



# BARGE "IB 1949"

## 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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2
3 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/2	- 00-1/2	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 2 CENTER IS - 00-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 182'-06"

October 24, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "IB 1949"

## 1 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	159,462	0	151,291	0	141,716	0	132,141	0	121,548	0	108,594	0	95,642	0	82,688	0	69,743
1/4	1/4	159,442	1/4	151,092	1/4	141,517	1/4	131,942	1/4	121,278	1/4	108,324	1/4	95,372	1/4	82,418	1/4	69,474	
1/2	1/2	159,421	1/2	150,892	1/2	141,317	1/2	131,742	1/2	121,008	1/2	108,054	1/2	95,102	1/2	82,148	1/2	69,205	
3/4	3/4	159,401	3/4	150,693	3/4	141,118	3/4	131,543	3/4	120,738	3/4	107,785	3/4	94,832	3/4	81,878	3/4	68,935	
1		1	159,380	1	150,493	1	140,918	1	131,343	1	120,468	1	107,515	1	94,562	1	81,609	1	68,666
1/4	1/4	159,305	1/4	150,294	1/4	140,719	1/4	131,144	1/4	120,198	1/4	107,245	1/4	94,292	1/4	81,339	1/4	68,397	
1/2	1/2	159,229	1/2	150,094	1/2	140,519	1/2	130,944	1/2	119,929	1/2	106,975	1/2	94,022	1/2	81,069	1/2	68,128	
3/4	3/4	159,153	3/4	149,895	3/4	140,320	3/4	130,745	3/4	119,659	3/4	106,705	3/4	93,753	3/4	80,799	3/4	67,858	
2		2	159,078	2	149,695	2	140,120	2	130,545	2	119,389	2	106,435	2	93,483	2	80,529	2	67,589
1/4	1/4	158,920	1/4	149,496	1/4	139,921	1/4	130,346	1/4	119,119	1/4	106,166	1/4	93,213	1/4	80,259	1/4	67,320	
1/2	1/2	158,763	1/2	149,296	1/2	139,721	1/2	130,146	1/2	118,849	1/2	105,896	1/2	92,943	1/2	79,989	1/2	67,051	
3/4	3/4	158,605	3/4	149,097	3/4	139,522	3/4	129,947	3/4	118,579	3/4	105,626	3/4	92,673	3/4	79,720	3/4	66,781	
3		3	158,447	3	148,897	3	139,322	3	129,747	3	118,309	3	105,356	3	92,403	3	79,450	3	66,512
1/4	1/4	158,253	1/4	148,698	1/4	139,123	1/4	129,548	1/4	118,039	1/4	105,086	1/4	92,133	1/4	79,180	1/4	66,243	
1/2	1/2	158,059	1/2	148,498	1/2	138,923	1/2	129,349	1/2	117,770	1/2	104,816	1/2	91,863	1/2	78,910	1/2	65,974	
3/4	3/4	157,865	3/4	148,299	3/4	138,724	3/4	129,149	3/4	117,500	3/4	104,546	3/4	91,594	3/4	78,640	3/4	65,704	
4		4	157,671	4	148,099	4	138,524	4	128,950	4	117,230	4	104,277	4	91,324	4	78,370	4	65,435
1/4	1/4	157,473	1/4	147,900	1/4	138,325	1/4	128,750	1/4	116,960	1/4	104,007	1/4	91,054	1/4	78,100	1/4	65,166	
1/2	1/2	157,274	1/2	147,700	1/2	138,126	1/2	128,551	1/2	116,690	1/2	103,737	1/2	90,784	1/2	77,830	1/2	64,897	
3/4	3/4	157,075	3/4	147,501	3/4	137,926	3/4	128,351	3/4	116,420	3/4	103,467	3/4	90,514	3/4	77,561	3/4	64,627	
5		5	156,876	5	147,301	5	137,727	5	128,152	5	116,150	5	103,197	5	90,244	5	77,291	5	64,358
1/4	1/4	156,677	1/4	147,102	1/4	137,527	1/4	127,952	1/4	115,881	1/4	102,927	1/4	89,974	1/4	77,021	1/4	64,089	
1/2	1/2	156,477	1/2	146,903	1/2	137,328	1/2	127,753	1/2	115,611	1/2	102,658	1/2	89,705	1/2	76,751	1/2	63,819	
3/4	3/4	156,278	3/4	146,703	3/4	137,128	3/4	127,553	3/4	115,341	3/4	102,388	3/4	89,435	3/4	76,481	3/4	63,550	
6		6	156,078	6	146,504	6	136,929	6	127,354	6	115,071	6	102,118	6	89,165	6	76,211	6	63,281
1/4	1/4	155,879	1/4	146,304	1/4	136,729	1/4	127,154	1/4	114,801	1/4	101,848	1/4	88,895	1/4	75,941	1/4	63,011	
1/2	1/2	155,679	1/2	146,105	1/2	136,530	1/2	126,955	1/2	114,531	1/2	101,578	1/2	88,625	1/2	75,672	1/2	62,742	
3/4	3/4	155,480	3/4	145,905	3/4	136,330	3/4	126,755	3/4	114,261	3/4	101,308	3/4	88,355	3/4	75,402	3/4	62,472	
7		7	155,281	7	145,706	7	136,131	7	126,556	7	113,992	7	101,039	7	88,085	7	75,132	7	62,203
1/4	1/4	155,081	1/4	145,506	1/4	135,931	1/4	126,357	1/4	113,722	1/4	100,769	1/4	87,815	1/4	74,862	1/4	61,933	
1/2	1/2	154,882	1/2	145,307	1/2	135,732	1/2	126,158	1/2	113,452	1/2	100,499	1/2	87,546	1/2	74,592	1/2	61,663	
3/4	3/4	154,682	3/4	145,107	3/4	135,532	3/4	125,958	3/4	113,182	3/4	100,229	3/4	87,276	3/4	74,322	3/4	61,393	
8		8	154,483	8	144,908	8	135,333	8	125,759	8	112,912	8	99,959	8	87,006	8	74,052	8	61,124
1/4	1/4	154,283	1/4	144,708	1/4	135,133	1/4	125,516	1/4	112,642	1/4	99,689	1/4	86,736	1/4	73,783	1/4	60,854	
1/2	1/2	154,084	1/2	144,509	1/2	134,934	1/2	125,273	1/2	112,372	1/2	99,420	1/2	86,466	1/2	73,513	1/2	60,584	
3/4	3/4	153,884	3/4	144,309	3/4	134,734	3/4	125,029	3/4	112,102	3/4	99,150	3/4	86,196	3/4	73,244	3/4	60,315	
9		9	153,685	9	144,110	9	134,535	9	124,786	9	111,833	9	98,880	9	85,926	9	72,974	9	60,045
1/4	1/4	153,485	1/4	143,910	1/4	134,335	1/4	124,516	1/4	111,563	1/4	98,610	1/4	85,657	1/4	72,705	1/4	59,775	
1/2	1/2	153,286	1/2	143,711	1/2	134,136	1/2	124,246	1/2	111,293	1/2	98,340	1/2	85,387	1/2	72,436	1/2	59,505	
3/4	3/4	153,086	3/4	143,511	3/4	133,937	3/4	123,977	3/4	111,023	3/4	98,070	3/4	85,117	3/4	72,167	3/4	59,236	
10		10	152,887	10	143,312	10	133,737	10	123,707	10	110,753	10	97,800	10	84,847	10	71,897	10	58,966
1/4	1/4	152,687	1/4	143,112	1/4	133,538	1/4	123,437	1/4	110,483	1/4	97,531	1/4	84,577	1/4	71,628	1/4	58,696	
1/2	1/2	152,488	1/2	142,913	1/2	133,338	1/2	123,167	1/2	110,213	1/2	97,261	1/2	84,307	1/2	71,359	1/2	58,426	
3/4	3/4	152,288	3/4	142,713	3/4	133,139	3/4	122,897	3/4	109,944	3/4	96,991	3/4	84,037	3/4	71,090	3/4	58,157	
11		11	152,089	11	142,514	11	132,939	11	122,627	11	109,674	11	96,721	11	83,768	11	70,820	11	57,887
1/4	1/4	151,889	1/4	142,315	1/4	132,740	1/4	122,357	1/4	109,404	1/4	96,451	1/4	83,498	1/4	70,551	1/4	57,617	
1/2	1/2	151,690	1/2	142,115	1/2	132,540	1/2	122,087	1/2	109,134	1/2	96,181	1/2	83,228	1/2	70,282	1/2	57,347	
3/4	3/4	151,490	3/4	141,916	3/4	132,341	3/4	121,818	3/4	108,864	3/4	95,911	3/4	82,958	3/4	70,013	3/4	57,078	

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 1949"

## 1 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	56,808	0	43,861	0	31,154	0	18,210	0	5,254	0		0		0		0		0	
1/4	56,538	1/4	43,591	1/4	30,887	1/4	17,940	1/4	4,985	1/4		1/4		1/4		1/4		1/4	
1/2	56,269	1/2	43,321	1/2	30,619	1/2	17,670	1/2	4,716	1/2		1/2		1/2		1/2		1/2	
3/4	55,999	3/4	43,051	3/4	30,352	3/4	17,400	3/4	4,447	3/4		3/4		3/4		3/4		3/4	
1	55,729	1	42,782	1	30,084	1	17,130	1	4,178	1		1		1		1		1	
1/4	55,459	1/4	42,512	1/4	29,814	1/4	16,860	1/4	3,910	1/4		1/4		1/4		1/4		1/4	
1/2	55,190	1/2	42,242	1/2	29,544	1/2	16,590	1/2	3,642	1/2		1/2		1/2		1/2		1/2	
3/4	54,920	3/4	41,973	3/4	29,275	3/4	16,321	3/4	3,375	3/4		3/4		3/4		3/4		3/4	
2	54,650	2	41,703	2	29,005	2	16,051	2	3,107	2		2		2		2		2	
1/4	54,380	1/4	41,437	1/4	28,735	1/4	15,781	1/4	2,841	1/4		1/4		1/4		1/4		1/4	
1/2	54,111	1/2	41,171	1/2	28,465	1/2	15,511	1/2	2,575	1/2		1/2		1/2		1/2		1/2	
3/4	53,841	3/4	40,905	3/4	28,195	3/4	15,241	3/4	2,310	3/4		3/4		3/4		3/4		3/4	
3	53,571	3	40,639	3	27,925	3	14,971	3	2,044	3		3		3		3		3	
1/4	53,301	1/4	40,376	1/4	27,655	1/4	14,701	1/4	1,804	1/4		1/4		1/4		1/4		1/4	
1/2	53,032	1/2	40,112	1/2	27,385	1/2	14,431	1/2	1,564	1/2		1/2		1/2		1/2		1/2	
3/4	52,762	3/4	39,849	3/4	27,116	3/4	14,162	3/4	1,324	3/4		3/4		3/4		3/4		3/4	
4	52,492	4	39,585	4	26,846	4	13,892	4	1,085	4		4		4		4		4	
1/4	52,222	1/4	39,322	1/4	26,576	1/4	13,622	1/4	916	1/4		1/4		1/4		1/4		1/4	
1/2	51,953	1/2	39,058	1/2	26,306	1/2	13,352	1/2	747	1/2		1/2		1/2		1/2		1/2	
3/4	51,683	3/4	38,795	3/4	26,036	3/4	13,082	3/4	578	3/4		3/4		3/4		3/4		3/4	
5	51,413	5	38,531	5	25,766	5	12,812	5	409	5		5		5		5		5	
1/4	51,144	1/4	38,268	1/4	25,496	1/4	12,542	1/4	330	1/4		1/4		1/4		1/4		1/4	
1/2	50,874	1/2	38,004	1/2	25,226	1/2	12,272	1/2	251	1/2		1/2		1/2		1/2		1/2	
3/4	50,604	3/4	37,741	3/4	24,957	3/4	12,003	3/4	173	3/4		3/4		3/4		3/4		3/4	
6	50,334	6	37,477	6	24,687	6	11,733	6	94	6		6		6		6		6	
1/4	50,065	1/4	37,214	1/4	24,417	1/4	11,463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	49,795	1/2	36,951	1/2	24,147	1/2	11,193	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	49,525	3/4	36,687	3/4	23,877	3/4	10,923	3/4		3/4		3/4		3/4		3/4		3/4	
7	49,255	7	36,424	7	23,607	7	10,653	7		7		7		7		7		7	
1/4	48,986	1/4	36,160	1/4	23,337	1/4	10,383	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	48,716	1/2	35,897	1/2	23,067	1/2	10,113	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48,446	3/4	35,633	3/4	22,798	3/4	9,843	3/4		3/4		3/4		3/4		3/4		3/4	
8	48,176	8	35,370	8	22,528	8	9,573	8		8		8		8		8		8	
1/4	47,907	1/4	35,106	1/4	22,258	1/4	9,303	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	47,637	1/2	34,843	1/2	21,988	1/2	9,033	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	47,367	3/4	34,579	3/4	21,718	3/4	8,762	3/4		3/4		3/4		3/4		3/4		3/4	
9	47,098	9	34,316	9	21,448	9	8,492	9		9		9		9		9		9	
1/4	46,828	1/4	34,052	1/4	21,178	1/4	8,222	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46,558	1/2	33,789	1/2	20,908	1/2	7,952	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	46,288	3/4	33,525	3/4	20,639	3/4	7,682	3/4		3/4		3/4		3/4		3/4		3/4	
10	46,019	10	33,262	10	20,369	10	7,412	10		10		10		10		10		10	
1/4	45,749	1/4	32,998	1/4	20,099	1/4	7,142	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45,479	1/2	32,735	1/2	19,829	1/2	6,872	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	45,209	3/4	32,471	3/4	19,559	3/4	6,603	3/4		3/4		3/4		3/4		3/4		3/4	
11	44,940	11	32,208	11	19,289	11	6,333	11		11		11		11		11		11	
1/4	44,670	1/4	31,944	1/4	19,019	1/4	6,063	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44,400	1/2	31,681	1/2	18,749	1/2	5,793	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44,130	3/4	31,418	3/4	18,480	3/4	5,524	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2013 CL  
CALCULATED: 10/24/2013 CL  
PRINTED: 10/24/2013 SW

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 1949"

## 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		IN	
0		0	165,004	0	154,015	0	141,579	0	129,142	0	116,706	0	104,270	0	91,834	0	79,397	0	66,961		
1/4	1/4	1/4	164,942	1/4	153,756	1/4	141,320	1/4	128,883	1/4	116,447	1/4	104,011	1/4	91,574	1/4	79,138	1/4	66,702		
1/2	1/2	1/2	164,880	1/2	153,497	1/2	141,060	1/2	128,624	1/2	116,188	1/2	103,752	1/2	91,315	1/2	78,879	1/2	66,443		
3/4	3/4	3/4	164,818	3/4	153,238	3/4	140,801	3/4	128,365	3/4	115,929	3/4	103,493	3/4	91,056	3/4	78,620	3/4	66,184		
1		1	164,756	1	152,979	1	140,542	1	128,106	1	115,670	1	103,233	1	90,797	1	78,361	1	65,925		
1/4	1/4	1/4	164,615	1/4	152,719	1/4	140,283	1/4	127,847	1/4	115,411	1/4	102,974	1/4	90,538	1/4	78,102	1/4	65,666		
1/2	1/2	1/2	164,475	1/2	152,460	1/2	140,024	1/2	127,588	1/2	115,152	1/2	102,715	1/2	90,279	1/2	77,843	1/2	65,406		
3/4	3/4	3/4	164,335	3/4	152,201	3/4	139,765	3/4	127,329	3/4	114,892	3/4	102,456	3/4	90,020	3/4	77,584	3/4	65,147		
2		2	164,194	2	151,942	2	139,506	2	127,070	2	114,633	2	102,197	2	89,761	2	77,325	2	64,888		
1/4	1/4	1/4	163,975	1/4	151,683	1/4	139,247	1/4	126,811	1/4	114,374	1/4	101,938	1/4	89,502	1/4	77,065	1/4	64,629		
1/2	1/2	1/2	163,756	1/2	151,424	1/2	138,988	1/2	126,551	1/2	114,115	1/2	101,679	1/2	89,243	1/2	76,806	1/2	64,370		
3/4	3/4	3/4	163,537	3/4	151,165	3/4	138,729	3/4	126,292	3/4	113,856	3/4	101,420	3/4	88,984	3/4	76,547	3/4	64,111		
3		3	163,318	3	150,906	3	138,470	3	126,033	3	113,597	3	101,161	3	88,724	3	76,288	3	63,852		
1/4	1/4	1/4	163,064	1/4	150,647	1/4	138,210	1/4	125,774	1/4	113,338	1/4	100,902	1/4	88,465	1/4	76,029	1/4	63,593		
1/2	1/2	1/2	162,811	1/2	150,388	1/2	137,951	1/2	125,515	1/2	113,079	1/2	100,643	1/2	88,206	1/2	75,770	1/2	63,334		
3/4	3/4	3/4	162,557	3/4	150,129	3/4	137,692	3/4	125,256	3/4	112,820	3/4	100,384	3/4	87,947	3/4	75,511	3/4	63,075		
4		4	162,303	4	149,870	4	137,433	4	124,997	4	112,561	4	100,124	4	87,688	4	75,252	4	62,816		
1/4	1/4	1/4	162,045	1/4	149,610	1/4	137,174	1/4	124,738	1/4	112,302	1/4	99,865	1/4	87,429	1/4	74,993	1/4	62,557		
1/2	1/2	1/2	161,786	1/2	149,351	1/2	136,915	1/2	124,479	1/2	112,043	1/2	99,606	1/2	87,170	1/2	74,734	1/2	62,297		
3/4	3/4	3/4	161,528	3/4	149,092	3/4	136,656	3/4	124,220	3/4	111,783	3/4	99,347	3/4	86,911	3/4	74,475	3/4	62,038		
5		5	161,269	5	148,833	5	136,397	5	123,961	5	111,524	5	99,088	5	86,652	5	74,216	5	61,779		
1/4	1/4	1/4	161,010	1/4	148,574	1/4	136,138	1/4	123,702	1/4	111,265	1/4	98,829	1/4	86,393	1/4	73,956	1/4	61,520		
1/2	1/2	1/2	160,751	1/2	148,315	1/2	135,879	1/2	123,442	1/2	111,006	1/2	98,570	1/2	86,134	1/2	73,697	1/2	61,261		
3/4	3/4	3/4	160,492	3/4	148,056	3/4	135,620	3/4	123,183	3/4	110,747	3/4	98,311	3/4	85,875	3/4	73,438	3/4	61,002		
6		6	160,233	6	147,797	6	135,361	6	122,924	6	110,488	6	98,052	6	85,615	6	73,179	6	60,743		
1/4	1/4	1/4	159,974	1/4	147,538	1/4	135,101	1/4	122,665	1/4	110,229	1/4	97,793	1/4	85,356	1/4	72,920	1/4	60,484		
1/2	1/2	1/2	159,715	1/2	147,279	1/2	134,842	1/2	122,406	1/2	109,970	1/2	97,534	1/2	85,097	1/2	72,661	1/2	60,225		
3/4	3/4	3/4	159,456	3/4	147,020	3/4	134,583	3/4	122,147	3/4	109,711	3/4	97,274	3/4	84,838	3/4	72,402	3/4	59,966		
7		7	159,197	7	146,760	7	134,324	7	121,888	7	109,452	7	97,015	7	84,579	7	72,143	7	59,707		
1/4	1/4	1/4	158,938	1/4	146,501	1/4	134,065	1/4	121,629	1/4	109,193	1/4	96,756	1/4	84,320	1/4	71,884	1/4	59,447		
1/2	1/2	1/2	158,679	1/2	146,242	1/2	133,806	1/2	121,370	1/2	108,933	1/2	96,497	1/2	84,061	1/2	71,625	1/2	59,188		
3/4	3/4	3/4	158,419	3/4	145,983	3/4	133,547	3/4	121,111	3/4	108,674	3/4	96,238	3/4	83,802	3/4	71,366	3/4	58,929		
8		8	158,160	8	145,724	8	133,288	8	120,852	8	108,415	8	95,979	8	83,543	8	71,106	8	58,670		
1/4	1/4	1/4	157,901	1/4	145,465	1/4	133,029	1/4	120,592	1/4	108,156	1/4	95,720	1/4	83,284	1/4	70,847	1/4	58,411		
1/2	1/2	1/2	157,642	1/2	145,206	1/2	132,770	1/2	120,333	1/2	107,897	1/2	95,461	1/2	83,025	1/2	70,588	1/2	58,152		
3/4	3/4	3/4	157,383	3/4	144,947	3/4	132,511	3/4	120,074	3/4	107,638	3/4	95,202	3/4	82,765	3/4	70,329	3/4	57,893		
9		9	157,124	9	144,688	9	132,251	9	119,815	9	107,379	9	94,943	9	82,506	9	70,070	9	57,634		
1/4	1/4	1/4	156,865	1/4	144,429	1/4	131,992	1/4	119,556	1/4	107,120	1/4	94,684	1/4	82,247	1/4	69,811	1/4	57,375		
1/2	1/2	1/2	156,606	1/2	144,170	1/2	131,733	1/2	119,297	1/2	106,861	1/2	94,424	1/2	81,988	1/2	69,552	1/2	57,116		
3/4	3/4	3/4	156,347	3/4	143,910	3/4	131,474	3/4	119,038	3/4	106,602	3/4	94,165	3/4	81,729	3/4	69,293	3/4	56,857		
10		10	156,088	10	143,651	10	131,215	10	118,779	10	106,343	10	93,906	10	81,470	10	69,034	10	56,597		
1/4	1/4	1/4	155,829	1/4	143,392	1/4	130,956	1/4	118,520	1/4	106,083	1/4	93,647	1/4	81,211	1/4	68,775	1/4	56,338		
1/2	1/2	1/2	155,569	1/2	143,133	1/2	130,697	1/2	118,261	1/2	105,824	1/2	93,388	1/2	80,952	1/2	68,516	1/2	56,079		
3/4	3/4	3/4	155,310	3/4	142,874	3/4	130,438	3/4	118,002	3/4	105,565	3/4	93,129	3/4	80,693	3/4	68,256	3/4	55,820		
11		11	155,051	11	142,615	11	130,179	11	117,742	11	105,306	11	92,870	11	80,434	11	67,997	11	55,561		
1/4	1/4	1/4	154,792	1/4	142,356	1/4	129,920	1/4	117,483	1/4	105,047	1/4	92,611	1/4	80,175	1/4	67,738	1/4	55,302		
1/2	1/2	1/2	154,533	1/2	142,097	1/2	129,661	1/2	117,224	1/2	104,788	1/2	92,352	1/2	79,915	1/2	67,479	1/2	55,043		
3/4	3/4	3/4	154,274	3/4	141,838	3/4	129,401	3/4	116,965	3/4	104,529	3/4	92,093	3/4	79,656	3/4	67,220	3/4	54,784		

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 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "IB 1949"

## 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	54,525	0	42,088	0	29,895	0	17,468	0	5,036	0		0		0		0		0	
1/4	54,266	1/4	41,829	1/4	29,638	1/4	17,209	1/4	4,778	1/4		1/4		1/4		1/4		1/4	
1/2	54,007	1/2	41,570	1/2	29,381	1/2	16,950	1/2	4,520	1/2		1/2		1/2		1/2		1/2	
3/4	53,747	3/4	41,311	3/4	29,124	3/4	16,691	3/4	4,262	3/4		3/4		3/4		3/4		3/4	
1	53,488	1	41,052	1	28,868	1	16,432	1	4,005	1		1		1		1		1	
1/4	53,229	1/4	40,793	1/4	28,609	1/4	16,173	1/4	3,748	1/4		1/4		1/4		1/4		1/4	
1/2	52,970	1/2	40,534	1/2	28,350	1/2	15,914	1/2	3,491	1/2		1/2		1/2		1/2		1/2	
3/4	52,711	3/4	40,275	3/4	28,090	3/4	15,655	3/4	3,235	3/4		3/4		3/4		3/4		3/4	
2	52,452	2	40,016	2	27,831	2	15,396	2	2,978	2		2		2		2		2	
1/4	52,193	1/4	39,761	1/4	27,572	1/4	15,136	1/4	2,724	1/4		1/4		1/4		1/4		1/4	
1/2	51,934	1/2	39,505	1/2	27,313	1/2	14,877	1/2	2,469	1/2		1/2		1/2		1/2		1/2	
3/4	51,675	3/4	39,250	3/4	27,054	3/4	14,618	3/4	2,214	3/4		3/4		3/4		3/4		3/4	
3	51,416	3	38,995	3	26,795	3	14,359	3	1,960	3		3		3		3		3	
1/4	51,157	1/4	38,742	1/4	26,536	1/4	14,100	1/4	1,730	1/4		1/4		1/4		1/4		1/4	
1/2	50,898	1/2	38,489	1/2	26,277	1/2	13,841	1/2	1,500	1/2		1/2		1/2		1/2		1/2	
3/4	50,638	3/4	38,236	3/4	26,018	3/4	13,582	3/4	1,270	3/4		3/4		3/4		3/4		3/4	
4	50,379	4	37,984	4	25,759	4	13,323	4	1,040	4		4		4		4		4	
1/4	50,120	1/4	37,731	1/4	25,500	1/4	13,064	1/4	879	1/4		1/4		1/4		1/4		1/4	
1/2	49,861	1/2	37,478	1/2	25,241	1/2	12,805	1/2	717	1/2		1/2		1/2		1/2		1/2	
3/4	49,602	3/4	37,225	3/4	24,981	3/4	12,546	3/4	555	3/4		3/4		3/4		3/4		3/4	
5	49,343	5	36,972	5	24,722	5	12,287	5	393	5		5		5		5		5	
1/4	49,084	1/4	36,720	1/4	24,463	1/4	12,027	1/4	318	1/4		1/4		1/4		1/4		1/4	
1/2	48,825	1/2	36,467	1/2	24,204	1/2	11,768	1/2	242	1/2		1/2		1/2		1/2		1/2	
3/4	48,566	3/4	36,214	3/4	23,945	3/4	11,509	3/4	167	3/4		3/4		3/4		3/4		3/4	
6	48,307	6	35,961	6	23,686	6	11,250	6	91	6		6		6		6		6	
1/4	48,048	1/4	35,709	1/4	23,427	1/4	10,991	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	47,788	1/2	35,456	1/2	23,168	1/2	10,732	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	47,529	3/4	35,203	3/4	22,909	3/4	10,473	3/4		3/4		3/4		3/4		3/4		3/4	
7	47,270	7	34,950	7	22,650	7	10,214	7		7		7		7		7		7	
1/4	47,011	1/4	34,697	1/4	22,391	1/4	9,955	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46,752	1/2	34,445	1/2	22,132	1/2	9,696	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	46,493	3/4	34,192	3/4	21,873	3/4	9,437	3/4		3/4		3/4		3/4		3/4		3/4	
8	46,234	8	33,939	8	21,613	8	9,178	8		8		8		8		8		8	
1/4	45,975	1/4	33,686	1/4	21,354	1/4	8,919	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45,716	1/2	33,433	1/2	21,095	1/2	8,659	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	45,457	3/4	33,181	3/4	20,836	3/4	8,400	3/4		3/4		3/4		3/4		3/4		3/4	
9	45,198	9	32,928	9	20,577	9	8,141	9		9		9		9		9		9	
1/4	44,938	1/4	32,675	1/4	20,318	1/4	7,882	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44,679	1/2	32,422	1/2	20,059	1/2	7,623	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44,420	3/4	32,170	3/4	19,800	3/4	7,364	3/4		3/4		3/4		3/4		3/4		3/4	
10	44,161	10	31,917	10	19,541	10	7,105	10		10		10		10		10		10	
1/4	43,902	1/4	31,664	1/4	19,282	1/4	6,846	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	43,643	1/2	31,411	1/2	19,023	1/2	6,587	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	43,384	3/4	31,158	3/4	18,764	3/4	6,328	3/4		3/4		3/4		3/4		3/4		3/4	
11	43,125	11	30,906	11	18,504	11	6,070	11		11		11		11		11		11	
1/4	42,866	1/4	30,653	1/4	18,245	1/4	5,811	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42,607	1/2	30,400	1/2	17,986	1/2	5,553	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42,348	3/4	30,147	3/4	17,727	3/4	5,294	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/24/2013 CL  
CALCULATED: 10/24/2013 CL  
PRINTED: 10/24/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "IB 1949"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	164,053	0	152,743	0	140,386	0	128,030	0	115,674	0	103,318	0	90,961	0	78,605	0	66,249
1/4		1/4	163,991	1/4	152,485	1/4	140,129	1/4	127,773	1/4	115,416	1/4	103,060	1/4	90,704	1/4	78,348	1/4	65,991
1/2		1/2	163,929	1/2	152,228	1/2	139,872	1/2	127,515	1/2	115,159	1/2	102,803	1/2	90,446	1/2	78,090	1/2	65,734
3/4		3/4	163,790	3/4	151,971	3/4	139,614	3/4	127,258	3/4	114,902	3/4	102,545	3/4	90,189	3/4	77,833	3/4	65,476
1		1	163,650	1	151,713	1	139,357	1	127,000	1	114,644	1	102,288	1	89,932	1	77,575	1	65,219
1/4		1/4	163,511	1/4	151,456	1/4	139,099	1/4	126,743	1/4	114,387	1/4	102,030	1/4	89,674	1/4	77,318	1/4	64,962
1/2		1/2	163,372	1/2	151,198	1/2	138,842	1/2	126,486	1/2	114,129	1/2	101,773	1/2	89,417	1/2	77,060	1/2	64,704
3/4		3/4	163,154	3/4	150,941	3/4	138,585	3/4	126,228	3/4	113,872	3/4	101,516	3/4	89,159	3/4	76,803	3/4	64,447
2		2	162,936	2	150,683	2	138,327	2	125,971	2	113,614	2	101,258	2	88,902	2	76,546	2	64,189
1/4		1/4	162,719	1/4	150,426	1/4	138,070	1/4	125,713	1/4	113,357	1/4	101,001	1/4	88,644	1/4	76,288	1/4	63,932
1/2		1/2	162,501	1/2	150,169	1/2	137,812	1/2	125,456	1/2	113,100	1/2	100,743	1/2	88,387	1/2	76,031	1/2	63,674
3/4		3/4	162,249	3/4	149,911	3/4	137,555	3/4	125,199	3/4	112,842	3/4	100,486	3/4	88,130	3/4	75,773	3/4	63,417
3		3	161,997	3	149,654	3	137,297	3	124,941	3	112,585	3	100,228	3	87,872	3	75,516	3	63,160
1/4		1/4	161,745	1/4	149,396	1/4	137,040	1/4	124,684	1/4	112,327	1/4	99,971	1/4	87,615	1/4	75,258	1/4	62,902
1/2		1/2	161,492	1/2	149,139	1/2	136,783	1/2	124,426	1/2	112,070	1/2	99,714	1/2	87,357	1/2	75,001	1/2	62,645
3/4		3/4	161,236	3/4	148,881	3/4	136,525	3/4	124,169	3/4	111,813	3/4	99,456	3/4	87,100	3/4	74,744	3/4	62,387
4		4	160,979	4	148,624	4	136,268	4	123,911	4	111,555	4	99,199	4	86,843	4	74,486	4	62,130
1/4		1/4	160,722	1/4	148,367	1/4	136,010	1/4	123,654	1/4	111,298	1/4	98,941	1/4	86,585	1/4	74,229	1/4	61,872
1/2		1/2	160,465	1/2	148,109	1/2	135,753	1/2	123,397	1/2	111,040	1/2	98,684	1/2	86,328	1/2	73,971	1/2	61,615
3/4		3/4	160,208	3/4	147,852	3/4	135,495	3/4	123,139	3/4	110,783	3/4	98,427	3/4	86,070	3/4	73,714	3/4	61,358
5		5	159,950	5	147,594	5	135,238	5	122,882	5	110,525	5	98,169	5	85,813	5	73,457	5	61,100
1/4		1/4	159,693	1/4	147,337	1/4	134,981	1/4	122,624	1/4	110,268	1/4	97,912	1/4	85,555	1/4	73,199	1/4	60,843
1/2		1/2	159,436	1/2	147,079	1/2	134,723	1/2	122,367	1/2	110,011	1/2	97,654	1/2	85,298	1/2	72,942	1/2	60,585
3/4		3/4	159,178	3/4	146,822	3/4	134,466	3/4	122,109	3/4	109,753	3/4	97,397	3/4	85,041	3/4	72,684	3/4	60,328
6		6	158,921	6	146,565	6	134,208	6	121,852	6	109,496	6	97,139	6	84,783	6	72,427	6	60,071
1/4		1/4	158,664	1/4	146,307	1/4	133,951	1/4	121,595	1/4	109,238	1/4	96,882	1/4	84,526	1/4	72,169	1/4	59,813
1/2		1/2	158,406	1/2	146,050	1/2	133,693	1/2	121,337	1/2	108,981	1/2	96,625	1/2	84,268	1/2	71,912	1/2	59,556
3/4		3/4	158,149	3/4	145,792	3/4	133,436	3/4	121,080	3/4	108,723	3/4	96,367	3/4	84,011	3/4	71,655	3/4	59,298
7		7	157,891	7	145,535	7	133,179	7	120,822	7	108,466	7	96,110	7	83,753	7	71,397	7	59,041
1/4		1/4	157,634	1/4	145,278	1/4	132,921	1/4	120,565	1/4	108,209	1/4	95,852	1/4	83,496	1/4	71,140	1/4	58,783
1/2		1/2	157,376	1/2	145,020	1/2	132,664	1/2	120,307	1/2	107,951	1/2	95,595	1/2	83,239	1/2	70,882	1/2	58,526
3/4		3/4	157,119	3/4	144,763	3/4	132,406	3/4	120,050	3/4	107,694	3/4	95,337	3/4	82,981	3/4	70,625	3/4	58,269
8		8	156,862	8	144,505	8	132,149	8	119,793	8	107,436	8	95,080	8	82,724	8	70,367	8	58,011
1/4		1/4	156,604	1/4	144,248	1/4	131,892	1/4	119,535	1/4	107,179	1/4	94,823	1/4	82,466	1/4	70,110	1/4	57,754
1/2		1/2	156,347	1/2	143,990	1/2	131,634	1/2	119,278	1/2	106,921	1/2	94,565	1/2	82,209	1/2	69,853	1/2	57,496
3/4		3/4	156,089	3/4	143,733	3/4	131,377	3/4	119,020	3/4	106,664	3/4	94,308	3/4	81,951	3/4	69,595	3/4	57,239
9		9	155,832	9	143,476	9	131,119	9	118,763	9	106,407	9	94,050	9	81,694	9	69,338	9	56,981
1/4		1/4	155,574	1/4	143,218	1/4	130,862	1/4	118,506	1/4	106,149	1/4	93,793	1/4	81,437	1/4	69,080	1/4	56,724
1/2		1/2	155,317	1/2	142,961	1/2	130,604	1/2	118,248	1/2	105,892	1/2	93,535	1/2	81,179	1/2	68,823	1/2	56,467
3/4		3/4	155,060	3/4	142,703	3/4	130,347	3/4	117,991	3/4	105,634	3/4	93,278	3/4	80,922	3/4	68,565	3/4	56,209
10		10	154,802	10	142,446	10	130,090	10	117,733	10	105,377	10	93,021	10	80,664	10	68,308	10	55,952
1/4		1/4	154,545	1/4	142,188	1/4	129,832	1/4	117,476	1/4	105,120	1/4	92,763	1/4	80,407	1/4	68,051	1/4	55,694
1/2		1/2	154,287	1/2	141,931	1/2	129,575	1/2	117,218	1/2	104,862	1/2	92,506	1/2	80,150	1/2	67,793	1/2	55,437
3/4		3/4	154,030	3/4	141,674	3/4	129,317	3/4	116,961	3/4	104,605	3/4	92,248	3/4	79,892	3/4	67,536	3/4	55,179
11		11	153,772	11	141,416	11	129,060	11	116,704	11	104,347	11	91,991	11	79,635	11	67,278	11	54,922
1/4		1/4	153,515	1/4	141,159	1/4	128,802	1/4	116,446	1/4	104,090	1/4	91,734	1/4	79,377	1/4	67,021	1/4	54,665
1/2	164,176	1/2	153,258	1/2	140,901	1/2	128,545	1/2	116,189	1/2	103,832	1/2	91,476	1/2	79,120	1/2	66,764	1/2	54,407
3/4	164,114	3/4	153,000	3/4	140,644	3/4	128,288	3/4	115,931	3/4	103,575	3/4	91,219	3/4	78,862	3/4	66,506	3/4	54,150

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'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "IB 1949"

## 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	53,892	0	41,536	0	29,197	0	16,842	0	4,492	0		0		0		0		0	
1/4	53,635	1/4	41,279	1/4	28,940	1/4	16,584	1/4	4,236	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,378	1/2	41,021	1/2	28,683	1/2	16,327	1/2	3,979	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,120	3/4	40,764	3/4	28,425	3/4	16,069	3/4	3,725	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,863	1	40,506	1	28,168	1	15,812	1	3,470	1		1		1		1		1	
1/4	52,605	1/4	40,249	1/4	27,910	1/4	15,555	1/4	3,215	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,348	1/2	39,992	1/2	27,653	1/2	15,297	1/2	2,960	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,090	3/4	39,734	3/4	27,396	3/4	15,040	3/4	2,707	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,833	2	39,477	2	27,138	2	14,782	2	2,454	2		2		2		2		2	
1/4	51,576	1/4	39,220	1/4	26,881	1/4	14,525	1/4	2,201	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,318	1/2	38,963	1/2	26,623	1/2	14,267	1/2	1,948	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,061	3/4	38,706	3/4	26,366	3/4	14,010	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	50,803	3	38,449	3	26,108	3	13,753	3	1,491	3		3		3		3		3	
1/4	50,546	1/4	38,192	1/4	25,851	1/4	13,495	1/4	1,263	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,288	1/2	37,935	1/2	25,594	1/2	13,238	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	50,031	3/4	37,678	3/4	25,336	3/4	12,980	3/4	874	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,774	4	37,421	4	25,079	4	12,723	4	713	4		4		4		4		4	
1/4	49,516	1/4	37,164	1/4	24,821	1/4	12,466	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	49,259	1/2	36,907	1/2	24,564	1/2	12,208	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	49,001	3/4	36,650	3/4	24,307	3/4	11,951	3/4	316	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,744	5	36,393	5	24,049	5	11,693	5	241	5		5		5		5		5	
1/4	48,486	1/4	36,136	1/4	23,792	1/4	11,436	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	48,229	1/2	35,879	1/2	23,534	1/2	11,178	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	47,972	3/4	35,622	3/4	23,277	3/4	10,921	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,714	6	35,365	6	23,020	6	10,664	6		6		6		6		6		6	
1/4	47,457	1/4	35,108	1/4	22,762	1/4	10,406	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,199	1/2	34,851	1/2	22,505	1/2	10,149	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,942	3/4	34,594	3/4	22,247	3/4	9,891	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,685	7	34,337	7	21,990	7	9,634	7		7		7		7		7		7	
1/4	46,427	1/4	34,080	1/4	21,732	1/4	9,377	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,170	1/2	33,823	1/2	21,475	1/2	9,119	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,912	3/4	33,566	3/4	21,218	3/4	8,862	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,655	8	33,309	8	20,960	8	8,604	8		8		8		8		8		8	
1/4	45,397	1/4	33,052	1/4	20,703	1/4	8,347	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,140	1/2	32,795	1/2	20,445	1/2	8,090	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,883	3/4	32,538	3/4	20,188	3/4	7,832	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,625	9	32,281	9	19,931	9	7,575	9		9		9		9		9		9	
1/4	44,368	1/4	32,024	1/4	19,673	1/4	7,317	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,110	1/2	31,767	1/2	19,416	1/2	7,060	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,853	3/4	31,510	3/4	19,158	3/4	6,803	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,595	10	31,253	10	18,901	10	6,546	10		10		10		10		10		10	
1/4	43,338	1/4	30,996	1/4	18,643	1/4	6,288	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,081	1/2	30,739	1/2	18,386	1/2	6,031	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,823	3/4	30,483	3/4	18,129	3/4	5,774	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,566	11	30,226	11	17,871	11	5,518	11		11		11		11		11		11	
1/4	42,308	1/4	29,969	1/4	17,614	1/4	5,261	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,051	1/2	29,712	1/2	17,356	1/2	5,004	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,793	3/4	29,454	3/4	17,099	3/4	4,748	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: 10/24/2013 CL  
CALCULATED: 10/24/2013 CL  
PRINTED: 10/24/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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