



BARGE "IB 1103"

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	00-1/8	- 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	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8
3 CENTER	- 00-1/8	00-1/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-0/8	01-0/8

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

LENGTH BETWEEN DRAFT MARKS: 163'-00"

April 11, 2018

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

<http://www.pmacorp.net>



BARGE "IB 1103"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	0	0	157,100	0	146,436	0	135,772	0	125,108	0	113,356	0	100,889	0	88,422	0	75,954		
1/4	1/4	166,685	156,878	1/4	146,214	1/4	135,550	1/4	124,886	1/4	113,096	1/4	100,629	1/4	88,162	1/4	75,695		
1/2	1/2	166,595	156,655	1/2	145,991	1/2	135,327	1/2	124,663	1/2	112,837	1/2	100,369	1/2	87,902	1/2	75,435		
3/4	3/4	166,506	156,433	3/4	145,769	3/4	135,105	3/4	124,441	3/4	112,577	3/4	100,110	3/4	87,643	3/4	75,175		
1	1	166,416	156,211	1	145,547	1	134,883	1	124,219	1	112,317	1	99,850	1	87,383	1	74,915		
1/4	1/4	166,327	155,989	1/4	145,325	1/4	134,661	1/4	123,997	1/4	112,057	1/4	99,590	1/4	87,123	1/4	74,656		
1/2	1/2	166,172	155,767	1/2	145,103	1/2	134,439	1/2	123,775	1/2	111,798	1/2	99,331	1/2	86,863	1/2	74,396		
3/4	3/4	166,016	155,545	3/4	144,881	3/4	134,217	3/4	123,553	3/4	111,538	3/4	99,071	3/4	86,604	3/4	74,136		
2	2	165,861	155,322	2	144,658	2	133,994	2	123,330	2	111,278	2	98,811	2	86,344	2	73,876		
1/4	1/4	165,706	155,100	1/4	144,436	1/4	133,772	1/4	123,108	1/4	111,018	1/4	98,551	1/4	86,084	1/4	73,617		
1/2	1/2	165,497	154,878	1/2	144,214	1/2	133,550	1/2	122,886	1/2	110,759	1/2	98,292	1/2	85,825	1/2	73,357		
3/4	3/4	165,288	154,656	3/4	143,992	3/4	133,328	3/4	122,664	3/4	110,499	3/4	98,032	3/4	85,565	3/4	73,097		
3	3	165,080	154,434	3	143,770	3	133,106	3	122,442	3	110,239	3	97,772	3	85,305	3	72,838		
1/4	1/4	164,871	154,212	1/4	143,548	1/4	132,884	1/4	122,220	1/4	110,980	1/4	97,513	1/4	85,045	1/4	72,578		
1/2	1/2	164,650	153,989	1/2	143,325	1/2	132,661	1/2	121,998	1/2	109,720	1/2	97,253	1/2	84,786	1/2	72,318		
3/4	3/4	164,428	153,767	3/4	143,103	3/4	132,439	3/4	121,776	3/4	109,460	3/4	96,993	3/4	84,526	3/4	72,058		
4	4	164,207	153,545	4	142,881	4	132,217	4	121,554	4	109,200	4	96,733	4	84,266	4	71,799		
1/4	1/4	163,986	153,323	1/4	142,659	1/4	131,995	1/4	121,332	1/4	108,941	1/4	96,474	1/4	84,006	1/4	71,539		
1/2	1/2	163,764	153,101	1/2	142,437	1/2	131,773	1/2	121,091	1/2	108,681	1/2	96,214	1/2	83,747	1/2	71,279		
3/4	3/4	163,542	152,879	3/4	142,215	3/4	131,551	3/4	120,851	3/4	108,421	3/4	95,954	3/4	83,487	3/4	71,020		
5	5	163,320	152,656	5	141,992	5	131,328	5	120,610	5	108,161	5	95,695	5	83,227	5	70,760		
1/4	1/4	163,098	152,434	1/4	141,770	1/4	131,106	1/4	120,369	1/4	107,902	1/4	95,435	1/4	82,967	1/4	70,501		
1/2	1/2	162,876	152,212	1/2	141,548	1/2	130,884	1/2	120,109	1/2	107,642	1/2	95,175	1/2	82,708	1/2	70,242		
3/4	3/4	162,654	151,990	3/4	141,326	3/4	130,662	3/4	119,850	3/4	107,382	3/4	94,915	3/4	82,448	3/4	69,983		
6	6	162,432	151,768	6	141,104	6	130,440	6	119,590	6	107,122	6	94,656	6	82,188	6	69,724		
1/4	1/4	162,210	151,546	1/4	140,882	1/4	130,218	1/4	119,330	1/4	106,863	1/4	94,396	1/4	81,928	1/4	69,464		
1/2	1/2	161,988	151,323	1/2	140,659	1/2	129,995	1/2	119,070	1/2	106,603	1/2	94,136	1/2	81,669	1/2	69,205		
3/4	3/4	161,765	151,101	3/4	140,437	3/4	129,773	3/4	118,811	3/4	106,343	3/4	93,876	3/4	81,409	3/4	68,946		
7	7	161,543	150,879	7	140,215	7	129,551	7	118,551	7	106,083	7	93,617	7	81,149	7	68,687		
1/4	1/4	161,321	150,657	1/4	139,993	1/4	129,329	1/4	118,291	1/4	105,824	1/4	93,357	1/4	80,889	1/4	68,428		
1/2	1/2	161,099	150,435	1/2	139,771	1/2	129,107	1/2	118,031	1/2	105,564	1/2	93,097	1/2	80,630	1/2	68,169		
3/4	3/4	160,877	150,213	3/4	139,549	3/4	128,885	3/4	117,772	3/4	105,304	3/4	92,838	3/4	80,370	3/4	67,910		
8	8	160,655	149,990	8	139,326	8	128,662	8	117,512	8	105,044	8	92,578	8	80,110	8	67,651		
1/4	1/4	160,432	149,768	1/4	139,104	1/4	128,440	1/4	117,252	1/4	104,785	1/4	92,318	1/4	79,850	1/4	67,391		
1/2	1/2	160,210	149,546	1/2	138,882	1/2	128,218	1/2	116,992	1/2	104,525	1/2	92,058	1/2	79,591	1/2	67,132		
3/4	3/4	159,988	149,324	3/4	138,660	3/4	127,996	3/4	116,733	3/4	104,265	3/4	91,799	3/4	79,331	3/4	66,873		
9	9	159,766	149,102	9	138,438	9	127,774	9	116,473	9	104,005	9	91,539	9	79,071	9	66,614		
1/4	1/4	159,544	148,880	1/4	138,216	1/4	127,552	1/4	116,213	1/4	103,746	1/4	91,279	1/4	78,812	1/4	66,355		
1/2	1/2	159,321	148,657	1/2	137,993	1/2	127,329	1/2	115,954	1/2	103,486	1/2	91,019	1/2	78,552	1/2	66,096		
3/4	3/4	159,099	148,435	3/4	137,771	3/4	127,107	3/4	115,694	3/4	103,226	3/4	90,760	3/4	78,292	3/4	65,837		
10	10	158,877	148,213	10	137,549	10	126,885	10	115,434	10	102,967	10	90,500	10	78,032	10	65,577		
1/4	1/4	158,655	147,991	1/4	137,327	1/4	126,663	1/4	115,174	1/4	102,707	1/4	90,240	1/4	77,773	1/4	65,318		
1/2	1/2	158,433	147,769	1/2	137,105	1/2	126,441	1/2	114,915	1/2	102,447	1/2	89,980	1/2	77,513	1/2	65,059		
3/4	3/4	158,211	147,547	3/4	136,883	3/4	126,219	3/4	114,655	3/4	102,187	3/4	89,721	3/4	77,253	3/4	64,800		
11	11	157,988	147,324	11	136,660	11	125,996	11	114,395	11	101,928	11	89,461	11	76,993	11	64,541		
1/4	1/4	157,766	147,102	1/4	136,438	1/4	125,774	1/4	114,135	1/4	101,668	1/4	89,201	1/4	76,734	1/4	64,282		
1/2	1/2	157,544	146,880	1/2	136,216	1/2	125,552	1/2	113,876	1/2	101,408	1/2	88,941	1/2	76,474	1/2	64,023		
3/4	3/4	157,322	146,658	3/4	135,994	3/4	125,330	3/4	113,616	3/4	101,149	3/4	88,682	3/4	76,214	3/4	63,763		

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
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BARGE "IB 1103"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	63,504	0	51,048	0	38,618	0	26,373	0	13,905	0	1,532	0		0		0		0	
1/4	63,245	1/4	50,788	1/4	38,364	1/4	26,113	1/4	13,645	1/4	1,297	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,986	1/2	50,529	1/2	38,111	1/2	25,854	1/2	13,386	1/2	1,123	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,727	3/4	50,269	3/4	37,858	3/4	25,594	3/4	13,126	3/4	950	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	62,468	1	50,010	1	37,604	1	25,334	1	12,866	1	777	1	1	1	1	1	1	1	1
1/4	62,209	1/4	49,750	1/4	37,351	1/4	25,074	1/4	12,606	1/4	603	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,949	1/2	49,490	1/2	37,097	1/2	24,815	1/2	12,347	1/2	517	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,690	3/4	49,231	3/4	36,844	3/4	24,555	3/4	12,087	3/4	430	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	61,431	2	48,971	2	36,591	2	24,295	2	11,827	2	343	2	2	2	2	2	2	2	2
1/4	61,172	1/4	48,712	1/4	36,337	1/4	24,035	1/4	11,567	1/4	256	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,913	1/2	48,452	1/2	36,084	1/2	23,776	1/2	11,307	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,653	3/4	48,192	3/4	35,831	3/4	23,516	3/4	11,048	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	60,394	3	47,933	3	35,577	3	23,256	3	10,788	3	3	3	3	3	3	3	3	3	3
1/4	60,135	1/4	47,673	1/4	35,324	1/4	22,996	1/4	10,528	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,875	1/2	47,414	1/2	35,071	1/2	22,737	1/2	10,268	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,615	3/4	47,154	3/4	34,817	3/4	22,477	3/4	10,008	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	59,356	4	46,894	4	34,564	4	22,217	4	9,749	4	4	4	4	4	4	4	4	4	4
1/4	59,096	1/4	46,635	1/4	34,310	1/4	21,957	1/4	9,489	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,836	1/2	46,375	1/2	34,057	1/2	21,698	1/2	9,229	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,577	3/4	46,115	3/4	33,804	3/4	21,438	3/4	8,969	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	58,317	5	45,856	5	33,550	5	21,178	5	8,709	5	5	5	5	5	5	5	5	5	5
1/4	58,058	1/4	45,596	1/4	33,297	1/4	20,918	1/4	8,449	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,798	1/2	45,337	1/2	33,044	1/2	20,659	1/2	8,189	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,538	3/4	45,077	3/4	32,790	3/4	20,399	3/4	7,929	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	57,279	6	44,817	6	32,537	6	20,139	6	7,669	6	6	6	6	6	6	6	6	6	6
1/4	57,019	1/4	44,558	1/4	32,283	1/4	19,879	1/4	7,409	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,760	1/2	44,298	1/2	32,030	1/2	19,620	1/2	7,149	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,500	3/4	44,039	3/4	31,777	3/4	19,360	3/4	6,889	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	56,240	7	43,779	7	31,523	7	19,100	7	6,630	7	7	7	7	7	7	7	7	7	7
1/4	55,981	1/4	43,519	1/4	31,270	1/4	18,840	1/4	6,370	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,721	1/2	43,260	1/2	31,017	1/2	18,581	1/2	6,110	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,462	3/4	43,000	3/4	30,763	3/4	18,321	3/4	5,851	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	55,202	8	42,741	8	30,510	8	18,061	8	5,591	8	8	8	8	8	8	8	8	8	8
1/4	54,942	1/4	42,481	1/4	30,257	1/4	17,801	1/4	5,331	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,683	1/2	42,221	1/2	30,000	1/2	17,542	1/2	5,072	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,423	3/4	41,962	3/4	29,743	3/4	17,282	3/4	4,813	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	54,163	9	41,702	9	29,487	9	17,022	9	4,554	9	9	9	9	9	9	9	9	9	9
1/4	53,904	1/4	41,442	1/4	29,230	1/4	16,762	1/4	4,295	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,644	1/2	41,183	1/2	28,971	1/2	16,503	1/2	4,037	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,385	3/4	40,923	3/4	28,711	3/4	16,243	3/4	3,779	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	53,125	10	40,664	10	28,451	10	15,983	10	3,521	10	10	10	10	10	10	10	10	10	10
1/4	52,865	1/4	40,404	1/4	28,191	1/4	15,723	1/4	3,264	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,606	1/2	40,148	1/2	27,932	1/2	15,464	1/2	3,007	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,346	3/4	39,891	3/4	27,672	3/4	15,204	3/4	2,751	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	52,087	11	39,635	11	27,412	11	14,944	11	2,495	11	11	11	11	11	11	11	11	11	11
1/4	51,827	1/4	39,378	1/4	27,152	1/4	14,684	1/4	2,239	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,567	1/2	39,125	1/2	26,893	1/2	14,425	1/2	2,004	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,308	3/4	38,871	3/4	26,633	3/4	14,165	3/4	1,768	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: 04/10/2018 CL
CALCULATED: 04/11/2018 CL
PRINTED: 04/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2018

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



BARGE "IB 1103"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	0	144,607	0	133,569	0	122,531	0	111,493	0	100,455	0	89,417	0	78,379	0	67,341		
1/4	1/4	1/4	144,377	1/4	133,339	1/4	122,301	1/4	111,263	1/4	100,225	1/4	89,187	1/4	78,149	1/4	67,111		
1/2	1/2	1/2	154,360	1/2	144,147	1/2	133,109	1/2	122,071	1/2	111,033	1/2	99,995	1/2	88,957	1/2	77,919	1/2	66,881
3/4	3/4	3/4	154,264	3/4	143,917	3/4	132,879	3/4	121,841	3/4	110,803	3/4	99,765	3/4	88,727	3/4	77,689	3/4	66,651
1	1	1	154,169	1	143,687	1	132,649	1	121,611	1	110,573	1	99,535	1	88,497	1	77,459	1	66,421
1/4	1/4	1/4	154,073	1/4	143,457	1/4	132,419	1/4	121,381	1/4	110,343	1/4	99,305	1/4	88,267	1/4	77,229	1/4	66,191
1/2	1/2	1/2	153,977	1/2	143,227	1/2	132,189	1/2	121,151	1/2	110,113	1/2	99,075	1/2	88,037	1/2	76,999	1/2	65,961
3/4	3/4	3/4	153,806	3/4	142,997	3/4	131,959	3/4	120,921	3/4	109,883	3/4	98,845	3/4	87,807	3/4	76,769	3/4	65,731
2	2	2	153,635	2	142,767	2	131,729	2	120,691	2	109,653	2	98,615	2	87,577	2	76,539	2	65,501
1/4	1/4	1/4	153,464	1/4	142,537	1/4	131,499	1/4	120,461	1/4	109,423	1/4	98,385	1/4	87,347	1/4	76,309	1/4	65,271
1/2	1/2	1/2	153,293	1/2	142,307	1/2	131,269	1/2	120,231	1/2	109,193	1/2	98,155	1/2	87,117	1/2	76,079	1/2	65,041
3/4	3/4	3/4	153,075	3/4	142,077	3/4	131,039	3/4	120,001	3/4	108,963	3/4	97,925	3/4	86,887	3/4	75,849	3/4	64,811
3	3	3	152,857	3	141,847	3	130,809	3	119,771	3	108,733	3	97,695	3	86,657	3	75,619	3	64,581
1/4	1/4	1/4	152,639	1/4	141,617	1/4	130,579	1/4	119,541	1/4	108,503	1/4	97,465	1/4	86,427	1/4	75,389	1/4	64,351
1/2	1/2	1/2	152,421	1/2	141,387	1/2	130,349	1/2	119,311	1/2	108,273	1/2	97,235	1/2	86,197	1/2	75,159	1/2	64,121
3/4	3/4	3/4	152,192	3/4	141,157	3/4	130,119	3/4	119,081	3/4	108,043	3/4	97,005	3/4	85,967	3/4	74,929	3/4	63,891
4	4	4	151,963	4	140,927	4	129,889	4	118,851	4	107,813	4	96,775	4	85,737	4	74,699	4	63,661
1/4	1/4	1/4	151,734	1/4	140,697	1/4	129,659	1/4	118,621	1/4	107,583	1/4	96,545	1/4	85,507	1/4	74,469	1/4	63,431
1/2	1/2	1/2	151,505	1/2	140,467	1/2	129,429	1/2	118,391	1/2	107,353	1/2	96,315	1/2	85,277	1/2	74,239	1/2	63,201
3/4	3/4	3/4	151,275	3/4	140,237	3/4	129,199	3/4	118,161	3/4	107,123	3/4	96,085	3/4	85,047	3/4	74,009	3/4	62,971
5	5	5	151,045	5	140,008	5	128,970	5	117,932	5	106,894	5	95,856	5	84,818	5	73,780	5	62,742
1/4	1/4	1/4	150,815	1/4	139,778	1/4	128,740	1/4	117,702	1/4	106,664	1/4	95,626	1/4	84,588	1/4	73,550	1/4	62,512
1/2	1/2	1/2	150,586	1/2	139,548	1/2	128,510	1/2	117,472	1/2	106,434	1/2	95,396	1/2	84,358	1/2	73,320	1/2	62,282
3/4	3/4	3/4	150,356	3/4	139,318	3/4	128,280	3/4	117,242	3/4	106,204	3/4	95,166	3/4	84,128	3/4	73,090	3/4	62,052
6	6	6	150,126	6	139,088	6	128,050	6	117,012	6	105,974	6	94,936	6	83,898	6	72,860	6	61,822
1/4	1/4	1/4	149,896	1/4	138,858	1/4	127,820	1/4	116,782	1/4	105,744	1/4	94,706	1/4	83,668	1/4	72,630	1/4	61,592
1/2	1/2	1/2	149,666	1/2	138,628	1/2	127,590	1/2	116,552	1/2	105,514	1/2	94,476	1/2	83,438	1/2	72,400	1/2	61,362
3/4	3/4	3/4	149,436	3/4	138,398	3/4	127,360	3/4	116,322	3/4	105,284	3/4	94,246	3/4	83,208	3/4	72,170	3/4	61,132
7	7	7	149,206	7	138,168	7	127,130	7	116,092	7	105,054	7	94,016	7	82,978	7	71,940	7	60,902
1/4	1/4	1/4	148,976	1/4	137,938	1/4	126,900	1/4	115,862	1/4	104,824	1/4	93,786	1/4	82,748	1/4	71,710	1/4	60,672
1/2	1/2	1/2	148,746	1/2	137,708	1/2	126,670	1/2	115,632	1/2	104,594	1/2	93,556	1/2	82,518	1/2	71,480	1/2	60,442
3/4	3/4	3/4	148,516	3/4	137,478	3/4	126,440	3/4	115,402	3/4	104,364	3/4	93,326	3/4	82,288	3/4	71,250	3/4	60,212
8	8	8	148,286	8	137,248	8	126,210	8	115,172	8	104,134	8	93,096	8	82,058	8	71,020	8	59,982
1/4	1/4	1/4	148,056	1/4	137,018	1/4	125,980	1/4	114,942	1/4	103,904	1/4	92,866	1/4	81,828	1/4	70,790	1/4	59,752
1/2	1/2	1/2	147,826	1/2	136,788	1/2	125,750	1/2	114,712	1/2	103,674	1/2	92,636	1/2	81,598	1/2	70,560	1/2	59,522
3/4	3/4	3/4	147,596	3/4	136,558	3/4	125,520	3/4	114,482	3/4	103,444	3/4	92,406	3/4	81,368	3/4	70,330	3/4	59,292
9	9	9	147,366	9	136,328	9	125,290	9	114,252	9	103,214	9	92,176	9	81,138	9	70,100	9	59,062
1/4	1/4	1/4	147,136	1/4	136,098	1/4	125,060	1/4	114,022	1/4	102,984	1/4	91,946	1/4	80,908	1/4	69,870	1/4	58,832
1/2	1/2	1/2	146,906	1/2	135,868	1/2	124,830	1/2	113,792	1/2	102,754	1/2	91,716	1/2	80,678	1/2	69,640	1/2	58,602
3/4	3/4	3/4	146,676	3/4	135,638	3/4	124,600	3/4	113,562	3/4	102,524	3/4	91,486	3/4	80,448	3/4	69,410	3/4	58,372
10	10	10	146,446	10	135,408	10	124,370	10	113,332	10	102,294	10	91,256	10	80,218	10	69,180	10	58,142
1/4	1/4	1/4	146,216	1/4	135,178	1/4	124,140	1/4	113,102	1/4	102,064	1/4	91,026	1/4	79,988	1/4	68,950	1/4	57,912
1/2	1/2	1/2	145,986	1/2	134,948	1/2	123,910	1/2	112,872	1/2	101,834	1/2	90,796	1/2	79,758	1/2	68,720	1/2	57,682
3/4	3/4	3/4	145,756	3/4	134,718	3/4	123,680	3/4	112,642	3/4	101,604	3/4	90,566	3/4	79,528	3/4	68,490	3/4	57,452
11	11	11	145,527	11	134,489	11	123,451	11	112,413	11	101,375	11	90,337	11	79,299	11	68,261	11	57,223
1/4	1/4	1/4	145,297	1/4	134,259	1/4	123,221	1/4	112,183	1/4	101,145	1/4	90,107	1/4	79,069	1/4	68,031	1/4	56,993
1/2	1/2	1/2	145,067	1/2	134,029	1/2	122,991	1/2	111,953	1/2	100,915	1/2	89,877	1/2	78,839	1/2	67,801	1/2	56,763
3/4	3/4	3/4	144,837	3/4	133,799	3/4	122,761	3/4	111,723	3/4	100,685	3/4	89,647	3/4	78,609	3/4	67,571	3/4	56,533

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 24'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "IB 1103"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 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	56,303	0	45,265	0	34,252	0	23,440	0	12,403	0	1,438	0		0		0		0	
1/4	56,073	1/4	45,035	1/4	34,028	1/4	23,210	1/4	12,173	1/4	1,230	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,843	1/2	44,805	1/2	33,804	1/2	22,980	1/2	11,943	1/2	1,022	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,613	3/4	44,575	3/4	33,581	3/4	22,750	3/4	11,713	3/4	869	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,383	1	44,345	1	33,357	1	22,520	1	11,483	1	716	1	1	1	1	1	1	1	1
1/4	55,153	1/4	44,115	1/4	33,133	1/4	22,290	1/4	11,253	1/4	563	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,923	1/2	43,885	1/2	32,909	1/2	22,061	1/2	11,023	1/2	409	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,693	3/4	43,655	3/4	32,686	3/4	21,831	3/4	10,793	3/4	333	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,463	2	43,425	2	32,462	2	21,601	2	10,563	2	256	2	2	2	2	2	2	2	2
1/4	54,233	1/4	43,195	1/4	32,238	1/4	21,371	1/4	10,333	1/4	180	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,003	1/2	42,965	1/2	32,015	1/2	21,141	1/2	10,103	1/2	103	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,773	3/4	42,735	3/4	31,791	3/4	20,911	3/4	9,873	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,543	3	42,505	3	31,567	3	20,681	3	9,643	3		3	3	3	3	3	3	3	3
1/4	53,313	1/4	42,275	1/4	31,344	1/4	20,451	1/4	9,413	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,083	1/2	42,045	1/2	31,120	1/2	20,221	1/2	9,183	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,853	3/4	41,815	3/4	30,896	3/4	19,991	3/4	8,953	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,623	4	41,585	4	30,673	4	19,761	4	8,723	4		4	4	4	4	4	4	4	4
1/4	52,393	1/4	41,355	1/4	30,449	1/4	19,531	1/4	8,493	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,163	1/2	41,125	1/2	30,225	1/2	19,301	1/2	8,264	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,933	3/4	40,895	3/4	30,002	3/4	19,071	3/4	8,034	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,704	5	40,666	5	29,778	5	18,841	5	7,804	5		5	5	5	5	5	5	5	5
1/4	51,474	1/4	40,436	1/4	29,555	1/4	18,611	1/4	7,574	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,244	1/2	40,206	1/2	29,331	1/2	18,381	1/2	7,344	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,014	3/4	39,976	3/4	29,107	3/4	18,151	3/4	7,114	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,784	6	39,746	6	28,884	6	17,921	6	6,884	6		6	6	6	6	6	6	6	6
1/4	50,554	1/4	39,516	1/4	28,660	1/4	17,691	1/4	6,654	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,324	1/2	39,286	1/2	28,436	1/2	17,462	1/2	6,424	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,094	3/4	39,056	3/4	28,213	3/4	17,232	3/4	6,194	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	49,864	7	38,826	7	27,989	7	17,002	7	5,965	7		7	7	7	7	7	7	7	7
1/4	49,634	1/4	38,596	1/4	27,765	1/4	16,772	1/4	5,735	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,404	1/2	38,366	1/2	27,542	1/2	16,542	1/2	5,505	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,174	3/4	38,136	3/4	27,318	3/4	16,312	3/4	5,275	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	48,944	8	37,906	8	27,094	8	16,082	8	5,046	8		8	8	8	8	8	8	8	8
1/4	48,714	1/4	37,676	1/4	26,871	1/4	15,852	1/4	4,816	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,484	1/2	37,446	1/2	26,647	1/2	15,622	1/2	4,587	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,254	3/4	37,216	3/4	26,420	3/4	15,392	3/4	4,358	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	48,024	9	36,986	9	26,193	9	15,162	9	4,129	9		9	9	9	9	9	9	9	9
1/4	47,794	1/4	36,756	1/4	25,966	1/4	14,932	1/4	3,900	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,564	1/2	36,526	1/2	25,740	1/2	14,702	1/2	3,672	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,334	3/4	36,296	3/4	25,510	3/4	14,472	3/4	3,444	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	47,104	10	36,066	10	25,280	10	14,242	10	3,216	10		10	10	10	10	10	10	10	10
1/4	46,874	1/4	35,836	1/4	25,050	1/4	14,012	1/4	2,988	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,644	1/2	35,606	1/2	24,820	1/2	13,782	1/2	2,760	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,414	3/4	35,380	3/4	24,590	3/4	13,552	3/4	2,534	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	46,185	11	35,153	11	24,360	11	13,322	11	2,307	11		11	11	11	11	11	11	11	11
1/4	45,955	1/4	34,926	1/4	24,130	1/4	13,092	1/4	2,081	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,725	1/2	34,699	1/2	23,900	1/2	12,863	1/2	1,855	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,495	3/4	34,475	3/4	23,670	3/4	12,633	3/4	1,647	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: 04/10/2018 CL
CALCULATED: 04/11/2018 CL
PRINTED: 04/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2018

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "IB 1103"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 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	0	0	144,847	0	133,895	0	122,944	0	111,992	0	101,041	0	90,089	0	79,138	0	68,186		
1/4	1/4	1/4	144,619	1/4	133,667	1/4	122,716	1/4	111,764	1/4	100,813	1/4	89,861	1/4	78,909	1/4	67,958		
1/2	1/2	1/2	144,391	1/2	133,439	1/2	122,488	1/2	111,536	1/2	100,584	1/2	89,633	1/2	78,681	1/2	67,730		
3/4	3/4	3/4	144,163	3/4	133,211	3/4	122,259	3/4	111,308	3/4	100,356	3/4	89,405	3/4	78,453	3/4	67,502		
1	1	1	143,934	1	132,983	1	122,031	1	111,080	1	100,128	1	89,177	1	78,225	1	67,273		
1/4	1/4	1/4	143,706	1/4	132,755	1/4	121,803	1/4	110,852	1/4	99,900	1/4	88,948	1/4	77,997	1/4	67,045		
1/2	1/2	1/2	143,478	1/2	132,526	1/2	121,575	1/2	110,623	1/2	99,672	1/2	88,720	1/2	77,769	1/2	66,817		
3/4	3/4	3/4	153,383	3/4	143,250	3/4	132,298	3/4	121,347	3/4	110,395	3/4	99,444	3/4	88,492	3/4	77,541	3/4	66,589
2	2	2	153,288	2	143,022	2	132,070	2	121,119	2	110,167	2	99,215	2	88,264	2	77,312	2	66,361
1/4	1/4	1/4	153,193	1/4	142,794	1/4	131,842	1/4	120,890	1/4	109,939	1/4	98,987	1/4	88,036	1/4	77,084	1/4	66,133
1/2	1/2	1/2	153,098	1/2	142,565	1/2	131,614	1/2	120,662	1/2	109,711	1/2	98,759	1/2	87,808	1/2	76,856	1/2	65,905
3/4	3/4	3/4	153,003	3/4	142,337	3/4	131,386	3/4	120,434	3/4	109,483	3/4	98,531	3/4	87,579	3/4	76,628	3/4	65,676
3	3	3	152,833	3	142,109	3	131,158	3	120,206	3	109,254	3	98,303	3	87,351	3	76,400	3	65,448
1/4	1/4	1/4	152,664	1/4	141,881	1/4	130,929	1/4	119,978	1/4	109,026	1/4	98,075	1/4	87,123	1/4	76,172	1/4	65,220
1/2	1/2	1/2	152,494	1/2	141,653	1/2	130,701	1/2	119,750	1/2	108,798	1/2	97,847	1/2	86,895	1/2	75,943	1/2	64,992
3/4	3/4	3/4	152,325	3/4	141,425	3/4	130,473	3/4	119,522	3/4	108,570	3/4	97,618	3/4	86,667	3/4	75,715	3/4	64,764
4	4	4	152,108	4	141,196	4	130,245	4	119,293	4	108,342	4	97,390	4	86,439	4	75,487	4	64,536
1/4	1/4	1/4	151,892	1/4	140,968	1/4	130,017	1/4	119,065	1/4	108,114	1/4	97,162	1/4	86,211	1/4	75,259	1/4	64,307
1/2	1/2	1/2	151,676	1/2	140,740	1/2	129,789	1/2	118,837	1/2	107,885	1/2	96,934	1/2	85,982	1/2	75,031	1/2	64,079
3/4	3/4	3/4	151,459	3/4	140,512	3/4	129,560	3/4	118,609	3/4	107,657	3/4	96,706	3/4	85,754	3/4	74,803	3/4	63,851
5	5	5	151,232	5	140,284	5	129,332	5	118,381	5	107,429	5	96,478	5	85,526	5	74,574	5	63,623
1/4	1/4	1/4	151,005	1/4	140,056	1/4	129,104	1/4	118,153	1/4	107,201	1/4	96,249	1/4	85,298	1/4	74,346	1/4	63,395
1/2	1/2	1/2	150,777	1/2	139,828	1/2	128,876	1/2	117,924	1/2	106,973	1/2	96,021	1/2	85,070	1/2	74,118	1/2	63,167
3/4	3/4	3/4	150,550	3/4	139,599	3/4	128,648	3/4	117,696	3/4	106,745	3/4	95,793	3/4	84,842	3/4	73,890	3/4	62,938
6	6	6	150,322	6	139,371	6	128,420	6	117,468	6	106,517	6	95,565	6	84,613	6	73,662	6	62,710
1/4	1/4	1/4	150,094	1/4	139,143	1/4	128,191	1/4	117,240	1/4	106,288	1/4	95,337	1/4	84,385	1/4	73,434	1/4	62,482
1/2	1/2	1/2	149,866	1/2	138,915	1/2	127,963	1/2	117,012	1/2	106,060	1/2	95,109	1/2	84,157	1/2	73,206	1/2	62,254
3/4	3/4	3/4	149,638	3/4	138,687	3/4	127,735	3/4	116,784	3/4	105,832	3/4	94,881	3/4	83,929	3/4	72,977	3/4	62,026
7	7	7	149,410	7	138,459	7	127,507	7	116,555	7	105,604	7	94,652	7	83,701	7	72,749	7	61,798
1/4	1/4	1/4	149,182	1/4	138,230	1/4	127,279	1/4	116,327	1/4	105,376	1/4	94,424	1/4	83,473	1/4	72,521	1/4	61,570
1/2	1/2	1/2	148,954	1/2	138,002	1/2	127,051	1/2	116,099	1/2	105,148	1/2	94,196	1/2	83,244	1/2	72,293	1/2	61,341
3/4	3/4	3/4	148,726	3/4	137,774	3/4	126,823	3/4	115,871	3/4	104,919	3/4	93,968	3/4	83,016	3/4	72,065	3/4	61,113
8	8	8	148,497	8	137,546	8	126,594	8	115,643	8	104,691	8	93,740	8	82,788	8	71,837	8	60,885
1/4	1/4	1/4	148,269	1/4	137,318	1/4	126,366	1/4	115,415	1/4	104,463	1/4	93,512	1/4	82,560	1/4	71,608	1/4	60,657
1/2	1/2	1/2	148,041	1/2	137,090	1/2	126,138	1/2	115,187	1/2	104,235	1/2	93,283	1/2	82,332	1/2	71,380	1/2	60,429
3/4	3/4	3/4	147,813	3/4	136,861	3/4	125,910	3/4	114,958	3/4	104,007	3/4	93,055	3/4	82,104	3/4	71,152	3/4	60,201
9	9	9	147,585	9	136,633	9	125,682	9	114,730	9	103,779	9	92,827	9	81,876	9	70,924	9	59,972
1/4	1/4	1/4	147,357	1/4	136,405	1/4	125,454	1/4	114,502	1/4	103,550	1/4	92,599	1/4	81,647	1/4	70,696	1/4	59,744
1/2	1/2	1/2	147,129	1/2	136,177	1/2	125,225	1/2	114,274	1/2	103,322	1/2	92,371	1/2	81,419	1/2	70,468	1/2	59,516
3/4	3/4	3/4	146,900	3/4	135,949	3/4	124,997	3/4	114,046	3/4	103,094	3/4	92,143	3/4	81,191	3/4	70,240	3/4	59,288
10	10	10	146,672	10	135,721	10	124,769	10	113,818	10	102,866	10	91,914	10	80,963	10	70,011	10	59,060
1/4	1/4	1/4	146,444	1/4	135,493	1/4	124,541	1/4	113,589	1/4	102,638	1/4	91,686	1/4	80,735	1/4	69,783	1/4	58,832
1/2	1/2	1/2	146,216	1/2	135,264	1/2	124,313	1/2	113,361	1/2	102,410	1/2	91,458	1/2	80,507	1/2	69,555	1/2	58,603
3/4	3/4	3/4	145,988	3/4	135,036	3/4	124,085	3/4	113,133	3/4	102,182	3/4	91,230	3/4	80,278	3/4	69,327	3/4	58,375
11	11	11	145,760	11	134,808	11	123,856	11	112,905	11	101,953	11	91,002	11	80,050	11	69,099	11	58,147
1/4	1/4	1/4	145,531	1/4	134,580	1/4	123,628	1/4	112,677	1/4	101,725	1/4	90,774	1/4	79,822	1/4	68,871	1/4	57,919
1/2	1/2	1/2	145,303	1/2	134,352	1/2	123,400	1/2	112,449	1/2	101,497	1/2	90,546	1/2	79,594	1/2	68,642	1/2	57,691
3/4	3/4	3/4	145,075	3/4	134,124	3/4	123,172	3/4	112,220	3/4	101,269	3/4	90,317	3/4	79,366	3/4	68,414	3/4	57,463

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 24'-00" FORWARD OF AFT BULKHEAD

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



BARGE "IB 1103"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 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	57,235	0	46,283	0	35,332	0	24,398	0	13,446	0	2,514	0		0		0		0	
1/4	57,006	1/4	46,055	1/4	35,104	1/4	24,169	1/4	13,218	1/4	2,290	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,778	1/2	45,827	1/2	34,876	1/2	23,941	1/2	12,990	1/2	2,065	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,550	3/4	45,599	3/4	34,648	3/4	23,713	3/4	12,762	3/4	1,841	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	56,322	1	45,370	1	34,420	1	23,485	1	12,534	1	1,634	1	1	1	1	1	1	1	1
1/4	56,094	1/4	45,142	1/4	34,192	1/4	23,257	1/4	12,306	1/4	1,427	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,866	1/2	44,914	1/2	33,964	1/2	23,029	1/2	12,078	1/2	1,221	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,637	3/4	44,686	3/4	33,737	3/4	22,801	3/4	11,849	3/4	1,014	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	55,409	2	44,458	2	33,509	2	22,572	2	11,621	2	862	2	2	2	2	2	2	2	2
1/4	55,181	1/4	44,230	1/4	33,281	1/4	22,344	1/4	11,393	1/4	710	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,953	1/2	44,001	1/2	33,053	1/2	22,116	1/2	11,165	1/2	558	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,725	3/4	43,773	3/4	32,826	3/4	21,888	3/4	10,937	3/4	406	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	54,497	3	43,545	3	32,598	3	21,660	3	10,709	3	330	3	3	3	3	3	3	3	3
1/4	54,268	1/4	43,317	1/4	32,370	1/4	21,432	1/4	10,481	1/4	254	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,040	1/2	43,089	1/2	32,143	1/2	21,204	1/2	10,252	1/2	178	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,812	3/4	42,861	3/4	31,915	3/4	20,975	3/4	10,024	3/4	102	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	53,584	4	42,632	4	31,687	4	20,747	4	9,796	4		4	4	4	4	4	4	4	4
1/4	53,356	1/4	42,404	1/4	31,460	1/4	20,519	1/4	9,568	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,128	1/2	42,176	1/2	31,232	1/2	20,291	1/2	9,340	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,900	3/4	41,948	3/4	31,004	3/4	20,063	3/4	9,112	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	52,671	5	41,720	5	30,776	5	19,835	5	8,884	5		5	5	5	5	5	5	5	5
1/4	52,443	1/4	41,492	1/4	30,549	1/4	19,606	1/4	8,655	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,215	1/2	41,264	1/2	30,321	1/2	19,378	1/2	8,427	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,987	3/4	41,035	3/4	30,093	3/4	19,150	3/4	8,199	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	51,759	6	40,807	6	29,866	6	18,922	6	7,971	6		6	6	6	6	6	6	6	6
1/4	51,531	1/4	40,579	1/4	29,638	1/4	18,694	1/4	7,743	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,302	1/2	40,351	1/2	29,410	1/2	18,466	1/2	7,515	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,074	3/4	40,123	3/4	29,182	3/4	18,238	3/4	7,286	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	50,846	7	39,895	7	28,955	7	18,009	7	7,058	7		7	7	7	7	7	7	7	7
1/4	50,618	1/4	39,666	1/4	28,727	1/4	17,781	1/4	6,830	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,390	1/2	39,438	1/2	28,499	1/2	17,553	1/2	6,602	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,162	3/4	39,210	3/4	28,272	3/4	17,325	3/4	6,374	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	49,933	8	38,982	8	28,044	8	17,097	8	6,146	8		8	8	8	8	8	8	8	8
1/4	49,705	1/4	38,754	1/4	27,816	1/4	16,869	1/4	5,918	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,477	1/2	38,526	1/2	27,589	1/2	16,641	1/2	5,690	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,249	3/4	38,297	3/4	27,361	3/4	16,412	3/4	5,462	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	49,021	9	38,069	9	27,133	9	16,184	9	5,234	9		9	9	9	9	9	9	9	9
1/4	48,793	1/4	37,841	1/4	26,905	1/4	15,956	1/4	5,007	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,565	1/2	37,613	1/2	26,678	1/2	15,728	1/2	4,779	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,336	3/4	37,385	3/4	26,450	3/4	15,500	3/4	4,551	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	48,108	10	37,157	10	26,222	10	15,272	10	4,324	10		10	10	10	10	10	10	10	10
1/4	47,880	1/4	36,929	1/4	25,994	1/4	15,044	1/4	4,097	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,652	1/2	36,700	1/2	25,766	1/2	14,815	1/2	3,870	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,424	3/4	36,472	3/4	25,538	3/4	14,587	3/4	3,643	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	47,196	11	36,244	11	25,310	11	14,359	11	3,417	11		11	11	11	11	11	11	11	11
1/4	46,967	1/4	36,016	1/4	25,082	1/4	14,131	1/4	3,191	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,739	1/2	35,788	1/2	24,854	1/2	13,903	1/2	2,965	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,511	3/4	35,560	3/4	24,626	3/4	13,675	3/4	2,739	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: 04/10/2018 CL
CALCULATED: 04/11/2018 CL
PRINTED: 04/11/2018 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2018

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