



BARGE "IB 1947"

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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
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	00-5/8	- 00-5/8
3 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	00-5/8	- 00-5/8

(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 18, 2013

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

<http://www.pmacorp.net>



BARGE "IB 1947"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05"

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	159,487	0	150,594	0	141,013	0	131,432	0	120,549	0	107,587	0	94,626	0	81,664	0	68,713		
1/4	1/4	159,412	1/4	150,395	1/4	140,813	1/4	131,232	1/4	120,279	1/4	107,317	1/4	94,356	1/4	81,394	1/4	68,443	1/4		
1/2	1/2	159,336	1/2	150,195	1/2	140,614	1/2	131,032	1/2	120,009	1/2	107,047	1/2	94,086	1/2	81,124	1/2	68,174	1/2		
3/4	3/4	159,261	3/4	149,995	3/4	140,414	3/4	130,833	3/4	119,739	3/4	106,777	3/4	93,816	3/4	80,854	3/4	67,904	3/4		
1		1	159,185	1	149,796	1	140,215	1	130,633	1	119,469	1	106,507	1	93,546	1	80,583	1	67,635		
1/4	1/4	159,027	1/4	149,596	1/4	140,015	1/4	130,434	1/4	119,199	1/4	106,237	1/4	93,276	1/4	80,313	1/4	67,365	1/4		
1/2	1/2	158,869	1/2	149,397	1/2	139,815	1/2	130,234	1/2	118,929	1/2	105,967	1/2	93,006	1/2	80,043	1/2	67,096	1/2		
3/4	3/4	158,711	3/4	149,197	3/4	139,616	3/4	130,034	3/4	118,659	3/4	105,697	3/4	92,736	3/4	79,773	3/4	66,826	3/4		
2		2	158,554	2	148,997	2	139,416	2	129,835	2	118,389	2	105,427	2	92,465	2	79,503	2	66,557		
1/4	1/4	158,360	1/4	148,798	1/4	139,217	1/4	129,635	1/4	118,119	1/4	105,157	1/4	92,195	1/4	79,233	1/4	66,288	1/4		
1/2	1/2	158,166	1/2	148,598	1/2	139,017	1/2	129,436	1/2	117,849	1/2	104,887	1/2	91,925	1/2	78,963	1/2	66,018	1/2		
3/4	3/4	157,971	3/4	148,399	3/4	138,817	3/4	129,236	3/4	117,579	3/4	104,617	3/4	91,655	3/4	78,693	3/4	65,749	3/4		
3		3	157,777	3	148,199	3	138,618	3	129,036	3	117,309	3	104,347	3	91,385	3	78,423	3	65,479		
1/4	1/4	157,578	1/4	147,999	1/4	138,418	1/4	128,837	1/4	117,039	1/4	104,077	1/4	91,115	1/4	78,153	1/4	65,210	1/4		
1/2	1/2	157,379	1/2	147,800	1/2	138,218	1/2	128,637	1/2	116,769	1/2	103,807	1/2	90,845	1/2	77,883	1/2	64,940	1/2		
3/4	3/4	157,180	3/4	147,600	3/4	138,019	3/4	128,438	3/4	116,499	3/4	103,537	3/4	90,575	3/4	77,613	3/4	64,671	3/4		
4		4	156,981	4	147,401	4	137,819	4	128,238	4	116,229	4	103,267	4	90,305	4	77,343	4	64,401		
1/4	1/4	156,782	1/4	147,201	1/4	137,620	1/4	128,038	1/4	115,959	1/4	102,997	1/4	90,035	1/4	77,073	1/4	64,132	1/4		
1/2	1/2	156,582	1/2	147,001	1/2	137,420	1/2	127,839	1/2	115,689	1/2	102,727	1/2	89,765	1/2	76,803	1/2	63,863	1/2		
3/4	3/4	156,383	3/4	146,802	3/4	137,220	3/4	127,639	3/4	115,419	3/4	102,457	3/4	89,495	3/4	76,533	3/4	63,593	3/4		
5		5	156,183	5	146,602	5	137,021	5	127,439	5	115,148	5	102,187	5	89,225	5	76,263	5	63,324		
1/4	1/4	155,984	1/4	146,403	1/4	136,821	1/4	127,240	1/4	114,878	1/4	101,917	1/4	88,955	1/4	75,993	1/4	63,054	1/4		
1/2	1/2	155,784	1/2	146,203	1/2	136,622	1/2	127,040	1/2	114,608	1/2	101,647	1/2	88,685	1/2	75,723	1/2	62,784	1/2		
3/4	3/4	155,585	3/4	146,003	3/4	136,422	3/4	126,841	3/4	114,338	3/4	101,377	3/4	88,415	3/4	75,453	3/4	62,515	3/4		
6		6	155,385	6	145,804	6	136,222	6	126,641	6	114,068	6	101,107	6	88,145	6	75,183	6	62,245		
1/4	1/4	155,185	1/4	145,604	1/4	136,023	1/4	126,442	1/4	113,798	1/4	100,837	1/4	87,875	1/4	74,912	1/4	61,975	1/4		
1/2	1/2	154,986	1/2	145,404	1/2	135,823	1/2	126,242	1/2	113,528	1/2	100,567	1/2	87,605	1/2	74,642	1/2	61,705	1/2		
3/4	3/4	154,786	3/4	145,205	3/4	135,624	3/4	126,043	3/4	113,258	3/4	100,297	3/4	87,335	3/4	74,372	3/4	61,435	3/4		
7		7	154,587	7	145,005	7	135,424	7	125,844	7	112,988	7	100,027	7	87,065	7	74,102	7	61,165		
1/4	1/4	154,387	1/4	144,806	1/4	135,224	1/4	125,600	1/4	112,718	1/4	99,757	1/4	86,795	1/4	73,833	1/4	60,895	1/4		
1/2	1/2	154,187	1/2	144,606	1/2	135,025	1/2	125,357	1/2	112,448	1/2	99,487	1/2	86,524	1/2	73,563	1/2	60,625	1/2		
3/4	3/4	153,988	3/4	144,406	3/4	134,825	3/4	125,114	3/4	112,178	3/4	99,217	3/4	86,254	3/4	73,293	3/4	60,355	3/4		
8		8	153,788	8	144,207	8	134,625	8	124,870	8	111,908	8	98,947	8	85,984	8	73,024	8	60,085		
1/4	1/4	153,588	1/4	144,007	1/4	134,426	1/4	124,600	1/4	111,638	1/4	98,677	1/4	85,714	1/4	72,754	1/4	59,816	1/4		
1/2	1/2	153,389	1/2	143,808	1/2	134,226	1/2	124,330	1/2	111,368	1/2	98,406	1/2	85,444	1/2	72,485	1/2	59,546	1/2		
3/4	3/4	153,189	3/4	143,608	3/4	134,027	3/4	124,060	3/4	111,098	3/4	98,136	3/4	85,174	3/4	72,215	3/4	59,276	3/4		
9		9	152,990	9	143,408	9	133,827	9	123,790	9	110,828	9	97,866	9	84,904	9	71,946	9	59,006		
1/4	1/4	152,790	1/4	143,209	1/4	133,627	1/4	123,520	1/4	110,558	1/4	97,596	1/4	84,634	1/4	71,676	1/4	58,736	1/4		
1/2	1/2	152,590	1/2	143,009	1/2	133,428	1/2	123,250	1/2	110,288	1/2	97,326	1/2	84,364	1/2	71,407	1/2	58,466	1/2		
3/4	3/4	152,391	3/4	142,810	3/4	133,228	3/4	122,980	3/4	110,018	3/4	97,056	3/4	84,094	3/4	71,138	3/4	58,196	3/4		
10		10	152,191	10	142,610	10	133,029	10	122,710	10	109,748	10	96,786	10	83,824	10	70,868	10	57,926		
1/4	1/4	151,992	1/4	142,410	1/4	132,829	1/4	122,440	1/4	109,478	1/4	96,516	1/4	83,554	1/4	70,599	1/4	57,656	1/4		
1/2	1/2	151,792	1/2	142,211	1/2	132,629	1/2	122,170	1/2	109,207	1/2	96,246	1/2	83,284	1/2	70,329	1/2	57,386	1/2		
3/4	3/4	151,592	3/4	142,011	3/4	132,430	3/4	121,900	3/4	108,937	3/4	95,976	3/4	83,014	3/4	70,060	3/4	57,116	3/4		
11	159,569	11	151,393	11	141,811	11	132,230	11	121,630	11	108,667	11	95,706	11	82,744	11	69,790	11	56,846		
1/4	159,549	1/4	151,193	1/4	141,612	1/4	132,031	1/4	121,360	1/4	108,397	1/4	95,436	1/4	82,474	1/4	69,521	1/4	56,577		
1/2	159,528	1/2	150,994	1/2	141,412	1/2	131,831	1/2	121,089	1/2	108,127	1/2	95,166	1/2	82,204	1/2	69,251	1/2	56,307		
3/4	159,508	3/4	150,794	3/4	141,213	3/4	131,631	3/4	120,819	3/4	107,857	3/4	94,896	3/4	81,934	3/4	68,982	3/4	56,037		

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.

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BARGE "IB 1947"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05"

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	55,767	0	42,811	0	30,105	0	17,142	0	4,181	0		0		0		0		0	
1/4	55,497	1/4	42,541	1/4	29,835	1/4	16,872	1/4	3,913	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,227	1/2	42,271	1/2	29,565	1/2	16,602	1/2	3,645	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,957	3/4	42,001	3/4	29,295	3/4	16,332	3/4	3,377	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	54,687	1	41,731	1	29,024	1	16,062	1	3,109	1	1	1	1	1	1	1	1	1	1
1/4	54,417	1/4	41,465	1/4	28,754	1/4	15,792	1/4	2,843	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,147	1/2	41,199	1/2	28,484	1/2	15,522	1/2	2,578	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,877	3/4	40,933	3/4	28,214	3/4	15,252	3/4	2,312	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	53,607	2	40,667	2	27,944	2	14,982	2	2,046	2	2	2	2	2	2	2	2	2	2
1/4	53,338	1/4	40,403	1/4	27,674	1/4	14,712	1/4	1,806	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,068	1/2	40,140	1/2	27,404	1/2	14,441	1/2	1,566	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,798	3/4	39,876	3/4	27,134	3/4	14,171	3/4	1,326	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	52,528	3	39,612	3	26,864	3	13,901	3	1,086	3	3	3	3	3	3	3	3	3	3
1/4	52,258	1/4	39,349	1/4	26,594	1/4	13,631	1/4	917	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,988	1/2	39,085	1/2	26,324	1/2	13,361	1/2	748	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,718	3/4	38,821	3/4	26,054	3/4	13,091	3/4	579	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	51,448	4	38,558	4	25,784	4	12,821	4	410	4	4	4	4	4	4	4	4	4	4
1/4	51,178	1/4	38,294	1/4	25,514	1/4	12,551	1/4	331	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,908	1/2	38,030	1/2	25,244	1/2	12,281	1/2	252	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,638	3/4	37,767	3/4	24,974	3/4	12,011	3/4	173	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	50,368	5	37,503	5	24,704	5	11,741	5	94	5	5	5	5	5	5	5	5	5	5
1/4	50,099	1/4	37,239	1/4	24,434	1/4	11,471	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,829	1/2	36,976	1/2	24,163	1/2	11,201	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,559	3/4	36,712	3/4	23,893	3/4	10,931	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	49,289	6	36,448	6	23,623	6	10,661	6	6	6	6	6	6	6	6	6	6	6	6
1/4	49,019	1/4	36,185	1/4	23,353	1/4	10,390	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,749	1/2	35,921	1/2	23,083	1/2	10,120	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,479	3/4	35,657	3/4	22,813	3/4	9,850	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	48,209	7	35,394	7	22,543	7	9,580	7	7	7	7	7	7	7	7	7	7	7	7
1/4	47,939	1/4	35,130	1/4	22,273	1/4	9,309	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,669	1/2	34,866	1/2	22,003	1/2	9,039	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,399	3/4	34,603	3/4	21,733	3/4	8,769	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	47,129	8	34,339	8	21,463	8	8,498	8	8	8	8	8	8	8	8	8	8	8	8
1/4	46,860	1/4	34,075	1/4	21,193	1/4	8,228	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,590	1/2	33,812	1/2	20,923	1/2	7,958	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,320	3/4	33,548	3/4	20,653	3/4	7,688	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	46,050	9	33,285	9	20,383	9	7,418	9	9	9	9	9	9	9	9	9	9	9	9
1/4	45,780	1/4	33,021	1/4	20,113	1/4	7,148	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,510	1/2	32,757	1/2	19,843	1/2	6,877	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,240	3/4	32,494	3/4	19,573	3/4	6,607	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	44,970	10	32,230	10	19,302	10	6,337	10	10	10	10	10	10	10	10	10	10	10	10
1/4	44,700	1/4	31,966	1/4	19,032	1/4	6,067	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,430	1/2	31,703	1/2	18,762	1/2	5,798	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,160	3/4	31,439	3/4	18,492	3/4	5,528	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	43,890	11	31,175	11	18,222	11	5,258	11	11	11	11	11	11	11	11	11	11	11	11
1/4	43,621	1/4	30,908	1/4	17,952	1/4	4,989	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,351	1/2	30,640	1/2	17,682	1/2	4,719	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,081	3/4	30,372	3/4	17,412	3/4	4,450	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: 10/17/2013 CL
CALCULATED: 10/17/2013 CL
PRINTED: 10/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "IB 1947"

2 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	164,966	0	153,577	0	141,134	0	128,692	0	116,249	0	103,806	0	91,363	0	78,920	0	66,478	
1/4	1/4	164,904	1/4	153,318	1/4	140,875	1/4	128,432	1/4	115,990	1/4	103,547	1/4	91,104	1/4	78,661	1/4	66,218	
1/2	1/2	164,842	1/2	153,059	1/2	140,616	1/2	128,173	1/2	115,730	1/2	103,288	1/2	90,845	1/2	78,402	1/2	65,959	
3/4	3/4	164,702	3/4	152,800	3/4	140,357	3/4	127,914	3/4	115,471	3/4	103,028	3/4	90,586	3/4	78,143	3/4	65,700	
1	1	164,561	1	152,540	1	140,098	1	127,655	1	115,212	1	102,769	1	90,326	1	77,884	1	65,441	
1/4	1/4	164,421	1/4	152,281	1/4	139,838	1/4	127,396	1/4	114,953	1/4	102,510	1/4	90,067	1/4	77,624	1/4	65,182	
1/2	1/2	164,280	1/2	152,022	1/2	139,579	1/2	127,136	1/2	114,694	1/2	102,251	1/2	89,808	1/2	77,365	1/2	64,922	
3/4	3/4	164,061	3/4	151,763	3/4	139,320	3/4	126,877	3/4	114,434	3/4	101,992	3/4	89,549	3/4	77,106	3/4	64,663	
2	2	163,842	2	151,503	2	139,061	2	126,618	2	114,175	2	101,732	2	89,289	2	76,847	2	64,404	
1/4	1/4	163,623	1/4	151,244	1/4	138,801	1/4	126,359	1/4	113,916	1/4	101,473	1/4	89,030	1/4	76,587	1/4	64,145	
1/2	1/2	163,404	1/2	150,985	1/2	138,542	1/2	126,099	1/2	113,657	1/2	101,214	1/2	88,771	1/2	76,328	1/2	63,885	
3/4	3/4	163,150	3/4	150,726	3/4	138,283	3/4	125,840	3/4	113,397	3/4	100,955	3/4	88,512	3/4	76,069	3/4	63,626	
3	3	162,896	3	150,467	3	138,024	3	125,581	3	113,138	3	100,695	3	88,253	3	75,810	3	63,367	
1/4	1/4	162,642	1/4	150,207	1/4	137,765	1/4	125,322	1/4	112,879	1/4	100,436	1/4	87,993	1/4	75,551	1/4	63,108	
1/2	1/2	162,388	1/2	149,948	1/2	137,505	1/2	125,063	1/2	112,620	1/2	100,177	1/2	87,734	1/2	75,291	1/2	62,849	
3/4	3/4	162,130	3/4	149,689	3/4	137,246	3/4	124,803	3/4	112,360	3/4	99,918	3/4	87,475	3/4	75,032	3/4	62,589	
4	4	161,871	4	149,430	4	136,987	4	124,544	4	112,101	4	99,658	4	87,216	4	74,773	4	62,330	
1/4	1/4	161,612	1/4	149,170	1/4	136,728	1/4	124,285	1/4	111,842	1/4	99,399	1/4	86,956	1/4	74,514	1/4	62,071	
1/2	1/2	161,354	1/2	148,911	1/2	136,468	1/2	124,026	1/2	111,583	1/2	99,140	1/2	86,697	1/2	74,254	1/2	61,812	
3/4	3/4	161,095	3/4	148,652	3/4	136,209	3/4	123,766	3/4	111,324	3/4	98,881	3/4	86,438	3/4	73,995	3/4	61,552	
5	5	160,835	5	148,393	5	135,950	5	123,507	5	111,064	5	98,622	5	86,179	5	73,736	5	61,293	
1/4	1/4	160,576	1/4	148,134	1/4	135,691	1/4	123,248	1/4	110,805	1/4	98,362	1/4	85,920	1/4	73,477	1/4	61,034	
1/2	1/2	160,317	1/2	147,874	1/2	135,432	1/2	122,989	1/2	110,546	1/2	98,103	1/2	85,660	1/2	73,218	1/2	60,775	
3/4	3/4	160,058	3/4	147,615	3/4	135,172	3/4	122,729	3/4	110,287	3/4	97,844	3/4	85,401	3/4	72,958	3/4	60,516	
6	6	159,799	6	147,356	6	134,913	6	122,470	6	110,027	6	97,585	6	85,142	6	72,699	6	60,256	
1/4	1/4	159,539	1/4	147,097	1/4	134,654	1/4	122,211	1/4	109,768	1/4	97,325	1/4	84,883	1/4	72,440	1/4	59,997	
1/2	1/2	159,280	1/2	146,837	1/2	134,395	1/2	121,952	1/2	109,509	1/2	97,066	1/2	84,623	1/2	72,181	1/2	59,738	
3/4	3/4	159,021	3/4	146,578	3/4	134,135	3/4	121,693	3/4	109,250	3/4	96,807	3/4	84,364	3/4	71,921	3/4	59,479	
7	7	158,762	7	146,319	7	133,876	7	121,433	7	108,991	7	96,548	7	84,105	7	71,662	7	59,219	
1/4	1/4	158,503	1/4	146,060	1/4	133,617	1/4	121,174	1/4	108,731	1/4	96,289	1/4	83,846	1/4	71,403	1/4	58,960	
1/2	1/2	158,243	1/2	145,801	1/2	133,358	1/2	120,915	1/2	108,472	1/2	96,029	1/2	83,587	1/2	71,144	1/2	58,701	
3/4	3/4	157,984	3/4	145,541	3/4	133,098	3/4	120,656	3/4	108,213	3/4	95,770	3/4	83,327	3/4	70,885	3/4	58,442	
8	8	157,725	8	145,282	8	132,839	8	120,396	8	107,954	8	95,511	8	83,068	8	70,625	8	58,182	
1/4	1/4	157,466	1/4	145,023	1/4	132,580	1/4	120,137	1/4	107,694	1/4	95,252	1/4	82,809	1/4	70,366	1/4	57,923	
1/2	1/2	157,206	1/2	144,764	1/2	132,321	1/2	119,878	1/2	107,435	1/2	94,992	1/2	82,550	1/2	70,107	1/2	57,664	
3/4	3/4	156,947	3/4	144,504	3/4	132,062	3/4	119,619	3/4	107,176	3/4	94,733	3/4	82,290	3/4	69,848	3/4	57,405	
9	9	156,688	9	144,245	9	131,802	9	119,360	9	106,917	9	94,474	9	82,031	9	69,588	9	57,146	
1/4	1/4	156,429	1/4	143,986	1/4	131,543	1/4	119,100	1/4	106,658	1/4	94,215	1/4	81,772	1/4	69,329	1/4	56,886	
1/2	1/2	156,170	1/2	143,727	1/2	131,284	1/2	118,841	1/2	106,398	1/2	93,956	1/2	81,513	1/2	69,070	1/2	56,627	
3/4	3/4	155,910	3/4	143,467	3/4	131,025	3/4	118,582	3/4	106,139	3/4	93,696	3/4	81,254	3/4	68,811	3/4	56,368	
10	10	155,651	10	143,208	10	130,765	10	118,323	10	105,880	10	93,437	10	80,994	10	68,551	10	56,109	
1/4	1/4	155,392	1/4	142,949	1/4	130,506	1/4	118,063	1/4	105,621	1/4	93,178	1/4	80,735	1/4	68,292	1/4	55,849	
1/2	1/2	155,133	1/2	142,690	1/2	130,247	1/2	117,804	1/2	105,361	1/2	92,919	1/2	80,476	1/2	68,033	1/2	55,590	
3/4	3/4	154,873	3/4	142,431	3/4	129,988	3/4	117,545	3/4	105,102	3/4	92,659	3/4	80,217	3/4	67,774	3/4	55,331	
11	11	154,614	11	142,171	11	129,729	11	117,286	11	104,843	11	92,400	11	79,957	11	67,515	11	55,072	
1/4	1/4	154,355	1/4	141,912	1/4	129,469	1/4	117,027	1/4	104,584	1/4	92,141	1/4	79,698	1/4	67,255	1/4	54,813	
1/2	165,091	154,096	1/2	141,653	1/2	129,210	1/2	116,767	1/2	104,325	1/2	91,882	1/2	79,439	1/2	66,996	1/2	54,553	
3/4	165,028	153,836	3/4	141,394	3/4	128,951	3/4	116,508	3/4	104,065	3/4	91,623	3/4	79,180	3/4	66,737	3/4	54,294	

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "IB 1947"

2 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	54,035	0	41,592	0	29,397	0	16,959	0	4,523	0		0		0		0		0	
1/4	53,776	1/4	41,333	1/4	29,140	1/4	16,700	1/4	4,265	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,516	1/2	41,074	1/2	28,883	1/2	16,440	1/2	4,007	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,257	3/4	40,814	3/4	28,624	3/4	16,181	3/4	3,750	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,998	1	40,555	1	28,364	1	15,922	1	3,493	1	1	1	1	1	1	1	1	1	1
1/4	52,739	1/4	40,296	1/4	28,105	1/4	15,663	1/4	3,237	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,480	1/2	40,037	1/2	27,846	1/2	15,404	1/2	2,980	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,220	3/4	39,781	3/4	27,587	3/4	15,144	3/4	2,725	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,961	2	39,526	2	27,328	2	14,885	2	2,470	2	2	2	2	2	2	2	2	2	2
1/4	51,702	1/4	39,271	1/4	27,068	1/4	14,626	1/4	2,216	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,443	1/2	39,015	1/2	26,809	1/2	14,367	1/2	1,961	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,183	3/4	38,763	3/4	26,550	3/4	14,108	3/4	1,731	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	50,924	3	38,510	3	26,291	3	13,848	3	1,501	3	3	3	3	3	3	3	3	3	3
1/4	50,665	1/4	38,257	1/4	26,031	1/4	13,589	1/4	1,271	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,406	1/2	38,004	1/2	25,772	1/2	13,330	1/2	1,041	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,147	3/4	37,751	3/4	25,513	3/4	13,071	3/4	879	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,887	4	37,498	4	25,254	4	12,811	4	717	4	4	4	4	4	4	4	4	4	4
1/4	49,628	1/4	37,245	1/4	24,995	1/4	12,552	1/4	555	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,369	1/2	36,992	1/2	24,735	1/2	12,293	1/2	393	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,110	3/4	36,739	3/4	24,476	3/4	12,034	3/4	318	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,850	5	36,486	5	24,217	5	11,775	5	242	5	5	5	5	5	5	5	5	5	5
1/4	48,591	1/4	36,233	1/4	23,958	1/4	11,515	1/4	167	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,332	1/2	35,980	1/2	23,699	1/2	11,256	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	48,073	3/4	35,727	3/4	23,439	3/4	10,997	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,813	6	35,474	6	23,180	6	10,738	6		6	6	6	6	6	6	6	6	6	6
1/4	47,554	1/4	35,221	1/4	22,921	1/4	10,478	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,295	1/2	34,969	1/2	22,662	1/2	10,219	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,036	3/4	34,716	3/4	22,402	3/4	9,960	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,777	7	34,463	7	22,143	7	9,701	7		7	7	7	7	7	7	7	7	7	7
1/4	46,517	1/4	34,210	1/4	21,884	1/4	9,442	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,258	1/2	33,957	1/2	21,625	1/2	9,182	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,999	3/4	33,704	3/4	21,366	3/4	8,923	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,740	8	33,451	8	21,106	8	8,664	8		8	8	8	8	8	8	8	8	8	8
1/4	45,480	1/4	33,198	1/4	20,847	1/4	8,405	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,221	1/2	32,945	1/2	20,588	1/2	8,146	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,962	3/4	32,692	3/4	20,329	3/4	7,886	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,703	9	32,439	9	20,069	9	7,627	9		9	9	9	9	9	9	9	9	9	9
1/4	44,444	1/4	32,186	1/4	19,810	1/4	7,368	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,184	1/2	31,934	1/2	19,551	1/2	7,109	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,925	3/4	31,681	3/4	19,292	3/4	6,850	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,666	10	31,428	10	19,033	10	6,591	10		10	10	10	10	10	10	10	10	10	10
1/4	43,407	1/4	31,175	1/4	18,773	1/4	6,332	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,147	1/2	30,922	1/2	18,514	1/2	6,073	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,888	3/4	30,669	3/4	18,255	3/4	5,814	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,629	11	30,416	11	17,996	11	5,556	11		11	11	11	11	11	11	11	11	11	11
1/4	42,370	1/4	30,163	1/4	17,737	1/4	5,297	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,111	1/2	29,910	1/2	17,477	1/2	5,038	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,851	3/4	29,653	3/4	17,218	3/4	4,780	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: 10/17/2013 CL
CALCULATED: 10/17/2013 CL
PRINTED: 10/18/2013 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 1947"

3 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	163,880	0	152,981	0	140,647	0	128,313	0	115,979	0	103,645	0	91,311	0	78,977	0	66,643
1/4	1/4	163,818	1/4	152,724	1/4	140,390	1/4	128,056	1/4	115,722	1/4	103,388	1/4	91,054	1/4	78,720	1/4	66,386	
1/2	1/2	163,757	1/2	152,467	1/2	140,133	1/2	127,799	1/2	115,465	1/2	103,131	1/2	90,797	1/2	78,463	1/2	66,129	
3/4	3/4	163,695	3/4	152,210	3/4	139,876	3/4	127,542	3/4	115,208	3/4	102,874	3/4	90,540	3/4	78,206	3/4	65,872	
1		1	163,633	1	151,953	1	139,619	1	127,285	1	114,951	1	102,617	1	90,283	1	77,949	1	65,615
1/4	1/4	163,494	1/4	151,696	1/4	139,362	1/4	127,028	1/4	114,694	1/4	102,360	1/4	90,026	1/4	77,692	1/4	65,358	
1/2	1/2	163,355	1/2	151,439	1/2	139,105	1/2	126,771	1/2	114,437	1/2	102,103	1/2	89,769	1/2	77,435	1/2	65,101	
3/4	3/4	163,216	3/4	151,182	3/4	138,848	3/4	126,514	3/4	114,180	3/4	101,846	3/4	89,512	3/4	77,178	3/4	64,844	
2		2	163,077	2	150,925	2	138,591	2	126,257	2	113,923	2	101,589	2	89,255	2	76,921	2	64,587
1/4	1/4	162,859	1/4	150,668	1/4	138,334	1/4	126,000	1/4	113,666	1/4	101,332	1/4	88,998	1/4	76,664	1/4	64,330	
1/2	1/2	162,642	1/2	150,411	1/2	138,077	1/2	125,743	1/2	113,409	1/2	101,075	1/2	88,741	1/2	76,407	1/2	64,073	
3/4	3/4	162,425	3/4	150,154	3/4	137,820	3/4	125,486	3/4	113,152	3/4	100,818	3/4	88,484	3/4	76,150	3/4	63,816	
3		3	162,208	3	149,897	3	137,563	3	125,229	3	112,895	3	100,561	3	88,227	3	75,893	3	63,559
1/4	1/4	161,956	1/4	149,641	1/4	137,307	1/4	124,972	1/4	112,638	1/4	100,304	1/4	87,970	1/4	75,636	1/4	63,302	
1/2	1/2	161,704	1/2	149,384	1/2	137,050	1/2	124,716	1/2	112,381	1/2	100,047	1/2	87,713	1/2	75,379	1/2	63,045	
3/4	3/4	161,453	3/4	149,127	3/4	136,793	3/4	124,459	3/4	112,125	3/4	99,790	3/4	87,456	3/4	75,122	3/4	62,788	
4		4	161,201	4	148,870	4	136,536	4	124,202	4	111,868	4	99,534	4	87,199	4	74,865	4	62,531
1/4	1/4	160,945	1/4	148,613	1/4	136,279	1/4	123,945	1/4	111,611	1/4	99,277	1/4	86,943	1/4	74,609	1/4	62,274	
1/2	1/2	160,688	1/2	148,356	1/2	136,022	1/2	123,688	1/2	111,354	1/2	99,020	1/2	86,686	1/2	74,352	1/2	62,018	
3/4	3/4	160,432	3/4	148,099	3/4	135,765	3/4	123,431	3/4	111,097	3/4	98,763	3/4	86,429	3/4	74,095	3/4	61,761	
5		5	160,175	5	147,842	5	135,508	5	123,174	5	110,840	5	98,506	5	86,172	5	73,838	5	61,504
1/4	1/4	159,919	1/4	147,585	1/4	135,251	1/4	122,917	1/4	110,583	1/4	98,249	1/4	85,915	1/4	73,581	1/4	61,247	
1/2	1/2	159,662	1/2	147,328	1/2	134,994	1/2	122,660	1/2	110,326	1/2	97,992	1/2	85,658	1/2	73,324	1/2	60,990	
3/4	3/4	159,405	3/4	147,071	3/4	134,737	3/4	122,403	3/4	110,069	3/4	97,735	3/4	85,401	3/4	73,067	3/4	60,733	
6		6	159,148	6	146,814	6	134,480	6	122,146	6	109,812	6	97,478	6	85,144	6	72,810	6	60,476
1/4	1/4	158,891	1/4	146,557	1/4	134,223	1/4	121,889	1/4	109,555	1/4	97,221	1/4	84,887	1/4	72,553	1/4	60,219	
1/2	1/2	158,634	1/2	146,300	1/2	133,966	1/2	121,632	1/2	109,298	1/2	96,964	1/2	84,630	1/2	72,296	1/2	59,962	
3/4	3/4	158,377	3/4	146,043	3/4	133,709	3/4	121,375	3/4	109,041	3/4	96,707	3/4	84,373	3/4	72,039	3/4	59,705	
7		7	158,120	7	145,786	7	133,452	7	121,118	7	108,784	7	96,450	7	84,116	7	71,782	7	59,448
1/4	1/4	157,863	1/4	145,529	1/4	133,195	1/4	120,861	1/4	108,527	1/4	96,193	1/4	83,859	1/4	71,525	1/4	59,191	
1/2	1/2	157,606	1/2	145,272	1/2	132,938	1/2	120,604	1/2	108,270	1/2	95,936	1/2	83,602	1/2	71,268	1/2	58,934	
3/4	3/4	157,349	3/4	145,015	3/4	132,681	3/4	120,347	3/4	108,013	3/4	95,679	3/4	83,345	3/4	71,011	3/4	58,677	
8		8	157,092	8	144,758	8	132,424	8	120,090	8	107,756	8	95,422	8	83,088	8	70,754	8	58,420
1/4	1/4	156,835	1/4	144,501	1/4	132,167	1/4	119,833	1/4	107,499	1/4	95,165	1/4	82,831	1/4	70,497	1/4	58,163	
1/2	1/2	156,578	1/2	144,244	1/2	131,910	1/2	119,576	1/2	107,242	1/2	94,908	1/2	82,574	1/2	70,240	1/2	57,906	
3/4	3/4	156,321	3/4	143,987	3/4	131,653	3/4	119,319	3/4	106,985	3/4	94,651	3/4	82,317	3/4	69,983	3/4	57,649	
9		9	156,065	9	143,730	9	131,396	9	119,062	9	106,728	9	94,394	9	82,060	9	69,726	9	57,392
1/4	1/4	155,808	1/4	143,474	1/4	131,139	1/4	118,805	1/4	106,471	1/4	94,137	1/4	81,803	1/4	69,469	1/4	57,135	
1/2	1/2	155,551	1/2	143,217	1/2	130,883	1/2	118,548	1/2	106,214	1/2	93,880	1/2	81,546	1/2	69,212	1/2	56,878	
3/4	3/4	155,294	3/4	142,960	3/4	130,626	3/4	118,292	3/4	105,958	3/4	93,623	3/4	81,289	3/4	68,955	3/4	56,621	
10		10	155,037	10	142,703	10	130,369	10	118,035	10	105,701	10	93,367	10	81,032	10	68,698	10	56,364
1/4	1/4	154,780	1/4	142,446	1/4	130,112	1/4	117,778	1/4	105,444	1/4	93,110	1/4	80,776	1/4	68,441	1/4	56,107	
1/2	1/2	154,523	1/2	142,189	1/2	129,855	1/2	117,521	1/2	105,187	1/2	92,853	1/2	80,519	1/2	68,185	1/2	55,850	
3/4	3/4	154,266	3/4	141,932	3/4	129,598	3/4	117,264	3/4	104,930	3/4	92,596	3/4	80,262	3/4	67,928	3/4	55,594	
11		11	154,009	11	141,675	11	129,341	11	117,007	11	104,673	11	92,339	11	80,005	11	67,671	11	55,337
1/4	1/4	153,752	1/4	141,418	1/4	129,084	1/4	116,750	1/4	104,416	1/4	92,082	1/4	79,748	1/4	67,414	1/4	55,080	
1/2	1/2	153,495	1/2	141,161	1/2	128,827	1/2	116,493	1/2	104,159	1/2	91,825	1/2	79,491	1/2	67,157	1/2	54,823	
3/4	3/4	153,238	3/4	140,904	3/4	128,570	3/4	116,236	3/4	103,902	3/4	91,568	3/4	79,234	3/4	66,900	3/4	54,566	

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

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BARGE "IB 1947"

3 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	54,309	0	41,975	0	29,658	0	17,325	0	4,994	0		0		0		0		0	
1/4	54,052	1/4	41,718	1/4	29,401	1/4	17,068	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	53,795	1/2	41,461	1/2	29,144	1/2	16,811	1/2	4,483	1/2		1/2		1/2		1/2		1/2	
3/4	53,538	3/4	41,204	3/4	28,887	3/4	16,554	3/4	4,228	3/4		3/4		3/4		3/4		3/4	
1	53,281	1	40,947	1	28,631	1	16,297	1	3,972	1		1		1		1		1	
1/4	53,024	1/4	40,690	1/4	28,374	1/4	16,040	1/4	3,717	1/4		1/4		1/4		1/4		1/4	
1/2	52,767	1/2	40,433	1/2	28,117	1/2	15,783	1/2	3,463	1/2		1/2		1/2		1/2		1/2	
3/4	52,510	3/4	40,176	3/4	27,860	3/4	15,526	3/4	3,208	3/4		3/4		3/4		3/4		3/4	
2	52,253	2	39,919	2	27,603	2	15,269	2	2,954	2		2		2		2		2	
1/4	51,996	1/4	39,662	1/4	27,346	1/4	15,012	1/4	2,701	1/4		1/4		1/4		1/4		1/4	
1/2	51,739	1/2	39,406	1/2	27,089	1/2	14,755	1/2	2,449	1/2		1/2		1/2		1/2		1/2	
3/4	51,482	3/4	39,149	3/4	26,832	3/4	14,498	3/4	2,196	3/4		3/4		3/4		3/4		3/4	
3	51,225	3	38,892	3	26,575	3	14,241	3	1,944	3		3		3		3		3	
1/4	50,968	1/4	38,636	1/4	26,318	1/4	13,984	1/4	1,716	1/4		1/4		1/4		1/4		1/4	
1/2	50,711	1/2	38,379	1/2	26,061	1/2	13,727	1/2	1,488	1/2		1/2		1/2		1/2		1/2	
3/4	50,454	3/4	38,122	3/4	25,804	3/4	13,470	3/4	1,260	3/4		3/4		3/4		3/4		3/4	
4	50,197	4	37,866	4	25,547	4	13,214	4	1,032	4		4		4		4		4	
1/4	49,940	1/4	37,609	1/4	25,290	1/4	12,957	1/4	872	1/4		1/4		1/4		1/4		1/4	
1/2	49,683	1/2	37,353	1/2	25,033	1/2	12,700	1/2	711	1/2		1/2		1/2		1/2		1/2	
3/4	49,427	3/4	37,096	3/4	24,776	3/4	12,443	3/4	551	3/4		3/4		3/4		3/4		3/4	
5	49,170	5	36,840	5	24,519	5	12,186	5	390	5		5		5		5		5	
1/4	48,913	1/4	36,583	1/4	24,262	1/4	11,929	1/4	315	1/4		1/4		1/4		1/4		1/4	
1/2	48,656	1/2	36,327	1/2	24,005	1/2	11,672	1/2	240	1/2		1/2		1/2		1/2		1/2	
3/4	48,399	3/4	36,070	3/4	23,748	3/4	11,415	3/4	165	3/4		3/4		3/4		3/4		3/4	
6	48,142	6	35,814	6	23,492	6	11,158	6	90	6		6		6		6		6	
1/4	47,885	1/4	35,557	1/4	23,235	1/4	10,901	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	47,628	1/2	35,301	1/2	22,978	1/2	10,644	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	47,371	3/4	35,044	3/4	22,721	3/4	10,387	3/4		3/4		3/4		3/4		3/4		3/4	
7	47,114	7	34,788	7	22,464	7	10,130	7		7		7		7		7		7	
1/4	46,857	1/4	34,531	1/4	22,207	1/4	9,873	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46,600	1/2	34,275	1/2	21,950	1/2	9,616	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	46,343	3/4	34,018	3/4	21,693	3/4	9,359	3/4		3/4		3/4		3/4		3/4		3/4	
8	46,086	8	33,762	8	21,436	8	9,102	8		8		8		8		8		8	
1/4	45,829	1/4	33,505	1/4	21,179	1/4	8,845	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45,572	1/2	33,249	1/2	20,922	1/2	8,588	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	45,315	3/4	32,992	3/4	20,665	3/4	8,331	3/4		3/4		3/4		3/4		3/4		3/4	
9	45,058	9	32,736	9	20,408	9	8,075	9		9		9		9		9		9	
1/4	44,801	1/4	32,479	1/4	20,151	1/4	7,818	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	44,544	1/2	32,223	1/2	19,894	1/2	7,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44,287	3/4	31,966	3/4	19,637	3/4	7,304	3/4		3/4		3/4		3/4		3/4		3/4	
10	44,030	10	31,710	10	19,380	10	7,047	10		10		10		10		10		10	
1/4	43,773	1/4	31,453	1/4	19,123	1/4	6,790	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	43,516	1/2	31,197	1/2	18,866	1/2	6,533	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	43,260	3/4	30,940	3/4	18,609	3/4	6,277	3/4		3/4		3/4		3/4		3/4		3/4	
11	43,003	11	30,684	11	18,353	11	6,020	11		11		11		11		11		11	
1/4	42,746	1/4	30,427	1/4	18,096	1/4	5,764	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42,489	1/2	30,171	1/2	17,839	1/2	5,507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42,232	3/4	29,914	3/4	17,582	3/4	5,251	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/17/2013 CL
CALCULATED: 10/17/2013 CL
PRINTED: 10/18/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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