4		1/4	168,762	1/4	156,960	1/4	144,945	1/4	132,880	1/4	120,797	1/4	108,714	1/4	96,631	1/4	84,547
1/2		1/2		1/2		1/2	168,577	1/2	156,710	1/2	144,694	1/2	132,628	1/2	120,545	1/2	108,462	1/2	96,380	1/2	84,295
3/4		3/4		3/4		3/4	168,350	3/4	156,460	3/4	144,444	3/4	132,376	3/4	120,294	3/4	108,211	3/4	96,128	3/4	84,043
6	6	6	6	6	6	6	168,123	6	156,209	6	144,194	6	132,125	6	120,042	6	107,959	6	95,876	6	83,792
1/4		1/4		1/4		1/4	167,896	1/4	155,959	1/4	143,943	1/4	131,873	1/4	119,790	1/4	107,707	1/4	95,624	1/4	83,540
1/2		1/2		1/2		1/2	167,669	1/2	155,709	1/2	143,693	1/2	131,621	1/2	119,538	1/2	107,456	1/2	95,373	1/2	83,288
3/4		3/4		3/4		3/4	167,421	3/4	155,458	3/4	143,443	3/4	131,370	3/4	119,287	3/4	107,204	3/4	95,121	3/4	83,036
7	7	7	7	7	7	7	167,173	7	155,208	7	143,192	7	131,118	7	119,035	7	106,952	7	94,869	7	82,784
1/4		1/4		1/4		1/4	166,925	1/4	154,958	1/4	142,942	1/4	130,866	1/4	118,783	1/4	106,700	1/4	94,617	1/4	82,533
1/2		1/2		1/2		1/2	166,677	1/2	154,707	1/2	142,692	1/2	130,614	1/2	118,531	1/2	106,449	1/2	94,366	1/2	82,281
3/4		3/4		3/4		3/4	166,429	3/4	154,457	3/4	142,441	3/4	130,363	3/4	118,280	3/4	106,197	3/4	94,114	3/4	82,029
8	8	8	8	8	8	8	166,181	8	154,207	8	142,191	8	130,111	8	118,028	8	105,945	8	93,862	8	81,777
1/4		1/4		1/4		1/4	165,933	1/4	153,956	1/4	141,941	1/4	129,859	1/4	117,776	1/4	105,693	1/4	93,611	1/4	81,526
1/2		1/2		1/2		1/2	165,685	1/2	153,706	1/2	141,690	1/2	129,607	1/2	117,525	1/2	105,442	1/2	93,359	1/2	81,274
3/4		3/4		3/4		3/4	165,437	3/4	153,456	3/4	141,439	3/4	129,356	3/4	117,273	3/4	105,190	3/4	93,107	3/4	81,022
9	9	9	9	9	9	9	165,189	9	153,205	9	141,187	9	129,104	9	117,021	9	104,938	9	92,855	9	80,770
1/4		1/4		1/4		1/4	164,941	1/4	152,955	1/4	140,935	1/4	128,852	1/4	116,769	1/4	104,687	1/4	92,603	1/4	80,518
1/2		1/2		1/2		1/2	164,693	1/2	152,705	1/2	140,683	1/2	128,601	1/2	116,518	1/2	104,435	1/2	92,352	1/2	80,267
3/4		3/4		3/4		3/4	164,445	3/4	152,454	3/4	140,432	3/4	128,349	3/4	116,266	3/4	104,183	3/4	92,100	3/4	80,015
10	10	10	10	10	10	10	164,197	10	152,204	10	140,180	10	128,097	10	116,014	10	103,931	10	91,848	10	79,763
1/4		1/4		1/4		1/4	163,949	1/4	151,954	1/4	139,928	1/4	127,845	1/4	115,762	1/4	103,680	1/4	91,596	1/4	79,511
1/2		1/2		1/2		1/2	163,701	1/2	151,703	1/2	139,677	1/2	127,594	1/2	115,511	1/2	103,428	1/2	91,345	1/2	79,260
3/4		3/4		3/4		3/4	163,453	3/4	151,453	3/4	139,425	3/4	127,342	3/4	115,259	3/4	103,176	3/4	91,093	3/4	79,008
11	11	11	11	11	11	11	163,205	11	151,203	11	139,173	11	127,090	11	115,007	11	102,924	11	90,841	11	78,756
1/4		1/4		1/4		1/4	162,957	1/4	150,953	1/4	138,921	1/4	126,838	1/4	114,756	1/4	102,673	1/4	90,589	1/4	78,504
1/2		1/2		1/2		1/2	162,709	1/2	150,702	1/2	138,670	1/2	126,587	1/2	114,504	1/2	102,421	1/2	90,338	1/2	78,253
3/4		3/4		3/4		3/4	162,461	3/4	150,452	3/4	138,418	3/4	126,335	3/4	114,252	3/4	102,169	3/4	90,086	3/4	78,001

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 1398"

## 2 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	77,749	0	65,664	0	53,579	0	41,494	0	29,660	0	17,619	0	5,541	0		0		0	
1/4	77,497	1/4	65,412	1/4	53,327	1/4	41,242	1/4	29,416	1/4	17,367	1/4	5,291	1/4		1/4		1/4	
1/2	77,245	1/2	65,161	1/2	53,076	1/2	40,991	1/2	29,171	1/2	17,115	1/2	5,040	1/2		1/2		1/2	
3/4	76,994	3/4	64,909	3/4	52,824	3/4	40,739	3/4	28,927	3/4	16,863	3/4	4,792	3/4		3/4		3/4	
1	76,742	1	64,657	1	52,572	1	40,487	1	28,682	1	16,612	1	4,543	1		1		1	
1/4	76,490	1/4	64,405	1/4	52,320	1/4	40,235	1/4	28,437	1/4	16,360	1/4	4,294	1/4		1/4		1/4	
1/2	76,238	1/2	64,153	1/2	52,068	1/2	39,983	1/2	28,193	1/2	16,108	1/2	4,045	1/2		1/2		1/2	
3/4	75,987	3/4	63,902	3/4	51,817	3/4	39,732	3/4	27,941	3/4	15,856	3/4	3,798	3/4		3/4		3/4	
2	75,735	2	63,650	2	51,565	2	39,480	2	27,689	2	15,604	2	3,551	2		2		2	
1/4	75,483	1/4	63,398	1/4	51,313	1/4	39,228	1/4	27,437	1/4	15,353	1/4	3,304	1/4		1/4		1/4	
1/2	75,231	1/2	63,146	1/2	51,061	1/2	38,976	1/2	27,186	1/2	15,101	1/2	3,058	1/2		1/2		1/2	
3/4	74,980	3/4	62,895	3/4	50,810	3/4	38,725	3/4	26,934	3/4	14,849	3/4	2,828	3/4		3/4		3/4	
3	74,728	3	62,643	3	50,558	3	38,473	3	26,682	3	14,597	3	2,597	3		3		3	
1/4	74,476	1/4	62,391	1/4	50,306	1/4	38,221	1/4	26,430	1/4	14,346	1/4	2,367	1/4		1/4		1/4	
1/2	74,224	1/2	62,139	1/2	50,054	1/2	37,969	1/2	26,178	1/2	14,094	1/2	2,137	1/2		1/2		1/2	
3/4	73,972	3/4	61,887	3/4	49,803	3/4	37,725	3/4	25,927	3/4	13,842	3/4	1,948	3/4		3/4		3/4	
4	73,721	4	61,636	4	49,551	4	37,480	4	25,675	4	13,590	4	1,760	4		4		4	
1/4	73,469	1/4	61,384	1/4	49,299	1/4	37,235	1/4	25,423	1/4	13,339	1/4	1,571	1/4		1/4		1/4	
1/2	73,217	1/2	61,132	1/2	49,047	1/2	36,990	1/2	25,171	1/2	13,087	1/2	1,382	1/2		1/2		1/2	
3/4	72,965	3/4	60,880	3/4	48,795	3/4	36,746	3/4	24,920	3/4	12,835	3/4	1,235	3/4		3/4		3/4	
5	72,714	5	60,629	5	48,544	5	36,502	5	24,668	5	12,583	5	1,088	5		5		5	
1/4	72,462	1/4	60,377	1/4	48,292	1/4	36,257	1/4	24,416	1/4	12,332	1/4	941	1/4		1/4		1/4	
1/2	72,210	1/2	60,125	1/2	48,040	1/2	36,013	1/2	24,164	1/2	12,080	1/2	795	1/2		1/2		1/2	
3/4	71,958	3/4	59,873	3/4	47,788	3/4	35,769	3/4	23,913	3/4	11,828	3/4	690	3/4		3/4		3/4	
6	71,707	6	59,622	6	47,537	6	35,524	6	23,661	6	11,576	6	585	6		6		6	
1/4	71,455	1/4	59,370	1/4	47,285	1/4	35,280	1/4	23,409	1/4	11,325	1/4	480	1/4		1/4		1/4	
1/2	71,203	1/2	59,118	1/2	47,033	1/2	35,036	1/2	23,157	1/2	11,073	1/2	375	1/2		1/2		1/2	
3/4	70,951	3/4	58,866	3/4	46,781	3/4	34,791	3/4	22,906	3/4	10,821	3/4	312	3/4		3/4		3/4	
7	70,699	7	58,614	7	46,529	7	34,547	7	22,654	7	10,569	7	249	7		7		7	
1/4	70,448	1/4	58,363	1/4	46,278	1/4	34,303	1/4	22,402	1/4	10,317	1/4	186	1/4		1/4		1/4	
1/2	70,196	1/2	58,111	1/2	46,026	1/2	34,058	1/2	22,150	1/2	10,066	1/2	123	1/2		1/2		1/2	
3/4	69,944	3/4	57,859	3/4	45,774	3/4	33,814	3/4	21,899	3/4	9,814	3/4	102	3/4		3/4		3/4	
8	69,692	8	57,607	8	45,522	8	33,570	8	21,647	8	9,562	8	81	8		8		8	
1/4	69,441	1/4	57,356	1/4	45,271	1/4	33,325	1/4	21,395	1/4	9,310	1/4	60	1/4		1/4		1/4	
1/2	69,189	1/2	57,104	1/2	45,019	1/2	33,081	1/2	21,143	1/2	9,059	1/2	39	1/2		1/2		1/2	
3/4	68,937	3/4	56,852	3/4	44,767	3/4	32,837	3/4	20,891	3/4	8,807	3/4		3/4		3/4		3/4	
9	68,685	9	56,600	9	44,515	9	32,592	9	20,640	9	8,555	9		9		9		9	
1/4	68,434	1/4	56,349	1/4	44,264	1/4	32,348	1/4	20,388	1/4	8,303	1/4		1/4		1/4		1/4	
1/2	68,182	1/2	56,097	1/2	44,012	1/2	32,104	1/2	20,136	1/2	8,052	1/2		1/2		1/2		1/2	
3/4	67,930	3/4	55,845	3/4	43,760	3/4	31,859	3/4	19,884	3/4	7,800	3/4		3/4		3/4		3/4	
10	67,678	10	55,593	10	43,508	10	31,615	10	19,633	10	7,549	10		10		10		10	
1/4	67,426	1/4	55,341	1/4	43,256	1/4	31,370	1/4	19,381	1/4	7,297	1/4		1/4		1/4		1/4	
1/2	67,175	1/2	55,090	1/2	43,005	1/2	31,126	1/2	19,129	1/2	7,046	1/2		1/2		1/2		1/2	
3/4	66,923	3/4	54,838	3/4	42,753	3/4	30,882	3/4	18,877	3/4	6,795	3/4		3/4		3/4		3/4	
11	66,671	11	54,586	11	42,501	11	30,637	11	18,626	11	6,543	11		11		11		11	
1/4	66,419	1/4	54,334	1/4	42,249	1/4	30,393	1/4	18,374	1/4	6,292	1/4		1/4		1/4		1/4	
1/2	66,168	1/2	54,083	1/2	41,998	1/2	30,149	1/2	18,122	1/2	6,041	1/2		1/2		1/2		1/2	
3/4	65,916	3/4	53,831	3/4	41,746	3/4	29,904	3/4	17,870	3/4	5,791	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

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



# BARGE "CBC 1398"

## 3 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	144,724	0	134,043	0	123,340	0	112,594	0	101,849	0	91,103	0	80,357
1/4		1/4		1/4		1/4	144,503	1/4	133,820	1/4	123,116	1/4	112,371	1/4	101,625	1/4	90,879	1/4	80,133
1/2		1/2		1/2		1/2	144,283	1/2	133,598	1/2	122,892	1/2	112,147	1/2	101,401	1/2	90,655	1/2	79,909
3/4		3/4		3/4		3/4	151,963	3/4	144,062	3/4	133,375	3/4	122,669	3/4	111,923	3/4	101,177	3/4	90,431
1		1		1		1	151,948	1	143,839	1	133,152	1	122,445	1	111,699	1	100,953	1	90,207
1/4		1/4		1/4		1/4	151,933	1/4	143,617	1/4	132,930	1/4	122,221	1/4	111,475	1/4	100,729	1/4	89,983
1/2		1/2		1/2		1/2	151,917	1/2	143,394	1/2	132,707	1/2	121,997	1/2	111,251	1/2	100,505	1/2	89,760
3/4		3/4		3/4		3/4	151,902	3/4	143,171	3/4	132,485	3/4	121,773	3/4	111,027	3/4	100,282	3/4	89,536
2		2		2		2	151,849	2	142,949	2	132,262	2	121,549	2	110,803	2	100,058	2	89,312
1/4		1/4		1/4		1/4	151,797	1/4	142,726	1/4	132,039	1/4	121,325	1/4	110,580	1/4	99,834	1/4	89,088
1/2		1/2		1/2		1/2	151,744	1/2	142,503	1/2	131,817	1/2	121,101	1/2	110,356	1/2	99,610	1/2	88,864
3/4		3/4		3/4		3/4	151,691	3/4	142,281	3/4	131,594	3/4	120,878	3/4	110,132	3/4	99,386	3/4	88,640
3		3		3		3	151,601	3	142,058	3	131,371	3	120,654	3	109,908	3	99,162	3	88,416
1/4		1/4		1/4		1/4	151,511	1/4	141,836	1/4	131,149	1/4	120,430	1/4	109,684	1/4	98,938	1/4	88,192
1/2		1/2		1/2		1/2	151,421	1/2	141,613	1/2	130,926	1/2	120,206	1/2	109,460	1/2	98,714	1/2	87,969
3/4		3/4		3/4		3/4	151,331	3/4	141,390	3/4	130,703	3/4	119,982	3/4	109,236	3/4	98,491	3/4	87,745
4		4		4		4	151,204	4	141,168	4	130,481	4	119,758	4	109,012	4	98,267	4	87,521
1/4		1/4		1/4		1/4	151,077	1/4	140,945	1/4	130,258	1/4	119,534	1/4	108,789	1/4	98,043	1/4	87,297
1/2		1/2		1/2		1/2	150,949	1/2	140,722	1/2	130,035	1/2	119,311	1/2	108,565	1/2	97,819	1/2	87,073
3/4		3/4		3/4		3/4	150,822	3/4	140,500	3/4	129,813	3/4	119,087	3/4	108,341	3/4	97,595	3/4	86,849
5		5		5		5	150,658	5	140,277	5	129,590	5	118,863	5	108,117	5	97,371	5	86,625
1/4		1/4		1/4		1/4	150,493	1/4	140,054	1/4	129,368	1/4	118,639	1/4	107,893	1/4	97,147	1/4	86,402
1/2		1/2		1/2		1/2	150,328	1/2	139,832	1/2	129,145	1/2	118,415	1/2	107,669	1/2	96,923	1/2	86,178
3/4		3/4		3/4		3/4	150,164	3/4	139,609	3/4	128,922	3/4	118,191	3/4	107,445	3/4	96,700	3/4	85,954
6		6		6		6	149,962	6	139,386	6	128,700	6	117,967	6	107,222	6	96,476	6	85,730
1/4		1/4		1/4		1/4	149,760	1/4	139,164	1/4	128,477	1/4	117,743	1/4	106,998	1/4	96,252	1/4	85,506
1/2		1/2		1/2		1/2	149,558	1/2	138,941	1/2	128,254	1/2	117,520	1/2	106,774	1/2	96,028	1/2	85,282
3/4		3/4		3/4		3/4	149,356	3/4	138,719	3/4	128,032	3/4	117,296	3/4	106,550	3/4	95,804	3/4	85,058
7		7		7		7	149,135	7	138,496	7	127,809	7	117,072	7	106,326	7	95,580	7	84,834
1/4		1/4		1/4		1/4	148,915	1/4	138,273	1/4	127,586	1/4	116,848	1/4	106,102	1/4	95,356	1/4	84,611
1/2		1/2		1/2		1/2	148,694	1/2	138,051	1/2	127,364	1/2	116,624	1/2	105,878	1/2	95,132	1/2	84,387
3/4		3/4		3/4		3/4	148,474	3/4	137,828	3/4	127,141	3/4	116,400	3/4	105,654	3/4	94,909	3/4	84,163
8		8		8		8	148,253	8	137,605	8	126,918	8	116,176	8	105,431	8	94,685	8	83,939
1/4		1/4		1/4		1/4	148,033	1/4	137,383	1/4	126,696	1/4	115,952	1/4	105,207	1/4	94,461	1/4	83,715
1/2		1/2		1/2		1/2	147,812	1/2	137,160	1/2	126,473	1/2	115,729	1/2	104,983	1/2	94,237	1/2	83,491
3/4		3/4		3/4		3/4	147,591	3/4	136,937	3/4	126,251	3/4	115,505	3/4	104,759	3/4	94,013	3/4	83,267
9		9		9		9	147,371	9	136,715	9	126,027	9	115,281	9	104,535	9	93,789	9	83,043
1/4		1/4		1/4		1/4	147,150	1/4	136,492	1/4	125,803	1/4	115,057	1/4	104,311	1/4	93,565	1/4	82,820
1/2		1/2		1/2		1/2	146,930	1/2	136,269	1/2	125,579	1/2	114,833	1/2	104,087	1/2	93,342	1/2	82,596
3/4		3/4		3/4		3/4	146,709	3/4	136,047	3/4	125,355	3/4	114,609	3/4	103,863	3/4	93,118	3/4	82,372
10		10		10		10	146,488	10	135,824	10	125,131	10	114,385	10	103,640	10	92,894	10	82,148
1/4		1/4		1/4		1/4	146,268	1/4	135,602	1/4	124,907	1/4	114,161	1/4	103,416	1/4	92,670	1/4	81,924
1/2		1/2		1/2		1/2	146,047	1/2	135,379	1/2	124,683	1/2	113,938	1/2	103,192	1/2	92,446	1/2	81,700
3/4		3/4		3/4		3/4	145,827	3/4	135,156	3/4	124,460	3/4	113,714	3/4	102,968	3/4	92,222	3/4	81,476
11		11		11		11	145,606	11	134,934	11	124,236	11	113,490	11	102,744	11	91,998	11	81,252
1/4		1/4		1/4		1/4	145,385	1/4	134,711	1/4	124,012	1/4	113,266	1/4	102,520	1/4	91,774	1/4	81,028
1/2		1/2		1/2		1/2	145,165	1/2	134,488	1/2	123,788	1/2	113,042	1/2	102,296	1/2	91,551	1/2	80,804
3/4		3/4		3/4		3/4	144,944	3/4	134,266	3/4	123,564	3/4	112,818	3/4	102,072	3/4	91,327	3/4	80,580

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'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CBC 1398"

## 3 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	69,609	0	58,861	0	48,114	0	37,366	0	26,639	0	15,897	0	5,155	0		0			0
1/4	69,385	1/4	58,637	1/4	47,890	1/4	37,142	1/4	26,416	1/4	15,673	1/4	4,932	1/4					1/4
1/2	69,161	1/2	58,413	1/2	47,666	1/2	36,918	1/2	26,193	1/2	15,449	1/2	4,710	1/2					1/2
3/4	68,937	3/4	58,190	3/4	47,442	3/4	36,694	3/4	25,970	3/4	15,225	3/4	4,487	3/4					3/4
1	68,713	1	57,966	1	47,218	1	36,470	1	25,746	1	15,001	1	4,266	1		1			1
1/4	68,489	1/4	57,742	1/4	46,994	1/4	36,247	1/4	25,523	1/4	14,778	1/4	4,044	1/4					1/4
1/2	68,265	1/2	57,518	1/2	46,770	1/2	36,023	1/2	25,299	1/2	14,554	1/2	3,823	1/2					1/2
3/4	68,042	3/4	57,294	3/4	46,546	3/4	35,799	3/4	25,076	3/4	14,330	3/4	3,602	3/4					3/4
2	67,818	2	57,070	2	46,322	2	35,575	2	24,852	2	14,106	2	3,382	2		2			2
1/4	67,594	1/4	56,846	1/4	46,098	1/4	35,351	1/4	24,628	1/4	13,882	1/4	3,163	1/4					1/4
1/2	67,370	1/2	56,622	1/2	45,875	1/2	35,127	1/2	24,405	1/2	13,658	1/2	2,943	1/2					1/2
3/4	67,146	3/4	56,398	3/4	45,651	3/4	34,903	3/4	24,181	3/4	13,434	3/4	2,724	3/4					3/4
3	66,922	3	56,174	3	45,427	3	34,679	3	23,957	3	13,210	3	2,519	3		3			3
1/4	66,698	1/4	55,950	1/4	45,203	1/4	34,455	1/4	23,734	1/4	12,986	1/4	2,314	1/4					1/4
1/2	66,474	1/2	55,727	1/2	44,979	1/2	34,231	1/2	23,510	1/2	12,762	1/2	2,110	1/2					1/2
3/4	66,250	3/4	55,503	3/4	44,755	3/4	34,007	3/4	23,286	3/4	12,539	3/4	1,905	3/4					3/4
4	66,026	4	55,279	4	44,531	4	33,784	4	23,062	4	12,315	4	1,737	4		4			4
1/4	65,802	1/4	55,055	1/4	44,307	1/4	33,560	1/4	22,838	1/4	12,091	1/4	1,569	1/4					1/4
1/2	65,579	1/2	54,831	1/2	44,083	1/2	33,336	1/2	22,614	1/2	11,867	1/2	1,401	1/2					1/2
3/4	65,355	3/4	54,607	3/4	43,859	3/4	33,112	3/4	22,390	3/4	11,643	3/4	1,233	3/4					3/4
5	65,131	5	54,383	5	43,635	5	32,889	5	22,166	5	11,419	5	1,103	5		5			5
1/4	64,907	1/4	54,159	1/4	43,412	1/4	32,665	1/4	21,942	1/4	11,195	1/4	972	1/4					1/4
1/2	64,683	1/2	53,935	1/2	43,188	1/2	32,442	1/2	21,718	1/2	10,971	1/2	842	1/2					1/2
3/4	64,459	3/4	53,711	3/4	42,964	3/4	32,219	3/4	21,495	3/4	10,747	3/4	711	3/4					3/4
6	64,235	6	53,487	6	42,740	6	31,996	6	21,271	6	10,524	6	618	6		6			6
1/4	64,011	1/4	53,264	1/4	42,516	1/4	31,773	1/4	21,047	1/4	10,300	1/4	524	1/4					1/4
1/2	63,787	1/2	53,040	1/2	42,292	1/2	31,549	1/2	20,823	1/2	10,076	1/2	431	1/2					1/2
3/4	63,563	3/4	52,816	3/4	42,068	3/4	31,326	3/4	20,599	3/4	9,852	3/4	338	3/4					3/4
7	63,339	7	52,592	7	41,844	7	31,103	7	20,375	7	9,628	7	282	7		7			7
1/4	63,116	1/4	52,368	1/4	41,620	1/4	30,880	1/4	20,151	1/4	9,404	1/4	226	1/4					1/4
1/2	62,892	1/2	52,144	1/2	41,396	1/2	30,657	1/2	19,927	1/2	9,180	1/2	170	1/2					1/2
3/4	62,668	3/4	51,920	3/4	41,173	3/4	30,434	3/4	19,703	3/4	8,956	3/4	114	3/4					3/4
8	62,444	8	51,696	8	40,949	8	30,210	8	19,479	8	8,732	8	95	8		8			8
1/4	62,220	1/4	51,472	1/4	40,725	1/4	29,987	1/4	19,256	1/4	8,508	1/4	77	1/4					1/4
1/2	61,996	1/2	51,248	1/2	40,501	1/2	29,764	1/2	19,032	1/2	8,285	1/2	58	1/2					1/2
3/4	61,772	3/4	51,024	3/4	40,277	3/4	29,541	3/4	18,808	3/4	8,061	3/4	39	3/4					3/4
9	61,548	9	50,801	9	40,053	9	29,318	9	18,584	9	7,837	9		9		9			9
1/4	61,324	1/4	50,577	1/4	39,829	1/4	29,094	1/4	18,360	1/4	7,613	1/4		1/4					1/4
1/2	61,100	1/2	50,353	1/2	39,605	1/2	28,871	1/2	18,136	1/2	7,389	1/2		1/2					1/2
3/4	60,876	3/4	50,129	3/4	39,381	3/4	28,648	3/4	17,912	3/4	7,165	3/4		3/4					3/4
10	60,653	10	49,905	10	39,157	10	28,425	10	17,688	10	6,941	10		10		10			10
1/4	60,429	1/4	49,681	1/4	38,933	1/4	28,202	1/4	17,464	1/4	6,718	1/4		1/4					1/4
1/2	60,205	1/2	49,457	1/2	38,710	1/2	27,978	1/2	17,240	1/2	6,494	1/2		1/2					1/2
3/4	59,981	3/4	49,233	3/4	38,486	3/4	27,755	3/4	17,017	3/4	6,270	3/4		3/4					3/4
11	59,757	11	49,009	11	38,262	11	27,532	11	16,793	11	6,047	11		11		11			11
1/4	59,533	1/4	48,785	1/4	38,038	1/4	27,309	1/4	16,569	1/4	5,824	1/4		1/4					1/4
1/2	59,309	1/2	48,561	1/2	37,814	1/2	27,086	1/2	16,345	1/2	5,600	1/2		1/2					1/2
3/4	59,085	3/4	48,338	3/4	37,590	3/4	26,862	3/4	16,121	3/4	5,377	3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2017 SW  
CALCULATED: 11/22/2017 CL  
PRINTED: 11/22/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2017

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