

# BARGE "DBL 104"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
2 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	00-3/8	- 00-3/8
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 - 00-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

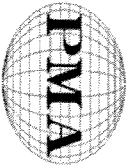
LENGTH BETWEEN DRAFT MARKS: 162'-03"

May 22, 2014

### PRECISION MEASUREMENT

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

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# BARGE "DBL 104"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS												GAUGE HEIGHT 19'-00 1/2"											
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.					
IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11				
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4				
144,646	144,841	145,036	145,231	145,426	145,621	145,816	146,011	146,206	146,401	146,596	146,791	146,986	147,181	147,376	147,571	147,766	147,961	148,156	148,351				
135,244	135,441	135,638	135,834	136,031	136,228	136,425	136,622	136,818	137,015	137,211	137,408	137,605	137,802	137,998	138,195	138,392	138,588	138,785	138,982				
125,802	125,999	126,195	126,392	126,589	126,786	126,982	127,179	127,376	127,572	127,769	127,966	128,163	128,359	128,556	128,753	128,949	129,146	129,343	129,540				
116,360	116,556	116,753	116,950	117,147	117,343	117,540	117,737	117,933	118,130	118,327	118,524	118,720	118,917	119,114	119,310	119,507	119,704	119,901	120,097				
106,669	106,893	107,118	107,342	107,566	107,791	108,015	108,239	108,463	108,688	108,912	109,136	109,360	109,584	109,808	109,868	110,065	110,262	110,458	110,655				
95,928	96,376	96,823	97,271	97,719	98,166	98,613	99,061	99,509	99,956	100,404	100,852	101,299	101,746	102,194	102,642	103,089	103,537	103,984	104,432				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE  
GAUGE POINT: (MMC) LOCATED 1'-00" OFF CENTERLINE AND 28'-06" FORWARD OF AFT BULKHEAD

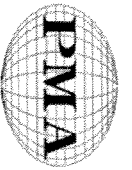
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "DBL 104"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
0	95,705	0	84,963	0	74,219	0	63,473	0	52,728	0	42,087	0	31,352	0	20,612	0	10,109	0	117
1/4	95,481	1/4	84,740	1/4	73,995	1/4	63,230	1/4	52,504	1/4	41,866	1/4	31,129	1/4	20,388	1/4	9,885	1/4	72
1/2	95,257	1/2	84,516	1/2	73,771	1/2	63,026	1/2	52,280	1/2	41,645	1/2	30,905	1/2	20,164	1/2	9,661	1/2	27
3/4	95,033	3/4	84,292	3/4	73,547	3/4	62,802	3/4	52,056	3/4	41,422	3/4	30,681	3/4	19,940	3/4	9,438	3/4	
1	94,809	1	84,068	1	73,323	1	62,578	1	51,833	1	41,198	1	30,457	1	19,716	1	9,214	1	
1/4	94,586	1/4	83,845	1/4	73,100	1/4	62,354	1/4	51,609	1/4	40,974	1/4	30,233	1/4	19,493	1/4	8,990	1/4	
1/2	94,362	1/2	83,621	1/2	72,876	1/2	62,130	1/2	51,385	1/2	40,750	1/2	30,010	1/2	19,269	1/2	8,766	1/2	
3/4	94,138	3/4	83,397	3/4	72,652	3/4	61,906	3/4	51,161	3/4	40,527	3/4	29,786	3/4	19,051	3/4	8,542	3/4	
2	93,914	2	83,173	2	72,428	2	61,683	2	50,937	2	40,303	2	29,562	2	18,833	2	8,319	2	
1/4	93,691	1/4	82,950	1/4	72,204	1/4	61,459	1/4	50,713	1/4	40,079	1/4	29,338	1/4	18,616	1/4	8,095	1/4	
1/2	93,467	1/2	82,726	1/2	71,980	1/2	61,235	1/2	50,489	1/2	39,855	1/2	29,115	1/2	18,398	1/2	7,871	1/2	
3/4	93,243	3/4	82,502	3/4	71,756	3/4	61,011	3/4	50,267	3/4	39,632	3/4	28,891	3/4	18,180	3/4	7,647	3/4	
3	93,019	3	82,278	3	71,533	3	60,787	3	50,045	3	39,408	3	28,667	3	17,962	3	7,423	3	
1/4	92,796	1/4	82,054	1/4	71,309	1/4	60,563	1/4	49,823	1/4	39,184	1/4	28,443	1/4	17,744	1/4	7,200	1/4	
1/2	92,572	1/2	81,830	1/2	71,085	1/2	60,339	1/2	49,600	1/2	38,960	1/2	28,220	1/2	17,526	1/2	6,976	1/2	
3/4	92,348	3/4	81,606	3/4	70,861	3/4	60,116	3/4	49,378	3/4	38,737	3/4	27,996	3/4	17,309	3/4	6,752	3/4	
4	92,124	4	81,383	4	70,637	4	59,892	4	49,156	4	38,513	4	27,772	4	17,091	4	6,528	4	
1/4	91,900	1/4	81,159	1/4	70,413	1/4	59,668	1/4	48,933	1/4	38,289	1/4	27,548	1/4	16,873	1/4	6,305	1/4	
1/2	91,677	1/2	80,935	1/2	70,189	1/2	59,444	1/2	48,711	1/2	38,065	1/2	27,324	1/2	16,655	1/2	6,081	1/2	
3/4	91,453	3/4	80,711	3/4	69,966	3/4	59,220	3/4	48,490	3/4	37,841	3/4	27,101	3/4	16,437	3/4	5,857	3/4	
5	91,229	5	80,487	5	69,742	5	58,996	5	48,269	5	37,618	5	26,877	5	16,220	5	5,633	5	
1/4	91,005	1/4	80,263	1/4	69,518	1/4	58,772	1/4	48,049	1/4	37,394	1/4	26,653	1/4	16,002	1/4	5,409	1/4	
1/2	90,782	1/2	80,039	1/2	69,294	1/2	58,548	1/2	47,828	1/2	37,170	1/2	26,429	1/2	15,784	1/2	5,185	1/2	
3/4	90,558	3/4	79,816	3/4	69,070	3/4	58,325	3/4	47,607	3/4	36,946	3/4	26,206	3/4	15,566	3/4	4,961	3/4	
6	90,334	6	79,592	6	68,846	6	58,101	6	47,386	6	36,723	6	25,982	6	15,348	6	4,737	6	
1/4	90,110	1/4	79,368	1/4	68,622	1/4	57,877	1/4	47,165	1/4	36,499	1/4	25,758	1/4	15,131	1/4	4,513	1/4	
1/2	89,886	1/2	79,144	1/2	68,398	1/2	57,653	1/2	46,945	1/2	36,275	1/2	25,534	1/2	14,913	1/2	4,289	1/2	
3/4	89,663	3/4	78,920	3/4	68,175	3/4	57,429	3/4	46,724	3/4	36,051	3/4	25,311	3/4	14,695	3/4	4,066	3/4	
7	89,439	7	78,696	7	67,951	7	57,205	7	46,503	7	35,828	7	25,087	7	14,477	7	3,842	7	
1/4	89,215	1/4	78,472	1/4	67,727	1/4	56,981	1/4	46,282	1/4	35,604	1/4	24,863	1/4	14,259	1/4	3,618	1/4	
1/2	88,991	1/2	78,248	1/2	67,503	1/2	56,758	1/2	46,061	1/2	35,380	1/2	24,639	1/2	14,041	1/2	3,394	1/2	
3/4	88,768	3/4	78,025	3/4	67,279	3/4	56,534	3/4	45,841	3/4	35,156	3/4	24,416	3/4	13,824	3/4	3,169	3/4	
8	88,544	8	77,801	8	67,055	8	56,310	8	45,620	8	34,933	8	24,192	8	13,606	8	2,945	8	
1/4	88,320	1/4	77,577	1/4	66,831	1/4	56,086	1/4	45,399	1/4	34,709	1/4	23,968	1/4	13,388	1/4	2,720	1/4	
1/2	88,096	1/2	77,353	1/2	66,608	1/2	55,862	1/2	45,178	1/2	34,485	1/2	23,744	1/2	13,170	1/2	2,496	1/2	
3/4	87,873	3/4	77,129	3/4	66,384	3/4	55,638	3/4	44,957	3/4	34,261	3/4	23,520	3/4	12,953	3/4	2,272	3/4	
9	87,649	9	76,905	9	66,160	9	55,414	9	44,737	9	34,037	9	23,297	9	12,735	9	2,047	9	
1/4	87,425	1/4	76,681	1/4	65,936	1/4	55,191	1/4	44,516	1/4	33,814	1/4	23,073	1/4	12,517	1/4	1,823	1/4	
1/2	87,201	1/2	76,458	1/2	65,712	1/2	54,967	1/2	44,295	1/2	33,590	1/2	22,849	1/2	12,300	1/2	1,598	1/2	
3/4	86,977	3/4	76,234	3/4	65,488	3/4	54,743	3/4	44,074	3/4	33,366	3/4	22,625	3/4	12,082	3/4	1,385	3/4	
10	86,754	10	76,010	10	65,264	10	54,519	10	43,853	10	33,142	10	22,402	10	11,864	10	1,172	10	
1/4	86,530	1/4	75,786	1/4	65,040	1/4	54,295	1/4	43,633	1/4	32,919	1/4	22,178	1/4	11,646	1/4	959	1/4	
1/2	86,306	1/2	75,562	1/2	64,817	1/2	54,071	1/2	43,412	1/2	32,695	1/2	21,954	1/2	11,428	1/2	745	1/2	
3/4	86,082	3/4	75,338	3/4	64,593	3/4	53,847	3/4	43,191	3/4	32,471	3/4	21,730	3/4	11,210	3/4	611	3/4	
11	85,859	11	75,114	11	64,369	11	53,623	11	42,970	11	32,247	11	21,507	11	10,992	11	476	11	
1/4	85,635	1/4	74,891	1/4	64,145	1/4	53,400	1/4	42,749	1/4	32,024	1/4	21,283	1/4	10,774	1/4	341	1/4	
1/2	85,411	1/2	74,667	1/2	63,921	1/2	53,176	1/2	42,529	1/2	31,800	1/2	21,059	1/2	10,556	1/2	207	1/2	
3/4	85,187	3/4	74,443	3/4	63,697	3/4	52,952	3/4	42,308	3/4	31,576	3/4	20,835	3/4	10,333	3/4	162	3/4	

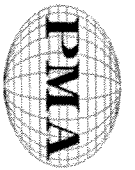
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 CALCULATED: 05/22/2014 CL  
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 CANCEL AND SUPERCEDES  
 ALL PRIOR TO 05/22/2014

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







# BARGE "DBL 104"

## 2 CENTER ULLAGE TABLE

GAUGE HEIGHT 19'-00"

CAPACITIES GIVEN IN WHOLE U.S. GALLONS		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	FR	IN	FR	IN	FR	IN	FR	IN	FR	IN	FR	IN	FR	IN	FR	IN	FR	IN	FR
0	106,916	0	94,869	0	82,816	0	70,763	0	58,710	0	46,657	0	34,604	0	22,551	0	10,822	0	27
1/4	106,665	1/4	94,618	1/4	82,565	1/4	70,512	1/4	58,459	1/4	46,406	1/4	34,353	1/4	22,299	1/4	10,572	1/4	
1/2	106,414	1/2	94,367	1/2	82,314	1/2	70,261	1/2	58,208	1/2	46,155	1/2	34,101	1/2	22,048	1/2	10,321	1/2	
3/4	106,163	3/4	94,116	3/4	82,063	3/4	70,010	3/4	57,957	3/4	45,904	3/4	33,850	3/4	21,797	3/4	10,070	3/4	
1	105,912	1	93,865	1	81,812	1	69,759	1	57,706	1	45,652	1	33,599	1	21,546	1	9,819	1	
1/4	105,661	1/4	93,614	1/4	81,561	1/4	69,508	1/4	57,455	1/4	45,401	1/4	33,348	1/4	21,300	1/4	9,568	1/4	
1/2	105,410	1/2	93,363	1/2	81,310	1/2	69,257	1/2	57,203	1/2	45,150	1/2	33,097	1/2	21,050	1/2	9,317	1/2	
3/4	105,159	3/4	93,112	3/4	81,059	3/4	69,005	3/4	56,952	3/4	44,899	3/4	32,846	3/4	20,817	3/4	9,066	3/4	
2	104,908	2	92,861	2	80,808	2	68,754	2	56,701	2	44,648	2	32,595	2	20,574	2	8,815	2	
1/4	104,657	1/4	92,610	1/4	80,556	1/4	68,503	1/4	56,450	1/4	44,397	1/4	32,344	1/4	20,332	1/4	8,564	1/4	
1/2	104,406	1/2	92,358	1/2	80,305	1/2	68,252	1/2	56,199	1/2	44,146	1/2	32,093	1/2	20,089	1/2	8,313	1/2	
3/4	104,155	3/4	92,107	3/4	80,054	3/4	68,001	3/4	55,948	3/4	43,895	3/4	31,842	3/4	19,846	3/4	8,062	3/4	
3	103,904	3	91,856	3	79,803	3	67,750	3	55,697	3	43,644	3	31,590	3	19,603	3	7,811	3	
1/4	103,653	1/4	91,605	1/4	79,552	1/4	67,499	1/4	55,446	1/4	43,392	1/4	31,339	1/4	19,350	1/4	7,560	1/4	
1/2	103,402	1/2	91,354	1/2	79,301	1/2	67,248	1/2	55,195	1/2	43,141	1/2	31,088	1/2	19,117	1/2	7,309	1/2	
3/4	103,151	3/4	91,103	3/4	79,050	3/4	66,997	3/4	54,943	3/4	42,890	3/4	30,837	3/4	18,874	3/4	7,058	3/4	
4	102,900	4	90,852	4	78,799	4	66,745	4	54,692	4	42,639	4	30,586	4	18,631	4	6,807	4	
1/4	102,649	1/4	90,601	1/4	78,548	1/4	66,494	1/4	54,441	1/4	42,388	1/4	30,335	1/4	18,388	1/4	6,556	1/4	
1/2	102,398	1/2	90,350	1/2	78,296	1/2	66,243	1/2	54,190	1/2	42,137	1/2	30,084	1/2	18,145	1/2	6,305	1/2	
3/4	102,147	3/4	90,099	3/4	78,045	3/4	65,992	3/4	53,939	3/4	41,886	3/4	29,833	3/4	17,903	3/4	6,054	3/4	
5	101,896	5	89,847	5	77,794	5	65,741	5	53,688	5	41,635	5	29,582	5	17,660	5	5,803	5	
1/4	101,645	1/4	89,596	1/4	77,543	1/4	65,490	1/4	53,437	1/4	41,384	1/4	29,330	1/4	17,417	1/4	5,552	1/4	
1/2	101,394	1/2	89,344	1/2	77,292	1/2	65,239	1/2	53,186	1/2	41,132	1/2	29,079	1/2	17,174	1/2	5,301	1/2	
3/4	101,143	3/4	89,094	3/4	77,041	3/4	64,988	3/4	52,935	3/4	40,881	3/4	28,828	3/4	16,931	3/4	5,050	3/4	
6	100,892	6	88,843	6	76,790	6	64,737	6	52,683	6	40,630	6	28,577	6	16,688	6	4,798	6	
1/4	100,641	1/4	88,592	1/4	76,539	1/4	64,486	1/4	52,432	1/4	40,379	1/4	28,326	1/4	16,445	1/4	4,547	1/4	
1/2	100,390	1/2	88,341	1/2	76,288	1/2	64,234	1/2	52,181	1/2	40,128	1/2	28,075	1/2	16,202	1/2	4,296	1/2	
3/4	100,139	3/4	88,090	3/4	76,036	3/4	63,983	3/4	51,930	3/4	39,877	3/4	27,824	3/4	15,959	3/4	4,045	3/4	
7	99,888	7	87,839	7	75,785	7	63,732	7	51,679	7	39,626	7	27,573	7	15,716	7	3,794	7	
1/4	99,637	1/4	87,587	1/4	75,534	1/4	63,481	1/4	51,428	1/4	39,375	1/4	27,322	1/4	15,473	1/4	3,543	1/4	
1/2	99,386	1/2	87,336	1/2	75,283	1/2	63,230	1/2	51,177	1/2	39,124	1/2	27,070	1/2	15,231	1/2	3,292	1/2	
3/4	99,135	3/4	87,085	3/4	75,032	3/4	62,979	3/4	50,926	3/4	38,873	3/4	26,819	3/4	14,988	3/4	3,041	3/4	
8	98,884	8	86,834	8	74,781	8	62,728	8	50,675	8	38,621	8	26,568	8	14,745	8	2,790	8	
1/4	98,633	1/4	86,583	1/4	74,530	1/4	62,477	1/4	50,423	1/4	38,370	1/4	26,317	1/4	14,502	1/4	2,539	1/4	
1/2	98,382	1/2	86,332	1/2	74,279	1/2	62,226	1/2	50,172	1/2	38,119	1/2	26,066	1/2	14,259	1/2	2,287	1/2	
3/4	98,131	3/4	86,081	3/4	74,028	3/4	61,974	3/4	49,921	3/4	37,868	3/4	25,815	3/4	14,016	3/4	2,036	3/4	
9	97,880	9	85,830	9	73,777	9	61,723	9	49,670	9	37,617	9	25,564	9	13,774	9	1,785	9	
1/4	97,629	1/4	85,579	1/4	73,525	1/4	61,472	1/4	49,419	1/4	37,366	1/4	25,313	1/4	13,530	1/4	1,547	1/4	
1/2	97,378	1/2	85,327	1/2	73,274	1/2	61,221	1/2	49,168	1/2	37,115	1/2	25,062	1/2	13,287	1/2	1,308	1/2	
3/4	97,127	3/4	85,076	3/4	73,023	3/4	60,970	3/4	48,917	3/4	36,864	3/4	24,810	3/4	13,043	3/4	1,069	3/4	
10	96,876	10	84,825	10	72,772	10	60,719	10	48,666	10	36,613	10	24,559	10	12,800	10	831	10	
1/4	96,626	1/4	84,574	1/4	72,521	1/4	60,468	1/4	48,415	1/4	36,361	1/4	24,308	1/4	12,557	1/4	680	1/4	
1/2	96,375	1/2	84,323	1/2	72,270	1/2	60,217	1/2	48,164	1/2	36,110	1/2	24,057	1/2	12,313	1/2	529	1/2	
3/4	96,124	3/4	84,072	3/4	72,019	3/4	59,966	3/4	47,912	3/4	35,859	3/4	23,806	3/4	12,070	3/4	379	3/4	
11	95,873	11	83,821	11	71,768	11	59,714	11	47,661	11	35,608	11	23,555	11	11,826	11	228	11	
1/4	95,622	1/4	83,570	1/4	71,517	1/4	59,463	1/4	47,410	1/4	35,357	1/4	23,304	1/4	11,575	1/4	178	1/4	
1/2	95,371	1/2	83,319	1/2	71,265	1/2	59,212	1/2	47,159	1/2	35,106	1/2	23,053	1/2	11,324	1/2	128	1/2	
3/4	95,120	3/4	83,068	3/4	71,014	3/4	58,961	3/4	46,908	3/4	34,855	3/4	22,802	3/4	11,073	3/4	77	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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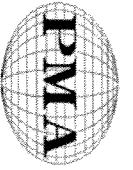
CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2014

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmaacorp.net







# BARGE "DBL 104"

3 CENTER  
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	94,335	0	83,736	0	73,132	0	62,527	0	51,923	0	41,318	0	30,714	0	20,109	0	9,527	0	27
1/4	94,115	1/4	83,515	1/4	72,911	1/4	62,307	1/4	51,702	1/4	41,097	1/4	30,493	1/4	19,888	1/4	9,306	1/4	
1/2	93,894	1/2	83,294	1/2	72,690	1/2	62,086	1/2	51,481	1/2	40,876	1/2	30,272	1/2	19,668	1/2	9,085	1/2	
3/4	93,673	3/4	83,073	3/4	72,469	3/4	61,865	3/4	51,260	3/4	40,655	3/4	30,051	3/4	19,447	3/4	8,864	3/4	
1	93,452	1	82,853	1	72,248	1	61,644	1	51,039	1	40,434	1	29,830	1	19,227	1	8,643	1	
1 1/4	93,231	1 1/4	82,632	1 1/4	72,027	1 1/4	61,423	1 1/4	50,818	1 1/4	40,214	1 1/4	29,609	1 1/4	19,006	1 1/4	8,422	1 1/4	
1 1/2	93,010	1 1/2	82,411	1 1/2	71,807	1 1/2	61,202	1 1/2	50,597	1 1/2	39,993	1 1/2	29,388	1 1/2	18,786	1 1/2	8,202	1 1/2	
3/4	92,790	3/4	82,190	3/4	71,586	3/4	60,981	3/4	50,376	3/4	39,772	3/4	29,167	3/4	18,566	3/4	7,981	3/4	
2	92,569	2	81,969	2	71,365	2	60,760	2	50,155	2	39,551	2	28,946	2	18,345	2	7,760	2	
1 1/4	92,348	1 1/4	81,748	1 1/4	71,144	1 1/4	60,539	1 1/4	49,934	1 1/4	39,330	1 1/4	28,725	1 1/4	18,125	1 1/4	7,539	1 1/4	
1 1/2	92,127	1 1/2	81,527	1 1/2	70,923	1 1/2	60,318	1 1/2	49,714	1 1/2	39,109	1 1/2	28,504	1 1/2	17,905	1 1/2	7,318	1 1/2	
3/4	91,906	3/4	81,306	3/4	70,702	3/4	60,097	3/4	49,493	3/4	38,888	3/4	28,283	3/4	17,684	3/4	7,097	3/4	
3	91,686	3	81,086	3	70,481	3	59,876	3	49,272	3	38,667	3	28,062	3	17,464	3	6,876	3	
1 1/4	91,465	1 1/4	80,865	1 1/4	70,260	1 1/4	59,655	1 1/4	49,051	1 1/4	38,446	1 1/4	27,841	1 1/4	17,244	1 1/4	6,655	1 1/4	
1 1/2	91,244	1 1/2	80,644	1 1/2	70,039	1 1/2	59,434	1 1/2	48,830	1 1/2	38,225	1 1/2	27,621	1 1/2	17,024	1 1/2	6,434	1 1/2	
3/4	91,023	3/4	80,423	3/4	69,818	3/4	59,213	3/4	48,609	3/4	38,004	3/4	27,400	3/4	16,803	3/4	6,213	3/4	
4	90,802	4	80,202	4	69,597	4	58,993	4	48,388	4	37,783	4	27,179	4	16,583	4	5,992	4	
1 1/4	90,581	1 1/4	79,981	1 1/4	69,376	1 1/4	58,772	1 1/4	48,167	1 1/4	37,562	1 1/4	26,958	1 1/4	16,363	1 1/4	5,771	1 1/4	
1 1/2	90,361	1 1/2	79,760	1 1/2	69,155	1 1/2	58,551	1 1/2	47,946	1 1/2	37,341	1 1/2	26,737	1 1/2	16,142	1 1/2	5,551	1 1/2	
3/4	90,140	3/4	79,539	3/4	68,934	3/4	58,330	3/4	47,725	3/4	37,121	3/4	26,516	3/4	15,922	3/4	5,330	3/4	
5	89,919	5	79,318	5	68,713	5	58,109	5	47,504	5	36,900	5	26,295	5	15,702	5	5,109	5	
1 1/4	89,698	1 1/4	79,097	1 1/4	68,493	1 1/4	57,888	1 1/4	47,283	1 1/4	36,679	1 1/4	26,074	1 1/4	15,481	1 1/4	4,888	1 1/4	
1 1/2	89,477	1 1/2	78,876	1 1/2	68,272	1 1/2	57,667	1 1/2	47,062	1 1/2	36,458	1 1/2	25,853	1 1/2	15,261	1 1/2	4,667	1 1/2	
3/4	89,256	3/4	78,655	3/4	68,051	3/4	57,446	3/4	46,841	3/4	36,237	3/4	25,632	3/4	15,041	3/4	4,446	3/4	
6	89,036	6	78,434	6	67,830	6	57,225	6	46,620	6	36,016	6	25,411	6	14,820	6	4,225	6	
1 1/4	88,815	1 1/4	78,213	1 1/4	67,609	1 1/4	57,004	1 1/4	46,400	1 1/4	35,795	1 1/4	25,190	1 1/4	14,600	1 1/4	4,004	1 1/4	
1 1/2	88,594	1 1/2	77,993	1 1/2	67,388	1 1/2	56,783	1 1/2	46,179	1 1/2	35,574	1 1/2	24,969	1 1/2	14,380	1 1/2	3,783	1 1/2	
3/4	88,373	3/4	77,772	3/4	67,167	3/4	56,562	3/4	45,958	3/4	35,353	3/4	24,748	3/4	14,159	3/4	3,562	3/4	
7	88,152	7	77,551	7	66,946	7	56,341	7	45,737	7	35,132	7	24,528	7	13,939	7	3,341	7	
1 1/4	87,932	1 1/4	77,330	1 1/4	66,725	1 1/4	56,120	1 1/4	45,516	1 1/4	34,911	1 1/4	24,307	1 1/4	13,719	1 1/4	3,120	1 1/4	
1 1/2	87,711	1 1/2	77,109	1 1/2	66,504	1 1/2	55,900	1 1/2	45,295	1 1/2	34,690	1 1/2	24,086	1 1/2	13,499	1 1/2	2,899	1 1/2	
3/4	87,490	3/4	76,888	3/4	66,283	3/4	55,679	3/4	45,074	3/4	34,469	3/4	23,865	3/4	13,278	3/4	2,679	3/4	
8	87,269	8	76,667	8	66,062	8	55,458	8	44,853	8	34,248	8	23,644	8	13,058	8	2,458	8	
1 1/4	87,048	1 1/4	76,446	1 1/4	65,841	1 1/4	55,237	1 1/4	44,632	1 1/4	34,027	1 1/4	23,423	1 1/4	12,838	1 1/4	2,237	1 1/4	
1 1/2	86,827	1 1/2	76,225	1 1/2	65,620	1 1/2	55,016	1 1/2	44,411	1 1/2	33,807	1 1/2	23,202	1 1/2	12,617	1 1/2	2,016	1 1/2	
3/4	86,607	3/4	76,004	3/4	65,400	3/4	54,795	3/4	44,190	3/4	33,586	3/4	22,981	3/4	12,397	3/4	1,795	3/4	
9	86,386	9	75,783	9	65,179	9	54,574	9	43,969	9	33,365	9	22,760	9	12,177	9	1,574	9	
1 1/4	86,165	1 1/4	75,562	1 1/4	64,958	1 1/4	54,353	1 1/4	43,748	1 1/4	33,144	1 1/4	22,539	1 1/4	11,956	1 1/4	1,364	1 1/4	
1 1/2	85,944	1 1/2	75,341	1 1/2	64,737	1 1/2	54,132	1 1/2	43,527	1 1/2	32,923	1 1/2	22,318	1 1/2	11,736	1 1/2	1,154	1 1/2	
3/4	85,723	3/4	75,120	3/4	64,516	3/4	53,911	3/4	43,307	3/4	32,702	3/4	22,097	3/4	11,515	3/4	944	3/4	
10	85,502	10	74,900	10	64,295	10	53,690	10	43,086	10	32,481	10	21,876	10	11,294	10	734	10	
1 1/4	85,282	1 1/4	74,679	1 1/4	64,074	1 1/4	53,469	1 1/4	42,865	1 1/4	32,260	1 1/4	21,655	1 1/4	11,074	1 1/4	602	1 1/4	
1 1/2	85,061	1 1/2	74,458	1 1/2	63,853	1 1/2	53,248	1 1/2	42,644	1 1/2	32,039	1 1/2	21,434	1 1/2	10,853	1 1/2	489	1 1/2	
3/4	84,840	3/4	74,237	3/4	63,632	3/4	53,027	3/4	42,423	3/4	31,818	3/4	21,214	3/4	10,632	3/4	366	3/4	
11	84,619	11	74,016	11	63,411	11	52,807	11	42,202	11	31,597	11	20,993	11	10,411	11	244	11	
1 1/4	84,398	1 1/4	73,795	1 1/4	63,190	1 1/4	52,586	1 1/4	41,981	1 1/4	31,376	1 1/4	20,772	1 1/4	10,190	1 1/4	160	1 1/4	
1 1/2	84,178	1 1/2	73,574	1 1/2	62,969	1 1/2	52,365	1 1/2	41,760	1 1/2	31,155	1 1/2	20,551	1 1/2	9,969	1 1/2	116	1 1/2	
3/4	83,957	3/4	73,353	3/4	62,748	3/4	52,144	3/4	41,539	3/4	30,934	3/4	20,330	3/4	9,748	3/4	71	3/4	

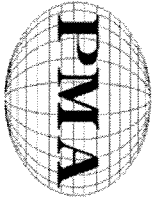
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/22/2014 CL  
CALCULATED: 05/22/2014 CL  
PRINTED: 05/22/2014 CL

PRECISION MEASUREMENT  
& ANALYSIS, INC.

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2014

P.O. Box 2092  
Pearland, Texas 77588  
http://www.pmaacorp.net



# BARGE "DBL 104"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 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	- 00-3/8	00-3/8
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 00-1/4"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 162'-03"

May 22, 2014

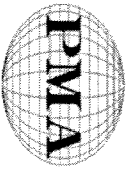
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "DBL 104"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS												GAUGE HEIGHT 19'-00 1/2"											
0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.					
N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I	N	I				
0	27	0	0	9,661	0	20,164	0	30,905	0	41,645	0	52,280	0	63,026	0	73,771	0	84,516	0				
1/4	9,885	1/4	1/4	9,885	1/4	20,388	1/4	31,129	1/4	41,866	1/4	52,504	1/4	63,250	1/4	73,995	1/4	84,740	1/4				
1/2	117	1/2	1/2	10,109	1/2	20,612	1/2	31,352	1/2	42,087	1/2	52,728	1/2	63,473	1/2	74,219	1/2	84,963	1/2				
3/4	162	3/4	3/4	10,333	3/4	20,835	3/4	31,576	3/4	42,308	3/4	52,952	3/4	63,697	3/4	74,443	3/4	85,187	3/4				
1	207	1	1	10,556	1	21,059	1	31,800	1	42,529	1	53,176	1	63,921	1	74,667	1	85,411	1				
1/4	341	1/4	1/4	10,774	1/4	21,283	1/4	32,024	1/4	42,749	1/4	53,400	1/4	64,145	1/4	74,891	1/4	85,635	1/4				
1/2	476	1/2	1/2	10,992	1/2	21,507	1/2	32,247	1/2	42,970	1/2	53,623	1/2	64,368	1/2	75,114	1/2	85,859	1/2				
3/4	611	3/4	3/4	11,210	3/4	21,730	3/4	32,471	3/4	43,191	3/4	53,847	3/4	64,593	3/4	75,338	3/4	86,082	3/4				
2	745	2	2	11,428	2	21,954	2	32,695	2	43,412	2	54,071	2	64,817	2	75,562	2	86,306	2				
1/4	959	1/4	1/4	11,646	1/4	22,178	1/4	32,919	1/4	43,633	1/4	54,295	1/4	65,041	1/4	75,786	1/4	86,530	1/4				
1/2	1,172	1/2	1/2	11,864	1/2	22,402	1/2	33,142	1/2	43,853	1/2	54,519	1/2	65,264	1/2	76,010	1/2	86,754	1/2				
3/4	1,385	3/4	3/4	12,082	3/4	22,625	3/4	33,366	3/4	44,074	3/4	54,743	3/4	65,488	3/4	76,234	3/4	86,977	3/4				
3	1,598	3	3	12,300	3	22,849	3	33,590	3	44,295	3	54,967	3	65,712	3	76,458	3	87,201	3				
1/4	1,823	1/4	1/4	12,517	1/4	23,073	1/4	33,814	1/4	44,516	1/4	55,191	1/4	65,936	1/4	76,681	1/4	87,425	1/4				
1/2	2,047	1/2	1/2	12,735	1/2	23,297	1/2	34,037	1/2	44,737	1/2	55,414	1/2	66,160	1/2	76,905	1/2	87,649	1/2				
3/4	2,272	3/4	3/4	12,953	3/4	23,520	3/4	34,261	3/4	44,957	3/4	55,638	3/4	66,384	3/4	77,129	3/4	87,873	3/4				
4	2,496	4	4	13,170	4	23,744	4	34,485	4	45,178	4	55,862	4	66,608	4	77,353	4	88,096	4				
1/4	2,720	1/4	1/4	13,388	1/4	23,968	1/4	34,709	1/4	45,399	1/4	56,086	1/4	66,831	1/4	77,577	1/4	88,320	1/4				
1/2	2,945	1/2	1/2	13,606	1/2	24,192	1/2	34,933	1/2	45,620	1/2	56,310	1/2	67,055	1/2	77,801	1/2	88,544	1/2				
3/4	3,169	3/4	3/4	13,824	3/4	24,416	3/4	35,156	3/4	45,841	3/4	56,534	3/4	67,279	3/4	78,025	3/4	88,768	3/4				
5	3,394	5	5	14,041	5	24,639	5	35,380	5	46,061	5	56,758	5	67,503	5	78,248	5	88,991	5				
1/4	3,618	1/4	1/4	14,259	1/4	24,863	1/4	35,604	1/4	46,282	1/4	56,981	1/4	67,727	1/4	78,472	1/4	89,215	1/4				
1/2	3,842	1/2	1/2	14,477	1/2	25,087	1/2	35,828	1/2	46,503	1/2	57,205	1/2	67,951	1/2	78,696	1/2	89,439	1/2				
3/4	4,066	3/4	3/4	14,695	3/4	25,311	3/4	36,051	3/4	46,724	3/4	57,429	3/4	68,175	3/4	78,920	3/4	89,663	3/4				
6	4,289	6	6	14,913	6	25,534	6	36,275	6	46,945	6	57,653	6	68,398	6	79,144	6	89,886	6				
1/4	4,513	1/4	1/4	15,131	1/4	25,758	1/4	36,499	1/4	47,165	1/4	57,877	1/4	68,622	1/4	79,368	1/4	90,110	1/4				
1/2	4,737	1/2	1/2	15,348	1/2	25,982	1/2	36,723	1/2	47,386	1/2	58,101	1/2	68,846	1/2	79,592	1/2	90,334	1/2				
3/4	4,961	3/4	3/4	15,566	3/4	26,206	3/4	36,946	3/4	47,607	3/4	58,325	3/4	69,070	3/4	79,816	3/4	90,558	3/4				
7	5,185	7	7	15,784	7	26,429	7	37,170	7	47,828	7	58,548	7	69,294	7	80,039	7	90,782	7				
1/4	5,409	1/4	1/4	16,002	1/4	26,653	1/4	37,394	1/4	48,049	1/4	58,772	1/4	69,518	1/4	80,263	1/4	91,005	1/4				
1/2	5,633	1/2	1/2	16,220	1/2	26,877	1/2	37,618	1/2	48,269	1/2	58,996	1/2	69,742	1/2	80,487	1/2	91,229	1/2				
3/4	5,857	3/4	3/4	16,437	3/4	27,101	3/4	37,841	3/4	48,490	3/4	59,220	3/4	69,966	3/4	80,711	3/4	91,453	3/4				
8	6,081	8	8	16,655	8	27,324	8	38,065	8	48,711	8	59,444	8	70,189	8	80,935	8	91,677	8				
1/4	6,305	1/4	1/4	16,873	1/4	27,548	1/4	38,289	1/4	48,933	1/4	59,668	1/4	70,413	1/4	81,159	1/4	91,900	1/4				
1/2	6,528	1/2	1/2	17,091	1/2	27,772	1/2	38,513	1/2	49,156	1/2	59,892	1/2	70,637	1/2	81,383	1/2	92,124	1/2				
3/4	6,752	3/4	3/4	17,309	3/4	27,996	3/4	38,737	3/4	49,378	3/4	60,116	3/4	70,861	3/4	81,606	3/4	92,348	3/4				
9	6,976	9	9	17,526	9	28,220	9	38,960	9	49,600	9	60,339	9	71,085	9	81,830	9	92,572	9				
1/4	7,200	1/4	1/4	17,744	1/4	28,443	1/4	39,184	1/4	49,823	1/4	60,563	1/4	71,309	1/4	82,054	1/4	92,796	1/4				
1/2	7,423	1/2	1/2	17,962	1/2	28,667	1/2	39,408	1/2	50,045	1/2	60,787	1/2	71,533	1/2	82,278	1/2	93,019	1/2				
3/4	7,647	3/4	3/4	18,180	3/4	28,891	3/4	39,632	3/4	50,267	3/4	61,011	3/4	71,756	3/4	82,502	3/4	93,243	3/4				
10	7,871	10	10	18,398	10	29,115	10	39,855	10	50,489	10	61,235	10	71,980	10	82,726	10	93,467	10				
1/4	8,095	1/4	1/4	18,616	1/4	29,338	1/4	40,079	1/4	50,713	1/4	61,459	1/4	72,204	1/4	82,950	1/4	93,691	1/4				
1/2	8,319	1/2	1/2	18,833	1/2	29,562	1/2	40,303	1/2	50,937	1/2	61,683	1/2	72,428	1/2	83,173	1/2	93,914	1/2				
3/4	8,542	3/4	3/4	19,051	3/4	29,786	3/4	40,527	3/4	51,161	3/4	61,906	3/4	72,652	3/4	83,397	3/4	94,138	3/4				
11	8,766	11	11	19,269	11	30,010	11	40,750	11	51,385	11	62,130	11	72,876	11	83,621	11	94,362	11				
1/4	8,990	1/4	1/4	19,483	1/4	30,233	1/4	40,974	1/4	51,609	1/4	62,354	1/4	73,100	1/4	83,845	1/4	94,586	1/4				
1/2	9,214	1/2	1/2	19,716	1/2	30,457	1/2	41,198	1/2	51,833	1/2	62,578	1/2	73,323	1/2	84,068	1/2	94,809	1/2				
3/4	9,438	3/4	3/4	19,940	3/4	30,681	3/4	41,422	3/4	52,056	3/4	62,802	3/4	73,547	3/4	84,292	3/4	95,033	3/4				

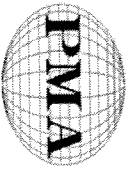
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 TOP OF THREADS ON "MMC" VALVE  
GAUGE POINT: (MMC) LOCATED 1'-00" OFF CENTERLINE AND 28'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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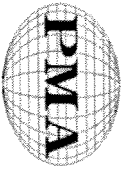


# BARGE "DBL 104"

## 2 CENTER INNAGE TABLE

GAUGE HEIGHT 19'-00"

CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS		CAPACITIES GIVEN IN WHOLE U.S. GALLONS			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1/4	77	1/4	11,073	1/4	22,802	1/4	34,855	1/4	46,908	1/4	58,961	1/4	71,014	1/4	83,067	1/4	95,120	1/4	107,173	1/4	119,226	1/4	131,279	1/4	143,332
1/2	128	1/2	11,324	1/2	23,053	1/2	35,106	1/2	47,159	1/2	59,212	1/2	71,265	1/2	83,319	1/2	95,372	1/2	107,425	1/2	119,478	1/2	131,531	1/2	143,584
3/4	178	3/4	11,575	3/4	23,304	3/4	35,357	3/4	47,410	3/4	59,463	3/4	71,516	3/4	83,569	3/4	95,622	3/4	107,675	3/4	119,728	3/4	131,781	3/4	143,834
1	228	1	11,826	1	23,555	1	35,608	1	47,661	1	59,714	1	71,767	1	83,820	1	95,873	1	107,926	1	119,979	1	132,032	1	144,085
1/4	379	1/4	12,070	1/4	23,806	1/4	35,861	1/4	47,914	1/4	59,967	1/4	72,020	1/4	84,073	1/4	96,126	1/4	108,179	1/4	120,232	1/4	132,285	1/4	144,338
1/2	529	1/2	12,313	1/2	24,057	1/2	36,110	1/2	48,164	1/2	60,217	1/2	72,270	1/2	84,323	1/2	96,376	1/2	108,429	1/2	120,482	1/2	132,535	1/2	144,588
3/4	680	3/4	12,557	3/4	24,308	3/4	36,351	3/4	48,415	3/4	60,468	3/4	72,521	3/4	84,574	3/4	96,627	3/4	108,680	3/4	120,733	3/4	132,786	3/4	144,839
1	831	1	12,800	1	24,559	1	36,613	1	48,666	1	60,719	1	72,772	1	84,825	1	96,878	1	108,931	1	120,984	1	133,037	1	145,090
1/4	1,089	1/4	13,043	1/4	24,810	1/4	36,864	1/4	48,917	1/4	60,970	1/4	73,023	1/4	85,076	1/4	97,129	1/4	109,182	1/4	121,235	1/4	133,288	1/4	145,341
1/2	1,308	1/2	13,287	1/2	25,062	1/2	37,115	1/2	49,168	1/2	61,221	1/2	73,274	1/2	85,327	1/2	97,380	1/2	109,435	1/2	121,488	1/2	133,541	1/2	145,594
3/4	1,547	3/4	13,530	3/4	25,313	3/4	37,366	3/4	49,419	3/4	61,472	3/4	73,525	3/4	85,579	3/4	97,632	3/4	109,688	3/4	121,741	3/4	133,794	3/4	145,847
1	1,785	1	13,774	1	25,564	1	37,617	1	49,670	1	61,723	1	73,777	1	85,830	1	97,883	1	109,941	1	122,000	1	134,047	1	146,100
1/4	2,036	1/4	14,016	1/4	25,815	1/4	37,868	1/4	49,921	1/4	61,974	1/4	74,028	1/4	86,081	1/4	98,184	1/4	110,237	1/4	122,259	1/4	134,300	1/4	146,353
1/2	2,287	1/2	14,259	1/2	26,066	1/2	38,119	1/2	50,172	1/2	62,226	1/2	74,279	1/2	86,332	1/2	98,435	1/2	110,490	1/2	122,512	1/2	134,553	1/2	146,606
3/4	2,539	3/4	14,502	3/4	26,317	3/4	38,370	3/4	50,423	3/4	62,477	3/4	74,530	3/4	86,533	3/4	98,636	3/4	110,743	3/4	122,765	3/4	134,806	3/4	146,859
1	2,780	1	14,745	1	26,568	1	38,621	1	50,675	1	62,728	1	74,781	1	86,834	1	98,887	1	111,000	1	123,018	1	135,059	1	147,112
1/4	3,041	1/4	14,988	1/4	26,819	1/4	38,873	1/4	50,926	1/4	62,979	1/4	74,932	1/4	87,035	1/4	99,138	1/4	111,261	1/4	123,271	1/4	135,312	1/4	147,365
1/2	3,292	1/2	15,231	1/2	27,070	1/2	39,124	1/2	51,177	1/2	63,230	1/2	75,283	1/2	87,336	1/2	99,391	1/2	111,514	1/2	123,524	1/2	135,565	1/2	147,618
3/4	3,543	3/4	15,473	3/4	27,322	3/4	39,375	3/4	51,428	3/4	63,481	3/4	75,534	3/4	87,587	3/4	99,644	3/4	111,767	3/4	123,777	3/4	135,818	3/4	147,871
1	3,794	1	15,716	1	27,573	1	39,627	1	51,679	1	63,732	1	75,785	1	87,839	1	99,897	1	112,020	1	124,030	1	136,071	1	148,124
1/4	4,045	1/4	15,959	1/4	27,824	1/4	39,877	1/4	51,930	1/4	63,983	1/4	76,036	1/4	88,090	1/4	100,193	1/4	112,283	1/4	124,283	1/4	136,324	1/4	148,377
1/2	4,296	1/2	16,202	1/2	28,075	1/2	40,128	1/2	52,181	1/2	64,234	1/2	76,288	1/2	88,341	1/2	100,446	1/2	112,536	1/2	124,536	1/2	136,576	1/2	148,630
3/4	4,547	3/4	16,445	3/4	28,326	3/4	40,379	3/4	52,432	3/4	64,486	3/4	76,539	3/4	88,592	3/4	100,699	3/4	112,789	3/4	124,789	3/4	136,829	3/4	148,883
1	4,798	1	16,688	1	28,577	1	40,630	1	52,683	1	64,737	1	76,790	1	88,843	1	100,952	1	113,042	1	125,042	1	137,082	1	149,136
1/4	5,050	1/4	16,931	1/4	28,828	1/4	40,881	1/4	52,935	1/4	64,988	1/4	77,041	1/4	89,094	1/4	101,197	1/4	113,295	1/4	125,295	1/4	137,339	1/4	149,389
1/2	5,301	1/2	17,174	1/2	29,079	1/2	41,132	1/2	53,186	1/2	65,239	1/2	77,292	1/2	89,345	1/2	101,450	1/2	113,548	1/2	125,548	1/2	137,592	1/2	149,642
3/4	5,552	3/4	17,417	3/4	29,330	3/4	41,384	3/4	53,437	3/4	65,490	3/4	77,543	3/4	89,596	3/4	101,703	3/4	113,801	3/4	125,801	3/4	137,845	3/4	149,895
1	5,803	1	17,660	1	29,582	1	41,635	1	53,688	1	65,741	1	77,794	1	89,847	1	101,956	1	114,054	1	126,054	1	138,098	1	150,149
1/4	6,054	1/4	17,903	1/4	29,833	1/4	41,886	1/4	53,939	1/4	65,992	1/4	78,045	1/4	90,099	1/4	102,207	1/4	114,307	1/4	126,307	1/4	138,351	1/4	150,402
1/2	6,305	1/2	18,145	1/2	30,084	1/2	42,137	1/2	54,190	1/2	66,243	1/2	78,296	1/2	90,350	1/2	102,460	1/2	114,560	1/2	126,560	1/2	138,604	1/2	150,655
3/4	6,556	3/4	18,388	3/4	30,335	3/4	42,388	3/4	54,441	3/4	66,494	3/4	78,548	3/4	90,601	3/4	102,713	3/4	114,813	3/4	126,813	3/4	138,857	3/4	150,908
1	6,807	1	18,631	1	30,586	1	42,639	1	54,692	1	66,745	1	78,799	1	90,852	1	102,966	1	115,066	1	127,066	1	139,110	1	151,161
1/4	7,058	1/4	18,874	1/4	30,837	1/4	42,890	1/4	54,943	1/4	66,997	1/4	79,050	1/4	91,103	1/4	103,219	1/4	115,319	1/4	127,319	1/4	139,363	1/4	151,414
1/2	7,309	1/2	19,117	1/2	31,088	1/2	43,141	1/2	55,195	1/2	67,248	1/2	79,301	1/2	91,354	1/2	103,472	1/2	115,572	1/2	127,572	1/2	139,616	1/2	151,667
3/4	7,560	3/4	19,360	3/4	31,339	3/4	43,392	3/4	55,446	3/4	67,499	3/4	79,552	3/4	91,605	3/4	103,725	3/4	115,825	3/4	127,825	3/4	139,869	3/4	151,920
1	7,811	1	19,603	1	31,590	1	43,644	1	55,697	1	67,750	1	79,803	1	91,856	1	103,974	1	116,074	1	128,074	1	140,124	1	152,173
1/4	8,062	1/4	19,846	1/4	31,842	1/4	43,895	1/4	55,948	1/4	68,001	1/4	80,054	1/4	92,107	1/4	104,127	1/4	116,327	1/4	128,327	1/4	140,377	1/4	152,426
1/2	8,313	1/2	20,089	1/2	32,093	1/2	44,146	1/2	56,199	1/2	68,252	1/2	80,305	1/2	92,358	1/2	104,380	1/2	116,580	1/2	128,580	1/2	140,630	1/2	152,679
3/4	8,564	3/4	20,332	3/4	32,344	3/4	44,397	3/4	56,450	3/4	68,503	3/4	80,556	3/4	92,610	3/4	104,633	3/4	116,833	3/4	128,833	3/4	140,883	3/4	152,932
1	8,815	1	20,574	1	32,595	1	44,648	1	56,701	1	68,754	1	80,808	1	92,861	1	104,886	1	117,086	1	129,086	1	141,136	1	153,185
1/4	9,066	1/4	20,817	1/4	32,846	1/4	44,899	1/4	56,952	1/4	69,005	1/4	81,059	1/4	93,112	1/4	105,139	1/4	117,339	1/4	129,339	1/4	141,389	1/4	153,438
1/2	9,317	1/2	21,060	1/2	33,097	1/2	45,150	1/2	57,203	1/2	69,257	1/2	81,310	1/2	93,363	1/2	105,392</								



# BARGE "DBL 104"

## 2 CENTER INNAGE TABLE

GAUGE HEIGHT 19'-00"

CAPACITIES GIVEN IN WHOLE U.S. GALLONS		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N	IN	N
0	118,963	0	131,011	0	143,058	0	155,105	0	167,106	0	179,106	0	191,106	0	203,106	0	215,106	0	227,106
1/4	119,214	1/4	131,262	1/4	143,309	1/4	155,356	1/4	167,355	1/4	179,355	1/4	191,355	1/4	203,355	1/4	215,355	1/4	227,355
1/2	119,465	1/2	131,513	1/2	143,560	1/2	155,607	1/2	167,604	1/2	179,604	1/2	191,604	1/2	203,604	1/2	215,604	1/2	227,604
3/4	119,716	3/4	131,764	3/4	143,811	3/4	155,858	3/4	167,852	3/4	179,852	3/4	191,852	3/4	203,852	3/4	215,852	3/4	227,852
1	119,967	1	132,015	1	144,062	1	156,109	1	168,101	1	180,101	1	192,101	1	204,101	1	216,101	1	228,101
1 1/4	120,218	1 1/4	132,266	1 1/4	144,313	1 1/4	156,360	1 1/4	168,350	1 1/4	180,350	1 1/4	192,350	1 1/4	204,350	1 1/4	216,350	1 1/4	228,350
1 1/2	120,469	1 1/2	132,517	1 1/2	144,564	1 1/2	156,611	1 1/2	168,598	1 1/2	180,598	1 1/2	192,598	1 1/2	204,598	1 1/2	216,598	1 1/2	228,598
1 3/4	120,720	1 3/4	132,768	1 3/4	144,815	1 3/4	156,862	1 3/4	168,847	1 3/4	180,847	1 3/4	192,847	1 3/4	204,847	1 3/4	216,847	1 3/4	228,847
2	120,971	2	133,019	2	145,066	2	157,113	2	169,096	2	181,096	2	193,096	2	205,096	2	217,096	2	229,096
1/4	121,222	1/4	133,270	1/4	145,317	1/4	157,364	1/4	169,344	1/4	181,344	1/4	193,344	1/4	205,344	1/4	217,344	1/4	229,344
1/2	121,473	1/2	133,521	1/2	145,568	1/2	157,615	1/2	169,593	1/2	181,593	1/2	193,593	1/2	205,593	1/2	217,593	1/2	229,593
3/4	121,724	3/4	133,772	3/4	145,819	3/4	157,866	3/4	169,842	3/4	181,842	3/4	193,842	3/4	205,842	3/4	217,842	3/4	229,842
3	121,975	3	134,023	3	146,070	3	158,117	3	170,090	3	182,090	3	194,090	3	206,090	3	218,090	3	230,090
1/4	122,226	1/4	134,274	1/4	146,321	1/4	158,368	1/4	170,339	1/4	182,339	1/4	194,339	1/4	206,339	1/4	218,339	1/4	230,339
1/2	122,477	1/2	134,525	1/2	146,572	1/2	158,619	1/2	170,587	1/2	182,587	1/2	194,587	1/2	206,587	1/2	218,587	1/2	230,587
3/4	122,728	3/4	134,776	3/4	146,823	3/4	158,870	3/4	170,836	3/4	182,836	3/4	194,836	3/4	206,836	3/4	218,836	3/4	230,836
4	122,979	4	135,027	4	147,074	4	159,121	4	171,085	4	183,085	4	195,085	4	207,085	4	219,085	4	231,085
1/4	123,230	1/4	135,278	1/4	147,325	1/4	159,372	1/4	171,333	1/4	183,333	1/4	195,333	1/4	207,333	1/4	219,333	1/4	231,333
1/2	123,481	1/2	135,528	1/2	147,576	1/2	159,623	1/2	171,582	1/2	183,582	1/2	195,582	1/2	207,582	1/2	219,582	1/2	231,582
3/4	123,732	3/4	135,779	3/4	147,827	3/4	159,874	3/4	171,831	3/4	183,831	3/4	195,831	3/4	207,831	3/4	219,831	3/4	231,831
5	123,983	5	136,030	5	148,078	5	160,125	5	172,079	5	184,079	5	196,079	5	208,079	5	220,079	5	232,079
1/4	124,234	1/4	136,281	1/4	148,329	1/4	160,376	1/4	172,325	1/4	184,325	1/4	196,325	1/4	208,325	1/4	220,325	1/4	232,325
1/2	124,485	1/2	136,532	1/2	148,580	1/2	160,627	1/2	172,570	1/2	184,570	1/2	196,570	1/2	208,570	1/2	220,570	1/2	232,570
3/4	124,736	3/4	136,783	3/4	148,831	3/4	160,878	3/4	172,816	3/4	184,816	3/4	196,816	3/4	208,816	3/4	220,816	3/4	232,816
6	124,987	6	137,034	6	149,082	6	161,129	6	173,061	6	185,061	6	197,061	6	209,061	6	221,061	6	233,061
1/4	125,238	1/4	137,285	1/4	149,333	1/4	161,380	1/4	173,307	1/4	185,307	1/4	197,307	1/4	209,307	1/4	221,307	1/4	233,307
1/2	125,489	1/2	137,536	1/2	149,584	1/2	161,631	1/2	173,552	1/2	185,552	1/2	197,552	1/2	209,552	1/2	221,552	1/2	233,552
3/4	125,740	3/4	137,787	3/4	149,835	3/4	161,882	3/4	173,798	3/4	185,798	3/4	197,798	3/4	209,798	3/4	221,798	3/4	233,798
7	125,991	7	138,038	7	150,086	7	162,133	7	174,043	7	186,043	7	198,043	7	210,043	7	222,043	7	234,043
1/4	126,242	1/4	138,289	1/4	150,337	1/4	162,382	1/4	174,289	1/4	186,289	1/4	198,289	1/4	210,289	1/4	222,289	1/4	234,289
1/2	126,493	1/2	138,540	1/2	150,588	1/2	162,630	1/2	174,534	1/2	186,534	1/2	198,534	1/2	210,534	1/2	222,534	1/2	234,534
3/4	126,744	3/4	138,791	3/4	150,839	3/4	162,879	3/4	174,779	3/4	186,779	3/4	198,779	3/4	210,779	3/4	222,779	3/4	234,779
8	126,995	8	139,042	8	151,090	8	163,128	8	175,025	8	187,025	8	199,025	8	211,025	8	223,025	8	235,025
1/4	127,246	1/4	139,293	1/4	151,341	1/4	163,376	1/4	175,270	1/4	187,270	1/4	199,270	1/4	211,270	1/4	223,270	1/4	235,270
1/2	127,497	1/2	139,544	1/2	151,592	1/2	163,625	1/2	175,516	1/2	187,516	1/2	199,516	1/2	211,516	1/2	223,516	1/2	235,516
3/4	127,748	3/4	139,795	3/4	151,843	3/4	163,874	3/4	175,761	3/4	187,761	3/4	199,761	3/4	211,761	3/4	223,761	3/4	235,761
9	127,999	9	140,046	9	152,094	9	164,122	9	176,007	9	188,007	9	200,007	9	212,007	9	224,007	9	236,007
1/4	128,250	1/4	140,297	1/4	152,345	1/4	164,371	1/4	176,152	1/4	188,152	1/4	200,152	1/4	212,152	1/4	224,152	1/4	236,152
1/2	128,501	1/2	140,548	1/2	152,596	1/2	164,620	1/2	176,297	1/2	188,297	1/2	200,297	1/2	212,297	1/2	224,297	1/2	236,297
3/4	128,752	3/4	140,799	3/4	152,847	3/4	164,868	3/4	176,442	3/4	188,442	3/4	200,442	3/4	212,442	3/4	224,442	3/4	236,442
10	129,003	10	141,050	10	153,098	10	165,117	10	176,587	10	188,587	10	200,587	10	212,587	10	224,587	10	236,587
1/4	129,254	1/4	141,301	1/4	153,349	1/4	165,366	1/4	176,837	1/4	188,837	1/4	200,837	1/4	212,837	1/4	224,837	1/4	236,837
1/2	129,505	1/2	141,552	1/2	153,600	1/2	165,614	1/2	176,987	1/2	189,087	1/2	201,087	1/2	213,087	1/2	225,087	1/2	237,087
3/4	129,756	3/4	141,803	3/4	153,851	3/4	165,863	3/4	177,138	3/4	189,238	3/4	201,238	3/4	213,238	3/4	225,238	3/4	237,238
11	130,007	11	142,054	11	154,102	11	166,112	11	177,288	11	189,388	11	201,388	11	213,388	11	225,388	11	237,388
1/4	130,258	1/4	142,305	1/4	154,353	1/4	166,360	1/4	177,438	1/4	189,538	1/4	201,538	1/4	213,538	1/4	225,538	1/4	237,538
1/2	130,509	1/2	142,556	1/2	154,604	1/2	166,609	1/2	177,588	1/2	189,688	1/2	201,688	1/2	213,688	1/2	225,688	1/2	237,688
3/4	130,760	3/4	142,807	3/4	154,854	3/4	166,858	3/4	177,738	3/4	189,838	3/4	201,838	3/4	213,838	3/4	225,838	3/4	237,838

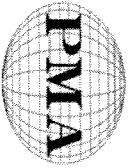
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2014



# BARGE "DBL 104"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS		GAUGE HEIGHT 19'-00"																	
IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.									
0	27	0	9,527	0	20,109	0	30,714	0	41,318	0	51,923	0	62,527	0	73,132	0	83,736	0	94,335
1/4	71	1/4	9,748	1/4	20,330	1/4	30,934	1/4	41,538	1/4	52,143	1/4	62,748	1/4	73,353	1/4	83,957	1/4	94,556
1/2	116	1/2	9,969	1/2	20,551	1/2	31,155	1/2	41,760	1/2	52,365	1/2	62,969	1/2	73,574	1/2	84,178	1/2	94,777
3/4	160	3/4	10,190	3/4	20,772	3/4	31,376	3/4	41,981	3/4	52,586	3/4	63,190	3/4	73,795	3/4	84,398	3/4	94,998
1	204	1	10,411	1	20,993	1	31,597	1	42,202	1	52,807	1	63,411	1	74,016	1	84,619	1	95,219
1/4	336	1/4	10,632	1/4	21,214	1/4	31,818	1/4	42,423	1/4	53,027	1/4	63,632	1/4	74,237	1/4	84,840	1/4	95,440
1/2	469	1/2	10,853	1/2	21,434	1/2	32,039	1/2	42,644	1/2	53,248	1/2	63,853	1/2	74,458	1/2	85,061	1/2	95,660
3/4	602	3/4	11,074	3/4	21,655	3/4	32,260	3/4	42,865	3/4	53,469	3/4	64,074	3/4	74,679	3/4	85,282	3/4	95,881
1	734	1	11,294	1	21,876	1	32,481	1	43,086	1	53,690	1	64,295	1	74,900	1	85,502	1	96,102
1/4	944	1/4	11,515	1/4	22,097	1/4	32,702	1/4	43,307	1/4	53,911	1/4	64,516	1/4	75,120	1/4	85,723	1/4	96,323
1/2	1,154	1/2	11,736	1/2	22,318	1/2	32,923	1/2	43,527	1/2	54,132	1/2	64,737	1/2	75,341	1/2	85,944	1/2	96,544
3/4	1,364	3/4	11,956	3/4	22,539	3/4	33,144	3/4	43,748	3/4	54,353	3/4	64,958	3/4	75,562	3/4	86,155	3/4	96,764
1	1,574	1	12,177	1	22,760	1	33,356	1	43,969	1	54,574	1	65,179	1	75,783	1	86,366	1	96,985
1/4	1,795	1/4	12,397	1/4	22,981	1/4	33,568	1/4	44,190	1/4	54,795	1/4	65,400	1/4	76,004	1/4	86,587	1/4	97,206
1/2	2,016	1/2	12,617	1/2	23,202	1/2	33,807	1/2	44,411	1/2	55,016	1/2	65,620	1/2	76,225	1/2	86,827	1/2	97,427
3/4	2,237	3/4	12,838	3/4	23,423	3/4	34,027	3/4	44,632	3/4	55,237	3/4	65,841	3/4	76,446	3/4	87,048	3/4	97,648
1	2,458	1	13,058	1	23,644	1	34,248	1	44,853	1	55,458	1	66,062	1	76,667	1	87,269	1	97,869
1/4	2,679	1/4	13,278	1/4	23,865	1/4	34,469	1/4	45,074	1/4	55,679	1/4	66,283	1/4	76,888	1/4	87,490	1/4	98,089
1/2	2,899	1/2	13,499	1/2	24,086	1/2	34,690	1/2	45,295	1/2	55,900	1/2	66,504	1/2	77,109	1/2	87,711	1/2	98,310
3/4	3,120	3/4	13,719	3/4	24,307	3/4	34,911	3/4	45,516	3/4	56,120	3/4	66,725	3/4	77,330	3/4	87,932	3/4	98,531
1	3,341	1	13,939	1	24,528	1	35,132	1	45,737	1	56,341	1	66,946	1	77,551	1	88,152	1	98,752
1/4	3,562	1/4	14,159	1/4	24,748	1/4	35,353	1/4	45,958	1/4	56,562	1/4	67,167	1/4	77,772	1/4	88,373	1/4	98,973
1/2	3,783	1/2	14,380	1/2	24,969	1/2	35,574	1/2	46,179	1/2	56,783	1/2	67,388	1/2	77,993	1/2	88,594	1/2	99,194
3/4	4,004	3/4	14,600	3/4	25,190	3/4	35,795	3/4	46,400	3/4	57,004	3/4	67,609	3/4	78,213	3/4	88,815	3/4	99,414
1	4,225	1	14,821	1	25,411	1	36,016	1	46,620	1	57,225	1	67,830	1	78,434	1	89,036	1	99,635
1/4	4,446	1/4	15,041	1/4	25,632	1/4	36,237	1/4	46,841	1/4	57,446	1/4	68,051	1/4	78,655	1/4	89,256	1/4	99,856
1/2	4,667	1/2	15,261	1/2	25,853	1/2	36,458	1/2	47,062	1/2	57,667	1/2	68,272	1/2	78,876	1/2	89,477	1/2	100,077
3/4	4,888	3/4	15,481	3/4	26,074	3/4	36,679	3/4	47,283	3/4	57,888	3/4	68,493	3/4	79,097	3/4	89,698	3/4	100,298
1	5,109	1	15,702	1	26,295	1	36,900	1	47,504	1	58,109	1	68,713	1	79,318	1	89,919	1	100,518
1/4	5,330	1/4	15,922	1/4	26,516	1/4	37,121	1/4	47,725	1/4	58,330	1/4	68,934	1/4	79,539	1/4	90,140	1/4	100,739
1/2	5,551	1/2	16,142	1/2	26,737	1/2	37,341	1/2	47,946	1/2	58,551	1/2	69,155	1/2	79,760	1/2	90,361	1/2	100,960
3/4	5,771	3/4	16,363	3/4	26,958	3/4	37,562	3/4	48,167	3/4	58,772	3/4	69,376	3/4	79,981	3/4	90,581	3/4	101,181
1	5,992	1	16,583	1	27,179	1	37,783	1	48,388	1	58,993	1	69,597	1	80,202	1	90,802	1	101,402
1/4	6,213	1/4	16,803	1/4	27,400	1/4	38,004	1/4	48,609	1/4	59,213	1/4	69,818	1/4	80,423	1/4	91,023	1/4	101,623
1/2	6,434	1/2	17,024	1/2	27,621	1/2	38,225	1/2	48,830	1/2	59,434	1/2	70,039	1/2	80,644	1/2	91,244	1/2	101,843
3/4	6,655	3/4	17,244	3/4	27,841	3/4	38,446	3/4	49,051	3/4	59,655	3/4	70,260	3/4	80,865	3/4	91,465	3/4	102,064
1	6,876	1	17,464	1	28,062	1	38,667	1	49,272	1	59,876	1	70,481	1	81,086	1	91,686	1	102,285
1/4	7,097	1/4	17,684	1/4	28,283	1/4	38,888	1/4	49,493	1/4	60,097	1/4	70,702	1/4	81,306	1/4	91,906	1/4	102,506
1/2	7,318	1/2	17,905	1/2	28,504	1/2	39,109	1/2	49,714	1/2	60,318	1/2	70,923	1/2	81,527	1/2	92,127	1/2	102,727
3/4	7,539	3/4	18,125	3/4	28,725	3/4	39,330	3/4	49,934	3/4	60,539	3/4	71,144	3/4	81,748	3/4	92,348	3/4	102,948
1	7,760	1	18,345	1	28,946	1	39,551	1	50,155	1	60,760	1	71,365	1	81,969	1	92,569	1	103,168
1/4	7,981	1/4	18,566	1/4	29,167	1/4	39,772	1/4	50,376	1/4	60,981	1/4	71,586	1/4	82,190	1/4	92,790	1/4	103,389
1/2	8,202	1/2	18,786	1/2	29,388	1/2	39,993	1/2	50,597	1/2	61,202	1/2	71,807	1/2	82,411	1/2	93,010	1/2	103,610
3/4	8,422	3/4	19,006	3/4	29,609	3/4	40,214	3/4	50,818	3/4	61,423	3/4	72,027	3/4	82,632	3/4	93,231	3/4	103,831
1	8,643	1	19,227	1	29,830	1	40,434	1	51,039	1	61,644	1	72,246	1	82,853	1	93,452	1	104,052
1/4	8,864	1/4	19,447	1/4	30,051	1/4	40,655	1/4	51,260	1/4	61,865	1/4	72,469	1/4	83,073	1/4	93,673	1/4	104,272
1/2	9,085	1/2	19,668	1/2	30,272	1/2	40,876	1/2	51,481	1/2	62,086	1/2	72,690	1/2	83,294	1/2	93,894	1/2	104,493
3/4	9,306	3/4	19,888	3/4	30,493	3/4	41,097	3/4	51,702	3/4	62,307	3/4	72,911	3/4	83,515	3/4	94,115	3/4	104,714

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PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588  
http://www.pmacorp.net

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 TOP OF THREADS ON "MHC" VALVE  
GAUGE POINT: (MHC) LOCATED 1'-00" OFF CENTERLINE AND 25'-09" FORWARD OF AFT BULKHEAD





# BARGE "DBL 104"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 19'-00"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W	N	W
0	104,935	0	115,534	0	126,134	0	136,734	0	147,292	0	157,892	0	168,492	0	179,092	0	189,692	0	200,292
1/4	105,156	1/4	115,755	1/4	126,355	1/4	136,954	1/4	147,511	1/4	158,111	1/4	168,711	1/4	179,311	1/4	189,911	1/4	200,511
1/2	105,377	1/2	115,976	1/2	126,576	1/2	137,175	1/2	147,730	1/2	158,330	1/2	168,930	1/2	179,530	1/2	190,130	1/2	200,730
3/4	105,597	3/4	116,197	3/4	126,797	3/4	137,396	3/4	147,949	3/4	158,549	3/4	169,149	3/4	179,749	3/4	190,349	3/4	200,949
1	105,818	1	116,418	1	127,017	1	137,617	1	148,168	1	158,768	1	169,368	1	179,968	1	190,568	1	201,168
1/4	106,039	1/4	116,639	1/4	127,238	1/4	137,838	1/4	148,386	1/4	158,986	1/4	169,586	1/4	180,186	1/4	190,786	1/4	201,386
1/2	106,260	1/2	116,859	1/2	127,459	1/2	138,059	1/2	148,605	1/2	159,205	1/2	169,805	1/2	180,405	1/2	191,005	1/2	201,605
3/4	106,481	3/4	117,080	3/4	127,680	3/4	138,279	3/4	148,824	3/4	159,424	3/4	170,024	3/4	180,624	3/4	191,224	3/4	201,824
2	106,702	2	117,301	2	127,901	2	138,500	2	149,043	2	159,643	2	170,243	2	180,843	2	191,443	2	202,043
1/4	106,922	1/4	117,522	1/4	128,121	1/4	138,721	1/4	149,261	1/4	159,861	1/4	170,461	1/4	181,061	1/4	191,661	1/4	202,261
1/2	107,143	1/2	117,743	1/2	128,342	1/2	138,942	1/2	149,480	1/2	160,080	1/2	170,680	1/2	181,280	1/2	191,880	1/2	202,480
3/4	107,364	3/4	117,964	3/4	128,563	3/4	139,163	3/4	149,699	3/4	160,299	3/4	170,899	3/4	181,499	3/4	192,099	3/4	202,699
3	107,585	3	118,184	3	128,784	3	139,383	3	149,918	3	160,518	3	171,118	3	181,718	3	192,318	3	202,918
1/4	107,806	1/4	118,405	1/4	129,005	1/4	139,604	1/4	150,137	1/4	160,737	1/4	171,337	1/4	181,937	1/4	192,537	1/4	203,137
1/2	108,026	1/2	118,626	1/2	129,226	1/2	139,825	1/2	150,355	1/2	160,955	1/2	171,555	1/2	182,155	1/2	192,755	1/2	203,355
3/4	108,247	3/4	118,847	3/4	129,446	3/4	140,046	3/4	150,574	3/4	161,174	3/4	171,774	3/4	182,374	3/4	192,974	3/4	203,574
4	108,468	4	119,068	4	129,667	4	140,267	4	150,793	4	161,423	4	172,023	4	182,623	4	193,223	4	203,823
1/4	108,689	1/4	119,289	1/4	129,888	1/4	140,488	1/4	151,012	1/4	161,640	1/4	172,260	1/4	182,860	1/4	193,460	1/4	204,060
1/2	108,910	1/2	119,509	1/2	130,109	1/2	140,708	1/2	151,231	1/2	161,859	1/2	172,479	1/2	183,079	1/2	193,679	1/2	204,279
3/4	109,131	3/4	119,730	3/4	130,330	3/4	140,929	3/4	151,449	3/4	162,074	3/4	172,694	3/4	183,294	3/4	193,894	3/4	204,494
5	109,351	5	119,951	5	130,551	5	141,150	5	151,668	5	162,292	5	172,912	5	183,512	5	194,112	5	204,712
1/4	109,572	1/4	120,172	1/4	130,771	1/4	141,371	1/4	151,884	1/4	162,516	1/4	173,136	1/4	183,736	1/4	194,336	1/4	204,936
1/2	109,793	1/2	120,393	1/2	130,992	1/2	141,592	1/2	152,100	1/2	162,716	1/2	173,316	1/2	183,916	1/2	194,516	1/2	205,116
3/4	110,014	3/4	120,613	3/4	131,213	3/4	141,813	3/4	152,316	3/4	162,932	3/4	173,532	3/4	184,132	3/4	194,732	3/4	205,332
6	110,235	6	120,834	6	131,434	6	142,034	6	152,532	6	163,152	6	173,752	6	184,352	6	194,952	6	205,552
1/4	110,456	1/4	121,055	1/4	131,655	1/4	142,254	1/4	152,748	1/4	163,368	1/4	173,968	1/4	184,568	1/4	195,168	1/4	205,768
1/2	110,676	1/2	121,276	1/2	131,875	1/2	142,475	1/2	152,964	1/2	163,564	1/2	174,164	1/2	184,764	1/2	195,364	1/2	205,964
3/4	110,897	3/4	121,497	3/4	132,096	3/4	142,696	3/4	153,180	3/4	164,044	3/4	174,644	3/4	185,244	3/4	195,844	3/4	206,444
7	111,118	7	121,718	7	132,317	7	142,917	7	153,396	7	164,324	7	174,924	7	185,524	7	196,124	7	206,724
1/4	111,339	1/4	121,938	1/4	132,538	1/4	143,135	1/4	153,612	1/4	164,512	1/4	175,112	1/4	185,712	1/4	196,312	1/4	206,912
1/2	111,560	1/2	122,159	1/2	132,759	1/2	143,354	1/2	154,044	1/2	164,808	1/2	175,408	1/2	186,008	1/2	196,608	1/2	207,208
3/4	111,780	3/4	122,380	3/4	132,980	3/4	143,573	3/4	154,260	3/4	165,044	3/4	175,644	3/4	186,244	3/4	196,844	3/4	207,444
8	112,001	8	122,601	8	133,200	8	143,792	8	154,460	8	165,260	8	175,860	8	186,460	8	197,060	8	207,660
1/4	112,222	1/4	122,822	1/4	133,421	1/4	144,011	1/4	154,476	1/4	165,076	1/4	175,676	1/4	186,276	1/4	196,876	1/4	207,476
1/2	112,443	1/2	123,043	1/2	133,642	1/2	144,229	1/2	154,692	1/2	165,292	1/2	175,892	1/2	186,492	1/2	197,092	1/2	207,692
3/4	112,664	3/4	123,263	3/4	133,863	3/4	144,448	3/4	154,908	3/4	165,512	3/4	176,112	3/4	186,712	3/4	197,312	3/4	207,912
9	112,885	9	123,484	9	134,084	9	144,667	9	155,124	9	165,672	9	176,272	9	186,872	9	197,472	9	208,072
1/4	113,105	1/4	123,705	1/4	134,305	1/4	144,886	1/4	155,251	1/4	165,808	1/4	176,408	1/4	187,008	1/4	197,608	1/4	208,208
1/2	113,326	1/2	123,926	1/2	134,525	1/2	145,105	1/2	155,379	1/2	166,032	1/2	176,632	1/2	187,232	1/2	197,832	1/2	208,432
3/4	113,547	3/4	124,147	3/4	134,746	3/4	145,323	3/4	155,606	3/4	166,316	3/4	176,916	3/4	187,516	3/4	198,116	3/4	208,716
10	113,768	10	124,367	10	134,967	10	145,542	10	155,834	10	166,534	10	177,134	10	187,734	10	198,334	10	208,934
1/4	113,989	1/4	124,588	1/4	135,188	1/4	145,761	1/4	156,078	1/4	166,778	1/4	177,378	1/4	187,978	1/4	198,578	1/4	209,178
1/2	114,210	1/2	124,809	1/2	135,409	1/2	145,980	1/2	156,322	1/2	167,022	1/2	177,622	1/2	188,222	1/2	198,822	1/2	209,422
3/4	114,430	3/4	125,030	3/4	135,629	3/4	146,198	3/4	156,767	3/4	167,467	3/4	178,067	3/4	188,667	3/4	199,267	3/4	209,867
11	114,651	11	125,251	11	135,850	11	146,417	11	156,811	11	167,511	11	178,111	11	188,711	11	199,311	11	209,911
1/4	114,872	1/4	125,472	1/4	136,071	1/4	146,636	1/4	157,036	1/4	167,736	1/4	178,336	1/4	188,936	1/4	199,536	1/4	210,136
1/2	115,093	1/2	125,692	1/2	136,292	1/2	146,855	1/2	157,245	1/2	167,945	1/2	178,545	1/2	189,145	1/2	199,745	1/2	210,345
3/4	115,314	3/4	125,913	3/4	136,513	3/4	147,074	3/4	157,464	3/4	168,164	3/4	178,764	3/4	189,364	3/4	199,964	3/4	210,564

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 05/22/2014 CL  
PRINTED: 05/22/2014 CL  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2014

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