



# BARGE "DBL 93"

## 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	00-0/8	- 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
2 CENTER	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8

(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 - 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 7/8'

LENGTH BETWEEN DRAFT MARKS: 159'-00"

June 18, 2012

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

<http://www.pmacorp.net>



# BARGE "DBL 93"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-10 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	27	0	9,671	0	20,185	0	30,937	0	41,690	0	52,336	0	63,093	0	73,850	0	84,606	0	95,359
1/4	72	1/4	9,895	1/4	20,409	1/4	31,161	1/4	41,911	1/4	52,560	1/4	63,317	1/4	74,074	1/4	84,830	1/4	95,583
1/2	117	1/2	10,119	1/2	20,633	1/2	31,385	1/2	42,132	1/2	52,784	1/2	63,541	1/2	74,298	1/2	85,054	1/2	95,807
3/4	162	3/4	10,343	3/4	20,857	3/4	31,609	3/4	42,353	3/4	53,008	3/4	63,765	3/4	74,522	3/4	85,278	3/4	96,031
1	207	1	10,567	1	21,081	1	31,833	1	42,574	1	53,232	1	63,989	1	74,746	1	85,502	1	96,255
1/4	342	1/4	10,785	1/4	21,305	1/4	32,058	1/4	42,795	1/4	53,456	1/4	64,213	1/4	74,970	1/4	85,726	1/4	96,479
1/2	476	1/2	11,003	1/2	21,529	1/2	32,282	1/2	43,016	1/2	53,681	1/2	64,438	1/2	75,194	1/2	85,950	1/2	96,703
3/4	611	3/4	11,222	3/4	21,753	3/4	32,506	3/4	43,237	3/4	53,905	3/4	64,662	3/4	75,419	3/4	86,174	3/4	96,927
2	746	2	11,440	2	21,977	2	32,730	2	43,458	2	54,129	2	64,886	2	75,643	2	86,398	2	97,151
1/4	959	1/4	11,658	1/4	22,201	1/4	32,954	1/4	43,679	1/4	54,353	1/4	65,110	1/4	75,867	1/4	86,622	1/4	97,375
1/2	1,173	1/2	11,876	1/2	22,425	1/2	33,178	1/2	43,900	1/2	54,577	1/2	65,334	1/2	76,091	1/2	86,846	1/2	97,599
3/4	1,386	3/4	12,094	3/4	22,649	3/4	33,402	3/4	44,121	3/4	54,801	3/4	65,558	3/4	76,315	3/4	87,070	3/4	97,823
3	1,600	3	12,312	3	22,873	3	33,626	3	44,342	3	55,025	3	65,782	3	76,539	3	87,294	3	98,047
1/4	1,824	1/4	12,530	1/4	23,097	1/4	33,850	1/4	44,563	1/4	55,249	1/4	66,006	1/4	76,763	1/4	87,518	1/4	98,271
1/2	2,049	1/2	12,748	1/2	23,321	1/2	34,074	1/2	44,784	1/2	55,473	1/2	66,230	1/2	76,987	1/2	87,742	1/2	98,495
3/4	2,274	3/4	12,966	3/4	23,545	3/4	34,298	3/4	45,005	3/4	55,698	3/4	66,454	3/4	77,211	3/4	87,966	3/4	98,719
4	2,498	4	13,184	4	23,769	4	34,522	4	45,226	4	55,922	4	66,679	4	77,435	4	88,190	4	98,943
1/4	2,723	1/4	13,402	1/4	23,993	1/4	34,746	1/4	45,447	1/4	56,146	1/4	66,903	1/4	77,660	1/4	88,414	1/4	99,167
1/2	2,948	1/2	13,620	1/2	24,217	1/2	34,970	1/2	45,668	1/2	56,370	1/2	67,127	1/2	77,884	1/2	88,638	1/2	99,391
3/4	3,172	3/4	13,838	3/4	24,441	3/4	35,194	3/4	45,889	3/4	56,594	3/4	67,351	3/4	78,108	3/4	88,862	3/4	99,615
5	3,397	5	14,056	5	24,665	5	35,418	5	46,110	5	56,818	5	67,575	5	78,332	5	89,086	5	99,839
1/4	3,621	1/4	14,274	1/4	24,889	1/4	35,642	1/4	46,331	1/4	57,042	1/4	67,799	1/4	78,556	1/4	89,310	1/4	100,063
1/2	3,845	1/2	14,492	1/2	25,113	1/2	35,866	1/2	46,553	1/2	57,266	1/2	68,023	1/2	78,780	1/2	89,534	1/2	100,287
3/4	4,069	3/4	14,710	3/4	25,337	3/4	36,090	3/4	46,774	3/4	57,490	3/4	68,247	3/4	79,004	3/4	89,758	3/4	100,511
6	4,294	6	14,928	6	25,561	6	36,314	6	46,995	6	57,714	6	68,471	6	79,228	6	89,982	6	100,735
1/4	4,518	1/4	15,146	1/4	25,785	1/4	36,538	1/4	47,216	1/4	57,939	1/4	68,695	1/4	79,452	1/4	90,206	1/4	100,959
1/2	4,742	1/2	15,364	1/2	26,009	1/2	36,762	1/2	47,437	1/2	58,163	1/2	68,920	1/2	79,676	1/2	90,430	1/2	101,183
3/4	4,966	3/4	15,582	3/4	26,233	3/4	36,986	3/4	47,658	3/4	58,387	3/4	69,144	3/4	79,901	3/4	90,654	3/4	101,407
7	5,190	7	15,800	7	26,457	7	37,210	7	47,879	7	58,611	7	69,368	7	80,125	7	90,878	7	101,631
1/4	5,414	1/4	16,019	1/4	26,681	1/4	37,434	1/4	48,100	1/4	58,835	1/4	69,592	1/4	80,349	1/4	91,102	1/4	101,855
1/2	5,638	1/2	16,237	1/2	26,905	1/2	37,658	1/2	48,321	1/2	59,059	1/2	69,816	1/2	80,573	1/2	91,326	1/2	102,079
3/4	5,863	3/4	16,455	3/4	27,129	3/4	37,882	3/4	48,542	3/4	59,283	3/4	70,040	3/4	80,797	3/4	91,550	3/4	102,303
8	6,087	8	16,673	8	27,353	8	38,106	8	48,763	8	59,507	8	70,264	8	81,021	8	91,774	8	102,527
1/4	6,311	1/4	16,891	1/4	27,577	1/4	38,330	1/4	48,985	1/4	59,731	1/4	70,488	1/4	81,245	1/4	91,998	1/4	102,751
1/2	6,535	1/2	17,109	1/2	27,801	1/2	38,554	1/2	49,208	1/2	59,955	1/2	70,712	1/2	81,469	1/2	92,222	1/2	102,975
3/4	6,759	3/4	17,327	3/4	28,025	3/4	38,778	3/4	49,430	3/4	60,180	3/4	70,936	3/4	81,693	3/4	92,446	3/4	103,199
9	6,983	9	17,545	9	28,249	9	39,002	9	49,653	9	60,404	9	71,161	9	81,917	9	92,670	9	103,423
1/4	7,207	1/4	17,763	1/4	28,473	1/4	39,226	1/4	49,876	1/4	60,628	1/4	71,385	1/4	82,142	1/4	92,894	1/4	103,647
1/2	7,431	1/2	17,981	1/2	28,697	1/2	39,450	1/2	50,098	1/2	60,852	1/2	71,609	1/2	82,366	1/2	93,118	1/2	103,871
3/4	7,655	3/4	18,199	3/4	28,921	3/4	39,674	3/4	50,321	3/4	61,076	3/4	71,833	3/4	82,590	3/4	93,342	3/4	104,095
10	7,879	10	18,417	10	29,145	10	39,898	10	50,543	10	61,300	10	72,057	10	82,814	10	93,566	10	104,319
1/4	8,103	1/4	18,635	1/4	29,369	1/4	40,122	1/4	50,767	1/4	61,524	1/4	72,281	1/4	83,038	1/4	93,790	1/4	104,543
1/2	8,327	1/2	18,853	1/2	29,593	1/2	40,346	1/2	50,991	1/2	61,748	1/2	72,505	1/2	83,262	1/2	94,014	1/2	104,767
3/4	8,551	3/4	19,071	3/4	29,817	3/4	40,570	3/4	51,215	3/4	61,972	3/4	72,729	3/4	83,486	3/4	94,238	3/4	104,991
11	8,775	11	19,289	11	30,041	11	40,794	11	51,440	11	62,196	11	72,953	11	83,710	11	94,462	11	105,215
1/4	8,999	1/4	19,513	1/4	30,265	1/4	41,018	1/4	51,664	1/4	62,421	1/4	73,178	1/4	83,934	1/4	94,687	1/4	105,439
1/2	9,223	1/2	19,737	1/2	30,489	1/2	41,242	1/2	51,888	1/2	62,645	1/2	73,402	1/2	84,158	1/2	94,911	1/2	105,663
3/4	9,447	3/4	19,961	3/4	30,713	3/4	41,466	3/4	52,112	3/4	62,869	3/4	73,626	3/4	84,382	3/4	95,135	3/4	105,887

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 ON CENTERLINE AND 26'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "DBL 93"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-10 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	106,111	0	115,831	0	125,201	0	134,571	0	143,906	0		0		0		0		0	
1/4	106,335	1/4	116,026	1/4	125,396	1/4	134,766	1/4	144,099	1/4		1/4		1/4		1/4		1/4	
1/2	106,559	1/2	116,222	1/2	125,591	1/2	134,961	1/2	144,293	1/2		1/2		1/2		1/2		1/2	
3/4	106,783	3/4	116,417	3/4	125,787	3/4	135,157	3/4	144,486	3/4		3/4		3/4		3/4		3/4	
1	107,007	1	116,612	1	125,982	1	135,352	1	144,680	1		1		1		1		1	
1/4	107,232	1/4	116,807	1/4	126,177	1/4	135,547	1/4	144,873	1/4		1/4		1/4		1/4		1/4	
1/2	107,456	1/2	117,002	1/2	126,372	1/2	135,742	1/2	145,067	1/2		1/2		1/2		1/2		1/2	
3/4	107,681	3/4	117,198	3/4	126,567	3/4	135,937	3/4	145,260	3/4		3/4		3/4		3/4		3/4	
2	107,905	2	117,393	2	126,763	2	136,133	2	145,454	2		2		2		2		2	
1/4	108,130	1/4	117,588	1/4	126,958	1/4	136,328	1/4	145,647	1/4		1/4		1/4		1/4		1/4	
1/2	108,355	1/2	117,783	1/2	127,153	1/2	136,523	1/2	145,841	1/2		1/2		1/2		1/2		1/2	
3/4	108,579	3/4	117,978	3/4	127,348	3/4	136,718	3/4	146,034	3/4		3/4		3/4		3/4		3/4	
3	108,804	3	118,174	3	127,544	3	136,913	3	146,227	3		3		3		3		3	
1/4	108,999	1/4	118,369	1/4	127,739	1/4	137,109	1/4	146,421	1/4		1/4		1/4		1/4		1/4	
1/2	109,194	1/2	118,564	1/2	127,934	1/2	137,304	1/2	146,614	1/2		1/2		1/2		1/2		1/2	
3/4	109,389	3/4	118,759	3/4	128,129	3/4	137,499	3/4	146,808	3/4		3/4		3/4		3/4		3/4	
4	109,585	4	118,954	4	128,324	4	137,694	4	147,001	4		4		4		4		4	
1/4	109,780	1/4	119,150	1/4	128,520	1/4	137,889	1/4	147,195	1/4		1/4		1/4		1/4		1/4	
1/2	109,975	1/2	119,345	1/2	128,715	1/2	138,085	1/2	147,388	1/2		1/2		1/2		1/2		1/2	
3/4	110,170	3/4	119,540	3/4	128,910	3/4	138,280	3/4	147,582	3/4		3/4		3/4		3/4		3/4	
5	110,365	5	119,735	5	129,105	5	138,475	5	147,775	5		5		5		5		5	
1/4	110,561	1/4	119,930	1/4	129,300	1/4	138,670	1/4	147,966	1/4		1/4		1/4		1/4		1/4	
1/2	110,756	1/2	120,126	1/2	129,496	1/2	138,865	1/2	148,156	1/2		1/2		1/2		1/2		1/2	
3/4	110,951	3/4	120,321	3/4	129,691	3/4	139,061	3/4	148,347	3/4		3/4		3/4		3/4		3/4	
6	111,146	6	120,516	6	129,886	6	139,256	6	148,537	6		6		6		6		6	
1/4	111,341	1/4	120,711	1/4	130,081	1/4	139,451	1/4	148,728	1/4		1/4		1/4		1/4		1/4	
1/2	111,537	1/2	120,906	1/2	130,276	1/2	139,646	1/2	148,919	1/2		1/2		1/2		1/2		1/2	
3/4	111,732	3/4	121,102	3/4	130,472	3/4	139,842	3/4	149,109	3/4		3/4		3/4		3/4		3/4	
7	111,927	7	121,297	7	130,667	7	140,037	7	149,300	7		7		7		7		7	
1/4	112,122	1/4	121,492	1/4	130,862	1/4	140,230	1/4	149,490	1/4		1/4		1/4		1/4		1/4	
1/2	112,317	1/2	121,687	1/2	131,057	1/2	140,424	1/2	149,681	1/2		1/2		1/2		1/2		1/2	
3/4	112,513	3/4	121,883	3/4	131,252	3/4	140,617	3/4	149,872	3/4		3/4		3/4		3/4		3/4	
8	112,708	8	122,078	8	131,448	8	140,811	8	150,062	8		8		8		8		8	
1/4	112,903	1/4	122,273	1/4	131,643	1/4	141,004	1/4	150,208	1/4		1/4		1/4		1/4		1/4	
1/2	113,098	1/2	122,468	1/2	131,838	1/2	141,198	1/2	150,353	1/2		1/2		1/2		1/2		1/2	
3/4	113,293	3/4	122,663	3/4	132,033	3/4	141,391	3/4	150,499	3/4		3/4		3/4		3/4		3/4	
9	113,489	9	122,859	9	132,228	9	141,584	9	150,644	9		9		9		9		9	
1/4	113,684	1/4	123,054	1/4	132,424	1/4	141,778	1/4	150,700	1/4		1/4		1/4		1/4		1/4	
1/2	113,879	1/2	123,249	1/2	132,619	1/2	141,971	1/2	150,756	1/2		1/2		1/2		1/2		1/2	
3/4	114,074	3/4	123,444	3/4	132,814	3/4	142,165	3/4	150,811	3/4		3/4		3/4		3/4		3/4	
10	114,269	10	123,639	10	133,009	10	142,358	10	150,867	10		10		10		10		10	
1/4	114,465	1/4	123,835	1/4	133,205	1/4	142,552	1/4	150,890	1/4		1/4		1/4		1/4		1/4	
1/2	114,660	1/2	124,030	1/2	133,400	1/2	142,745	1/2	150,912	1/2		1/2		1/2		1/2		1/2	
3/4	114,855	3/4	124,225	3/4	133,595	3/4	142,939	3/4		3/4		3/4		3/4		3/4		3/4	
11	115,050	11	124,420	11	133,790	11	143,132	11		11		11		11		11		11	
1/4	115,246	1/4	124,615	1/4	133,985	1/4	143,326	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	115,441	1/2	124,811	1/2	134,181	1/2	143,519	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	115,636	3/4	125,006	3/4	134,376	3/4	143,712	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/18/2012 CL - SW  
CALCULATED: 06/18/2012 CL  
PRINTED: 06/18/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2012

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



# BARGE "DBL 93"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-10"

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	27	0	10,836	0	22,580	0	34,649	0	46,718	0	58,787	0	70,857	0	82,926	0	94,994	0	107,057
1/4	78	1/4	11,088	1/4	22,832	1/4	34,901	1/4	46,970	1/4	59,039	1/4	71,108	1/4	83,177	1/4	95,245	1/4	107,308
1/2	128	1/2	11,339	1/2	23,083	1/2	35,152	1/2	47,221	1/2	59,290	1/2	71,359	1/2	83,428	1/2	95,496	1/2	107,560
3/4	178	3/4	11,590	3/4	23,334	3/4	35,404	3/4	47,473	3/4	59,542	3/4	71,611	3/4	83,680	3/4	95,748	3/4	107,811
1	228	1	11,841	1	23,586	1	35,655	1	47,724	1	59,793	1	71,862	1	83,931	1	95,999	1	108,062
1/4	379	1/4	12,085	1/4	23,837	1/4	35,906	1/4	47,976	1/4	60,045	1/4	72,114	1/4	84,183	1/4	96,250	1/4	108,314
1/2	530	1/2	12,329	1/2	24,089	1/2	36,158	1/2	48,227	1/2	60,296	1/2	72,365	1/2	84,434	1/2	96,502	1/2	108,565
3/4	681	3/4	12,573	3/4	24,340	3/4	36,409	3/4	48,478	3/4	60,548	3/4	72,617	3/4	84,686	3/4	96,753	3/4	108,816
2	832	2	12,816	2	24,592	2	36,661	2	48,730	2	60,799	2	72,868	2	84,937	2	97,004	2	109,068
1/4	1,070	1/4	13,060	1/4	24,843	1/4	36,912	1/4	48,981	1/4	61,050	1/4	73,119	1/4	85,189	1/4	97,256	1/4	109,319
1/2	1,309	1/2	13,304	1/2	25,095	1/2	37,164	1/2	49,233	1/2	61,302	1/2	73,371	1/2	85,440	1/2	97,507	1/2	109,570
3/4	1,548	3/4	13,548	3/4	25,346	3/4	37,415	3/4	49,484	3/4	61,553	3/4	73,622	3/4	85,691	3/4	97,758	3/4	109,822
3	1,787	3	13,791	3	25,597	3	37,667	3	49,736	3	61,805	3	73,874	3	85,943	3	98,010	3	110,073
1/4	2,038	1/4	14,035	1/4	25,849	1/4	37,918	1/4	49,987	1/4	62,056	1/4	74,125	1/4	86,194	1/4	98,261	1/4	110,324
1/2	2,290	1/2	14,278	1/2	26,100	1/2	38,169	1/2	50,239	1/2	62,308	1/2	74,377	1/2	86,446	1/2	98,512	1/2	110,575
3/4	2,541	3/4	14,521	3/4	26,352	3/4	38,421	3/4	50,490	3/4	62,559	3/4	74,628	3/4	86,697	3/4	98,764	3/4	110,827
4	2,793	4	14,764	4	26,603	4	38,672	4	50,741	4	62,810	4	74,880	4	86,949	4	99,015	4	111,078
1/4	3,044	1/4	15,007	1/4	26,855	1/4	38,924	1/4	50,993	1/4	63,062	1/4	75,131	1/4	87,200	1/4	99,266	1/4	111,329
1/2	3,296	1/2	15,250	1/2	27,106	1/2	39,175	1/2	51,244	1/2	63,313	1/2	75,382	1/2	87,452	1/2	99,517	1/2	111,581
3/4	3,547	3/4	15,494	3/4	27,358	3/4	39,427	3/4	51,496	3/4	63,565	3/4	75,634	3/4	87,703	3/4	99,769	3/4	111,832
5	3,798	5	15,737	5	27,609	5	39,678	5	51,747	5	63,816	5	75,885	5	87,954	5	100,020	5	112,083
1/4	4,050	1/4	15,980	1/4	27,860	1/4	39,929	1/4	51,999	1/4	64,068	1/4	76,137	1/4	88,206	1/4	100,271	1/4	112,335
1/2	4,301	1/2	16,223	1/2	28,112	1/2	40,181	1/2	52,250	1/2	64,319	1/2	76,388	1/2	88,457	1/2	100,523	1/2	112,586
3/4	4,553	3/4	16,466	3/4	28,363	3/4	40,432	3/4	52,501	3/4	64,571	3/4	76,640	3/4	88,709	3/4	100,774	3/4	112,837
6	4,804	6	16,710	6	28,615	6	40,684	6	52,753	6	64,822	6	76,891	6	88,960	6	101,025	6	113,089
1/4	5,056	1/4	16,953	1/4	28,866	1/4	40,935	1/4	53,004	1/4	65,073	1/4	77,143	1/4	89,212	1/4	101,277	1/4	113,340
1/2	5,307	1/2	17,196	1/2	29,118	1/2	41,187	1/2	53,256	1/2	65,325	1/2	77,394	1/2	89,463	1/2	101,528	1/2	113,591
3/4	5,558	3/4	17,439	3/4	29,369	3/4	41,438	3/4	53,507	3/4	65,576	3/4	77,645	3/4	89,714	3/4	101,779	3/4	113,843
7	5,810	7	17,683	7	29,620	7	41,690	7	53,759	7	65,828	7	77,897	7	89,966	7	102,031	7	114,094
1/4	6,061	1/4	17,926	1/4	29,872	1/4	41,941	1/4	54,010	1/4	66,079	1/4	78,148	1/4	90,217	1/4	102,282	1/4	114,345
1/2	6,313	1/2	18,169	1/2	30,123	1/2	42,192	1/2	54,262	1/2	66,331	1/2	78,400	1/2	90,469	1/2	102,533	1/2	114,597
3/4	6,564	3/4	18,412	3/4	30,375	3/4	42,444	3/4	54,513	3/4	66,582	3/4	78,651	3/4	90,720	3/4	102,785	3/4	114,848
8	6,816	8	18,656	8	30,626	8	42,695	8	54,764	8	66,833	8	78,903	8	90,972	8	103,036	8	115,099
1/4	7,067	1/4	18,899	1/4	30,878	1/4	42,947	1/4	55,016	1/4	67,085	1/4	79,154	1/4	91,223	1/4	103,287	1/4	115,351
1/2	7,318	1/2	19,142	1/2	31,129	1/2	43,198	1/2	55,267	1/2	67,336	1/2	79,405	1/2	91,475	1/2	103,539	1/2	115,602
3/4	7,570	3/4	19,385	3/4	31,381	3/4	43,450	3/4	55,519	3/4	67,588	3/4	79,657	3/4	91,726	3/4	103,790	3/4	115,853
9	7,821	9	19,629	9	31,632	9	43,701	9	55,770	9	67,839	9	79,908	9	91,977	9	104,041	9	116,104
1/4	8,072	1/4	19,872	1/4	31,883	1/4	43,953	1/4	56,022	1/4	68,091	1/4	80,160	1/4	92,229	1/4	104,293	1/4	116,356
1/2	8,323	1/2	20,115	1/2	32,135	1/2	44,204	1/2	56,273	1/2	68,342	1/2	80,411	1/2	92,480	1/2	104,544	1/2	116,607
3/4	8,575	3/4	20,358	3/4	32,386	3/4	44,455	3/4	56,524	3/4	68,594	3/4	80,663	3/4	92,732	3/4	104,795	3/4	116,858
10	8,826	10	20,601	10	32,638	10	44,707	10	56,776	10	68,845	10	80,914	10	92,983	10	105,046	10	117,110
1/4	9,077	1/4	20,845	1/4	32,889	1/4	44,958	1/4	57,027	1/4	69,096	1/4	81,166	1/4	93,235	1/4	105,298	1/4	117,361
1/2	9,329	1/2	21,088	1/2	33,141	1/2	45,210	1/2	57,279	1/2	69,348	1/2	81,417	1/2	93,486	1/2	105,549	1/2	117,612
3/4	9,580	3/4	21,331	3/4	33,392	3/4	45,461	3/4	57,530	3/4	69,599	3/4	81,668	3/4	93,737	3/4	105,800	3/4	117,864
11	9,831	11	21,574	11	33,644	11	45,713	11	57,782	11	69,851	11	81,920	11	93,988	11	106,052	11	118,115
1/4	10,082	1/4	21,826	1/4	33,895	1/4	45,964	1/4	58,033	1/4	70,102	1/4	82,171	1/4	94,240	1/4	106,303	1/4	118,366
1/2	10,334	1/2	22,077	1/2	34,146	1/2	46,215	1/2	58,285	1/2	70,354	1/2	82,423	1/2	94,491	1/2	106,554	1/2	118,618
3/4	10,585	3/4	22,329	3/4	34,398	3/4	46,467	3/4	58,536	3/4	70,605	3/4	82,674	3/4	94,742	3/4	106,806	3/4	118,869

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 ON CENTERLINE AND 30'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "DBL 93"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-10"

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	119,120	0	131,184	0	143,247	0	155,310	0	167,327	0		0		0		0		0	
1/4	119,372	1/4	131,435	1/4	143,498	1/4	155,561	1/4	167,576	1/4		1/4		1/4		1/4		1/4	
1/2	119,623	1/2	131,686	1/2	143,750	1/2	155,813	1/2	167,825	1/2		1/2		1/2		1/2		1/2	
3/4	119,874	3/4	131,938	3/4	144,001	3/4	156,064	3/4	168,074	3/4		3/4		3/4		3/4		3/4	
1	120,126	1	132,189	1	144,252	1	156,315	1	168,323	1		1		1		1		1	
1/4	120,377	1/4	132,440	1/4	144,503	1/4	156,567	1/4	168,572	1/4		1/4		1/4		1/4		1/4	
1/2	120,628	1/2	132,692	1/2	144,755	1/2	156,818	1/2	168,821	1/2		1/2		1/2		1/2		1/2	
3/4	120,880	3/4	132,943	3/4	145,006	3/4	157,069	3/4	169,070	3/4		3/4		3/4		3/4		3/4	
2	121,131	2	133,194	2	145,257	2	157,321	2	169,319	2		2		2		2		2	
1/4	121,382	1/4	133,445	1/4	145,509	1/4	157,572	1/4	169,568	1/4		1/4		1/4		1/4		1/4	
1/2	121,633	1/2	133,697	1/2	145,760	1/2	157,823	1/2	169,817	1/2		1/2		1/2		1/2		1/2	
3/4	121,885	3/4	133,948	3/4	146,011	3/4	158,075	3/4	170,066	3/4		3/4		3/4		3/4		3/4	
3	122,136	3	134,199	3	146,263	3	158,326	3	170,315	3		3		3		3		3	
1/4	122,387	1/4	134,451	1/4	146,514	1/4	158,577	1/4	170,564	1/4		1/4		1/4		1/4		1/4	
1/2	122,639	1/2	134,702	1/2	146,765	1/2	158,829	1/2	170,813	1/2		1/2		1/2		1/2		1/2	
3/4	122,890	3/4	134,953	3/4	147,017	3/4	159,080	3/4	171,062	3/4		3/4		3/4		3/4		3/4	
4	123,141	4	135,205	4	147,268	4	159,331	4	171,311	4		4		4		4		4	
1/4	123,393	1/4	135,456	1/4	147,519	1/4	159,583	1/4	171,560	1/4		1/4		1/4		1/4		1/4	
1/2	123,644	1/2	135,707	1/2	147,771	1/2	159,834	1/2	171,809	1/2		1/2		1/2		1/2		1/2	
3/4	123,895	3/4	135,959	3/4	148,022	3/4	160,085	3/4	172,058	3/4		3/4		3/4		3/4		3/4	
5	124,147	5	136,210	5	148,273	5	160,337	5	172,307	5		5		5		5		5	
1/4	124,398	1/4	136,461	1/4	148,525	1/4	160,588	1/4	172,552	1/4		1/4		1/4		1/4		1/4	
1/2	124,649	1/2	136,713	1/2	148,776	1/2	160,839	1/2	172,798	1/2		1/2		1/2		1/2		1/2	
3/4	124,901	3/4	136,964	3/4	149,027	3/4	161,090	3/4	173,044	3/4		3/4		3/4		3/4		3/4	
6	125,152	6	137,215	6	149,279	6	161,342	6	173,290	6		6		6		6		6	
1/4	125,403	1/4	137,467	1/4	149,530	1/4	161,593	1/4	173,536	1/4		1/4		1/4		1/4		1/4	
1/2	125,655	1/2	137,718	1/2	149,781	1/2	161,844	1/2	173,781	1/2		1/2		1/2		1/2		1/2	
3/4	125,906	3/4	137,969	3/4	150,032	3/4	162,096	3/4	174,027	3/4		3/4		3/4		3/4		3/4	
7	126,157	7	138,221	7	150,284	7	162,347	7	174,273	7		7		7		7		7	
1/4	126,409	1/4	138,472	1/4	150,535	1/4	162,596	1/4	174,519	1/4		1/4		1/4		1/4		1/4	
1/2	126,660	1/2	138,723	1/2	150,786	1/2	162,845	1/2	174,765	1/2		1/2		1/2		1/2		1/2	
3/4	126,911	3/4	138,974	3/4	151,038	3/4	163,094	3/4	175,010	3/4		3/4		3/4		3/4		3/4	
8	127,162	8	139,226	8	151,289	8	163,343	8	175,256	8		8		8		8		8	
1/4	127,414	1/4	139,477	1/4	151,540	1/4	163,592	1/4	175,451	1/4		1/4		1/4		1/4		1/4	
1/2	127,665	1/2	139,728	1/2	151,792	1/2	163,841	1/2	175,647	1/2		1/2		1/2		1/2		1/2	
3/4	127,916	3/4	139,980	3/4	152,043	3/4	164,090	3/4	175,842	3/4		3/4		3/4		3/4		3/4	
9	128,168	9	140,231	9	152,294	9	164,339	9	176,037	9		9		9		9		9	
1/4	128,419	1/4	140,482	1/4	152,546	1/4	164,588	1/4	176,132	1/4		1/4		1/4		1/4		1/4	
1/2	128,670	1/2	140,734	1/2	152,797	1/2	164,837	1/2	176,227	1/2		1/2		1/2		1/2		1/2	
3/4	128,922	3/4	140,985	3/4	153,048	3/4	165,086	3/4	176,322	3/4		3/4		3/4		3/4		3/4	
10	129,173	10	141,236	10	153,300	10	165,335	10	176,417	10		10		10		10		10	
1/4	129,424	1/4	141,488	1/4	153,551	1/4	165,584	1/4	176,442	1/4		1/4		1/4		1/4		1/4	
1/2	129,676	1/2	141,739	1/2	153,802	1/2	165,833	1/2	176,467	1/2		1/2		1/2		1/2		1/2	
3/4	129,927	3/4	141,990	3/4	154,054	3/4	166,082	3/4		3/4		3/4		3/4		3/4		3/4	
11	130,178	11	142,242	11	154,305	11	166,331	11		11		11		11		11		11	
1/4	130,430	1/4	142,493	1/4	154,556	1/4	166,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	130,681	1/2	142,744	1/2	154,808	1/2	166,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	130,932	3/4	142,996	3/4	155,059	3/4	167,078	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/18/2012 CL - SW  
CALCULATED: 06/18/2012 CL  
PRINTED: 06/18/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2012

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



# BARGE "DBL 93"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-09 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	27	0	9,548	0	20,153	0	30,782	0	41,410	0	52,038	0	62,667	0	73,295	0	83,923	0	94,546
1/4	72	1/4	9,769	1/4	20,375	1/4	31,003	1/4	41,632	1/4	52,260	1/4	62,888	1/4	73,517	1/4	84,144	1/4	94,767
1/2	116	1/2	9,991	1/2	20,596	1/2	31,225	1/2	41,853	1/2	52,481	1/2	63,110	1/2	73,738	1/2	84,365	1/2	94,989
3/4	160	3/4	10,212	3/4	20,818	3/4	31,446	3/4	42,074	3/4	52,703	3/4	63,331	3/4	73,959	3/4	84,587	3/4	95,210
1	204	1	10,434	1	21,039	1	31,667	1	42,296	1	52,924	1	63,553	1	74,181	1	84,808	1	95,431
1/4	337	1/4	10,655	1/4	21,261	1/4	31,889	1/4	42,517	1/4	53,146	1/4	63,774	1/4	74,402	1/4	85,029	1/4	95,653
1/2	470	1/2	10,876	1/2	21,482	1/2	32,110	1/2	42,739	1/2	53,367	1/2	63,995	1/2	74,624	1/2	85,251	1/2	95,874
3/4	603	3/4	11,098	3/4	21,703	3/4	32,332	3/4	42,960	3/4	53,588	3/4	64,217	3/4	74,845	3/4	85,472	3/4	96,095
2	736	2	11,319	2	21,925	2	32,553	2	43,182	2	53,810	2	64,438	2	75,067	2	85,693	2	96,316
1/4	946	1/4	11,540	1/4	22,146	1/4	32,775	1/4	43,403	1/4	54,031	1/4	64,660	1/4	75,288	1/4	85,915	1/4	96,538
1/2	1,156	1/2	11,761	1/2	22,368	1/2	32,996	1/2	43,624	1/2	54,253	1/2	64,881	1/2	75,509	1/2	86,136	1/2	96,759
3/4	1,367	3/4	11,982	3/4	22,589	3/4	33,217	3/4	43,846	3/4	54,474	3/4	65,102	3/4	75,731	3/4	86,357	3/4	96,980
3	1,577	3	12,203	3	22,811	3	33,439	3	44,067	3	54,696	3	65,324	3	75,952	3	86,578	3	97,202
1/4	1,798	1/4	12,424	1/4	23,032	1/4	33,660	1/4	44,289	1/4	54,917	1/4	65,545	1/4	76,174	1/4	86,800	1/4	97,423
1/2	2,020	1/2	12,645	1/2	23,253	1/2	33,882	1/2	44,510	1/2	55,138	1/2	65,767	1/2	76,395	1/2	87,021	1/2	97,644
3/4	2,241	3/4	12,866	3/4	23,475	3/4	34,103	3/4	44,731	3/4	55,360	3/4	65,988	3/4	76,617	3/4	87,242	3/4	97,866
4	2,463	4	13,087	4	23,696	4	34,325	4	44,953	4	55,581	4	66,210	4	76,838	4	87,464	4	98,087
1/4	2,684	1/4	13,307	1/4	23,918	1/4	34,546	1/4	45,174	1/4	55,803	1/4	66,431	1/4	77,059	1/4	87,685	1/4	98,308
1/2	2,905	1/2	13,528	1/2	24,139	1/2	34,767	1/2	45,396	1/2	56,024	1/2	66,652	1/2	77,281	1/2	87,906	1/2	98,530
3/4	3,127	3/4	13,749	3/4	24,360	3/4	34,989	3/4	45,617	3/4	56,246	3/4	66,874	3/4	77,502	3/4	88,128	3/4	98,751
5	3,348	5	13,970	5	24,582	5	35,210	5	45,839	5	56,467	5	67,095	5	77,724	5	88,349	5	98,972
1/4	3,570	1/4	14,191	1/4	24,803	1/4	35,432	1/4	46,060	1/4	56,688	1/4	67,317	1/4	77,945	1/4	88,570	1/4	99,194
1/2	3,791	1/2	14,411	1/2	25,025	1/2	35,653	1/2	46,281	1/2	56,910	1/2	67,538	1/2	78,167	1/2	88,792	1/2	99,415
3/4	4,013	3/4	14,632	3/4	25,246	3/4	35,875	3/4	46,503	3/4	57,131	3/4	67,760	3/4	78,388	3/4	89,013	3/4	99,636
6	4,234	6	14,853	6	25,468	6	36,096	6	46,724	6	57,353	6	67,981	6	78,609	6	89,234	6	99,858
1/4	4,455	1/4	15,074	1/4	25,689	1/4	36,317	1/4	46,946	1/4	57,574	1/4	68,202	1/4	78,831	1/4	89,456	1/4	100,079
1/2	4,677	1/2	15,295	1/2	25,910	1/2	36,539	1/2	47,167	1/2	57,795	1/2	68,424	1/2	79,052	1/2	89,677	1/2	100,300
3/4	4,898	3/4	15,515	3/4	26,132	3/4	36,760	3/4	47,389	3/4	58,017	3/4	68,645	3/4	79,274	3/4	89,898	3/4	100,522
7	5,120	7	15,736	7	26,353	7	36,982	7	47,610	7	58,238	7	68,867	7	79,495	7	90,120	7	100,743
1/4	5,341	1/4	15,957	1/4	26,575	1/4	37,203	1/4	47,831	1/4	58,460	1/4	69,088	1/4	79,716	1/4	90,341	1/4	100,964
1/2	5,562	1/2	16,178	1/2	26,796	1/2	37,424	1/2	48,053	1/2	58,681	1/2	69,310	1/2	79,938	1/2	90,562	1/2	101,185
3/4	5,784	3/4	16,399	3/4	27,018	3/4	37,646	3/4	48,274	3/4	58,903	3/4	69,531	3/4	80,159	3/4	90,784	3/4	101,407
8	6,005	8	16,620	8	27,239	8	37,867	8	48,496	8	59,124	8	69,752	8	80,381	8	91,005	8	101,628
1/4	6,227	1/4	16,840	1/4	27,460	1/4	38,089	1/4	48,717	1/4	59,345	1/4	69,974	1/4	80,602	1/4	91,226	1/4	101,849
1/2	6,448	1/2	17,061	1/2	27,682	1/2	38,310	1/2	48,939	1/2	59,567	1/2	70,195	1/2	80,824	1/2	91,447	1/2	102,071
3/4	6,670	3/4	17,282	3/4	27,903	3/4	38,532	3/4	49,160	3/4	59,788	3/4	70,417	3/4	81,045	3/4	91,669	3/4	102,292
9	6,891	9	17,503	9	28,125	9	38,753	9	49,381	9	60,010	9	70,638	9	81,266	9	91,890	9	102,513
1/4	7,112	1/4	17,724	1/4	28,346	1/4	38,974	1/4	49,603	1/4	60,231	1/4	70,860	1/4	81,488	1/4	92,111	1/4	102,735
1/2	7,334	1/2	17,944	1/2	28,568	1/2	39,196	1/2	49,824	1/2	60,453	1/2	71,081	1/2	81,709	1/2	92,333	1/2	102,956
3/4	7,555	3/4	18,165	3/4	28,789	3/4	39,417	3/4	50,046	3/4	60,674	3/4	71,302	3/4	81,931	3/4	92,554	3/4	103,177
10	7,777	10	18,386	10	29,010	10	39,639	10	50,267	10	60,895	10	71,524	10	82,152	10	92,775	10	103,399
1/4	7,998	1/4	18,607	1/4	29,232	1/4	39,860	1/4	50,489	1/4	61,117	1/4	71,745	1/4	82,373	1/4	92,997	1/4	103,620
1/2	8,219	1/2	18,828	1/2	29,453	1/2	40,082	1/2	50,710	1/2	61,338	1/2	71,967	1/2	82,595	1/2	93,218	1/2	103,841
3/4	8,441	3/4	19,048	3/4	29,675	3/4	40,303	3/4	50,931	3/4	61,560	3/4	72,188	3/4	82,816	3/4	93,439	3/4	104,063
11	8,662	11	19,269	11	29,896	11	40,524	11	51,153	11	61,781	11	72,409	11	83,037	11	93,661	11	104,284
1/4	8,884	1/4	19,490	1/4	30,117	1/4	40,746	1/4	51,374	1/4	62,003	1/4	72,631	1/4	83,259	1/4	93,882	1/4	104,505
1/2	9,105	1/2	19,711	1/2	30,339	1/2	40,967	1/2	51,596	1/2	62,224	1/2	72,852	1/2	83,480	1/2	94,103	1/2	104,727
3/4	9,326	3/4	19,932	3/4	30,560	3/4	41,189	3/4	51,817	3/4	62,445	3/4	73,074	3/4	83,701	3/4	94,325	3/4	104,948

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 ON CENTERLINE AND 25'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "DBL 93"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

GAUGE HEIGHT 18'-09 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	105,169	0	115,792	0	126,416	0	137,039	0	147,621	0		0		0		0		0	
1/4	105,391	1/4	116,014	1/4	126,637	1/4	137,260	1/4	147,841	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	105,612	1/2	116,235	1/2	126,858	1/2	137,482	1/2	148,060	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	105,833	3/4	116,456	3/4	127,080	3/4	137,703	3/4	148,279	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	106,054	1	116,678	1	127,301	1	137,924	1	148,499	1	1	1	1	1	1	1	1	1	1
1/4	106,276	1/4	116,899	1/4	127,522	1/4	138,146	1/4	148,718	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	106,497	1/2	117,120	1/2	127,744	1/2	138,367	1/2	148,937	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	106,718	3/4	117,342	3/4	127,965	3/4	138,588	3/4	149,156	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	106,940	2	117,563	2	128,186	2	138,810	2	149,376	2	2	2	2	2	2	2	2	2	2
1/4	107,161	1/4	117,784	1/4	128,408	1/4	139,031	1/4	149,595	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	107,382	1/2	118,006	1/2	128,629	1/2	139,252	1/2	149,814	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	107,604	3/4	118,227	3/4	128,850	3/4	139,473	3/4	150,034	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	107,825	3	118,448	3	129,072	3	139,695	3	150,253	3	3	3	3	3	3	3	3	3	3
1/4	108,046	1/4	118,670	1/4	129,293	1/4	139,916	1/4	150,472	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	108,268	1/2	118,891	1/2	129,514	1/2	140,137	1/2	150,691	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	108,489	3/4	119,112	3/4	129,735	3/4	140,359	3/4	150,911	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	108,710	4	119,334	4	129,957	4	140,580	4	151,130	4	4	4	4	4	4	4	4	4	4
1/4	108,932	1/4	119,555	1/4	130,178	1/4	140,801	1/4	151,349	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	109,153	1/2	119,776	1/2	130,399	1/2	141,023	1/2	151,569	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	109,374	3/4	119,997	3/4	130,621	3/4	141,244	3/4	151,788	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	109,596	5	120,219	5	130,842	5	141,465	5	152,007	5	5	5	5	5	5	5	5	5	5
1/4	109,817	1/4	120,440	1/4	131,063	1/4	141,687	1/4	152,224	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	110,038	1/2	120,661	1/2	131,285	1/2	141,908	1/2	152,440	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	110,260	3/4	120,883	3/4	131,506	3/4	142,129	3/4	152,656	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	110,481	6	121,104	6	131,727	6	142,351	6	152,873	6	6	6	6	6	6	6	6	6	6
1/4	110,702	1/4	121,325	1/4	131,949	1/4	142,572	1/4	153,089	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	110,923	1/2	121,547	1/2	132,170	1/2	142,793	1/2	153,306	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	111,145	3/4	121,768	3/4	132,391	3/4	143,015	3/4	153,522	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	111,366	7	121,989	7	132,613	7	143,236	7	153,739	7	7	7	7	7	7	7	7	7	7
1/4	111,587	1/4	122,211	1/4	132,834	1/4	143,455	1/4	153,955	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	111,809	1/2	122,432	1/2	133,055	1/2	143,674	1/2	154,172	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	112,030	3/4	122,653	3/4	133,277	3/4	143,894	3/4	154,388	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	112,251	8	122,875	8	133,498	8	144,113	8	154,605	8	8	8	8	8	8	8	8	8	8
1/4	112,473	1/4	123,096	1/4	133,719	1/4	144,332	1/4	154,777	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	112,694	1/2	123,317	1/2	133,941	1/2	144,552	1/2	154,949	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	112,915	3/4	123,539	3/4	134,162	3/4	144,771	3/4	155,121	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	113,137	9	123,760	9	134,383	9	144,990	9	155,293	9	9	9	9	9	9	9	9	9	9
1/4	113,358	1/4	123,981	1/4	134,604	1/4	145,209	1/4	155,377	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	113,579	1/2	124,203	1/2	134,826	1/2	145,429	1/2	155,460	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	113,801	3/4	124,424	3/4	135,047	3/4	145,648	3/4	155,544	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	114,022	10	124,645	10	135,268	10	145,867	10	155,627	10	10	10	10	10	10	10	10	10	10
1/4	114,243	1/4	124,866	1/4	135,490	1/4	146,087	1/4	155,649	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	114,465	1/2	125,088	1/2	135,711	1/2	146,306	1/2	155,672	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	114,686	3/4	125,309	3/4	135,932	3/4	146,525	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	114,907	11	125,530	11	136,154	11	146,744	11		11				11				11	
1/4	115,129	1/4	125,752	1/4	136,375	1/4	146,964	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	115,350	1/2	125,973	1/2	136,596	1/2	147,183	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	115,571	3/4	126,194	3/4	136,818	3/4	147,402	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 06/18/2012 CL  
PRINTED: 06/18/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2012

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