



# BARGE "IB 1945"

## ULLAGE TRIM TABLE

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

(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 2 CENTER IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 182'-06"

October 10, 2013

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

<http://www.pmacorp.net>



# BARGE "IB 1945"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.				
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN				
0		0	159,341	0	150,996	0	141,427	0	131,859	0	121,201	0	108,256	0	95,312	0	82,366	0	69,430			
1/4	1/4	159,321	150,977	141,228	131,659	120,932	107,986	95,042	82,097	69,161	1/4	1/4	159,300	150,958	141,029	131,460	120,662	107,717	94,772	81,827	68,892	
1/2	1/2	159,280	150,938	140,829	131,261	120,392	107,447	94,503	81,557	68,623	3/4	3/4	159,204	150,199	140,630	131,061	120,123	107,177	94,233	81,288	68,354	
1		1	159,129	149,999	140,431	130,862	119,853	106,908	93,963	81,018	68,085	1/4	1/4	159,053	149,800	140,231	130,662	119,583	106,638	93,694	80,748	67,816
1/2	1/2	158,978	149,601	140,032	130,463	119,314	106,368	93,424	80,479	67,547	3/4	3/4	158,820	149,401	139,833	130,264	119,044	106,099	93,154	80,209	67,278	
2		2	158,662	149,202	139,633	130,064	118,774	105,829	92,884	79,939	67,009	1/4	1/4	158,605	149,003	139,434	129,865	118,505	105,559	92,615	79,669	66,739
1/2	1/2	158,505	148,803	139,235	129,666	118,235	105,290	92,345	79,400	66,470	3/4	3/4	158,347	148,604	139,035	129,466	117,965	105,020	92,075	79,130	66,201	
3		3	158,153	148,405	138,836	129,267	117,769	104,750	91,806	78,860	65,932	1/4	1/4	157,960	148,205	138,637	129,068	117,426	104,481	91,536	78,591	65,663
1/2	1/2	157,766	148,006	138,437	128,868	117,156	104,211	91,266	78,321	65,394	3/4	3/4	157,572	147,807	138,238	128,669	116,886	103,941	90,997	78,051	65,125	
4		4	157,373	147,607	138,038	128,470	116,617	103,672	90,727	77,782	64,856	1/4	1/4	157,174	147,408	137,839	128,270	116,347	103,402	90,457	77,512	64,587
1/2	1/2	156,976	147,209	137,640	128,071	116,077	103,132	90,188	77,242	64,318	3/4	3/4	156,777	147,009	137,440	127,872	115,808	102,863	89,918	76,972	64,049	
5		5	156,578	146,810	137,241	127,672	115,538	102,593	89,648	76,703	63,779	1/4	1/4	156,379	146,611	137,042	127,473	115,268	102,323	89,378	76,433	63,510
1/2	1/2	156,179	146,411	136,842	127,274	114,998	102,054	89,109	76,163	63,241	3/4	3/4	155,980	146,212	136,643	127,074	114,729	101,784	88,839	75,894	62,972	
6		6	155,811	146,012	136,444	126,875	114,459	101,514	88,569	75,624	62,702	1/4	1/4	155,612	145,813	136,244	126,675	114,189	101,245	88,300	75,354	62,433
1/2	1/2	155,382	145,614	136,045	126,476	113,920	100,975	88,030	75,085	62,164	3/4	3/4	155,183	145,414	135,846	126,277	113,650	100,705	87,760	74,815	61,894	
7		7	154,983	145,215	135,646	126,078	113,380	100,436	87,491	74,545	61,625	1/4	1/4	154,784	145,016	135,447	125,879	113,111	100,166	87,221	74,276	61,355
1/2	1/2	154,585	144,816	135,248	125,680	112,841	99,896	86,951	74,006	61,085	3/4	3/4	154,385	144,617	135,048	125,437	112,571	99,627	86,681	73,737	60,816	
8		8	154,186	144,418	134,849	125,194	112,302	99,357	86,412	73,467	60,546	1/4	1/4	153,987	144,218	134,649	124,951	112,032	99,087	86,142	73,198	60,277
1/2	1/2	153,787	144,019	134,450	124,707	111,762	98,818	85,872	72,929	60,007	3/4	3/4	153,588	143,820	134,251	124,438	111,492	98,548	85,603	72,659	59,738	
9		9	153,388	143,620	134,051	124,168	111,223	98,278	85,333	72,390	59,468	1/4	1/4	153,189	143,421	133,852	123,898	110,953	98,009	85,063	72,121	59,198
1/2	1/2	152,990	143,222	133,653	123,629	110,683	97,739	84,794	71,852	58,929	3/4	3/4	152,790	143,022	133,453	123,359	110,414	97,469	84,524	71,583	58,659	
10		10	152,591	142,823	133,254	123,089	110,144	97,200	84,254	71,314	58,390	1/4	1/4	152,392	142,624	133,055	122,820	109,874	96,930	83,985	71,045	58,120
1/2	1/2	152,192	142,424	132,855	122,550	109,605	96,660	83,715	70,776	57,851	3/4	3/4	151,993	142,225	132,656	122,280	109,335	96,390	83,445	70,507	57,581	
11		11	151,794	142,025	132,457	122,011	109,065	96,121	83,175	70,238	57,312	1/4	1/4	151,594	141,826	132,257	121,741	108,796	95,851	82,906	69,969	57,042
1/2	1/2	151,395	141,627	132,058	121,471	108,526	95,581	82,636	69,699	56,772	3/4	3/4	151,196									

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 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "IB 1945"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 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	56,503	0	43,564	0	30,867	0	17,929	0	4,982	0		0		0		0		0	
1/4	56,233	1/4	43,294	1/4	30,600	1/4	17,659	1/4	4,713	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,964	1/2	43,025	1/2	30,333	1/2	17,389	1/2	4,444	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,694	3/4	42,755	3/4	30,065	3/4	17,120	3/4	4,176	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,425	1	42,485	1	29,796	1	16,850	1	3,908	1		1		1		1		1	
1/4	55,155	1/4	42,216	1/4	29,526	1/4	16,580	1/4	3,640	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,885	1/2	41,946	1/2	29,256	1/2	16,311	1/2	3,373	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,616	3/4	41,677	3/4	28,987	3/4	16,041	3/4	3,105	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,346	2	41,411	2	28,717	2	15,771	2	2,840	2		2		2		2		2	
1/4	54,077	1/4	41,145	1/4	28,447	1/4	15,502	1/4	2,574	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,807	1/2	40,880	1/2	28,178	1/2	15,232	1/2	2,309	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,538	3/4	40,614	3/4	27,908	3/4	14,962	3/4	2,043	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,268	3	40,351	3	27,638	3	14,692	3	1,803	3		3		3		3		3	
1/4	52,998	1/4	40,087	1/4	27,368	1/4	14,423	1/4	1,564	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,729	1/2	39,824	1/2	27,099	1/2	14,153	1/2	1,324	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,459	3/4	39,561	3/4	26,829	3/4	13,883	3/4	1,084	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,190	4	39,297	4	26,559	4	13,614	4	915	4		4		4		4		4	
1/4	51,920	1/4	39,034	1/4	26,290	1/4	13,344	1/4	747	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,651	1/2	38,771	1/2	26,020	1/2	13,074	1/2	578	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,381	3/4	38,507	3/4	25,750	3/4	12,804	3/4	409	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,112	5	38,244	5	25,481	5	12,535	5	330	5		5		5		5		5	
1/4	50,842	1/4	37,981	1/4	25,211	1/4	12,265	1/4	252	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,572	1/2	37,717	1/2	24,941	1/2	11,995	1/2	173	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,303	3/4	37,454	3/4	24,671	3/4	11,726	3/4	94	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,033	6	37,191	6	24,402	6	11,456	6		6		6		6		6		6	
1/4	49,764	1/4	36,928	1/4	24,132	1/4	11,186	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,494	1/2	36,664	1/2	23,862	1/2	10,916	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,225	3/4	36,401	3/4	23,593	3/4	10,647	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	48,955	7	36,138	7	23,323	7	10,377	7		7		7		7		7		7	
1/4	48,685	1/4	35,874	1/4	23,053	1/4	10,107	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,416	1/2	35,611	1/2	22,783	1/2	9,837	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,146	3/4	35,348	3/4	22,514	3/4	9,567	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	47,877	8	35,084	8	22,244	8	9,297	8		8		8		8		8		8	
1/4	47,607	1/4	34,821	1/4	21,974	1/4	9,027	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,338	1/2	34,558	1/2	21,705	1/2	8,757	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,068	3/4	34,294	3/4	21,435	3/4	8,487	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	46,798	9	34,031	9	21,165	9	8,217	9		9		9		9		9		9	
1/4	46,529	1/4	33,768	1/4	20,896	1/4	7,948	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,259	1/2	33,504	1/2	20,626	1/2	7,678	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,990	3/4	33,241	3/4	20,356	3/4	7,408	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	45,720	10	32,978	10	20,086	10	7,138	10		10		10		10		10		10	
1/4	45,451	1/4	32,715	1/4	19,817	1/4	6,868	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,181	1/2	32,451	1/2	19,547	1/2	6,599	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,912	3/4	32,188	3/4	19,277	3/4	6,329	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	44,642	11	31,925	11	19,008	11	6,060	11		11		11		11		11		11	
1/4	44,372	1/4	31,661	1/4	18,738	1/4	5,790	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,103	1/2	31,398	1/2	18,468	1/2	5,520	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,833	3/4	31,135	3/4	18,199	3/4	5,251	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.

STRAPPED: 10/10/2013 SW  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "IB 1945"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	165,268	0	154,261	0	141,805	0	129,349	0	116,893	0	104,436	0	91,980	0	79,524	0	67,068
1/4	1/4	165,205	154,002	1/4	154,002	1/4	141,545	1/4	129,089	1/4	116,633	1/4	104,177	1/4	91,721	1/4	79,265	1/4	66,809
1/2	1/2	165,143	153,742	1/2	153,742	1/2	141,286	1/2	128,830	1/2	116,374	1/2	103,917	1/2	91,461	1/2	79,005	1/2	66,549
3/4	3/4	165,081	153,483	3/4	153,483	3/4	141,026	3/4	128,570	3/4	116,114	3/4	103,658	3/4	91,202	3/4	78,746	3/4	66,290
1		1	165,019	1	153,223	1	140,767	1	128,311	1	115,855	1	103,398	1	90,942	1	78,486	1	66,030
1/4	1/4	164,878	152,964	1/4	152,964	1/4	140,507	1/4	128,051	1/4	115,595	1/4	103,139	1/4	90,683	1/4	78,227	1/4	65,770
1/2	1/2	164,738	152,704	1/2	152,704	1/2	140,248	1/2	127,792	1/2	115,336	1/2	102,879	1/2	90,423	1/2	77,967	1/2	65,511
3/4	3/4	164,597	152,444	3/4	152,444	3/4	139,988	3/4	127,532	3/4	115,076	3/4	102,620	3/4	90,164	3/4	77,708	3/4	65,251
2		2	164,457	2	152,185	2	139,729	2	127,273	2	114,817	2	102,360	2	89,904	2	77,448	2	64,992
1/4	1/4	164,237	151,925	1/4	151,925	1/4	139,469	1/4	127,013	1/4	114,557	1/4	102,101	1/4	89,645	1/4	77,189	1/4	64,732
1/2	1/2	164,018	151,666	1/2	151,666	1/2	139,210	1/2	126,754	1/2	114,298	1/2	101,841	1/2	89,385	1/2	76,929	1/2	64,473
3/4	3/4	163,798	151,406	3/4	151,406	3/4	138,950	3/4	126,494	3/4	114,038	3/4	101,582	3/4	89,126	3/4	76,670	3/4	64,213
3		3	163,579	3	151,147	3	138,691	3	126,235	3	113,779	3	101,322	3	88,866	3	76,410	3	63,954
1/4	1/4	163,325	150,887	1/4	150,887	1/4	138,431	1/4	125,975	1/4	113,519	1/4	101,063	1/4	88,607	1/4	76,151	1/4	63,694
1/2	1/2	163,071	150,628	1/2	150,628	1/2	138,172	1/2	125,716	1/2	113,260	1/2	100,803	1/2	88,347	1/2	75,891	1/2	63,435
3/4	3/4	162,817	150,368	3/4	150,368	3/4	137,912	3/4	125,456	3/4	113,000	3/4	100,544	3/4	88,088	3/4	75,632	3/4	63,175
4		4	162,562	4	150,109	4	137,653	4	125,197	4	112,741	4	100,284	4	87,828	4	75,372	4	62,916
1/4	1/4	162,303	149,849	1/4	149,849	1/4	137,393	1/4	124,937	1/4	112,481	1/4	100,025	1/4	87,569	1/4	75,113	1/4	62,656
1/2	1/2	162,045	149,590	1/2	149,590	1/2	137,134	1/2	124,678	1/2	112,222	1/2	99,765	1/2	87,309	1/2	74,853	1/2	62,397
3/4	3/4	161,786	149,330	3/4	149,330	3/4	136,874	3/4	124,418	3/4	111,962	3/4	99,506	3/4	87,050	3/4	74,594	3/4	62,137
5		5	161,527	5	149,071	5	136,615	5	124,159	5	111,703	5	99,246	5	86,790	5	74,334	5	61,878
1/4	1/4	161,267	148,811	1/4	148,811	1/4	136,355	1/4	123,899	1/4	111,443	1/4	98,987	1/4	86,531	1/4	74,075	1/4	61,618
1/2	1/2	161,008	148,552	1/2	148,552	1/2	136,096	1/2	123,640	1/2	111,184	1/2	98,727	1/2	86,271	1/2	73,815	1/2	61,359
3/4	3/4	160,749	148,292	3/4	148,292	3/4	135,836	3/4	123,380	3/4	110,924	3/4	98,468	3/4	86,012	3/4	73,556	3/4	61,099
6		6	160,489	6	148,033	6	135,577	6	123,121	6	110,665	6	98,208	6	85,752	6	73,296	6	60,840
1/4	1/4	160,230	147,773	1/4	147,773	1/4	135,317	1/4	122,861	1/4	110,405	1/4	97,949	1/4	85,493	1/4	73,037	1/4	60,580
1/2	1/2	159,970	147,514	1/2	147,514	1/2	135,058	1/2	122,602	1/2	110,146	1/2	97,689	1/2	85,233	1/2	72,777	1/2	60,321
3/4	3/4	159,711	147,254	3/4	147,254	3/4	134,798	3/4	122,342	3/4	109,886	3/4	97,430	3/4	84,974	3/4	72,518	3/4	60,061
7		7	159,451	7	146,995	7	134,539	7	122,083	7	109,627	7	97,170	7	84,714	7	72,258	7	59,802
1/4	1/4	159,192	146,735	1/4	146,735	1/4	134,279	1/4	121,823	1/4	109,367	1/4	96,911	1/4	84,455	1/4	71,999	1/4	59,542
1/2	1/2	158,932	146,476	1/2	146,476	1/2	134,020	1/2	121,564	1/2	109,107	1/2	96,651	1/2	84,195	1/2	71,739	1/2	59,283
3/4	3/4	158,673	146,216	3/4	146,216	3/4	133,760	3/4	121,304	3/4	108,848	3/4	96,392	3/4	83,936	3/4	71,480	3/4	59,023
8		8	158,413	8	145,957	8	133,501	8	121,045	8	108,588	8	96,132	8	83,676	8	71,220	8	58,764
1/4	1/4	158,154	145,697	1/4	145,697	1/4	133,241	1/4	120,785	1/4	108,329	1/4	95,873	1/4	83,417	1/4	70,961	1/4	58,504
1/2	1/2	157,894	145,438	1/2	145,438	1/2	132,982	1/2	120,526	1/2	108,069	1/2	95,613	1/2	83,157	1/2	70,701	1/2	58,245
3/4	3/4	157,635	145,178	3/4	145,178	3/4	132,722	3/4	120,266	3/4	107,810	3/4	95,354	3/4	82,898	3/4	70,442	3/4	57,985
9		9	157,375	9	144,919	9	132,463	9	120,007	9	107,550	9	95,094	9	82,638	9	70,182	9	57,726
1/4	1/4	157,116	144,659	1/4	144,659	1/4	132,203	1/4	119,747	1/4	107,291	1/4	94,835	1/4	82,379	1/4	69,923	1/4	57,466
1/2	1/2	156,856	144,400	1/2	144,400	1/2	131,944	1/2	119,488	1/2	107,031	1/2	94,575	1/2	82,119	1/2	69,663	1/2	57,207
3/4	3/4	156,597	144,140	3/4	144,140	3/4	131,684	3/4	119,228	3/4	106,772	3/4	94,316	3/4	81,860	3/4	69,404	3/4	56,947
10		10	156,337	10	143,881	10	131,425	10	118,969	10	106,512	10	94,056	10	81,600	10	69,144	10	56,688
1/4	1/4	156,078	143,621	1/4	143,621	1/4	131,165	1/4	118,709	1/4	106,253	1/4	93,797	1/4	81,341	1/4	68,885	1/4	56,428
1/2	1/2	155,818	143,362	1/2	143,362	1/2	130,906	1/2	118,450	1/2	105,993	1/2	93,537	1/2	81,081	1/2	68,625	1/2	56,169
3/4	3/4	155,559	143,102	3/4	143,102	3/4	130,646	3/4	118,190	3/4	105,734	3/4	93,278	3/4	80,822	3/4	68,366	3/4	55,909
11		11	155,299	11	142,843	11	130,387	11	117,931	11	105,474	11	93,018	11	80,562	11	68,106	11	55,650
1/4	1/4	155,040	142,583	1/4	142,583	1/4	130,127	1/4	117,671	1/4	105,215	1/4	92,759	1/4	80,303	1/4	67,847	1/4	55,390
1/2	1/2	154,780	142,324	1/2	142,324	1/2	129,868	1/2	117,412	1/2	104,955	1/2	92,499	1/2	80,043	1/2	67,587	1/2	55,131
3/4	3/4	154,521	142,064	3/4	142,064	3/4	129,608	3/4	117,152	3/4	104,696	3/4	92,240	3/4	79,784	3/4	67,328	3/4	54,871

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 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "IB 1945"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	54,612	0	42,156	0	29,942	0	17,496	0	5,044	0		0		0		0		0	
1/4	54,352	1/4	41,896	1/4	29,685	1/4	17,237	1/4	4,786	1/4		1/4		1/4		1/4		1/4	
1/2	54,093	1/2	41,637	1/2	29,428	1/2	16,977	1/2	4,527	1/2		1/2		1/2		1/2		1/2	
3/4	53,833	3/4	41,377	3/4	29,171	3/4	16,718	3/4	4,269	3/4		3/4		3/4		3/4		3/4	
1	53,574	1	41,118	1	28,914	1	16,458	1	4,011	1		1		1		1		1	
1/4	53,314	1/4	40,858	1/4	28,654	1/4	16,199	1/4	3,754	1/4		1/4		1/4		1/4		1/4	
1/2	53,055	1/2	40,599	1/2	28,395	1/2	15,939	1/2	3,497	1/2		1/2		1/2		1/2		1/2	
3/4	52,795	3/4	40,339	3/4	28,135	3/4	15,680	3/4	3,240	3/4		3/4		3/4		3/4		3/4	
2	52,536	2	40,080	2	27,876	2	15,420	2	2,983	2		2		2		2		2	
1/4	52,276	1/4	39,824	1/4	27,616	1/4	15,161	1/4	2,728	1/4		1/4		1/4		1/4		1/4	
1/2	52,017	1/2	39,569	1/2	27,357	1/2	14,901	1/2	2,473	1/2		1/2		1/2		1/2		1/2	
3/4	51,757	3/4	39,313	3/4	27,097	3/4	14,642	3/4	2,218	3/4		3/4		3/4		3/4		3/4	
3	51,498	3	39,057	3	26,838	3	14,382	3	1,963	3		3		3		3		3	
1/4	51,238	1/4	38,804	1/4	26,578	1/4	14,123	1/4	1,733	1/4		1/4		1/4		1/4		1/4	
1/2	50,979	1/2	38,551	1/2	26,319	1/2	13,863	1/2	1,503	1/2		1/2		1/2		1/2		1/2	
3/4	50,719	3/4	38,298	3/4	26,059	3/4	13,604	3/4	1,272	3/4		3/4		3/4		3/4		3/4	
4	50,460	4	38,044	4	25,800	4	13,344	4	1,042	4		4		4		4		4	
1/4	50,200	1/4	37,791	1/4	25,540	1/4	13,085	1/4	880	1/4		1/4		1/4		1/4		1/4	
1/2	49,941	1/2	37,538	1/2	25,281	1/2	12,825	1/2	718	1/2		1/2		1/2		1/2		1/2	
3/4	49,681	3/4	37,285	3/4	25,021	3/4	12,566	3/4	556	3/4		3/4		3/4		3/4		3/4	
5	49,422	5	37,032	5	24,762	5	12,306	5	394	5		5		5		5		5	
1/4	49,162	1/4	36,778	1/4	24,502	1/4	12,047	1/4	318	1/4		1/4		1/4		1/4		1/4	
1/2	48,903	1/2	36,525	1/2	24,243	1/2	11,787	1/2	243	1/2		1/2		1/2		1/2		1/2	
3/4	48,643	3/4	36,272	3/4	23,983	3/4	11,528	3/4	167	3/4		3/4		3/4		3/4		3/4	
6	48,384	6	36,019	6	23,724	6	11,268	6	91	6		6		6		6		6	
1/4	48,124	1/4	35,766	1/4	23,464	1/4	11,009	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	47,865	1/2	35,512	1/2	23,205	1/2	10,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	47,605	3/4	35,259	3/4	22,945	3/4	10,490	3/4		3/4		3/4		3/4		3/4		3/4	
7	47,346	7	35,006	7	22,686	7	10,230	7		7		7		7		7		7	
1/4	47,086	1/4	34,753	1/4	22,426	1/4	9,971	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46,827	1/2	34,500	1/2	22,167	1/2	9,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	46,567	3/4	34,246	3/4	21,907	3/4	9,452	3/4		3/4		3/4		3/4		3/4		3/4	
8	46,308	8	33,993	8	21,648	8	9,192	8		8		8		8		8		8	
1/4	46,048	1/4	33,740	1/4	21,388	1/4	8,933	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45,789	1/2	33,487	1/2	21,129	1/2	8,673	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	45,529	3/4	33,234	3/4	20,869	3/4	8,414	3/4		3/4		3/4		3/4		3/4		3/4	
9	45,270	9	32,981	9	20,610	9	8,154	9		9		9		9		9		9	
1/4	45,010	1/4	32,727	1/4	20,351	1/4	7,895	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44,751	1/2	32,474	1/2	20,091	1/2	7,635	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44,491	3/4	32,221	3/4	19,832	3/4	7,376	3/4		3/4		3/4		3/4		3/4		3/4	
10	44,232	10	31,968	10	19,572	10	7,117	10		10		10		10		10		10	
1/4	43,972	1/4	31,715	1/4	19,313	1/4	6,857	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	43,713	1/2	31,461	1/2	19,053	1/2	6,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	43,453	3/4	31,208	3/4	18,794	3/4	6,339	3/4		3/4		3/4		3/4		3/4		3/4	
11	43,194	11	30,955	11	18,534	11	6,079	11		11		11		11		11		11	
1/4	42,934	1/4	30,702	1/4	18,275	1/4	5,820	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42,675	1/2	30,449	1/2	18,015	1/2	5,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42,415	3/4	30,196	3/4	17,756	3/4	5,303	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/10/2013 SW  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "IB 1945"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	164,020	0	152,712	0	140,358	0	128,005	0	115,651	0	103,297	0	90,943	0	78,589	0	66,235
1/4		1/4	163,958	1/4	152,455	1/4	140,101	1/4	127,747	1/4	115,393	1/4	103,039	1/4	90,686	1/4	78,332	1/4	65,978
1/2		1/2	163,897	1/2	152,198	1/2	139,844	1/2	127,490	1/2	115,136	1/2	102,782	1/2	90,428	1/2	78,074	1/2	65,720
3/4		3/4	163,757	3/4	151,940	3/4	139,586	3/4	127,232	3/4	114,879	3/4	102,525	3/4	90,171	3/4	77,817	3/4	65,463
1		1	163,618	1	151,683	1	139,329	1	126,975	1	114,621	1	102,267	1	89,913	1	77,560	1	65,206
1/4		1/4	163,478	1/4	151,425	1/4	139,072	1/4	126,718	1/4	114,364	1/4	102,010	1/4	89,656	1/4	77,302	1/4	64,948
1/2		1/2	163,339	1/2	151,168	1/2	138,814	1/2	126,460	1/2	114,106	1/2	101,753	1/2	89,399	1/2	77,045	1/2	64,691
3/4		3/4	163,121	3/4	150,911	3/4	138,557	3/4	126,203	3/4	113,849	3/4	101,495	3/4	89,141	3/4	76,787	3/4	64,434
2		2	162,904	2	150,653	2	138,299	2	125,946	2	113,592	2	101,238	2	88,884	2	76,530	2	64,176
1/4		1/4	162,686	1/4	150,396	1/4	138,042	1/4	125,688	1/4	113,334	1/4	100,980	1/4	88,627	1/4	76,273	1/4	63,919
1/2		1/2	162,469	1/2	150,139	1/2	137,785	1/2	125,431	1/2	113,077	1/2	100,723	1/2	88,369	1/2	76,015	1/2	63,661
3/4		3/4	162,216	3/4	149,881	3/4	137,527	3/4	125,173	3/4	112,820	3/4	100,466	3/4	88,112	3/4	75,758	3/4	63,404
3		3	161,964	3	149,624	3	137,270	3	124,916	3	112,562	3	100,208	3	87,854	3	75,501	3	63,147
1/4		1/4	161,712	1/4	149,366	1/4	137,013	1/4	124,659	1/4	112,305	1/4	99,951	1/4	87,597	1/4	75,243	1/4	62,889
1/2		1/2	161,460	1/2	149,109	1/2	136,755	1/2	124,401	1/2	112,047	1/2	99,694	1/2	87,340	1/2	74,986	1/2	62,632
3/4		3/4	161,203	3/4	148,852	3/4	136,498	3/4	124,144	3/4	111,790	3/4	99,436	3/4	87,082	3/4	74,728	3/4	62,375
4		4	160,947	4	148,594	4	136,240	4	123,887	4	111,533	4	99,179	4	86,825	4	74,471	4	62,117
1/4		1/4	160,690	1/4	148,337	1/4	135,983	1/4	123,629	1/4	111,275	1/4	98,921	1/4	86,568	1/4	74,214	1/4	61,860
1/2		1/2	160,433	1/2	148,080	1/2	135,726	1/2	123,372	1/2	111,018	1/2	98,664	1/2	86,310	1/2	73,956	1/2	61,603
3/4		3/4	160,176	3/4	147,822	3/4	135,468	3/4	123,114	3/4	110,761	3/4	98,407	3/4	86,053	3/4	73,699	3/4	61,345
5		5	159,919	5	147,565	5	135,211	5	122,857	5	110,503	5	98,149	5	85,796	5	73,442	5	61,088
1/4		1/4	159,661	1/4	147,307	1/4	134,954	1/4	122,600	1/4	110,246	1/4	97,892	1/4	85,538	1/4	73,184	1/4	60,830
1/2		1/2	159,404	1/2	147,050	1/2	134,696	1/2	122,342	1/2	109,989	1/2	97,635	1/2	85,281	1/2	72,927	1/2	60,573
3/4		3/4	159,147	3/4	146,793	3/4	134,439	3/4	122,085	3/4	109,731	3/4	97,377	3/4	85,023	3/4	72,670	3/4	60,316
6		6	158,889	6	146,535	6	134,181	6	121,828	6	109,474	6	97,120	6	84,766	6	72,412	6	60,058
1/4		1/4	158,632	1/4	146,278	1/4	133,924	1/4	121,570	1/4	109,216	1/4	96,863	1/4	84,509	1/4	72,155	1/4	59,801
1/2		1/2	158,374	1/2	146,021	1/2	133,667	1/2	121,313	1/2	108,959	1/2	96,605	1/2	84,251	1/2	71,897	1/2	59,544
3/4		3/4	158,117	3/4	145,763	3/4	133,409	3/4	121,056	3/4	108,702	3/4	96,348	3/4	83,994	3/4	71,640	3/4	59,286
7		7	157,860	7	145,506	7	133,152	7	120,798	7	108,444	7	96,090	7	83,737	7	71,383	7	59,029
1/4		1/4	157,602	1/4	145,249	1/4	132,895	1/4	120,541	1/4	108,187	1/4	95,833	1/4	83,479	1/4	71,125	1/4	58,771
1/2		1/2	157,345	1/2	144,991	1/2	132,637	1/2	120,283	1/2	107,930	1/2	95,576	1/2	83,222	1/2	70,868	1/2	58,514
3/4		3/4	157,088	3/4	144,734	3/4	132,380	3/4	120,026	3/4	107,672	3/4	95,318	3/4	82,964	3/4	70,611	3/4	58,257
8		8	156,830	8	144,476	8	132,123	8	119,769	8	107,415	8	95,061	8	82,707	8	70,353	8	57,999
1/4		1/4	156,573	1/4	144,219	1/4	131,865	1/4	119,511	1/4	107,157	1/4	94,804	1/4	82,450	1/4	70,096	1/4	57,742
1/2		1/2	156,316	1/2	143,962	1/2	131,608	1/2	119,254	1/2	106,900	1/2	94,546	1/2	82,192	1/2	69,838	1/2	57,485
3/4		3/4	156,058	3/4	143,704	3/4	131,350	3/4	118,997	3/4	106,643	3/4	94,289	3/4	81,935	3/4	69,581	3/4	57,227
9		9	155,801	9	143,447	9	131,093	9	118,739	9	106,385	9	94,031	9	81,678	9	69,324	9	56,970
1/4		1/4	155,543	1/4	143,190	1/4	130,836	1/4	118,482	1/4	106,128	1/4	93,774	1/4	81,420	1/4	69,066	1/4	56,712
1/2		1/2	155,286	1/2	142,932	1/2	130,578	1/2	118,224	1/2	105,871	1/2	93,517	1/2	81,163	1/2	68,809	1/2	56,455
3/4		3/4	155,029	3/4	142,675	3/4	130,321	3/4	117,967	3/4	105,613	3/4	93,259	3/4	80,905	3/4	68,552	3/4	56,198
10		10	154,771	10	142,417	10	130,064	10	117,710	10	105,356	10	93,002	10	80,648	10	68,294	10	55,940
1/4		1/4	154,514	1/4	142,160	1/4	129,806	1/4	117,452	1/4	105,098	1/4	92,745	1/4	80,391	1/4	68,037	1/4	55,683
1/2		1/2	154,257	1/2	141,903	1/2	129,549	1/2	117,195	1/2	104,841	1/2	92,487	1/2	80,133	1/2	67,779	1/2	55,426
3/4		3/4	153,999	3/4	141,645	3/4	129,291	3/4	116,938	3/4	104,584	3/4	92,230	3/4	79,876	3/4	67,522	3/4	55,168
11		11	153,742	11	141,388	11	129,034	11	116,680	11	104,326	11	91,972	11	79,619	11	67,265	11	54,911
1/4		1/4	153,484	1/4	141,131	1/4	128,777	1/4	116,423	1/4	104,069	1/4	91,715	1/4	79,361	1/4	67,007	1/4	54,653
1/2	164,143	1/2	153,227	1/2	140,873	1/2	128,519	1/2	116,165	1/2	103,812	1/2	91,458	1/2	79,104	1/2	66,750	1/2	54,396
3/4	164,082	3/4	152,970	3/4	140,616	3/4	128,262	3/4	115,908	3/4	103,554	3/4	91,200	3/4	78,846	3/4	66,493	3/4	54,139

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 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "IB 1945"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	53,881	0	41,527	0	29,191	0	16,838	0	4,490	0		0		0		0		0	
1/4	53,624	1/4	41,270	1/4	28,934	1/4	16,580	1/4	4,234	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,367	1/2	41,013	1/2	28,677	1/2	16,323	1/2	3,978	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,109	3/4	40,755	3/4	28,419	3/4	16,066	3/4	3,723	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,852	1	40,498	1	28,162	1	15,808	1	3,468	1		1		1		1		1	
1/4	52,594	1/4	40,241	1/4	27,904	1/4	15,551	1/4	3,214	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,337	1/2	39,983	1/2	27,647	1/2	15,294	1/2	2,959	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,080	3/4	39,726	3/4	27,390	3/4	15,036	3/4	2,706	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,822	2	39,469	2	27,132	2	14,779	2	2,453	2		2		2		2		2	
1/4	51,565	1/4	39,212	1/4	26,875	1/4	14,522	1/4	2,200	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,308	1/2	38,955	1/2	26,618	1/2	14,264	1/2	1,947	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,050	3/4	38,698	3/4	26,360	3/4	14,007	3/4	1,719	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	50,793	3	38,441	3	26,103	3	13,750	3	1,490	3		3		3		3		3	
1/4	50,536	1/4	38,184	1/4	25,846	1/4	13,492	1/4	1,262	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,278	1/2	37,927	1/2	25,588	1/2	13,235	1/2	1,034	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,021	3/4	37,670	3/4	25,331	3/4	12,977	3/4	873	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,763	4	37,413	4	25,073	4	12,720	4	712	4		4		4		4		4	
1/4	49,506	1/4	37,156	1/4	24,816	1/4	12,463	1/4	552	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,249	1/2	36,899	1/2	24,559	1/2	12,205	1/2	391	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,991	3/4	36,642	3/4	24,301	3/4	11,948	3/4	316	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,734	5	36,385	5	24,044	5	11,691	5	241	5		5		5		5		5	
1/4	48,477	1/4	36,128	1/4	23,787	1/4	11,433	1/4	166	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,219	1/2	35,871	1/2	23,529	1/2	11,176	1/2	91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,962	3/4	35,614	3/4	23,272	3/4	10,919	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,704	6	35,358	6	23,015	6	10,661	6		6		6		6		6		6	
1/4	47,447	1/4	35,101	1/4	22,757	1/4	10,404	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,190	1/2	34,844	1/2	22,500	1/2	10,146	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,932	3/4	34,587	3/4	22,242	3/4	9,889	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,675	7	34,330	7	21,985	7	9,632	7		7		7		7		7		7	
1/4	46,418	1/4	34,073	1/4	21,728	1/4	9,374	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,160	1/2	33,816	1/2	21,470	1/2	9,117	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,903	3/4	33,559	3/4	21,213	3/4	8,860	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,645	8	33,302	8	20,956	8	8,602	8		8		8		8		8		8	
1/4	45,388	1/4	33,045	1/4	20,698	1/4	8,345	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,131	1/2	32,788	1/2	20,441	1/2	8,088	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,873	3/4	32,531	3/4	20,184	3/4	7,830	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,616	9	32,275	9	19,926	9	7,573	9		9		9		9		9		9	
1/4	44,359	1/4	32,018	1/4	19,669	1/4	7,316	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,101	1/2	31,761	1/2	19,411	1/2	7,058	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,844	3/4	31,504	3/4	19,154	3/4	6,801	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,586	10	31,247	10	18,897	10	6,544	10		10		10		10		10		10	
1/4	43,329	1/4	30,990	1/4	18,639	1/4	6,287	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,072	1/2	30,733	1/2	18,382	1/2	6,030	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,814	3/4	30,476	3/4	18,125	3/4	5,773	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,557	11	30,219	11	17,867	11	5,516	11		11		11		11		11		11	
1/4	42,300	1/4	29,962	1/4	17,610	1/4	5,259	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,042	1/2	29,705	1/2	17,353	1/2	5,002	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,785	3/4	29,448	3/4	17,095	3/4	4,746	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.

STRAPPED: 10/10/2013 SW  
CALCULATED: 10/10/2013 CL  
PRINTED: 10/10/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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