



BARGE "IB 1943"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 182'-06"

October 3, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1943"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	158,913	0	150,411	0	140,867	0	131,323	0	120,622	0	107,710	0	94,799	0	81,887	0	68,984
1/4		1/4	158,893	1/4	150,212	1/4	140,668	1/4	131,124	1/4	120,353	1/4	107,441	1/4	94,530	1/4	81,618	1/4	68,716
1/2		1/2	158,872	1/2	150,014	1/2	140,469	1/2	130,925	1/2	120,084	1/2	107,172	1/2	94,261	1/2	81,349	1/2	68,447
3/4		3/4	158,797	3/4	149,815	3/4	140,270	3/4	130,726	3/4	119,815	3/4	106,903	3/4	93,992	3/4	81,080	3/4	68,179
1		1	158,722	1	149,616	1	140,072	1	130,527	1	119,546	1	106,634	1	93,723	1	80,811	1	67,911
1/4		1/4	158,646	1/4	149,417	1/4	139,873	1/4	130,328	1/4	119,277	1/4	106,365	1/4	93,454	1/4	80,542	1/4	67,642
1/2		1/2	158,571	1/2	149,218	1/2	139,674	1/2	130,129	1/2	119,008	1/2	106,096	1/2	93,185	1/2	80,273	1/2	67,374
3/4		3/4	158,414	3/4	149,019	3/4	139,475	3/4	129,931	3/4	118,739	3/4	105,827	3/4	92,916	3/4	80,004	3/4	67,105
2		2	158,257	2	148,821	2	139,276	2	129,732	2	118,470	2	105,558	2	92,647	2	79,734	2	66,837
1/4		1/4	158,100	1/4	148,622	1/4	139,077	1/4	129,533	1/4	118,201	1/4	105,289	1/4	92,378	1/4	79,465	1/4	66,569
1/2		1/2	157,942	1/2	148,423	1/2	138,879	1/2	129,334	1/2	117,932	1/2	105,020	1/2	92,109	1/2	79,196	1/2	66,300
3/4		3/4	157,749	3/4	148,224	3/4	138,680	3/4	129,135	3/4	117,663	3/4	104,751	3/4	91,840	3/4	78,927	3/4	66,032
3		3	157,556	3	148,025	3	138,481	3	128,936	3	117,394	3	104,482	3	91,571	3	78,658	3	65,763
1/4		1/4	157,362	1/4	147,826	1/4	138,282	1/4	128,738	1/4	117,125	1/4	104,213	1/4	91,302	1/4	78,389	1/4	65,495
1/2		1/2	157,169	1/2	147,628	1/2	138,083	1/2	128,539	1/2	116,856	1/2	103,944	1/2	91,033	1/2	78,120	1/2	65,227
3/4		3/4	156,971	3/4	147,429	3/4	137,884	3/4	128,340	3/4	116,587	3/4	103,675	3/4	90,764	3/4	77,851	3/4	64,958
4		4	156,773	4	147,230	4	137,685	4	128,141	4	116,318	4	103,406	4	90,495	4	77,582	4	64,690
1/4		1/4	156,574	1/4	147,031	1/4	137,487	1/4	127,942	1/4	116,049	1/4	103,137	1/4	90,226	1/4	77,313	1/4	64,421
1/2		1/2	156,376	1/2	146,832	1/2	137,288	1/2	127,743	1/2	115,780	1/2	102,868	1/2	89,957	1/2	77,044	1/2	64,153
3/4		3/4	156,177	3/4	146,633	3/4	137,089	3/4	127,545	3/4	115,511	3/4	102,600	3/4	89,688	3/4	76,775	3/4	63,884
5		5	155,979	5	146,435	5	136,890	5	127,346	5	115,242	5	102,331	5	89,419	5	76,506	5	63,616
1/4		1/4	155,780	1/4	146,236	1/4	136,691	1/4	127,147	1/4	114,973	1/4	102,062	1/4	89,150	1/4	76,237	1/4	63,348
1/2		1/2	155,581	1/2	146,037	1/2	136,492	1/2	126,948	1/2	114,704	1/2	101,793	1/2	88,881	1/2	75,968	1/2	63,079
3/4		3/4	155,382	3/4	145,838	3/4	136,294	3/4	126,749	3/4	114,435	3/4	101,524	3/4	88,612	3/4	75,699	3/4	62,811
6		6	155,184	6	145,639	6	136,095	6	126,550	6	114,166	6	101,255	6	88,343	6	75,430	6	62,542
1/4		1/4	154,985	1/4	145,440	1/4	135,896	1/4	126,352	1/4	113,897	1/4	100,986	1/4	88,074	1/4	75,161	1/4	62,273
1/2		1/2	154,786	1/2	145,241	1/2	135,697	1/2	126,153	1/2	113,628	1/2	100,717	1/2	87,805	1/2	74,892	1/2	62,004
3/4		3/4	154,587	3/4	145,043	3/4	135,498	3/4	125,954	3/4	113,359	3/4	100,448	3/4	87,536	3/4	74,623	3/4	61,736
7		7	154,388	7	144,844	7	135,299	7	125,756	7	113,090	7	100,179	7	87,267	7	74,354	7	61,467
1/4		1/4	154,189	1/4	144,645	1/4	135,101	1/4	125,557	1/4	112,821	1/4	99,910	1/4	86,998	1/4	74,085	1/4	61,198
1/2		1/2	153,990	1/2	144,446	1/2	134,902	1/2	125,359	1/2	112,552	1/2	99,641	1/2	86,729	1/2	73,816	1/2	60,929
3/4		3/4	153,792	3/4	144,247	3/4	134,703	3/4	125,116	3/4	112,283	3/4	99,372	3/4	86,460	3/4	73,548	3/4	60,660
8		8	153,593	8	144,048	8	134,504	8	124,874	8	112,014	8	99,103	8	86,191	8	73,279	8	60,391
1/4		1/4	153,394	1/4	143,850	1/4	134,305	1/4	124,631	1/4	111,745	1/4	98,834	1/4	85,922	1/4	73,010	1/4	60,122
1/2		1/2	153,195	1/2	143,651	1/2	134,106	1/2	124,389	1/2	111,476	1/2	98,565	1/2	85,653	1/2	72,742	1/2	59,853
3/4		3/4	152,996	3/4	143,452	3/4	133,907	3/4	124,120	3/4	111,207	3/4	98,296	3/4	85,384	3/4	72,473	3/4	59,585
9		9	152,797	9	143,253	9	133,709	9	123,851	9	110,938	9	98,027	9	85,115	9	72,205	9	59,316
1/4		1/4	152,599	1/4	143,054	1/4	133,510	1/4	123,582	1/4	110,669	1/4	97,758	1/4	84,846	1/4	71,937	1/4	59,047
1/2		1/2	152,400	1/2	142,855	1/2	133,311	1/2	123,313	1/2	110,400	1/2	97,489	1/2	84,577	1/2	71,668	1/2	58,778
3/4		3/4	152,201	3/4	142,657	3/4	133,112	3/4	123,044	3/4	110,131	3/4	97,220	3/4	84,308	3/4	71,400	3/4	58,509
10		10	152,002	10	142,458	10	132,913	10	122,775	10	109,862	10	96,951	10	84,039	10	71,131	10	58,240
1/4		1/4	151,803	1/4	142,259	1/4	132,714	1/4	122,506	1/4	109,593	1/4	96,682	1/4	83,770	1/4	70,863	1/4	57,971
1/2		1/2	151,604	1/2	142,060	1/2	132,516	1/2	122,237	1/2	109,324	1/2	96,413	1/2	83,501	1/2	70,595	1/2	57,702
3/4		3/4	151,406	3/4	141,861	3/4	132,317	3/4	121,968	3/4	109,055	3/4	96,144	3/4	83,232	3/4	70,326	3/4	57,434
11		11	151,207	11	141,662	11	132,118	11	121,698	11	108,786	11	95,875	11	82,963	11	70,058	11	57,165
1/4		1/4	151,008	1/4	141,463	1/4	131,919	1/4	121,429	1/4	108,517	1/4	95,606	1/4	82,694	1/4	69,789	1/4	56,896
1/2	158,954	1/2	150,809	1/2	141,265	1/2	131,720	1/2	121,160	1/2	108,248	1/2	95,337	1/2	82,425	1/2	69,521	1/2	56,627
3/4	158,934	3/4	150,610	3/4	141,066	3/4	131,521	3/4	120,891	3/4	107,979	3/4	95,068	3/4	82,156	3/4	69,253	3/4	56,358

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.

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BARGE "IB 1943"

1 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	56,089	0	43,183	0	30,521	0	17,614	0	4,701	0		0		0		0		0	
1/4	55,820	1/4	42,914	1/4	30,255	1/4	17,345	1/4	4,433	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,551	1/2	42,645	1/2	29,988	1/2	17,076	1/2	4,165	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,283	3/4	42,376	3/4	29,719	3/4	16,806	3/4	3,898	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,014	1	42,108	1	29,450	1	16,537	1	3,631	1		1		1		1		1	
1/4	54,745	1/4	41,839	1/4	29,181	1/4	16,268	1/4	3,364	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,476	1/2	41,570	1/2	28,912	1/2	15,999	1/2	3,097	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,207	3/4	41,305	3/4	28,643	3/4	15,730	3/4	2,832	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	53,938	2	41,040	2	28,374	2	15,461	2	2,567	2		2		2		2		2	
1/4	53,669	1/4	40,775	1/4	28,105	1/4	15,192	1/4	2,302	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,400	1/2	40,510	1/2	27,836	1/2	14,923	1/2	2,037	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,132	3/4	40,247	3/4	27,567	3/4	14,654	3/4	1,798	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	52,863	3	39,984	3	27,298	3	14,385	3	1,559	3		3		3		3		3	
1/4	52,594	1/4	39,722	1/4	27,029	1/4	14,116	1/4	1,320	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,325	1/2	39,459	1/2	26,760	1/2	13,847	1/2	1,081	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,056	3/4	39,196	3/4	26,491	3/4	13,578	3/4	913	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	51,787	4	38,934	4	26,222	4	13,309	4	744	4		4		4		4		4	
1/4	51,518	1/4	38,671	1/4	25,953	1/4	13,040	1/4	576	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,249	1/2	38,409	1/2	25,684	1/2	12,771	1/2	408	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,981	3/4	38,146	3/4	25,415	3/4	12,502	3/4	329	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	50,712	5	37,883	5	25,146	5	12,233	5	251	5		5		5		5		5	
1/4	50,443	1/4	37,621	1/4	24,877	1/4	11,964	1/4	172	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,174	1/2	37,358	1/2	24,608	1/2	11,695	1/2	94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,905	3/4	37,095	3/4	24,339	3/4	11,426	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	49,636	6	36,833	6	24,070	6	11,157	6	—	6		6		6		6		6	
1/4	49,367	1/4	36,570	1/4	23,801	1/4	10,888	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,098	1/2	36,307	1/2	23,532	1/2	10,619	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,830	3/4	36,045	3/4	23,263	3/4	10,350	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	48,561	7	35,782	7	22,994	7	10,081	7	—	7		7		7		7		7	
1/4	48,292	1/4	35,520	1/4	22,725	1/4	9,811	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,023	1/2	35,257	1/2	22,456	1/2	9,542	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,754	3/4	34,994	3/4	22,187	3/4	9,273	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	47,485	8	34,732	8	21,918	8	9,004	8	—	8		8		8		8		8	
1/4	47,216	1/4	34,469	1/4	21,649	1/4	8,734	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,947	1/2	34,206	1/2	21,380	1/2	8,465	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,678	3/4	33,944	3/4	21,111	3/4	8,196	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	46,410	9	33,681	9	20,842	9	7,927	9	—	9		9		9		9		9	
1/4	46,141	1/4	33,418	1/4	20,573	1/4	7,658	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,872	1/2	33,156	1/2	20,304	1/2	7,389	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,603	3/4	32,893	3/4	20,035	3/4	7,119	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	45,334	10	32,631	10	19,766	10	6,850	10	—	10		10		10		10		10	
1/4	45,065	1/4	32,368	1/4	19,497	1/4	6,581	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,796	1/2	32,105	1/2	19,228	1/2	6,312	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,527	3/4	31,843	3/4	18,959	3/4	6,044	3/4	—	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	44,259	11	31,580	11	18,690	11	5,775	11	—	11		11		11		11		11	
1/4	43,990	1/4	31,317	1/4	18,421	1/4	5,506	1/4	—	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,721	1/2	31,055	1/2	18,152	1/2	5,237	1/2	—	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,452	3/4	30,788	3/4	17,883	3/4	4,969	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: 10/03/2013 CL
CALCULATED: 10/03/2013 CL
PRINTED: 10/04/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
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Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "IB 1943"

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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	164,909	0	153,524	0	141,085	0	128,647	0	116,208	0	103,770	0	91,332	0	78,893	0	66,455
1/4	1/4	164,847	164,847	153,265	153,265	140,826	140,826	128,388	128,388	115,949	115,949	103,511	103,511	91,072	91,072	78,634	78,634	66,195	66,195
1/2	1/2	164,785	164,785	153,005	153,005	140,567	140,567	128,129	128,129	115,690	115,690	103,252	103,252	90,813	90,813	78,375	78,375	65,936	65,936
3/4	3/4	164,644	164,644	152,746	152,746	140,308	140,308	127,869	127,869	115,431	115,431	102,993	102,993	90,554	90,554	78,116	78,116	65,677	65,677
1		1	164,504	1	152,487	1	140,049	1	127,610	1	115,172	1	102,733	1	90,295	1	77,857	1	65,418
1/4	1/4	164,364	164,364	152,228	152,228	139,790	139,790	127,351	127,351	114,913	114,913	102,474	102,474	90,036	90,036	77,597	77,597	65,159	65,159
1/2	1/2	164,223	164,223	151,969	151,969	139,530	139,530	127,092	127,092	114,654	114,654	102,215	102,215	89,777	89,777	77,338	77,338	64,900	64,900
3/4	3/4	164,004	164,004	151,710	151,710	139,271	139,271	126,833	126,833	114,394	114,394	101,956	101,956	89,518	89,518	77,079	77,079	64,641	64,641
2		2	163,785	2	151,451	2	139,012	2	126,574	2	114,135	2	101,697	2	89,258	2	76,820	2	64,382
1/4	1/4	163,566	163,566	151,192	151,192	138,753	138,753	126,315	126,315	113,876	113,876	101,438	101,438	88,999	88,999	76,561	76,561	64,122	64,122
1/2	1/2	163,347	163,347	150,932	150,932	138,494	138,494	126,055	126,055	113,617	113,617	101,179	101,179	88,740	88,740	76,302	76,302	63,863	63,863
3/4	3/4	163,093	163,093	150,673	150,673	138,235	138,235	125,796	125,796	113,358	113,358	100,919	100,919	88,481	88,481	76,043	76,043	63,604	63,604
3		3	162,839	3	150,414	3	137,976	3	125,537	3	113,099	3	100,660	3	88,222	3	75,783	3	63,345
1/4	1/4	162,585	162,585	150,155	150,155	137,717	137,717	125,278	125,278	112,840	112,840	100,401	100,401	87,963	87,963	75,524	75,524	63,086	63,086
1/2	1/2	162,332	162,332	149,896	149,896	137,457	137,457	125,019	125,019	112,581	112,581	100,142	100,142	87,704	87,704	75,265	75,265	62,827	62,827
3/4	3/4	162,073	162,073	149,637	149,637	137,198	137,198	124,760	124,760	112,321	112,321	99,883	99,883	87,444	87,444	75,006	75,006	62,568	62,568
4		4	161,814	4	149,378	4	136,939	4	124,501	4	112,062	4	99,624	4	87,185	4	74,747	4	62,308
1/4	1/4	161,556	161,556	149,118	149,118	136,680	136,680	124,242	124,242	111,803	111,803	99,365	99,365	86,926	86,926	74,488	74,488	62,049	62,049
1/2	1/2	161,297	161,297	148,859	148,859	136,421	136,421	123,982	123,982	111,544	111,544	99,106	99,106	86,667	86,667	74,229	74,229	61,790	61,790
3/4	3/4	161,038	161,038	148,600	148,600	136,162	136,162	123,723	123,723	111,285	111,285	98,846	98,846	86,408	86,408	73,970	73,970	61,531	61,531
5		5	160,779	5	148,341	5	135,903	5	123,464	5	111,026	5	98,587	5	86,149	5	73,710	5	61,272
1/4	1/4	160,520	160,520	148,082	148,082	135,643	135,643	123,205	123,205	110,767	110,767	98,328	98,328	85,890	85,890	73,451	73,451	61,013	61,013
1/2	1/2	160,261	160,261	147,823	147,823	135,384	135,384	122,946	122,946	110,507	110,507	98,069	98,069	85,631	85,631	73,192	73,192	60,754	60,754
3/4	3/4	160,002	160,002	147,564	147,564	135,125	135,125	122,687	122,687	110,248	110,248	97,810	97,810	85,371	85,371	72,933	72,933	60,495	60,495
6		6	159,743	6	147,305	6	134,866	6	122,428	6	109,989	6	97,551	6	85,112	6	72,674	6	60,235
1/4	1/4	159,484	159,484	147,045	147,045	134,607	134,607	122,168	122,168	109,730	109,730	97,292	97,292	84,853	84,853	72,415	72,415	59,976	59,976
1/2	1/2	159,225	159,225	146,786	146,786	134,348	134,348	121,909	121,909	109,471	109,471	97,032	97,032	84,594	84,594	72,156	72,156	59,717	59,717
3/4	3/4	158,966	158,966	146,527	146,527	134,089	134,089	121,650	121,650	109,212	109,212	96,773	96,773	84,335	84,335	71,896	71,896	59,458	59,458
7		7	158,706	7	146,268	7	133,830	7	121,391	7	108,953	7	96,514	7	84,076	7	71,637	7	59,199
1/4	1/4	158,447	158,447	146,009	146,009	133,570	133,570	121,132	121,132	108,694	108,694	96,255	96,255	83,817	83,817	71,378	71,378	58,940	58,940
1/2	1/2	158,188	158,188	145,750	145,750	133,311	133,311	120,873	120,873	108,434	108,434	95,996	95,996	83,557	83,557	71,119	71,119	58,681	58,681
3/4	3/4	157,929	157,929	145,491	145,491	133,052	133,052	120,614	120,614	108,175	108,175	95,737	95,737	83,298	83,298	70,860	70,860	58,421	58,421
8		8	157,670	8	145,231	8	132,793	8	120,355	8	107,916	8	95,478	8	83,039	8	70,601	8	58,162
1/4	1/4	157,411	157,411	144,972	144,972	132,534	132,534	120,095	120,095	107,657	107,657	95,219	95,219	82,780	82,780	70,342	70,342	57,903	57,903
1/2	1/2	157,152	157,152	144,713	144,713	132,275	132,275	119,836	119,836	107,398	107,398	94,959	94,959	82,521	82,521	70,082	70,082	57,644	57,644
3/4	3/4	156,892	156,892	144,454	144,454	132,016	132,016	119,577	119,577	107,139	107,139	94,700	94,700	82,262	82,262	69,823	69,823	57,385	57,385
9		9	156,633	9	144,195	9	131,756	9	119,318	9	106,880	9	94,441	9	82,003	9	69,564	9	57,126
1/4	1/4	156,374	156,374	143,936	143,936	131,497	131,497	119,059	119,059	106,620	106,620	94,182	94,182	81,744	81,744	69,305	69,305	56,867	56,867
1/2	1/2	156,115	156,115	143,677	143,677	131,238	131,238	118,800	118,800	106,361	106,361	93,923	93,923	81,484	81,484	69,046	69,046	56,608	56,608
3/4	3/4	155,856	155,856	143,417	143,417	130,979	130,979	118,541	118,541	106,102	106,102	93,664	93,664	81,225	81,225	68,787	68,787	56,348	56,348
10		10	155,597	10	143,158	10	130,720	10	118,281	10	105,843	10	93,405	10	80,966	10	68,528	10	56,089
1/4	1/4	155,338	155,338	142,899	142,899	130,461	130,461	118,022	118,022	105,584	105,584	93,145	93,145	80,707	80,707	68,269	68,269	55,830	55,830
1/2	1/2	155,079	155,079	142,640	142,640	130,202	130,202	117,763	117,763	105,325	105,325	92,886	92,886	80,448	80,448	68,009	68,009	55,571	55,571
3/4	3/4	154,819	154,819	142,381	142,381	129,943	129,943	117,504	117,504	105,066	105,066	92,627	92,627	80,189	80,189	67,750	67,750	55,312	55,312
11		11	154,560	11	142,122	11	129,683	11	117,245	11	104,806	11	92,368	11	79,930	11	67,491	11	55,053
1/4	1/4	154,301	154,301	141,863	141,863	129,424	129,424	116,986	116,986	104,547	104,547	92,109	92,109	79,670	79,670	67,232	67,232	54,794	54,794
1/2	154,033	154,033	141,604	141,604	129,165	129,165	116,727	116,727	104,288	104,288	91,850	91,850	79,411	79,411	66,973	66,973	54,534		
3/4	154,033	154,033	141,344	141,344	128,906	128,906	116,468	116,468	104,029	104,029	91,591	91,591	79,152	79,152	66,714	66,714	54,275		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1943"

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	54,016	0	41,578	0	29,386	0	16,953	0	4,521	0		0		0		0		0	
1/4	53,757	1/4	41,319	1/4	29,130	1/4	16,694	1/4	4,263	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,498	1/2	41,059	1/2	28,873	1/2	16,435	1/2	4,005	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,239	3/4	40,800	3/4	28,614	3/4	16,176	3/4	3,749	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,980	1	40,541	1	28,355	1	15,917	1	3,492	1		1		1		1		1	
1/4	52,720	1/4	40,282	1/4	28,096	1/4	15,657	1/4	3,236	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,461	1/2	40,023	1/2	27,836	1/2	15,398	1/2	2,979	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,202	3/4	39,768	3/4	27,577	3/4	15,139	3/4	2,724	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,943	2	39,512	2	27,318	2	14,880	2	2,470	2		2		2		2		2	
1/4	51,684	1/4	39,257	1/4	27,059	1/4	14,621	1/4	2,215	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,425	1/2	39,002	1/2	26,800	1/2	14,362	1/2	1,960	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,166	3/4	38,749	3/4	26,541	3/4	14,103	3/4	1,730	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	50,907	3	38,496	3	26,282	3	13,844	3	1,501	3		3		3		3		3	
1/4	50,647	1/4	38,243	1/4	26,023	1/4	13,584	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	50,388	1/2	37,990	1/2	25,763	1/2	13,325	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	50,129	3/4	37,738	3/4	25,504	3/4	13,066	3/4	879	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,870	4	37,485	4	25,245	4	12,807	4	717	4		4		4		4		4	
1/4	49,611	1/4	37,232	1/4	24,986	1/4	12,548	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	49,352	1/2	36,979	1/2	24,727	1/2	12,289	1/2	394	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,093	3/4	36,726	3/4	24,468	3/4	12,030	3/4	318	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,833	5	36,473	5	24,209	5	11,771	5	242	5		5		5		5		5	
1/4	48,574	1/4	36,221	1/4	23,950	1/4	11,511	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	48,315	1/2	35,968	1/2	23,690	1/2	11,252	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	48,056	3/4	35,715	3/4	23,431	3/4	10,993	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,797	6	35,462	6	23,172	6	10,734	6		6		6		6		6		6	
1/4	47,538	1/4	35,209	1/4	22,913	1/4	10,475	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,279	1/2	34,956	1/2	22,654	1/2	10,216	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,020	3/4	34,704	3/4	22,395	3/4	9,957	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,760	7	34,451	7	22,136	7	9,698	7		7		7		7		7		7	
1/4	46,501	1/4	34,198	1/4	21,876	1/4	9,438	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,242	1/2	33,945	1/2	21,617	1/2	9,179	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,983	3/4	33,692	3/4	21,358	3/4	8,920	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,724	8	33,439	8	21,099	8	8,661	8		8		8		8		8		8	
1/4	45,465	1/4	33,187	1/4	20,840	1/4	8,402	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,206	1/2	32,934	1/2	20,581	1/2	8,143	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,946	3/4	32,681	3/4	20,322	3/4	7,884	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,687	9	32,428	9	20,063	9	7,625	9		9		9		9		9		9	
1/4	44,428	1/4	32,175	1/4	19,803	1/4	7,366	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,169	1/2	31,923	1/2	19,544	1/2	7,107	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,910	3/4	31,670	3/4	19,285	3/4	6,848	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,651	10	31,417	10	19,026	10	6,589	10		10		10		10		10		10	
1/4	43,392	1/4	31,164	1/4	18,767	1/4	6,330	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,133	1/2	30,911	1/2	18,508	1/2	6,071	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,873	3/4	30,658	3/4	18,249	3/4	5,812	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,614	11	30,406	11	17,990	11	5,554	11		11		11		11		11		11	
1/4	42,355	1/4	30,153	1/4	17,730	1/4	5,295	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,096	1/2	29,900	1/2	17,471	1/2	5,037	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,837	3/4	29,643	3/4	17,212	3/4	4,779	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: 10/03/2013 CL
CALCULATED: 10/03/2013 CL
PRINTED: 10/04/2013 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 1943"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	163,984	0	152,479	0	140,123	0	127,767	0	115,411	0	103,056	0	90,700	0	78,344	0	65,988
1/4	1/4	163,922	1/4	152,221	1/4	139,866	1/4	127,510	1/4	115,154	1/4	102,798	1/4	90,442	1/4	78,087	1/4	65,731	1/4
1/2	1/2	163,783	1/2	151,964	1/2	139,608	1/2	127,252	1/2	114,897	1/2	102,541	1/2	90,185	1/2	77,829	1/2	65,474	1/2
3/4	3/4	163,643	3/4	151,707	3/4	139,351	3/4	126,995	3/4	114,639	3/4	102,283	3/4	89,928	3/4	77,572	3/4	65,216	3/4
1		1	163,504	1	151,449	1	139,093	1	126,738	1	114,382	1	102,026	1	89,670	1	77,314	1	64,959
1/4	1/4	163,365	1/4	151,192	1/4	138,836	1/4	126,480	1/4	114,124	1/4	101,769	1/4	89,413	1/4	77,057	1/4	64,701	1/4
1/2	1/2	163,147	1/2	150,934	1/2	138,579	1/2	126,223	1/2	113,867	1/2	101,511	1/2	89,155	1/2	76,800	1/2	64,444	1/2
3/4	3/4	162,929	3/4	150,677	3/4	138,321	3/4	125,965	3/4	113,610	3/4	101,254	3/4	88,898	3/4	76,542	3/4	64,186	3/4
2		2	162,712	2	150,420	2	138,064	2	125,708	2	113,352	2	100,996	2	88,641	2	76,285	2	63,929
1/4	1/4	162,494	1/4	150,162	1/4	137,806	1/4	125,451	1/4	113,095	1/4	100,739	1/4	88,383	1/4	76,027	1/4	63,672	1/4
1/2	1/2	162,242	1/2	149,905	1/2	137,549	1/2	125,193	1/2	112,837	1/2	100,482	1/2	88,126	1/2	75,770	1/2	63,414	1/2
3/4	3/4	161,990	3/4	149,647	3/4	137,292	3/4	124,936	3/4	112,580	3/4	100,224	3/4	87,868	3/4	75,513	3/4	63,157	3/4
3		3	161,738	3	149,390	3	137,034	3	124,678	3	112,323	3	99,967	3	87,611	3	75,255	3	62,899
1/4	1/4	161,485	1/4	149,132	1/4	136,777	1/4	124,421	1/4	112,065	1/4	99,709	1/4	87,354	1/4	74,998	1/4	62,642	1/4
1/2	1/2	161,229	1/2	148,875	1/2	136,519	1/2	124,163	1/2	111,808	1/2	99,452	1/2	87,096	1/2	74,740	1/2	62,385	1/2
3/4	3/4	160,972	3/4	148,618	3/4	136,262	3/4	123,906	3/4	111,550	3/4	99,195	3/4	86,839	3/4	74,483	3/4	62,127	3/4
4		4	160,715	4	148,360	4	136,004	4	123,649	4	111,293	4	98,937	4	86,581	4	74,226	4	61,870
1/4	1/4	160,458	1/4	148,103	1/4	135,747	1/4	123,391	1/4	111,035	1/4	98,680	1/4	86,324	1/4	73,968	1/4	61,612	1/4
1/2	1/2	160,201	1/2	147,845	1/2	135,490	1/2	123,134	1/2	110,778	1/2	98,422	1/2	86,066	1/2	73,711	1/2	61,355	1/2
3/4	3/4	159,944	3/4	147,588	3/4	135,232	3/4	122,876	3/4	110,521	3/4	98,165	3/4	85,809	3/4	73,453	3/4	61,098	3/4
5		5	159,686	5	147,331	5	134,975	5	122,619	5	110,263	5	97,907	5	85,552	5	73,196	5	60,840
1/4	1/4	159,429	1/4	147,073	1/4	134,717	1/4	122,362	1/4	110,006	1/4	97,650	1/4	85,294	1/4	72,938	1/4	60,583	1/4
1/2	1/2	159,172	1/2	146,816	1/2	134,460	1/2	122,104	1/2	109,748	1/2	97,393	1/2	85,037	1/2	72,681	1/2	60,325	1/2
3/4	3/4	158,914	3/4	146,558	3/4	134,203	3/4	121,847	3/4	109,491	3/4	97,135	3/4	84,779	3/4	72,424	3/4	60,068	3/4
6		6	158,657	6	146,301	6	133,945	6	121,589	6	109,234	6	96,878	6	84,522	6	72,166	6	59,810
1/4	1/4	158,399	1/4	146,044	1/4	133,688	1/4	121,332	1/4	108,976	1/4	96,620	1/4	84,265	1/4	71,909	1/4	59,553	1/4
1/2	1/2	158,142	1/2	145,786	1/2	133,430	1/2	121,075	1/2	108,719	1/2	96,363	1/2	84,007	1/2	71,651	1/2	59,296	1/2
3/4	3/4	157,884	3/4	145,529	3/4	133,173	3/4	120,817	3/4	108,461	3/4	96,106	3/4	83,750	3/4	71,394	3/4	59,038	3/4
7		7	157,627	7	145,271	7	132,916	7	120,560	7	108,204	7	95,848	7	83,492	7	71,137	7	58,781
1/4	1/4	157,370	1/4	145,014	1/4	132,658	1/4	120,302	1/4	107,947	1/4	95,591	1/4	83,235	1/4	70,879	1/4	58,523	1/4
1/2	1/2	157,112	1/2	144,756	1/2	132,401	1/2	120,045	1/2	107,689	1/2	95,333	1/2	82,978	1/2	70,622	1/2	58,266	1/2
3/4	3/4	156,855	3/4	144,499	3/4	132,143	3/4	119,787	3/4	107,432	3/4	95,076	3/4	82,720	3/4	70,364	3/4	58,009	3/4
8		8	156,597	8	144,242	8	131,886	8	119,530	8	107,174	8	94,819	8	82,463	8	70,107	8	57,751
1/4	1/4	156,340	1/4	143,984	1/4	131,628	1/4	119,273	1/4	106,917	1/4	94,561	1/4	82,205	1/4	69,850	1/4	57,494	1/4
1/2	1/2	156,083	1/2	143,727	1/2	131,371	1/2	119,015	1/2	106,659	1/2	94,304	1/2	81,948	1/2	69,592	1/2	57,236	1/2
3/4	3/4	155,825	3/4	143,469	3/4	131,114	3/4	118,758	3/4	106,402	3/4	94,046	3/4	81,690	3/4	69,335	3/4	56,979	3/4
9		9	155,568	9	143,212	9	130,856	9	118,500	9	106,145	9	93,789	9	81,433	9	69,077	9	56,721
1/4	1/4	155,310	1/4	142,955	1/4	130,599	1/4	118,243	1/4	105,887	1/4	93,531	1/4	81,176	1/4	68,820	1/4	56,464	1/4
1/2	1/2	155,053	1/2	142,697	1/2	130,341	1/2	117,986	1/2	105,630	1/2	93,274	1/2	80,918	1/2	68,562	1/2	56,207	1/2
3/4	3/4	154,796	3/4	142,440	3/4	130,084	3/4	117,728	3/4	105,372	3/4	93,017	3/4	80,661	3/4	68,305	3/4	55,949	3/4
10		10	154,538	10	142,182	10	129,827	10	117,471	10	105,115	10	92,759	10	80,403	10	68,048	10	55,692
1/4	1/4	154,281	1/4	141,925	1/4	129,569	1/4	117,213	1/4	104,858	1/4	92,502	1/4	80,146	1/4	67,790	1/4	55,434	1/4
1/2	1/2	154,023	1/2	141,668	1/2	129,312	1/2	116,956	1/2	104,600	1/2	92,244	1/2	79,889	1/2	67,533	1/2	55,177	1/2
3/4	3/4	153,766	3/4	141,410	3/4	129,054	3/4	116,699	3/4	104,343	3/4	91,987	3/4	79,631	3/4	67,275	3/4	54,920	3/4
11		11	153,508	11	141,153	11	128,797	11	116,441	11	104,085	11	91,730	11	79,374	11	67,018	11	54,662
1/4	164,169	1/4	153,251	1/4	140,895	1/4	128,539	1/4	116,184	1/4	103,828	1/4	91,472	1/4	79,116	1/4	66,761	1/4	54,405
1/2	164,107	1/2	152,994	1/2	140,638	1/2	128,282	1/2	115,926	1/2	103,571	1/2	91,215	1/2	78,859	1/2	66,503	1/2	54,147
3/4	164,046	3/4	152,736	3/4	140,380	3/4	128,025	3/4	115,669	3/4	103,313	3/4	90,957	3/4	78,602	3/4	66,246	3/4	53,890

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 1943"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 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	53,633	0	41,277	0	28,939	0	16,583	0	4,235	0		0		0		0		0	
1/4	53,375	1/4	41,019	1/4	28,681	1/4	16,326	1/4	3,979	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,118	1/2	40,762	1/2	28,424	1/2	16,069	1/2	3,724	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,860	3/4	40,505	3/4	28,166	3/4	15,811	3/4	3,469	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,603	1	40,247	1	27,909	1	15,554	1	3,214	1	1	1	1	1	1	1	1	1	1
1/4	52,345	1/4	39,990	1/4	27,652	1/4	15,296	1/4	2,959	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,088	1/2	39,733	1/2	27,394	1/2	15,039	1/2	2,706	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,831	3/4	39,475	3/4	27,137	3/4	14,782	3/4	2,453	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,573	2	39,218	2	26,879	2	14,524	2	2,201	2	2	2	2	2	2	2	2	2	2
1/4	51,316	1/4	38,961	1/4	26,622	1/4	14,267	1/4	1,948	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,058	1/2	38,704	1/2	26,365	1/2	14,009	1/2	1,719	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,801	3/4	38,447	3/4	26,107	3/4	13,752	3/4	1,491	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	50,544	3	38,190	3	25,850	3	13,494	3	1,262	3	3	3	3	3	3	3	3	3	3
1/4	50,286	1/4	37,933	1/4	25,592	1/4	13,237	1/4	1,034	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,029	1/2	37,676	1/2	25,335	1/2	12,980	1/2	873	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,771	3/4	37,419	3/4	25,078	3/4	12,722	3/4	713	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,514	4	37,162	4	24,820	4	12,465	4	552	4	4	4	4	4	4	4	4	4	4
1/4	49,257	1/4	36,905	1/4	24,563	1/4	12,207	1/4	391	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,999	1/2	36,648	1/2	24,305	1/2	11,950	1/2	316	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,742	3/4	36,391	3/4	24,048	3/4	11,693	3/4	241	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,484	5	36,134	5	23,791	5	11,435	5	166	5	5	5	5	5	5	5	5	5	5
1/4	48,227	1/4	35,877	1/4	23,533	1/4	11,178	1/4	91	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,969	1/2	35,620	1/2	23,276	1/2	10,920	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,712	3/4	35,363	3/4	23,018	3/4	10,663	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,455	6	35,106	6	22,761	6	10,406	6	6	6	6	6	6	6	6	6	6	6	6
1/4	47,197	1/4	34,849	1/4	22,504	1/4	10,148	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,940	1/2	34,592	1/2	22,246	1/2	9,891	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,682	3/4	34,335	3/4	21,989	3/4	9,633	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,425	7	34,079	7	21,731	7	9,376	7	7	7	7	7	7	7	7	7	7	7	7
1/4	46,168	1/4	33,822	1/4	21,474	1/4	9,119	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,910	1/2	33,565	1/2	21,217	1/2	8,861	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,653	3/4	33,308	3/4	20,959	3/4	8,604	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,395	8	33,051	8	20,702	8	8,346	8	8	8	8	8	8	8	8	8	8	8	8
1/4	45,138	1/4	32,794	1/4	20,444	1/4	8,089	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,881	1/2	32,537	1/2	20,187	1/2	7,832	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,623	3/4	32,280	3/4	19,930	3/4	7,574	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,366	9	32,023	9	19,672	9	7,317	9	9	9	9	9	9	9	9	9	9	9	9
1/4	44,108	1/4	31,766	1/4	19,415	1/4	7,060	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,851	1/2	31,509	1/2	19,157	1/2	6,802	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,593	3/4	31,252	3/4	18,900	3/4	6,545	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,336	10	30,995	10	18,643	10	6,288	10	10	10	10	10	10	10	10	10	10	10	10
1/4	43,079	1/4	30,738	1/4	18,385	1/4	6,031	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,821	1/2	30,481	1/2	18,128	1/2	5,774	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,564	3/4	30,224	3/4	17,870	3/4	5,517	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,306	11	29,967	11	17,613	11	5,260	11	11	11	11	11	11	11	11	11	11	11	11
1/4	42,049	1/4	29,710	1/4	17,356	1/4	5,004	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	41,792	1/2	29,453	1/2	17,098	1/2	4,747	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,534	3/4	29,196	3/4	16,841	3/4	4,491	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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