



# BARGE "CBC 1412"

## INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 176'-06"

April 11, 2019

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1412"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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	8,728	0	20,371	0	31,829	0	43,328	0	54,942	0	66,557	0	78,148	0	89,740	0	101,359
1/4	60	1/4	8,971	1/4	20,613	1/4	32,064	1/4	43,570	1/4	55,184	1/4	66,799	1/4	78,388	1/4	89,982	1/4	101,601
1/2	80	1/2	9,213	1/2	20,856	1/2	32,299	1/2	43,812	1/2	55,426	1/2	67,041	1/2	78,629	1/2	90,224	1/2	101,843
3/4	100	3/4	9,456	3/4	21,098	3/4	32,534	3/4	44,054	3/4	55,668	3/4	67,283	3/4	78,869	3/4	90,466	3/4	102,085
1	120	1	9,699	1	21,341	1	32,768	1	44,296	1	55,910	1	67,525	1	79,110	1	90,709	1	102,327
1/4	181	1/4	9,941	1/4	21,583	1/4	33,003	1/4	44,538	1/4	56,152	1/4	67,766	1/4	79,351	1/4	90,951	1/4	102,569
1/2	242	1/2	10,184	1/2	21,826	1/2	33,238	1/2	44,780	1/2	56,394	1/2	68,008	1/2	79,591	1/2	91,193	1/2	102,811
3/4	302	3/4	10,426	3/4	22,068	3/4	33,473	3/4	45,022	3/4	56,636	3/4	68,250	3/4	79,832	3/4	91,435	3/4	103,053
2	363	2	10,669	2	22,311	2	33,707	2	45,264	2	56,878	2	68,492	2	80,072	2	91,677	2	103,295
1/4	464	1/4	10,911	1/4	22,553	1/4	33,942	1/4	45,506	1/4	57,120	1/4	68,734	1/4	80,313	1/4	91,919	1/4	103,537
1/2	565	1/2	11,154	1/2	22,796	1/2	34,177	1/2	45,748	1/2	57,362	1/2	68,976	1/2	80,554	1/2	92,161	1/2	103,780
3/4	666	3/4	11,396	3/4	23,039	3/4	34,412	3/4	45,990	3/4	57,604	3/4	69,218	3/4	80,794	3/4	92,403	3/4	104,022
3	767	3	11,639	3	23,281	3	34,646	3	46,232	3	57,846	3	69,460	3	81,035	3	92,645	3	104,264
1/4	909	1/4	11,881	1/4	23,524	1/4	34,881	1/4	46,474	1/4	58,088	1/4	69,702	1/4	81,275	1/4	92,887	1/4	104,506
1/2	1,050	1/2	12,124	1/2	23,766	1/2	35,116	1/2	46,716	1/2	58,330	1/2	69,944	1/2	81,516	1/2	93,129	1/2	104,748
3/4	1,191	3/4	12,367	3/4	24,009	3/4	35,351	3/4	46,958	3/4	58,572	3/4	70,186	3/4	81,757	3/4	93,371	3/4	104,990
4	1,333	4	12,609	4	24,251	4	35,586	4	47,200	4	58,814	4	70,428	4	81,997	4	93,613	4	105,232
1/4	1,515	1/4	12,852	1/4	24,494	1/4	35,827	1/4	47,442	1/4	59,056	1/4	70,670	1/4	82,239	1/4	93,855	1/4	105,474
1/2	1,697	1/2	13,094	1/2	24,736	1/2	36,069	1/2	47,684	1/2	59,298	1/2	70,912	1/2	82,480	1/2	94,097	1/2	105,716
3/4	1,878	3/4	13,337	3/4	24,979	3/4	36,311	3/4	47,926	3/4	59,540	3/4	71,154	3/4	82,721	3/4	94,339	3/4	105,958
5	2,060	5	13,579	5	25,221	5	36,553	5	48,168	5	59,782	5	71,396	5	82,963	5	94,581	5	106,200
1/4	2,282	1/4	13,822	1/4	25,464	1/4	36,795	1/4	48,410	1/4	60,024	1/4	71,638	1/4	83,205	1/4	94,823	1/4	106,442
1/2	2,504	1/2	14,064	1/2	25,707	1/2	37,037	1/2	48,651	1/2	60,266	1/2	71,880	1/2	83,447	1/2	95,066	1/2	106,684
3/4	2,725	3/4	14,307	3/4	25,949	3/4	37,279	3/4	48,893	3/4	60,508	3/4	72,122	3/4	83,689	3/4	95,308	3/4	106,926
6	2,947	6	14,549	6	26,192	6	37,521	6	49,135	6	60,750	6	72,364	6	83,931	6	95,550	6	107,168
1/4	3,185	1/4	14,792	1/4	26,427	1/4	37,763	1/4	49,377	1/4	60,992	1/4	72,605	1/4	84,173	1/4	95,792	1/4	107,410
1/2	3,422	1/2	15,035	1/2	26,662	1/2	38,005	1/2	49,619	1/2	61,233	1/2	72,846	1/2	84,415	1/2	96,034	1/2	107,652
3/4	3,660	3/4	15,277	3/4	26,897	3/4	38,247	3/4	49,861	3/4	61,475	3/4	73,088	3/4	84,657	3/4	96,276	3/4	107,894
7	3,898	7	15,520	7	27,132	7	38,489	7	50,103	7	61,717	7	73,329	7	84,899	7	96,518	7	108,137
1/4	4,138	1/4	15,762	1/4	27,367	1/4	38,731	1/4	50,345	1/4	61,959	1/4	73,571	1/4	85,141	1/4	96,760	1/4	108,379
1/2	4,378	1/2	16,005	1/2	27,603	1/2	38,973	1/2	50,587	1/2	62,201	1/2	73,812	1/2	85,383	1/2	97,002	1/2	108,621
3/4	4,617	3/4	16,247	3/4	27,838	3/4	39,215	3/4	50,829	3/4	62,443	3/4	74,053	3/4	85,625	3/4	97,244	3/4	108,863
8	4,857	8	16,490	8	28,073	8	39,457	8	51,071	8	62,685	8	74,295	8	85,867	8	97,486	8	109,105
1/4	5,098	1/4	16,732	1/4	28,308	1/4	39,699	1/4	51,313	1/4	62,927	1/4	74,536	1/4	86,109	1/4	97,728	1/4	109,347
1/2	5,339	1/2	16,975	1/2	28,542	1/2	39,941	1/2	51,555	1/2	63,169	1/2	74,777	1/2	86,351	1/2	97,970	1/2	109,589
3/4	5,580	3/4	17,217	3/4	28,777	3/4	40,183	3/4	51,797	3/4	63,411	3/4	75,019	3/4	86,593	3/4	98,212	3/4	109,831
9	5,821	9	17,460	9	29,012	9	40,425	9	52,039	9	63,653	9	75,260	9	86,836	9	98,454	9	110,073
1/4	6,063	1/4	17,703	1/4	29,247	1/4	40,667	1/4	52,281	1/4	63,895	1/4	75,501	1/4	87,078	1/4	98,696	1/4	110,315
1/2	6,305	1/2	17,945	1/2	29,481	1/2	40,909	1/2	52,523	1/2	64,137	1/2	75,741	1/2	87,320	1/2	98,938	1/2	110,557
3/4	6,547	3/4	18,188	3/4	29,716	3/4	41,151	3/4	52,765	3/4	64,379	3/4	75,982	3/4	87,562	3/4	99,180	3/4	110,799
10	6,789	10	18,430	10	29,951	10	41,393	10	53,007	10	64,621	10	76,223	10	87,804	10	99,423	10	111,041
1/4	7,031	1/4	18,673	1/4	30,186	1/4	41,635	1/4	53,249	1/4	64,863	1/4	76,463	1/4	88,046	1/4	99,665	1/4	111,283
1/2	7,274	1/2	18,915	1/2	30,421	1/2	41,877	1/2	53,491	1/2	65,105	1/2	76,704	1/2	88,288	1/2	99,907	1/2	111,525
3/4	7,516	3/4	19,158	3/4	30,655	3/4	42,119	3/4	53,733	3/4	65,347	3/4	76,944	3/4	88,530	3/4	100,149	3/4	111,767
11	7,758	11	19,400	11	30,890	11	42,360	11	53,975	11	65,589	11	77,185	11	88,772	11	100,391	11	112,009
1/4	8,001	1/4	19,643	1/4	31,125	1/4	42,602	1/4	54,217	1/4	65,831	1/4	77,426	1/4	89,014	1/4	100,633	1/4	112,251
1/2	8,243	1/2	19,885	1/2	31,360	1/2	42,844	1/2	54,459	1/2	66,073	1/2	77,666	1/2	89,256	1/2	100,875	1/2	112,494
3/4	8,486	3/4	20,128	3/4	31,594	3/4	43,086	3/4	54,701	3/4	66,315	3/4	77,907	3/4	89,498	3/4	101,117	3/4	112,736

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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "CBC 1412"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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	112,978	0	122,540	0	130,683	0	138,825	0	146,968	0		0		0		0		0	
1/4	113,219	1/4	122,709	1/4	130,852	1/4	138,995	1/4	147,138	1/4		1/4		1/4		1/4		1/4	
1/2	113,461	1/2	122,879	1/2	131,022	1/2	139,165	1/2	147,308	1/2		1/2		1/2		1/2		1/2	
3/4	113,702	3/4	123,049	3/4	131,191	3/4	139,334	3/4	147,477	3/4		3/4		3/4		3/4		3/4	
1	113,944	1	123,218	1	131,361	1	139,504	1	147,647	1		1		1		1		1	
1/4	114,185	1/4	123,388	1/4	131,531	1/4	139,674	1/4	147,816	1/4		1/4		1/4		1/4		1/4	
1/2	114,427	1/2	123,558	1/2	131,700	1/2	139,843	1/2	147,986	1/2		1/2		1/2		1/2		1/2	
3/4	114,668	3/4	123,727	3/4	131,870	3/4	140,013	3/4	148,156	3/4		3/4		3/4		3/4		3/4	
2	114,910	2	123,897	2	132,040	2	140,183	2	148,325	2		2		2		2		2	
1/4	115,151	1/4	124,066	1/4	132,209	1/4	140,352	1/4	148,495	1/4		1/4		1/4		1/4		1/4	
1/2	115,393	1/2	124,236	1/2	132,379	1/2	140,522	1/2	148,665	1/2		1/2		1/2		1/2		1/2	
3/4	115,634	3/4	124,406	3/4	132,549	3/4	140,691	3/4	148,834	3/4		3/4		3/4		3/4		3/4	
3	115,876	3	124,575	3	132,718	3	140,861	3	149,004	3		3		3		3		3	
1/4	116,117	1/4	124,745	1/4	132,888	1/4	141,031	1/4	149,226	1/4		1/4		1/4		1/4		1/4	
1/2	116,359	1/2	124,915	1/2	133,058	1/2	141,200	1/2	149,449	1/2		1/2		1/2		1/2		1/2	
3/4	116,600	3/4	125,084	3/4	133,227	3/4	141,370	3/4	149,671	3/4		3/4		3/4		3/4		3/4	
4	116,842	4	125,254	4	133,397	4	141,540	4	149,893	4		4		4		4		4	
1/4	117,083	1/4	125,424	1/4	133,566	1/4	141,709	1/4	150,075	1/4		1/4		1/4		1/4		1/4	
1/2	117,325	1/2	125,593	1/2	133,736	1/2	141,879	1/2	150,257	1/2		1/2		1/2		1/2		1/2	
3/4	117,566	3/4	125,763	3/4	133,906	3/4	142,049	3/4	150,439	3/4		3/4		3/4		3/4		3/4	
5	117,808	5	125,933	5	134,075	5	142,218	5	150,621	5		5		5		5		5	
1/4	117,976	1/4	126,102	1/4	134,245	1/4	142,388	1/4	150,763	1/4		1/4		1/4		1/4		1/4	
1/2	118,145	1/2	126,272	1/2	134,415	1/2	142,558	1/2	150,904	1/2		1/2		1/2		1/2		1/2	
3/4	118,313	3/4	126,441	3/4	134,584	3/4	142,727	3/4	151,045	3/4		3/4		3/4		3/4		3/4	
6	118,482	6	126,611	6	134,754	6	142,897	6	151,187	6		6		6		6		6	
1/4	118,651	1/4	126,781	1/4	134,924	1/4	143,066	1/4	151,288	1/4		1/4		1/4		1/4		1/4	
1/2	118,820	1/2	126,950	1/2	135,093	1/2	143,236	1/2	151,389	1/2		1/2		1/2		1/2		1/2	
3/4	118,989	3/4	127,120	3/4	135,263	3/4	143,406	3/4	151,490	3/4		3/4		3/4		3/4		3/4	
7	119,158	7	127,290	7	135,433	7	143,575	7	151,591	7		7		7		7		7	
1/4	119,327	1/4	127,459	1/4	135,602	1/4	143,745	1/4	151,652	1/4		1/4		1/4		1/4		1/4	
1/2	119,496	1/2	127,629	1/2	135,772	1/2	143,915	1/2	151,712	1/2		1/2		1/2		1/2		1/2	
3/4	119,665	3/4	127,799	3/4	135,941	3/4	144,084	3/4	151,773	3/4		3/4		3/4		3/4		3/4	
8	119,834	8	127,968	8	136,111	8	144,254	8	151,834	8		8		8		8		8	
1/4	120,004	1/4	128,138	1/4	136,281	1/4	144,424	1/4	151,854	1/4		1/4		1/4		1/4		1/4	
1/2	120,173	1/2	128,308	1/2	136,450	1/2	144,593	1/2	151,874	1/2		1/2		1/2		1/2		1/2	
3/4	120,342	3/4	128,477	3/4	136,620	3/4	144,763	3/4		3/4		3/4		3/4		3/4		3/4	
9	120,511	9	128,647	9	136,790	9	144,933	9		9		9		9		9		9	
1/4	120,680	1/4	128,816	1/4	136,959	1/4	145,102	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,849	1/2	128,986	1/2	137,129	1/2	145,272	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,018	3/4	129,156	3/4	137,299	3/4	145,441	3/4		3/4		3/4		3/4		3/4		3/4	
10	121,187	10	129,325	10	137,468	10	145,611	10		10		10		10		10		10	
1/4	121,356	1/4	129,495	1/4	137,638	1/4	145,781	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,525	1/2	129,665	1/2	137,808	1/2	145,950	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,694	3/4	129,834	3/4	137,977	3/4	146,120	3/4		3/4		3/4		3/4		3/4		3/4	
11	121,863	11	130,004	11	138,147	11	146,290	11		11		11		11		11		11	
1/4	122,032	1/4	130,174	1/4	138,316	1/4	146,459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,202	1/2	130,343	1/2	138,486	1/2	146,629	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,371	3/4	130,513	3/4	138,656	3/4	146,799	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2019 SW - JS  
CALCULATED: 04/12/2019 CL  
PRINTED: 04/13/2019 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019



# BARGE "CBC 1412"

## 2 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	10,069	0	23,508	0	36,783	0	50,059	0	63,498	0	76,936	0	90,375	0	103,814	0	117,253
1/4	63	1/4	10,349	1/4	23,787	1/4	37,055	1/4	50,339	1/4	63,778	1/4	77,216	1/4	90,655	1/4	104,094	1/4	117,533
1/2	86	1/2	10,629	1/2	24,067	1/2	37,327	1/2	50,619	1/2	64,058	1/2	77,496	1/2	90,935	1/2	104,374	1/2	117,813
3/4	109	3/4	10,909	3/4	24,347	3/4	37,598	3/4	50,899	3/4	64,338	3/4	77,776	3/4	91,215	3/4	104,654	3/4	118,093
1	133	1	11,189	1	24,627	1	37,870	1	51,179	1	64,618	1	78,056	1	91,495	1	104,934	1	118,373
1/4	203	1/4	11,469	1/4	24,907	1/4	38,142	1/4	51,459	1/4	64,898	1/4	78,336	1/4	91,775	1/4	105,214	1/4	118,653
1/2	273	1/2	11,749	1/2	25,187	1/2	38,414	1/2	51,739	1/2	65,177	1/2	78,616	1/2	92,055	1/2	105,494	1/2	118,933
3/4	343	3/4	12,029	3/4	25,467	3/4	38,685	3/4	52,019	3/4	65,457	3/4	78,896	3/4	92,335	3/4	105,774	3/4	119,213
2	413	2	12,309	2	25,747	2	38,957	2	52,299	2	65,737	2	79,176	2	92,615	2	106,054	2	119,493
1/4	529	1/4	12,589	1/4	26,027	1/4	39,229	1/4	52,579	1/4	66,017	1/4	79,456	1/4	92,895	1/4	106,334	1/4	119,773
1/2	646	1/2	12,869	1/2	26,307	1/2	39,501	1/2	52,859	1/2	66,297	1/2	79,736	1/2	93,175	1/2	106,614	1/2	120,053
3/4	763	3/4	13,149	3/4	26,587	3/4	39,772	3/4	53,139	3/4	66,577	3/4	80,016	3/4	93,455	3/4	106,894	3/4	120,333
3	879	3	13,429	3	26,867	3	40,044	3	53,419	3	66,857	3	80,296	3	93,735	3	107,174	3	120,612
1/4	1,043	1/4	13,709	1/4	27,147	1/4	40,316	1/4	53,699	1/4	67,137	1/4	80,576	1/4	94,015	1/4	107,454	1/4	120,892
1/2	1,206	1/2	13,989	1/2	27,427	1/2	40,588	1/2	53,978	1/2	67,417	1/2	80,856	1/2	94,295	1/2	107,734	1/2	121,172
3/4	1,369	3/4	14,269	3/4	27,707	3/4	40,859	3/4	54,258	3/4	67,697	3/4	81,136	3/4	94,575	3/4	108,014	3/4	121,452
4	1,532	4	14,549	4	27,987	4	41,131	4	54,538	4	67,977	4	81,416	4	94,855	4	108,294	4	121,732
1/4	1,742	1/4	14,829	1/4	28,267	1/4	41,403	1/4	54,818	1/4	68,257	1/4	81,696	1/4	95,135	1/4	108,574	1/4	122,012
1/2	1,952	1/2	15,109	1/2	28,547	1/2	41,675	1/2	55,098	1/2	68,537	1/2	81,976	1/2	95,415	1/2	108,854	1/2	122,292
3/4	2,162	3/4	15,389	3/4	28,827	3/4	41,947	3/4	55,378	3/4	68,817	3/4	82,256	3/4	95,695	3/4	109,134	3/4	122,572
5	2,372	5	15,668	5	29,107	5	42,220	5	55,658	5	69,097	5	82,536	5	95,975	5	109,413	5	122,852
1/4	2,628	1/4	15,948	1/4	29,387	1/4	42,500	1/4	55,938	1/4	69,377	1/4	82,816	1/4	96,255	1/4	109,693	1/4	123,132
1/2	2,884	1/2	16,228	1/2	29,667	1/2	42,779	1/2	56,218	1/2	69,657	1/2	83,096	1/2	96,535	1/2	109,973	1/2	123,412
3/4	3,140	3/4	16,508	3/4	29,947	3/4	43,059	3/4	56,498	3/4	69,937	3/4	83,376	3/4	96,815	3/4	110,253	3/4	123,692
6	3,396	6	16,788	6	30,227	6	43,339	6	56,778	6	70,217	6	83,656	6	97,095	6	110,533	6	123,972
1/4	3,670	1/4	17,068	1/4	30,507	1/4	43,619	1/4	57,058	1/4	70,497	1/4	83,936	1/4	97,375	1/4	110,813	1/4	124,252
1/2	3,945	1/2	17,348	1/2	30,787	1/2	43,899	1/2	57,338	1/2	70,777	1/2	84,216	1/2	97,655	1/2	111,093	1/2	124,532
3/4	4,219	3/4	17,628	3/4	31,067	3/4	44,179	3/4	57,618	3/4	71,057	3/4	84,496	3/4	97,935	3/4	111,373	3/4	124,812
7	4,493	7	17,908	7	31,347	7	44,459	7	57,898	7	71,337	7	84,776	7	98,215	7	111,653	7	125,092
1/4	4,770	1/4	18,188	1/4	31,619	1/4	44,739	1/4	58,178	1/4	71,617	1/4	85,056	1/4	98,494	1/4	111,933	1/4	125,372
1/2	5,047	1/2	18,468	1/2	31,891	1/2	45,019	1/2	58,458	1/2	71,897	1/2	85,336	1/2	98,774	1/2	112,213	1/2	125,652
3/4	5,324	3/4	18,748	3/4	32,163	3/4	45,299	3/4	58,738	3/4	72,177	3/4	85,616	3/4	99,054	3/4	112,493	3/4	125,932
8	5,601	8	19,028	8	32,435	8	45,579	8	59,018	8	72,457	8	85,896	8	99,334	8	112,773	8	126,212
1/4	5,879	1/4	19,308	1/4	32,707	1/4	45,859	1/4	59,298	1/4	72,737	1/4	86,176	1/4	99,614	1/4	113,053	1/4	126,492
1/2	6,157	1/2	19,588	1/2	32,978	1/2	46,139	1/2	59,578	1/2	73,017	1/2	86,456	1/2	99,894	1/2	113,333	1/2	126,772
3/4	6,436	3/4	19,868	3/4	33,250	3/4	46,419	3/4	59,858	3/4	73,297	3/4	86,736	3/4	100,174	3/4	113,613	3/4	127,052
9	6,714	9	20,148	9	33,522	9	46,699	9	60,138	9	73,577	9	87,016	9	100,454	9	113,893	9	127,332
1/4	6,993	1/4	20,428	1/4	33,794	1/4	46,979	1/4	60,418	1/4	73,857	1/4	87,296	1/4	100,734	1/4	114,173	1/4	127,612
1/2	7,272	1/2	20,708	1/2	34,066	1/2	47,259	1/2	60,698	1/2	74,137	1/2	87,575	1/2	101,014	1/2	114,453	1/2	127,892
3/4	7,551	3/4	20,988	3/4	34,337	3/4	47,539	3/4	60,978	3/4	74,417	3/4	87,855	3/4	101,294	3/4	114,733	3/4	128,172
10	7,831	10	21,268	10	34,609	10	47,819	10	61,258	10	74,697	10	88,135	10	101,574	10	115,013	10	128,452
1/4	8,110	1/4	21,548	1/4	34,881	1/4	48,099	1/4	61,538	1/4	74,977	1/4	88,415	1/4	101,854	1/4	115,293	1/4	128,732
1/2	8,390	1/2	21,828	1/2	35,153	1/2	48,379	1/2	61,818	1/2	75,257	1/2	88,695	1/2	102,134	1/2	115,573	1/2	129,012
3/4	8,670	3/4	22,108	3/4	35,424	3/4	48,659	3/4	62,098	3/4	75,537	3/4	88,975	3/4	102,414	3/4	115,853	3/4	129,292
11	8,949	11	22,388	11	35,696	11	48,939	11	62,378	11	75,817	11	89,255	11	102,694	11	116,133	11	129,572
1/4	9,229	1/4	22,668	1/4	35,968	1/4	49,219	1/4	62,658	1/4	76,096	1/4	89,535	1/4	102,974	1/4	116,413	1/4	129,852
1/2	9,509	1/2	22,948	1/2	36,240	1/2	49,499	1/2	62,938	1/2	76,376	1/2	89,815	1/2	103,254	1/2	116,693	1/2	130,132
3/4	9,789	3/4	23,228	3/4	36,511	3/4	49,779	3/4	63,218	3/4	76,656	3/4	90,095	3/4	103,534	3/4	116,973	3/4	130,412

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 1412"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	130,692	0	144,130	0	157,569	0	171,008	0	184,447	0		0		0		0		0	
1/4	130,972	1/4	144,410	1/4	157,849	1/4	171,288	1/4	184,727	1/4		1/4		1/4		1/4		1/4	
1/2	131,252	1/2	144,690	1/2	158,129	1/2	171,568	1/2	185,007	1/2		1/2		1/2		1/2		1/2	
3/4	131,532	3/4	144,970	3/4	158,409	3/4	171,848	3/4	185,287	3/4		3/4		3/4		3/4		3/4	
1	131,811	1	145,250	1	158,689	1	172,128	1	185,567	1		1		1		1		1	
1/4	132,091	1/4	145,530	1/4	158,969	1/4	172,408	1/4	185,847	1/4		1/4		1/4		1/4		1/4	
1/2	132,371	1/2	145,810	1/2	159,249	1/2	172,688	1/2	186,127	1/2		1/2		1/2		1/2		1/2	
3/4	132,651	3/4	146,090	3/4	159,529	3/4	172,968	3/4	186,407	3/4		3/4		3/4		3/4		3/4	
2	132,931	2	146,370	2	159,809	2	173,248	2	186,687	2		2		2		2		2	
1/4	133,211	1/4	146,650	1/4	160,089	1/4	173,528	1/4	186,967	1/4		1/4		1/4		1/4		1/4	
1/2	133,491	1/2	146,930	1/2	160,369	1/2	173,808	1/2	187,246	1/2		1/2		1/2		1/2		1/2	
3/4	133,771	3/4	147,210	3/4	160,649	3/4	174,088	3/4	187,526	3/4		3/4		3/4		3/4		3/4	
3	134,051	3	147,490	3	160,929	3	174,368	3	187,806	3		3		3		3		3	
1/4	134,331	1/4	147,770	1/4	161,209	1/4	174,648	1/4	188,063	1/4		1/4		1/4		1/4		1/4	
1/2	134,611	1/2	148,050	1/2	161,489	1/2	174,928	1/2	188,320	1/2		1/2		1/2		1/2		1/2	
3/4	134,891	3/4	148,330	3/4	161,769	3/4	175,208	3/4	188,576	3/4		3/4		3/4		3/4		3/4	
4	135,171	4	148,610	4	162,049	4	175,488	4	188,833	4		4		4		4		4	
1/4	135,451	1/4	148,890	1/4	162,329	1/4	175,768	1/4	189,043	1/4		1/4		1/4		1/4		1/4	
1/2	135,731	1/2	149,170	1/2	162,609	1/2	176,047	1/2	189,253	1/2		1/2		1/2		1/2		1/2	
3/4	136,011	3/4	149,450	3/4	162,889	3/4	176,327	3/4	189,463	3/4		3/4		3/4		3/4		3/4	
5	136,291	5	149,730	5	163,169	5	176,607	5	189,673	5		5		5		5		5	
1/4	136,571	1/4	150,010	1/4	163,449	1/4	176,887	1/4	189,836	1/4		1/4		1/4		1/4		1/4	
1/2	136,851	1/2	150,290	1/2	163,729	1/2	177,167	1/2	190,000	1/2		1/2		1/2		1/2		1/2	
3/4	137,131	3/4	150,570	3/4	164,009	3/4	177,447	3/4	190,163	3/4		3/4		3/4		3/4		3/4	
6	137,411	6	150,850	6	164,289	6	177,727	6	190,326	6		6		6		6		6	
1/4	137,691	1/4	151,130	1/4	164,569	1/4	178,007	1/4	190,443	1/4		1/4		1/4		1/4		1/4	
1/2	137,971	1/2	151,410	1/2	164,849	1/2	178,287	1/2	190,559	1/2		1/2		1/2		1/2		1/2	
3/4	138,251	3/4	151,690	3/4	165,128	3/4	178,567	3/4	190,676	3/4		3/4		3/4		3/4		3/4	
7	138,531	7	151,970	7	165,408	7	178,847	7	190,793	7		7		7		7		7	
1/4	138,811	1/4	152,250	1/4	165,688	1/4	179,127	1/4	190,863	1/4		1/4		1/4		1/4		1/4	
1/2	139,091	1/2	152,530	1/2	165,968	1/2	179,407	1/2	190,933	1/2		1/2		1/2		1/2		1/2	
3/4	139,371	3/4	152,810	3/4	166,248	3/4	179,687	3/4	191,003	3/4		3/4		3/4		3/4		3/4	
8	139,651	8	153,090	8	166,528	8	179,967	8	191,073	8		8		8		8		8	
1/4	139,931	1/4	153,370	1/4	166,808	1/4	180,247	1/4	191,096	1/4		1/4		1/4		1/4		1/4	
1/2	140,211	1/2	153,650	1/2	167,088	1/2	180,527	1/2	191,119	1/2		1/2		1/2		1/2		1/2	
3/4	140,491	3/4	153,929	3/4	167,368	3/4	180,807	3/4		3/4		3/4		3/4		3/4		3/4	
9	140,771	9	154,209	9	167,648	9	181,087	9		9		9		9		9		9	
1/4	141,051	1/4	154,489	1/4	167,928	1/4	181,367	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	141,331	1/2	154,769	1/2	168,208	1/2	181,647	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	141,611	3/4	155,049	3/4	168,488	3/4	181,927	3/4		3/4		3/4		3/4		3/4		3/4	
10	141,891	10	155,329	10	168,768	10	182,207	10		10		10		10		10		10	
1/4	142,171	1/4	155,609	1/4	169,048	1/4	182,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	142,451	1/2	155,889	1/2	169,328	1/2	182,767	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	142,730	3/4	156,169	3/4	169,608	3/4	183,047	3/4		3/4		3/4		3/4		3/4		3/4	
11	143,010	11	156,449	11	169,888	11	183,327	11		11		11		11		11		11	
1/4	143,290	1/4	156,729	1/4	170,168	1/4	183,607	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	143,570	1/2	157,009	1/2	170,448	1/2	183,887	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	143,850	3/4	157,289	3/4	170,728	3/4	184,167	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2019 SW - JS  
CALCULATED: 04/12/2019 CL  
PRINTED: 04/13/2019 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019



# BARGE "CBC 1412"

## 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	8,991	0	20,986	0	32,966	0	44,949	0	56,943	0	68,938	0	80,933	0	92,927	0	104,922
1/4	60	1/4	9,241	1/4	21,235	1/4	33,215	1/4	45,199	1/4	57,193	1/4	69,188	1/4	81,183	1/4	93,177	1/4	105,172
1/2	81	1/2	9,491	1/2	21,485	1/2	33,464	1/2	45,448	1/2	57,443	1/2	69,438	1/2	81,432	1/2	93,427	1/2	105,422
3/4	102	3/4	9,741	3/4	21,735	3/4	33,713	3/4	45,698	3/4	57,693	3/4	69,688	3/4	81,682	3/4	93,677	3/4	105,672
1	123	1	9,991	1	21,985	1	33,962	1	45,948	1	57,943	1	69,938	1	81,932	1	93,927	1	105,922
1/4	185	1/4	10,241	1/4	22,235	1/4	34,211	1/4	46,198	1/4	58,193	1/4	70,187	1/4	82,182	1/4	94,177	1/4	106,171
1/2	248	1/2	10,491	1/2	22,485	1/2	34,461	1/2	46,448	1/2	58,443	1/2	70,437	1/2	82,432	1/2	94,427	1/2	106,421
3/4	310	3/4	10,741	3/4	22,735	3/4	34,710	3/4	46,698	3/4	58,693	3/4	70,687	3/4	82,682	3/4	94,677	3/4	106,671
2	373	2	10,990	2	22,985	2	34,959	2	46,948	2	58,942	2	70,937	2	82,932	2	94,926	2	106,921
1/4	477	1/4	11,240	1/4	23,235	1/4	35,208	1/4	47,198	1/4	59,192	1/4	71,187	1/4	83,182	1/4	95,176	1/4	107,171
1/2	581	1/2	11,490	1/2	23,484	1/2	35,457	1/2	47,448	1/2	59,442	1/2	71,437	1/2	83,432	1/2	95,426	1/2	107,421
3/4	685	3/4	11,740	3/4	23,734	3/4	35,706	3/4	47,697	3/4	59,692	3/4	71,687	3/4	83,681	3/4	95,676	3/4	107,671
3	789	3	11,990	3	23,984	3	35,956	3	47,947	3	59,942	3	71,937	3	83,931	3	95,926	3	107,921
1/4	935	1/4	12,240	1/4	24,234	1/4	36,205	1/4	48,197	1/4	60,192	1/4	72,187	1/4	84,181	1/4	96,176	1/4	108,171
1/2	1,081	1/2	12,490	1/2	24,484	1/2	36,454	1/2	48,447	1/2	60,442	1/2	72,436	1/2	84,431	1/2	96,426	1/2	108,420
3/4	1,226	3/4	12,740	3/4	24,734	3/4	36,703	3/4	48,697	3/4	60,692	3/4	72,686	3/4	84,681	3/4	96,676	3/4	108,670
4	1,372	4	12,989	4	24,984	4	36,952	4	48,947	4	60,942	4	72,936	4	84,931	4	96,926	4	108,920
1/4	1,559	1/4	13,239	1/4	25,234	1/4	37,202	1/4	49,197	1/4	61,191	1/4	73,186	1/4	85,181	1/4	97,175	1/4	109,170
1/2	1,747	1/2	13,489	1/2	25,483	1/2	37,452	1/2	49,447	1/2	61,441	1/2	73,436	1/2	85,431	1/2	97,425	1/2	109,420
3/4	1,934	3/4	13,739	3/4	25,733	3/4	37,702	3/4	49,697	3/4	61,691	3/4	73,686	3/4	85,681	3/4	97,675	3/4	109,670
5	2,122	5	13,989	5	25,983	5	37,952	5	49,946	5	61,941	5	73,936	5	85,930	5	97,925	5	109,920
1/4	2,350	1/4	14,239	1/4	26,233	1/4	38,202	1/4	50,196	1/4	62,191	1/4	74,186	1/4	86,180	1/4	98,175	1/4	110,170
1/2	2,578	1/2	14,489	1/2	26,483	1/2	38,452	1/2	50,446	1/2	62,441	1/2	74,436	1/2	86,430	1/2	98,425	1/2	110,420
3/4	2,807	3/4	14,739	3/4	26,733	3/4	38,702	3/4	50,696	3/4	62,691	3/4	74,685	3/4	86,680	3/4	98,675	3/4	110,669
6	3,035	6	14,989	6	26,983	6	38,951	6	50,946	6	62,941	6	74,935	6	86,930	6	98,925	6	110,919
1/4	3,280	1/4	15,238	1/4	27,232	1/4	39,201	1/4	51,196	1/4	63,191	1/4	75,185	1/4	87,180	1/4	99,175	1/4	111,169
1/2	3,525	1/2	15,488	1/2	27,482	1/2	39,451	1/2	51,446	1/2	63,440	1/2	75,435	1/2	87,430	1/2	99,424	1/2	111,419
3/4	3,770	3/4	15,738	3/4	27,731	3/4	39,701	3/4	51,696	3/4	63,690	3/4	75,685	3/4	87,680	3/4	99,674	3/4	111,669
7	4,015	7	15,988	7	27,981	7	39,951	7	51,946	7	63,940	7	75,935	7	87,930	7	99,924	7	111,919
1/4	4,262	1/4	16,238	1/4	28,230	1/4	40,201	1/4	52,195	1/4	64,190	1/4	76,185	1/4	88,179	1/4	100,174	1/4	112,169
1/2	4,509	1/2	16,488	1/2	28,480	1/2	40,451	1/2	52,445	1/2	64,440	1/2	76,435	1/2	88,429	1/2	100,424	1/2	112,419
3/4	4,756	3/4	16,738	3/4	28,729	3/4	40,701	3/4	52,695	3/4	64,690	3/4	76,685	3/4	88,679	3/4	100,674	3/4	112,669
8	5,003	8	16,988	8	28,979	8	40,951	8	52,945	8	64,940	8	76,934	8	88,929	8	100,924	8	112,918
1/4	5,252	1/4	17,237	1/4	29,228	1/4	41,200	1/4	53,195	1/4	65,190	1/4	77,184	1/4	89,179	1/4	101,174	1/4	113,168
1/2	5,500	1/2	17,487	1/2	29,477	1/2	41,450	1/2	53,445	1/2	65,440	1/2	77,434	1/2	89,429	1/2	101,424	1/2	113,418
3/4	5,748	3/4	17,737	3/4	29,726	3/4	41,700	3/4	53,695	3/4	65,689	3/4	77,684	3/4	89,679	3/4	101,673	3/4	113,668
9	5,997	9	17,987	9	29,976	9	41,950	9	53,945	9	65,939	9	77,934	9	89,929	9	101,923	9	113,918
1/4	6,246	1/4	18,237	1/4	30,225	1/4	42,200	1/4	54,195	1/4	66,189	1/4	78,184	1/4	90,179	1/4	102,173	1/4	114,168
1/2	6,495	1/2	18,487	1/2	30,474	1/2	42,450	1/2	54,444	1/2	66,439	1/2	78,434	1/2	90,428	1/2	102,423	1/2	114,418
3/4	6,744	3/4	18,737	3/4	30,723	3/4	42,700	3/4	54,694	3/4	66,689	3/4	78,684	3/4	90,678	3/4	102,673	3/4	114,668
10	6,993	10	18,987	10	30,972	10	42,950	10	54,944	10	66,939	10	78,934	10	90,928	10	102,923	10	114,918
1/4	7,243	1/4	19,236	1/4	31,221	1/4	43,200	1/4	55,194	1/4	67,189	1/4	79,183	1/4	91,178	1/4	103,173	1/4	115,167
1/2	7,493	1/2	19,486	1/2	31,471	1/2	43,449	1/2	55,444	1/2	67,439	1/2	79,433	1/2	91,428	1/2	103,423	1/2	115,417
3/4	7,742	3/4	19,736	3/4	31,720	3/4	43,699	3/4	55,694	3/4	67,689	3/4	79,683	3/4	91,678	3/4	103,673	3/4	115,667
11	7,992	11	19,986	11	31,969	11	43,949	11	55,944	11	67,938	11	79,933	11	91,928	11	103,922	11	115,917
1/4	8,242	1/4	20,236	1/4	32,218	1/4	44,199	1/4	56,194	1/4	68,188	1/4	80,183	1/4	92,178	1/4	104,172	1/4	116,167
1/2	8,492	1/2	20,486	1/2	32,467	1/2	44,449	1/2	56,444	1/2	68,438	1/2	80,433	1/2	92,428	1/2	104,422	1/2	116,417
3/4	8,742	3/4	20,736	3/4	32,716	3/4	44,699	3/4	56,693	3/4	68,688	3/4	80,683	3/4	92,677	3/4	104,672	3/4	116,667

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

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

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CBC 1412"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	116,917	0	128,911	0	140,906	0	152,901	0	164,895	0		0		0		0		0	
1/4	117,167	1/4	129,161	1/4	141,156	1/4	153,150	1/4	165,145	1/4		1/4		1/4		1/4		1/4	
1/2	117,416	1/2	129,411	1/2	141,406	1/2	153,400	1/2	165,395	1/2		1/2		1/2		1/2		1/2	
3/4	117,666	3/4	129,661	3/4	141,656	3/4	153,650	3/4	165,645	3/4		3/4		3/4		3/4		3/4	
1	117,916	1	129,911	1	141,905	1	153,900	1	165,895	1		1		1		1		1	
1/4	118,166	1/4	130,161	1/4	142,155	1/4	154,150	1/4	166,145	1/4		1/4		1/4		1/4		1/4	
1/2	118,416	1/2	130,411	1/2	142,405	1/2	154,400	1/2	166,395	1/2		1/2		1/2		1/2		1/2	
3/4	118,666	3/4	130,661	3/4	142,655	3/4	154,650	3/4	166,644	3/4		3/4		3/4		3/4		3/4	
2	118,916	2	130,910	2	142,905	2	154,900	2	166,894	2		2		2		2		2	
1/4	119,166	1/4	131,160	1/4	143,155	1/4	155,150	1/4	167,144	1/4		1/4		1/4		1/4		1/4	
1/2	119,416	1/2	131,410	1/2	143,405	1/2	155,399	1/2	167,394	1/2		1/2		1/2		1/2		1/2	
3/4	119,665	3/4	131,660	3/4	143,655	3/4	155,649	3/4	167,644	3/4		3/4		3/4		3/4		3/4	
3	119,915	3	131,910	3	143,905	3	155,899	3	167,894	3		3		3		3		3	
1/4	120,165	1/4	132,160	1/4	144,154	1/4	156,149	1/4	168,123	1/4		1/4		1/4		1/4		1/4	
1/2	120,415	1/2	132,410	1/2	144,404	1/2	156,399	1/2	168,352	1/2		1/2		1/2		1/2		1/2	
3/4	120,665	3/4	132,660	3/4	144,654	3/4	156,649	3/4	168,581	3/4		3/4		3/4		3/4		3/4	
4	120,915	4	132,910	4	144,904	4	156,899	4	168,810	4		4		4		4		4	
1/4	121,165	1/4	133,159	1/4	145,154	1/4	157,149	1/4	168,998	1/4		1/4		1/4		1/4		1/4	
1/2	121,415	1/2	133,409	1/2	145,404	1/2	157,399	1/2	169,185	1/2		1/2		1/2		1/2		1/2	
3/4	121,665	3/4	133,659	3/4	145,654	3/4	157,648	3/4	169,372	3/4		3/4		3/4		3/4		3/4	
5	121,914	5	133,909	5	145,904	5	157,898	5	169,560	5		5		5		5		5	
1/4	122,164	1/4	134,159	1/4	146,154	1/4	158,148	1/4	169,706	1/4		1/4		1/4		1/4		1/4	
1/2	122,414	1/2	134,409	1/2	146,403	1/2	158,398	1/2	169,851	1/2		1/2		1/2		1/2		1/2	
3/4	122,664	3/4	134,659	3/4	146,653	3/4	158,648	3/4	169,997	3/4		3/4		3/4		3/4		3/4	
6	122,914	6	134,909	6	146,903	6	158,898	6	170,143	6		6		6		6		6	
1/4	123,164	1/4	135,159	1/4	147,153	1/4	159,148	1/4	170,247	1/4		1/4		1/4		1/4		1/4	
1/2	123,414	1/2	135,408	1/2	147,403	1/2	159,398	1/2	170,351	1/2		1/2		1/2		1/2		1/2	
3/4	123,664	3/4	135,658	3/4	147,653	3/4	159,648	3/4	170,455	3/4		3/4		3/4		3/4		3/4	
7	123,914	7	135,908	7	147,903	7	159,897	7	170,559	7		7		7		7		7	
1/4	124,163	1/4	136,158	1/4	148,153	1/4	160,147	1/4	170,622	1/4		1/4		1/4		1/4		1/4	
1/2	124,413	1/2	136,408	1/2	148,403	1/2	160,397	1/2	170,684	1/2		1/2		1/2		1/2		1/2	
3/4	124,663	3/4	136,658	3/4	148,652	3/4	160,647	3/4	170,747	3/4		3/4		3/4		3/4		3/4	
8	124,913	8	136,908	8	148,902	8	160,897	8	170,809	8		8		8		8		8	
1/4	125,163	1/4	137,158	1/4	149,152	1/4	161,147	1/4	170,830	1/4		1/4		1/4		1/4		1/4	
1/2	125,413	1/2	137,408	1/2	149,402	1/2	161,397	1/2	170,851	1/2		1/2		1/2		1/2		1/2	
3/4	125,663	3/4	137,657	3/4	149,652	3/4	161,647	3/4		3/4		3/4		3/4		3/4		3/4	
9	125,913	9	137,907	9	149,902	9	161,897	9		9		9		9		9		9	
1/4	126,163	1/4	138,157	1/4	150,152	1/4	162,146	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,412	1/2	138,407	1/2	150,402	1/2	162,396	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,662	3/4	138,657	3/4	150,652	3/4	162,646	3/4		3/4		3/4		3/4		3/4		3/4	
10	126,912	10	138,907	10	150,901	10	162,896	10		10		10		10		10		10	
1/4	127,162	1/4	139,157	1/4	151,151	1/4	163,146	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,412	1/2	139,407	1/2	151,401	1/2	163,396	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,662	3/4	139,657	3/4	151,651	3/4	163,646	3/4		3/4		3/4		3/4		3/4		3/4	
11	127,912	11	139,906	11	151,901	11	163,896	11		11		11		11		11		11	
1/4	128,162	1/4	140,156	1/4	152,151	1/4	164,146	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,412	1/2	140,406	1/2	152,401	1/2	164,395	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	128,661	3/4	140,656	3/4	152,651	3/4	164,645	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/11/2019 SW - JS  
CALCULATED: 04/12/2019 CL  
PRINTED: 04/13/2019 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019



# BARGE "CBC 1412"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 176'-06"

April 11, 2019

PRECISION MEASUREMENT  
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 Pearland, Texas 77588

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# BARGE "CBC 1412"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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	151,773	0	144,084	0	135,941	0	127,798	0	119,665	0	108,863	0	97,244	0	85,625
1/4		1/4		1/4	151,712	1/4	143,914	1/4	135,772	1/4	127,629	1/4	119,496	1/4	108,620	1/4	97,002	1/4	85,383
1/2		1/2		1/2	151,652	1/2	143,745	1/2	135,602	1/2	127,459	1/2	119,327	1/2	108,378	1/2	96,760	1/2	85,141
3/4		3/4		3/4	151,591	3/4	143,575	3/4	135,432	3/4	127,289	3/4	119,158	3/4	108,136	3/4	96,518	3/4	84,899
1		1		1	151,490	1	143,406	1	135,263	1	127,120	1	118,989	1	107,894	1	96,276	1	84,657
1/4		1/4		1/4	151,389	1/4	143,236	1/4	135,093	1/4	126,950	1/4	118,820	1/4	107,652	1/4	96,034	1/4	84,415
1/2		1/2		1/2	151,288	1/2	143,066	1/2	134,923	1/2	126,781	1/2	118,651	1/2	107,410	1/2	95,791	1/2	84,173
3/4		3/4		3/4	151,187	3/4	142,897	3/4	134,754	3/4	126,611	3/4	118,482	3/4	107,168	3/4	95,549	3/4	83,931
2		2		2	151,045	2	142,727	2	134,584	2	126,441	2	118,313	2	106,926	2	95,307	2	83,689
1/4		1/4		1/4	150,904	1/4	142,557	1/4	134,414	1/4	126,272	1/4	118,145	1/4	106,684	1/4	95,065	1/4	83,446
1/2		1/2		1/2	150,762	1/2	142,388	1/2	134,245	1/2	126,102	1/2	117,976	1/2	106,442	1/2	94,823	1/2	83,204
3/4		3/4		3/4	150,621	3/4	142,218	3/4	134,075	3/4	125,932	3/4	117,807	3/4	106,200	3/4	94,581	3/4	82,962
3		3		3	150,439	3	142,048	3	133,906	3	125,763	3	117,566	3	105,958	3	94,339	3	82,721
1/4		1/4		1/4	150,257	1/4	141,879	1/4	133,736	1/4	125,593	1/4	117,324	1/4	105,716	1/4	94,097	1/4	82,480
1/2		1/2		1/2	150,075	1/2	141,709	1/2	133,566	1/2	125,423	1/2	117,083	1/2	105,474	1/2	93,855	1/2	82,238
3/4		3/4		3/4	149,893	3/4	141,539	3/4	133,397	3/4	125,254	3/4	116,841	3/4	105,232	3/4	93,613	3/4	81,997
4		4		4	149,671	4	141,370	4	133,227	4	125,084	4	116,600	4	104,990	4	93,371	4	81,756
1/4		1/4		1/4	149,448	1/4	141,200	1/4	133,057	1/4	124,914	1/4	116,358	1/4	104,748	1/4	93,129	1/4	81,516
1/2		1/2		1/2	149,226	1/2	141,031	1/2	132,888	1/2	124,745	1/2	116,117	1/2	104,506	1/2	92,887	1/2	81,275
3/4		3/4		3/4	149,004	3/4	140,861	3/4	132,718	3/4	124,575	3/4	115,875	3/4	104,263	3/4	92,645	3/4	81,035
5		5		5	148,834	5	140,691	5	132,548	5	124,406	5	115,634	5	104,021	5	92,403	5	80,794
1/4		1/4		1/4	148,664	1/4	140,522	1/4	132,379	1/4	124,236	1/4	115,392	1/4	103,779	1/4	92,161	1/4	80,553
1/2		1/2		1/2	148,495	1/2	140,352	1/2	132,209	1/2	124,066	1/2	115,151	1/2	103,537	1/2	91,919	1/2	80,313
3/4		3/4		3/4	148,325	3/4	140,182	3/4	132,039	3/4	123,897	3/4	114,909	3/4	103,295	3/4	91,677	3/4	80,072
6		6		6	148,156	6	140,013	6	131,870	6	123,727	6	114,668	6	103,053	6	91,434	6	79,832
1/4		1/4		1/4	147,986	1/4	139,843	1/4	131,700	1/4	123,557	1/4	114,426	1/4	102,811	1/4	91,192	1/4	79,591
1/2		1/2		1/2	147,816	1/2	139,673	1/2	131,531	1/2	123,388	1/2	114,185	1/2	102,569	1/2	90,950	1/2	79,350
3/4		3/4		3/4	147,647	3/4	139,504	3/4	131,361	3/4	123,218	3/4	113,943	3/4	102,327	3/4	90,708	3/4	79,110
7		7		7	147,477	7	139,334	7	131,191	7	123,048	7	113,702	7	102,085	7	90,466	7	78,869
1/4		1/4		1/4	147,307	1/4	139,164	1/4	131,022	1/4	122,879	1/4	113,460	1/4	101,843	1/4	90,224	1/4	78,629
1/2		1/2		1/2	147,138	1/2	138,995	1/2	130,852	1/2	122,709	1/2	113,219	1/2	101,601	1/2	89,982	1/2	78,388
3/4		3/4		3/4	146,968	3/4	138,825	3/4	130,682	3/4	122,539	3/4	112,977	3/4	101,359	3/4	89,740	3/4	78,147
8		8		8	146,798	8	138,656	8	130,513	8	122,370	8	112,735	8	101,117	8	89,498	8	77,907
1/4		1/4		1/4	146,629	1/4	138,486	1/4	130,343	1/4	122,201	1/4	112,493	1/4	100,875	1/4	89,256	1/4	77,666
1/2		1/2		1/2	146,459	1/2	138,316	1/2	130,173	1/2	122,032	1/2	112,251	1/2	100,633	1/2	89,014	1/2	77,426
3/4		3/4		3/4	146,289	3/4	138,147	3/4	130,004	3/4	121,863	3/4	112,009	3/4	100,391	3/4	88,772	3/4	77,185
9		9		9	146,120	9	137,977	9	129,834	9	121,694	9	111,767	9	100,149	9	88,530	9	76,944
1/4		1/4		1/4	145,950	1/4	137,807	1/4	129,664	1/4	121,525	1/4	111,525	1/4	99,906	1/4	88,288	1/4	76,704
1/2		1/2		1/2	145,781	1/2	137,638	1/2	129,495	1/2	121,356	1/2	111,283	1/2	99,664	1/2	88,046	1/2	76,463
3/4		3/4		3/4	145,611	3/4	137,468	3/4	129,325	3/4	121,187	3/4	111,041	3/4	99,422	3/4	87,804	3/4	76,222
10		10		10	145,441	10	137,298	10	129,156	10	121,018	10	110,799	10	99,180	10	87,562	10	75,982
1/4		1/4		1/4	145,272	1/4	137,129	1/4	128,986	1/4	120,849	1/4	110,557	1/4	98,938	1/4	87,319	1/4	75,741
1/2		1/2		1/2	145,102	1/2	136,959	1/2	128,816	1/2	120,680	1/2	110,315	1/2	98,696	1/2	87,077	1/2	75,501
3/4		3/4		3/4	144,932	3/4	136,789	3/4	128,647	3/4	120,511	3/4	110,073	3/4	98,454	3/4	86,835	3/4	75,260
11		11		11	144,763	11	136,620	11	128,477	11	120,341	11	109,831	11	98,212	11	86,593	11	75,019
1/4		1/4		1/4	151,874	1/4	144,593	1/4	136,450	1/4	128,307	1/4	120,172	1/4	99,589	1/4	86,351	1/4	74,777
1/2		1/2		1/2	151,854	1/2	144,423	1/2	136,281	1/2	128,138	1/2	120,003	1/2	99,347	1/2	86,109	1/2	74,536
3/4		3/4		3/4	151,834	3/4	144,254	3/4	136,111	3/4	127,968	3/4	119,834	3/4	99,105	3/4	85,867	3/4	74,295

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CBC 1412"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	74,053	0	62,443	0	50,829	0	39,215	0	27,838	0	16,247	0	4,617	0		0			
1/4	73,812	1/4	62,201	1/4	50,587	1/4	38,973	1/4	27,602	1/4	16,004	1/4	4,377	1/4		1/4		1/4	
1/2	73,570	1/2	61,959	1/2	50,345	1/2	38,731	1/2	27,367	1/2	15,762	1/2	4,138	1/2		1/2		1/2	
3/4	73,329	3/4	61,717	3/4	50,103	3/4	38,489	3/4	27,132	3/4	15,519	3/4	3,898	3/4		3/4		3/4	
1	73,088	1	61,475	1	49,861	1	38,247	1	26,897	1	15,277	1	3,660	1		1		1	
1/4	72,846	1/4	61,233	1/4	49,619	1/4	38,005	1/4	26,662	1/4	15,034	1/4	3,422	1/4		1/4		1/4	
1/2	72,605	1/2	60,991	1/2	49,377	1/2	37,763	1/2	26,427	1/2	14,792	1/2	3,185	1/2		1/2		1/2	
3/4	72,364	3/4	60,749	3/4	49,135	3/4	37,521	3/4	26,191	3/4	14,549	3/4	2,947	3/4		3/4		3/4	
2	72,122	2	60,507	2	48,893	2	37,279	2	25,949	2	14,307	2	2,725	2		2		2	
1/4	71,880	1/4	60,265	1/4	48,651	1/4	37,037	1/4	25,706	1/4	14,064	1/4	2,503	1/4		1/4		1/4	
1/2	71,638	1/2	60,023	1/2	48,409	1/2	36,795	1/2	25,464	1/2	13,822	1/2	2,282	1/2		1/2		1/2	
3/4	71,396	3/4	59,782	3/4	48,167	3/4	36,553	3/4	25,221	3/4	13,579	3/4	2,060	3/4		3/4		3/4	
3	71,154	3	59,540	3	47,925	3	36,311	3	24,979	3	13,336	3	1,878	3		3		3	
1/4	70,912	1/4	59,298	1/4	47,683	1/4	36,069	1/4	24,736	1/4	13,094	1/4	1,696	1/4		1/4		1/4	
1/2	70,670	1/2	59,056	1/2	47,441	1/2	35,827	1/2	24,494	1/2	12,851	1/2	1,515	1/2		1/2		1/2	
3/4	70,428	3/4	58,814	3/4	47,200	3/4	35,585	3/4	24,251	3/4	12,609	3/4	1,333	3/4		3/4		3/4	
4	70,186	4	58,572	4	46,958	4	35,351	4	24,008	4	12,366	4	1,191	4		4		4	
1/4	69,944	1/4	58,330	1/4	46,716	1/4	35,116	1/4	23,766	1/4	12,124	1/4	1,050	1/4		1/4		1/4	
1/2	69,702	1/2	58,088	1/2	46,474	1/2	34,881	1/2	23,523	1/2	11,881	1/2	908	1/2		1/2		1/2	
3/4	69,460	3/4	57,846	3/4	46,232	3/4	34,646	3/4	23,281	3/4	11,639	3/4	767	3/4		3/4		3/4	
5	69,218	5	57,604	5	45,990	5	34,411	5	23,038	5	11,396	5	666	5		5		5	
1/4	68,976	1/4	57,362	1/4	45,748	1/4	34,177	1/4	22,796	1/4	11,154	1/4	565	1/4		1/4		1/4	
1/2	68,734	1/2	57,120	1/2	45,506	1/2	33,942	1/2	22,553	1/2	10,911	1/2	464	1/2		1/2		1/2	
3/4	68,492	3/4	56,878	3/4	45,264	3/4	33,707	3/4	22,311	3/4	10,668	3/4	363	3/4		3/4		3/4	
6	68,250	6	56,636	6	45,022	6	33,472	6	22,068	6	10,426	6	302	6		6		6	
1/4	68,008	1/4	56,394	1/4	44,780	1/4	33,238	1/4	21,826	1/4	10,183	1/4	241	1/4		1/4		1/4	
1/2	67,766	1/2	56,152	1/2	44,538	1/2	33,003	1/2	21,583	1/2	9,941	1/2	181	1/2		1/2		1/2	
3/4	67,524	3/4	55,910	3/4	44,296	3/4	32,768	3/4	21,340	3/4	9,698	3/4	120	3/4		3/4		3/4	
7	67,282	7	55,668	7	44,054	7	32,533	7	21,098	7	9,456	7	100	7		7		7	
1/4	67,040	1/4	55,426	1/4	43,812	1/4	32,299	1/4	20,855	1/4	9,213	1/4	80	1/4		1/4		1/4	
1/2	66,798	1/2	55,184	1/2	43,570	1/2	32,064	1/2	20,613	1/2	8,971	1/2	60	1/2		1/2		1/2	
3/4	66,556	3/4	54,942	3/4	43,328	3/4	31,829	3/4	20,370	3/4	8,728	3/4	39	3/4		3/4		3/4	
8	66,314	8	54,700	8	43,086	8	31,594	8	20,128	8	8,486	8		8		8		8	
1/4	66,073	1/4	54,458	1/4	42,844	1/4	31,359	1/4	19,885	1/4	8,243	1/4		1/4		1/4		1/4	
1/2	65,831	1/2	54,216	1/2	42,602	1/2	31,125	1/2	19,643	1/2	8,001	1/2		1/2		1/2		1/2	
3/4	65,589	3/4	53,974	3/4	42,360	3/4	30,890	3/4	19,400	3/4	7,758	3/4		3/4		3/4		3/4	
9	65,347	9	53,732	9	42,118	9	30,655	9	19,158	9	7,516	9		9		9		9	
1/4	65,105	1/4	53,491	1/4	41,876	1/4	30,420	1/4	18,915	1/4	7,273	1/4		1/4		1/4		1/4	
1/2	64,863	1/2	53,249	1/2	41,634	1/2	30,186	1/2	18,672	1/2	7,031	1/2		1/2		1/2		1/2	
3/4	64,621	3/4	53,007	3/4	41,392	3/4	29,951	3/4	18,430	3/4	6,789	3/4		3/4		3/4		3/4	
10	64,379	10	52,765	10	41,150	10	29,716	10	18,187	10	6,547	10		10		10		10	
1/4	64,137	1/4	52,523	1/4	40,908	1/4	29,481	1/4	17,945	1/4	6,305	1/4		1/4		1/4		1/4	
1/2	63,895	1/2	52,281	1/2	40,667	1/2	29,247	1/2	17,702	1/2	6,063	1/2		1/2		1/2		1/2	
3/4	63,653	3/4	52,039	3/4	40,425	3/4	29,012	3/4	17,460	3/4	5,821	3/4		3/4		3/4		3/4	
11	63,411	11	51,797	11	40,183	11	28,777	11	17,217	11	5,580	11		11		11		11	
1/4	63,169	1/4	51,555	1/4	39,941	1/4	28,542	1/4	16,975	1/4	5,339	1/4		1/4		1/4		1/4	
1/2	62,927	1/2	51,313	1/2	39,699	1/2	28,307	1/2	16,732	1/2	5,098	1/2		1/2		1/2		1/2	
3/4	62,685	3/4	51,071	3/4	39,457	3/4	28,073	3/4	16,490	3/4	4,857	3/4		3/4		3/4		3/4	

STRAPPED: 04/11/2019 SW - JS  
CALCULATED: 04/12/2019 CL  
PRINTED: 04/13/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "CBC 1412"

## 2 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	191,096	0	180,247	0	166,808	0	153,369	0	139,930	0	126,492	0	113,053	0	99,614
1/4		1/4		1/4	191,072	1/4	179,967	1/4	166,528	1/4	153,089	1/4	139,650	1/4	126,212	1/4	112,773	1/4	99,334
1/2		1/2		1/2	191,002	1/2	179,687	1/2	166,248	1/2	152,809	1/2	139,370	1/2	125,932	1/2	112,493	1/2	99,054
3/4		3/4		3/4	190,932	3/4	179,407	3/4	165,968	3/4	152,529	3/4	139,090	3/4	125,652	3/4	112,213	3/4	98,774
1		1		1	190,862	1	179,127	1	165,688	1	152,249	1	138,810	1	125,372	1	111,933	1	98,494
1/4		1/4		1/4	190,792	1/4	178,847	1/4	165,408	1/4	151,969	1/4	138,530	1/4	125,092	1/4	111,653	1/4	98,214
1/2		1/2		1/2	190,676	1/2	178,567	1/2	165,128	1/2	151,689	1/2	138,250	1/2	124,812	1/2	111,373	1/2	97,934
3/4		3/4		3/4	190,559	3/4	178,287	3/4	164,848	3/4	151,409	3/4	137,970	3/4	124,532	3/4	111,093	3/4	97,654
2		2		2	190,442	2	178,007	2	164,568	2	151,129	2	137,691	2	124,252	2	110,813	2	97,374
1/4		1/4		1/4	190,326	1/4	177,727	1/4	164,288	1/4	150,849	1/4	137,411	1/4	123,972	1/4	110,533	1/4	97,094
1/2		1/2		1/2	190,162	1/2	177,447	1/2	164,008	1/2	150,569	1/2	137,131	1/2	123,692	1/2	110,253	1/2	96,814
3/4		3/4		3/4	189,999	3/4	177,167	3/4	163,728	3/4	150,289	3/4	136,851	3/4	123,412	3/4	109,973	3/4	96,534
3		3		3	189,836	3	176,887	3	163,448	3	150,009	3	136,571	3	123,132	3	109,693	3	96,254
1/4		1/4		1/4	189,672	1/4	176,607	1/4	163,168	1/4	149,729	1/4	136,291	1/4	122,852	1/4	109,413	1/4	95,974
1/2		1/2		1/2	189,462	1/2	176,327	1/2	162,888	1/2	149,449	1/2	136,011	1/2	122,572	1/2	109,133	1/2	95,694
3/4		3/4		3/4	189,253	3/4	176,047	3/4	162,608	3/4	149,169	3/4	135,731	3/4	122,292	3/4	108,853	3/4	95,414
4		4		4	189,043	4	175,767	4	162,328	4	148,890	4	135,451	4	122,012	4	108,573	4	95,134
1/4		1/4		1/4	188,833	1/4	175,487	1/4	162,048	1/4	148,610	1/4	135,171	1/4	121,732	1/4	108,293	1/4	94,854
1/2		1/2		1/2	188,576	1/2	175,207	1/2	161,768	1/2	148,330	1/2	134,891	1/2	121,452	1/2	108,013	1/2	94,574
3/4		3/4		3/4	188,319	3/4	174,927	3/4	161,488	3/4	148,050	3/4	134,611	3/4	121,172	3/4	107,733	3/4	94,294
5		5		5	188,063	5	174,647	5	161,208	5	147,770	5	134,331	5	120,892	5	107,453	5	94,014
1/4		1/4		1/4	187,806	1/4	174,367	1/4	160,928	1/4	147,490	1/4	134,051	1/4	120,612	1/4	107,173	1/4	93,734
1/2		1/2		1/2	187,526	1/2	174,087	1/2	160,648	1/2	147,210	1/2	133,771	1/2	120,332	1/2	106,893	1/2	93,454
3/4		3/4		3/4	187,246	3/4	173,807	3/4	160,368	3/4	146,930	3/4	133,491	3/4	120,052	3/4	106,613	3/4	93,174
6		6		6	186,966	6	173,527	6	160,089	6	146,650	6	133,211	6	119,772	6	106,333	6	92,895
1/4		1/4		1/4	186,686	1/4	173,247	1/4	159,809	1/4	146,370	1/4	132,931	1/4	119,492	1/4	106,053	1/4	92,615
1/2		1/2		1/2	186,406	1/2	172,967	1/2	159,529	1/2	146,090	1/2	132,651	1/2	119,212	1/2	105,773	1/2	92,335
3/4		3/4		3/4	186,126	3/4	172,687	3/4	159,249	3/4	145,810	3/4	132,371	3/4	118,932	3/4	105,493	3/4	92,055
7		7		7	185,846	7	172,407	7	158,969	7	145,530	7	132,091	7	118,652	7	105,213	7	91,775
1/4		1/4		1/4	185,566	1/4	172,127	1/4	158,689	1/4	145,250	1/4	131,811	1/4	118,372	1/4	104,933	1/4	91,495
1/2		1/2		1/2	185,286	1/2	171,847	1/2	158,409	1/2	144,970	1/2	131,531	1/2	118,092	1/2	104,653	1/2	91,215
3/4		3/4		3/4	185,006	3/4	171,567	3/4	158,129	3/4	144,690	3/4	131,251	3/4	117,812	3/4	104,374	3/4	90,935
8		8		8	184,726	8	171,287	8	157,849	8	144,410	8	130,971	8	117,532	8	104,094	8	90,655
1/4		1/4		1/4	184,446	1/4	171,008	1/4	157,569	1/4	144,130	1/4	130,691	1/4	117,252	1/4	103,814	1/4	90,375
1/2		1/2		1/2	184,166	1/2	170,728	1/2	157,289	1/2	143,850	1/2	130,411	1/2	116,972	1/2	103,534	1/2	90,095
3/4		3/4		3/4	183,886	3/4	170,448	3/4	157,009	3/4	143,570	3/4	130,131	3/4	116,692	3/4	103,254	3/4	89,815
9		9		9	183,606	9	170,168	9	156,729	9	143,290	9	129,851	9	116,412	9	102,974	9	89,535
1/4		1/4		1/4	183,326	1/4	169,888	1/4	156,449	1/4	143,010	1/4	129,571	1/4	116,132	1/4	102,694	1/4	89,255
1/2		1/2		1/2	183,046	1/2	169,608	1/2	156,169	1/2	142,730	1/2	129,291	1/2	115,852	1/2	102,414	1/2	88,975
3/4		3/4		3/4	182,766	3/4	169,328	3/4	155,889	3/4	142,450	3/4	129,011	3/4	115,573	3/4	102,134	3/4	88,695
10		10		10	182,486	10	169,048	10	155,609	10	142,170	10	128,731	10	115,293	10	101,854	10	88,415
1/4		1/4		1/4	182,207	1/4	168,768	1/4	155,329	1/4	141,890	1/4	128,451	1/4	115,013	1/4	101,574	1/4	88,135
1/2		1/2		1/2	181,927	1/2	168,488	1/2	155,049	1/2	141,610	1/2	128,171	1/2	114,733	1/2	101,294	1/2	87,855
3/4		3/4		3/4	181,647	3/4	168,208	3/4	154,769	3/4	141,330	3/4	127,891	3/4	114,453	3/4	101,014	3/4	87,575
11		11		11	181,367	11	167,928	11	154,489	11	141,050	11	127,611	11	114,173	11	100,734	11	87,295
1/4		1/4		1/4	181,087	1/4	167,648	1/4	154,209	1/4	140,770	1/4	127,331	1/4	113,893	1/4	100,454	1/4	87,015
1/2		1/2		1/2	180,807	1/2	167,368	1/2	153,929	1/2	140,490	1/2	127,051	1/2	113,613	1/2	100,174	1/2	86,735
3/4		3/4		3/4	191,119	3/4	180,527	3/4	167,088	3/4	153,649	3/4	140,210	3/4	126,771	3/4	99,894	3/4	86,455

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "CBC 1412"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	86,175	0	72,736	0	59,298	0	45,859	0	32,706	0	19,308	0	5,879	0		0			
1/4	85,895	1/4	72,456	1/4	59,018	1/4	45,579	1/4	32,435	1/4	19,028	1/4	5,600	1/4		1/4		1/4	
1/2	85,615	1/2	72,176	1/2	58,738	1/2	45,299	1/2	32,162	1/2	18,748	1/2	5,324	1/2		1/2		1/2	
3/4	85,335	3/4	71,896	3/4	58,458	3/4	45,019	3/4	31,890	3/4	18,468	3/4	5,047	3/4		3/4		3/4	
1	85,055	1	71,616	1	58,178	1	44,739	1	31,618	1	18,188	1	4,770	1		1		1	
1/4	84,775	1/4	71,336	1/4	57,898	1/4	44,459	1/4	31,346	1/4	17,908	1/4	4,493	1/4		1/4		1/4	
1/2	84,495	1/2	71,057	1/2	57,618	1/2	44,179	1/2	31,066	1/2	17,628	1/2	4,219	1/2		1/2		1/2	
3/4	84,215	3/4	70,777	3/4	57,338	3/4	43,899	3/4	30,786	3/4	17,348	3/4	3,944	3/4		3/4		3/4	
2	83,935	2	70,497	2	57,058	2	43,619	2	30,506	2	17,068	2	3,670	2		2		2	
1/4	83,655	1/4	70,217	1/4	56,778	1/4	43,339	1/4	30,226	1/4	16,788	1/4	3,395	1/4		1/4		1/4	
1/2	83,375	1/2	69,937	1/2	56,498	1/2	43,059	1/2	29,946	1/2	16,508	1/2	3,140	1/2		1/2		1/2	
3/4	83,095	3/4	69,657	3/4	56,218	3/4	42,779	3/4	29,666	3/4	16,228	3/4	2,884	3/4		3/4		3/4	
3	82,815	3	69,377	3	55,938	3	42,499	3	29,386	3	15,948	3	2,628	3		3		3	
1/4	82,535	1/4	69,097	1/4	55,658	1/4	42,219	1/4	29,106	1/4	15,668	1/4	2,372	1/4		1/4		1/4	
1/2	82,255	1/2	68,817	1/2	55,378	1/2	41,947	1/2	28,826	1/2	15,388	1/2	2,162	1/2		1/2		1/2	
3/4	81,976	3/4	68,537	3/4	55,098	3/4	41,675	3/4	28,546	3/4	15,108	3/4	1,952	3/4		3/4		3/4	
4	81,696	4	68,257	4	54,818	4	41,403	4	28,266	4	14,828	4	1,742	4		4		4	
1/4	81,416	1/4	67,977	1/4	54,538	1/4	41,131	1/4	27,987	1/4	14,548	1/4	1,532	1/4		1/4		1/4	
1/2	81,136	1/2	67,697	1/2	54,258	1/2	40,859	1/2	27,707	1/2	14,268	1/2	1,369	1/2		1/2		1/2	
3/4	80,856	3/4	67,417	3/4	53,978	3/4	40,587	3/4	27,427	3/4	13,988	3/4	1,205	3/4		3/4		3/4	
5	80,576	5	67,137	5	53,698	5	40,315	5	27,147	5	13,708	5	1,042	5		5		5	
1/4	80,296	1/4	66,857	1/4	53,418	1/4	40,044	1/4	26,867	1/4	13,428	1/4	879	1/4		1/4		1/4	
1/2	80,016	1/2	66,577	1/2	53,138	1/2	39,772	1/2	26,587	1/2	13,148	1/2	762	1/2		1/2		1/2	
3/4	79,736	3/4	66,297	3/4	52,858	3/4	39,500	3/4	26,307	3/4	12,868	3/4	645	3/4		3/4		3/4	
6	79,456	6	66,017	6	52,578	6	39,228	6	26,027	6	12,588	6	529	6		6		6	
1/4	79,176	1/4	65,737	1/4	52,298	1/4	38,957	1/4	25,747	1/4	12,308	1/4	412	1/4		1/4		1/4	
1/2	78,896	1/2	65,457	1/2	52,018	1/2	38,685	1/2	25,467	1/2	12,028	1/2	342	1/2		1/2		1/2	
3/4	78,616	3/4	65,177	3/4	51,738	3/4	38,413	3/4	25,187	3/4	11,749	3/4	272	3/4		3/4		3/4	
7	78,336	7	64,897	7	51,458	7	38,141	7	24,907	7	11,469	7	202	7		7		7	
1/4	78,056	1/4	64,617	1/4	51,178	1/4	37,870	1/4	24,627	1/4	11,189	1/4	132	1/4		1/4		1/4	
1/2	77,776	1/2	64,337	1/2	50,898	1/2	37,598	1/2	24,347	1/2	10,909	1/2	109	1/2		1/2		1/2	
3/4	77,496	3/4	64,057	3/4	50,618	3/4	37,326	3/4	24,067	3/4	10,629	3/4	86	3/4		3/4		3/4	
8	77,216	8	63,777	8	50,338	8	37,054	8	23,787	8	10,349	8	62	8		8		8	
1/4	76,936	1/4	63,497	1/4	50,058	1/4	36,783	1/4	23,507	1/4	10,069	1/4	39	1/4		1/4		1/4	
1/2	76,656	1/2	63,217	1/2	49,778	1/2	36,511	1/2	23,227	1/2	9,789	1/2		1/2		1/2		1/2	
3/4	76,376	3/4	62,937	3/4	49,498	3/4	36,239	3/4	22,947	3/4	9,509	3/4		3/4		3/4		3/4	
9	76,096	9	62,657	9	49,218	9	35,967	9	22,667	9	9,229	9		9		9		9	
1/4	75,816	1/4	62,377	1/4	48,939	1/4	35,696	1/4	22,387	1/4	8,949	1/4		1/4		1/4		1/4	
1/2	75,536	1/2	62,097	1/2	48,659	1/2	35,424	1/2	22,107	1/2	8,669	1/2		1/2		1/2		1/2	
3/4	75,256	3/4	61,817	3/4	48,379	3/4	35,152	3/4	21,827	3/4	8,390	3/4		3/4		3/4		3/4	
10	74,976	10	61,537	10	48,099	10	34,880	10	21,547	10	8,110	10		10		10		10	
1/4	74,696	1/4	61,257	1/4	47,819	1/4	34,609	1/4	21,267	1/4	7,830	1/4		1/4		1/4		1/4	
1/2	74,416	1/2	60,977	1/2	47,539	1/2	34,337	1/2	20,987	1/2	7,551	1/2		1/2		1/2		1/2	
3/4	74,136	3/4	60,697	3/4	47,259	3/4	34,065	3/4	20,707	3/4	7,272	3/4		3/4		3/4		3/4	
11	73,856	11	60,417	11	46,979	11	33,793	11	20,427	11	6,993	11		11		11		11	
1/4	73,576	1/4	60,137	1/4	46,699	1/4	33,522	1/4	20,147	1/4	6,713	1/4		1/4		1/4		1/4	
1/2	73,296	1/2	59,858	1/2	46,419	1/2	33,250	1/2	19,868	1/2	6,435	1/2		1/2		1/2		1/2	
3/4	73,016	3/4	59,578	3/4	46,139	3/4	32,978	3/4	19,588	3/4	6,157	3/4		3/4		3/4		3/4	

STRAPPED: 04/11/2019 SW - JS  
CALCULATED: 04/12/2019 CL  
PRINTED: 04/13/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "CBC 1412"

## 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	170,830	0	161,147	0	149,152	0	137,158	0	125,163	0	113,168	0	101,174	0	89,179
1/4		1/4		1/4	170,809	1/4	160,897	1/4	148,902	1/4	136,908	1/4	124,913	1/4	112,919	1/4	100,924	1/4	88,929
1/2		1/2		1/2	170,747	1/2	160,647	1/2	148,653	1/2	136,658	1/2	124,663	1/2	112,669	1/2	100,674	1/2	88,679
3/4		3/4		3/4	170,684	3/4	160,397	3/4	148,403	3/4	136,408	3/4	124,413	3/4	112,419	3/4	100,424	3/4	88,429
1		1		1	170,622	1	160,147	1	148,153	1	136,158	1	124,164	1	112,169	1	100,174	1	88,180
1/4		1/4		1/4	170,559	1/4	159,898	1/4	147,903	1/4	135,908	1/4	123,914	1/4	111,919	1/4	99,924	1/4	87,930
1/2		1/2		1/2	170,455	1/2	159,648	1/2	147,653	1/2	135,658	1/2	123,664	1/2	111,669	1/2	99,674	1/2	87,680
3/4		3/4		3/4	170,351	3/4	159,398	3/4	147,403	3/4	135,408	3/4	123,414	3/4	111,419	3/4	99,425	3/4	87,430
2		2		2	170,247	2	159,148	2	147,153	2	135,159	2	123,164	2	111,169	2	99,175	2	87,180
1/4		1/4		1/4	170,143	1/4	158,898	1/4	146,903	1/4	134,909	1/4	122,914	1/4	110,919	1/4	98,925	1/4	86,930
1/2		1/2		1/2	169,997	1/2	158,648	1/2	146,653	1/2	134,659	1/2	122,664	1/2	110,670	1/2	98,675	1/2	86,680
3/4		3/4		3/4	169,851	3/4	158,398	3/4	146,404	3/4	134,409	3/4	122,414	3/4	110,420	3/4	98,425	3/4	86,430
3		3		3	169,706	3	158,148	3	146,154	3	134,159	3	122,164	3	110,170	3	98,175	3	86,180
1/4		1/4		1/4	169,560	1/4	157,898	1/4	145,904	1/4	133,909	1/4	121,915	1/4	109,920	1/4	97,925	1/4	85,931
1/2		1/2		1/2	169,373	1/2	157,649	1/2	145,654	1/2	133,659	1/2	121,665	1/2	109,670	1/2	97,675	1/2	85,681
3/4		3/4		3/4	169,185	3/4	157,399	3/4	145,404	3/4	133,409	3/4	121,415	3/4	109,420	3/4	97,425	3/4	85,431
4		4		4	168,998	4	157,149	4	145,154	4	133,159	4	121,165	4	109,170	4	97,176	4	85,181
1/4		1/4		1/4	168,810	1/4	156,899	1/4	144,904	1/4	132,910	1/4	120,915	1/4	108,920	1/4	96,926	1/4	84,931
1/2		1/2		1/2	168,581	1/2	156,649	1/2	144,654	1/2	132,660	1/2	120,665	1/2	108,670	1/2	96,676	1/2	84,681
3/4		3/4		3/4	168,352	3/4	156,399	3/4	144,404	3/4	132,410	3/4	120,415	3/4	108,421	3/4	96,426	3/4	84,431
5		5		5	168,123	5	156,149	5	144,155	5	132,160	5	120,165	5	108,171	5	96,176	5	84,181
1/4		1/4		1/4	167,894	1/4	155,899	1/4	143,905	1/4	131,910	1/4	119,915	1/4	107,921	1/4	95,926	1/4	83,931
1/2		1/2		1/2	167,644	1/2	155,649	1/2	143,655	1/2	131,660	1/2	119,666	1/2	107,671	1/2	95,676	1/2	83,682
3/4		3/4		3/4	167,394	3/4	155,400	3/4	143,405	3/4	131,410	3/4	119,416	3/4	107,421	3/4	95,426	3/4	83,432
6		6		6	167,144	6	155,150	6	143,155	6	131,160	6	119,166	6	107,171	6	95,176	6	83,182
1/4		1/4		1/4	166,894	1/4	154,900	1/4	142,905	1/4	130,910	1/4	118,916	1/4	106,921	1/4	94,927	1/4	82,932
1/2		1/2		1/2	166,645	1/2	154,650	1/2	142,655	1/2	130,661	1/2	118,666	1/2	106,671	1/2	94,677	1/2	82,682
3/4		3/4		3/4	166,395	3/4	154,400	3/4	142,405	3/4	130,411	3/4	118,416	3/4	106,421	3/4	94,427	3/4	82,432
7		7		7	166,145	7	154,150	7	142,155	7	130,161	7	118,166	7	106,172	7	94,177	7	82,182
1/4		1/4		1/4	165,895	1/4	153,900	1/4	141,906	1/4	129,911	1/4	117,916	1/4	105,922	1/4	93,927	1/4	81,932
1/2		1/2		1/2	165,645	1/2	153,650	1/2	141,656	1/2	129,661	1/2	117,666	1/2	105,672	1/2	93,677	1/2	81,682
3/4		3/4		3/4	165,395	3/4	153,400	3/4	141,406	3/4	129,411	3/4	117,417	3/4	105,422	3/4	93,427	3/4	81,433
8		8		8	165,145	8	153,151	8	141,156	8	129,161	8	117,167	8	105,172	8	93,177	8	81,183
1/4		1/4		1/4	164,895	1/4	152,901	1/4	140,906	1/4	128,911	1/4	116,917	1/4	104,922	1/4	92,927	1/4	80,933
1/2		1/2		1/2	164,645	1/2	152,651	1/2	140,656	1/2	128,661	1/2	116,667	1/2	104,672	1/2	92,678	1/2	80,683
3/4		3/4		3/4	164,396	3/4	152,401	3/4	140,406	3/4	128,412	3/4	116,417	3/4	104,422	3/4	92,428	3/4	80,433
9		9		9	164,146	9	152,151	9	140,156	9	128,162	9	116,167	9	104,172	9	92,178	9	80,183
1/4		1/4		1/4	163,896	1/4	151,901	1/4	139,906	1/4	127,912	1/4	115,917	1/4	103,923	1/4	91,928	1/4	79,933
1/2		1/2		1/2	163,646	1/2	151,651	1/2	139,657	1/2	127,662	1/2	115,667	1/2	103,673	1/2	91,678	1/2	79,683
3/4		3/4		3/4	163,396	3/4	151,401	3/4	139,407	3/4	127,412	3/4	115,417	3/4	103,423	3/4	91,428	3/4	79,433
10		10		10	163,146	10	151,151	10	139,157	10	127,162	10	115,168	10	103,173	10	91,178	10	79,184
1/4		1/4		1/4	162,896	1/4	150,902	1/4	138,907	1/4	126,912	1/4	114,918	1/4	102,923	1/4	90,928	1/4	78,934
1/2		1/2		1/2	162,646	1/2	150,652	1/2	138,657	1/2	126,662	1/2	114,668	1/2	102,673	1/2	90,678	1/2	78,684
3/4		3/4		3/4	162,396	3/4	150,402	3/4	138,407	3/4	126,412	3/4	114,418	3/4	102,423	3/4	90,429	3/4	78,434
11		11		11	162,147	11	150,152	11	138,157	11	126,163	11	114,168	11	102,173	11	90,179	11	78,184
1/4		1/4		1/4	161,897	1/4	149,902	1/4	137,907	1/4	125,913	1/4	113,918	1/4	101,923	1/4	89,929	1/4	77,934
1/2		1/2		1/2	161,647	1/2	149,652	1/2	137,657	1/2	125,663	1/2	113,668	1/2	101,674	1/2	89,679	1/2	77,684
3/4		3/4		3/4	170,851	3/4	161,397	3/4	149,402	3/4	137,408	3/4	125,413	3/4	113,418	3/4	101,424	3/4	89,429

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  
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# BARGE "CBC 1412"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	77,184	0	65,190	0	53,195	0	41,200	0	29,228	0	17,238	0	5,252	0		0			
1/4	76,935	1/4	64,940	1/4	52,945	1/4	40,951	1/4	28,979	1/4	16,988	1/4	5,003	1/4		1/4		1/4	
1/2	76,685	1/2	64,690	1/2	52,695	1/2	40,701	1/2	28,729	1/2	16,738	1/2	4,756	1/2		1/2		1/2	
3/4	76,435	3/4	64,440	3/4	52,445	3/4	40,451	3/4	28,480	3/4	16,488	3/4	4,509	3/4		3/4		3/4	
1	76,185	1	64,190	1	52,196	1	40,201	1	28,230	1	16,238	1	4,262	1		1		1	
1/4	75,935	1/4	63,940	1/4	51,946	1/4	39,951	1/4	27,981	1/4	15,988	1/4	4,015	1/4		1/4		1/4	
1/2	75,685	1/2	63,690	1/2	51,696	1/2	39,701	1/2	27,731	1/2	15,738	1/2	3,770	1/2		1/2		1/2	
3/4	75,435	3/4	63,441	3/4	51,446	3/4	39,451	3/4	27,482	3/4	15,488	3/4	3,525	3/4		3/4		3/4	
2	75,185	2	63,191	2	51,196	2	39,201	2	27,232	2	15,238	2	3,280	2		2		2	
1/4	74,935	1/4	62,941	1/4	50,946	1/4	38,951	1/4	26,983	1/4	14,989	1/4	3,035	1/4		1/4		1/4	
1/2	74,686	1/2	62,691	1/2	50,696	1/2	38,702	1/2	26,733	1/2	14,739	1/2	2,807	1/2		1/2		1/2	
3/4	74,436	3/4	62,441	3/4	50,446	3/4	38,452	3/4	26,483	3/4	14,489	3/4	2,579	3/4		3/4		3/4	
3	74,186	3	62,191	3	50,196	3	38,202	3	26,233	3	14,239	3	2,350	3		3		3	
1/4	73,936	1/4	61,941	1/4	49,947	1/4	37,952	1/4	25,983	1/4	13,989	1/4	2,122	1/4		1/4		1/4	
1/2	73,686	1/2	61,691	1/2	49,697	1/2	37,702	1/2	25,733	1/2	13,739	1/2	1,934	1/2		1/2		1/2	
3/4	73,436	3/4	61,441	3/4	49,447	3/4	37,452	3/4	25,484	3/4	13,489	3/4	1,747	3/4		3/4		3/4	
4	73,186	4	61,192	4	49,197	4	37,202	4	25,234	4	13,239	4	1,560	4		4		4	
1/4	72,936	1/4	60,942	1/4	48,947	1/4	36,952	1/4	24,984	1/4	12,990	1/4	1,372	1/4		1/4		1/4	
1/2	72,686	1/2	60,692	1/2	48,697	1/2	36,703	1/2	24,734	1/2	12,740	1/2	1,226	1/2		1/2		1/2	
3/4	72,437	3/4	60,442	3/4	48,447	3/4	36,454	3/4	24,484	3/4	12,490	3/4	1,081	3/4		3/4		3/4	
5	72,187	5	60,192	5	48,197	5	36,205	5	24,234	5	12,240	5	935	5		5		5	
1/4	71,937	1/4	59,942	1/4	47,947	1/4	35,956	1/4	23,984	1/4	11,990	1/4	789	1/4		1/4		1/4	
1/2	71,687	1/2	59,692	1/2	47,698	1/2	35,707	1/2	23,734	1/2	11,740	1/2	685	1/2		1/2		1/2	
3/4	71,437	3/4	59,442	3/4	47,448	3/4	35,457	3/4	23,484	3/4	11,490	3/4	581	3/4		3/4		3/4	
6	71,187	6	59,192	6	47,198	6	35,208	6	23,235	6	11,240	6	477	6		6		6	
1/4	70,937	1/4	58,943	1/4	46,948	1/4	34,959	1/4	22,985	1/4	10,991	1/4	373	1/4		1/4		1/4	
1/2	70,687	1/2	58,693	1/2	46,698	1/2	34,710	1/2	22,735	1/2	10,741	1/2	310	1/2		1/2		1/2	
3/4	70,437	3/4	58,443	3/4	46,448	3/4	34,461	3/4	22,485	3/4	10,491	3/4	248	3/4		3/4		3/4	
7	70,188	7	58,193	7	46,198	7	34,212	7	22,235	7	10,241	7	185	7		7		7	
1/4	69,938	1/4	57,943	1/4	45,948	1/4	33,962	1/4	21,985	1/4	9,991	1/4	123	1/4		1/4		1/4	
1/2	69,688	1/2	57,693	1/2	45,698	1/2	33,713	1/2	21,735	1/2	9,741	1/2	102	1/2		1/2		1/2	
3/4	69,438	3/4	57,443	3/4	45,449	3/4	33,464	3/4	21,485	3/4	9,491	3/4	81	3/4		3/4		3/4	
8	69,188	8	57,193	8	45,199	8	33,215	8	21,236	8	9,241	8	60	8		8		8	
1/4	68,938	1/4	56,943	1/4	44,949	1/4	32,966	1/4	20,986	1/4	8,991	1/4	40	1/4		1/4		1/4	
1/2	68,688	1/2	56,694	1/2	44,699	1/2	32,717	1/2	20,736	1/2	8,742	1/2	39	1/2		1/2		1/2	
3/4	68,438	3/4	56,444	3/4	44,449	3/4	32,467	3/4	20,486	3/4	8,492	3/4		3/4		3/4		3/4	
9	68,188	9	56,194	9	44,199	9	32,218	9	20,236	9	8,242	9		9		9		9	
1/4	67,939	1/4	55,944	1/4	43,949	1/4	31,969	1/4	19,986	1/4	7,992	1/4		1/4		1/4		1/4	
1/2	67,689	1/2	55,694	1/2	43,699	1/2	31,720	1/2	19,736	1/2	7,742	1/2		1/2		1/2		1/2	
3/4	67,439	3/4	55,444	3/4	43,449	3/4	31,471	3/4	19,486	3/4	7,493	3/4		3/4		3/4		3/4	
10	67,189	10	55,194	10	43,200	10	31,222	10	19,237	10	7,243	10		10		10		10	
1/4	66,939	1/4	54,944	1/4	42,950	1/4	30,972	1/4	18,987	1/4	6,993	1/4		1/4		1/4		1/4	
1/2	66,689	1/2	54,694	1/2	42,700	1/2	30,723	1/2	18,737	1/2	6,744	1/2		1/2		1/2		1/2	
3/4	66,439	3/4	54,445	3/4	42,450	3/4	30,474	3/4	18,487	3/4	6,495	3/4		3/4		3/4		3/4	
11	66,189	11	54,195	11	42,200	11	30,225	11	18,237	11	6,246	11		11		11		11	
1/4	65,939	1/4	53,945	1/4	41,950	1/4	29,976	1/4	17,987	1/4	5,997	1/4		1/4		1/4		1/4	
1/2	65,690	1/2	53,695	1/2	41,700	1/2	29,727	1/2	17,737	1/2	5,748	1/2		1/2		1/2		1/2	
3/4	65,440	3/4	53,445	3/4	41,450	3/4	29,477	3/4	17,487	3/4	5,500	3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2019

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