



BARGE "IB 1946"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
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	00-3/8	- 00-3/8
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 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 18, 2013

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1946"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	159,222	0	151,063	0	141,503	0	131,942	0	121,365	0	108,431	0	95,498	0	82,564	0	69,638
1/4		1/4	159,201	1/4	150,864	1/4	141,303	1/4	131,743	1/4	121,095	1/4	108,161	1/4	95,228	1/4	82,294	1/4	69,370
1/2		1/2	159,181	1/2	150,665	1/2	141,104	1/2	131,544	1/2	120,826	1/2	107,892	1/2	94,959	1/2	82,025	1/2	69,101
3/4		3/4	159,160	3/4	150,466	3/4	140,905	3/4	131,345	3/4	120,556	3/4	107,622	3/4	94,689	3/4	81,755	3/4	68,832
1		1	159,140	1	150,266	1	140,706	1	131,146	1	120,287	1	107,353	1	94,420	1	81,486	1	68,563
1/4		1/4	159,065	1/4	150,067	1/4	140,507	1/4	130,946	1/4	120,017	1/4	107,083	1/4	94,150	1/4	81,216	1/4	68,294
1/2		1/2	158,989	1/2	149,868	1/2	140,308	1/2	130,747	1/2	119,748	1/2	106,814	1/2	93,881	1/2	80,947	1/2	68,025
3/4		3/4	158,914	3/4	149,669	3/4	140,108	3/4	130,548	3/4	119,479	3/4	106,545	3/4	93,611	3/4	80,677	3/4	67,756
2		2	158,838	2	149,470	2	139,909	2	130,349	2	119,209	2	106,275	2	93,342	2	80,408	2	67,488
1/4		1/4	158,681	1/4	149,271	1/4	139,710	1/4	130,150	1/4	118,940	1/4	106,006	1/4	93,073	1/4	80,139	1/4	67,219
1/2		1/2	158,523	1/2	149,071	1/2	139,511	1/2	129,950	1/2	118,670	1/2	105,736	1/2	92,803	1/2	79,869	1/2	66,950
3/4		3/4	158,366	3/4	148,872	3/4	139,312	3/4	129,751	3/4	118,401	3/4	105,467	3/4	92,534	3/4	79,600	3/4	66,681
3		3	158,208	3	148,673	3	139,113	3	129,552	3	118,131	3	105,197	3	92,264	3	79,330	3	66,412
1/4		1/4	158,015	1/4	148,474	1/4	138,913	1/4	129,353	1/4	117,862	1/4	104,928	1/4	91,995	1/4	79,061	1/4	66,143
1/2		1/2	157,821	1/2	148,275	1/2	138,714	1/2	129,154	1/2	117,592	1/2	104,659	1/2	91,725	1/2	78,791	1/2	65,874
3/4		3/4	157,627	3/4	148,075	3/4	138,515	3/4	128,955	3/4	117,323	3/4	104,389	3/4	91,456	3/4	78,522	3/4	65,606
4		4	157,434	4	147,876	4	138,316	4	128,755	4	117,053	4	104,120	4	91,186	4	78,252	4	65,337
1/4		1/4	157,235	1/4	147,677	1/4	138,117	1/4	128,556	1/4	116,784	1/4	103,850	1/4	90,917	1/4	77,983	1/4	65,068
1/2		1/2	157,037	1/2	147,478	1/2	137,917	1/2	128,357	1/2	116,514	1/2	103,581	1/2	90,647	1/2	77,713	1/2	64,799
3/4		3/4	156,838	3/4	147,279	3/4	137,718	3/4	128,158	3/4	116,245	3/4	103,311	3/4	90,378	3/4	77,444	3/4	64,530
5		5	156,640	5	147,080	5	137,519	5	127,959	5	115,976	5	103,042	5	90,108	5	77,174	5	64,261
1/4		1/4	156,441	1/4	146,880	1/4	137,320	1/4	127,760	1/4	115,706	1/4	102,773	1/4	89,839	1/4	76,905	1/4	63,992
1/2		1/2	156,241	1/2	146,681	1/2	137,121	1/2	127,560	1/2	115,437	1/2	102,503	1/2	89,570	1/2	76,636	1/2	63,724
3/4		3/4	156,042	3/4	146,482	3/4	136,922	3/4	127,361	3/4	115,167	3/4	102,234	3/4	89,300	3/4	76,366	3/4	63,455
6		6	155,843	6	146,283	6	136,722	6	127,162	6	114,898	6	101,964	6	89,031	6	76,097	6	63,186
1/4		1/4	155,644	1/4	146,084	1/4	136,523	1/4	126,963	1/4	114,628	1/4	101,695	1/4	88,761	1/4	75,827	1/4	62,917
1/2		1/2	155,445	1/2	145,885	1/2	136,324	1/2	126,764	1/2	114,359	1/2	101,425	1/2	88,492	1/2	75,558	1/2	62,648
3/4		3/4	155,246	3/4	145,685	3/4	136,125	3/4	126,564	3/4	114,089	3/4	101,156	3/4	88,222	3/4	75,288	3/4	62,378
7		7	155,047	7	145,486	7	135,926	7	126,365	7	113,820	7	100,887	7	87,953	7	75,019	7	62,109
1/4		1/4	154,847	1/4	145,287	1/4	135,727	1/4	126,166	1/4	113,550	1/4	100,617	1/4	87,683	1/4	74,749	1/4	61,840
1/2		1/2	154,648	1/2	145,088	1/2	135,527	1/2	125,968	1/2	113,281	1/2	100,348	1/2	87,414	1/2	74,480	1/2	61,571
3/4		3/4	154,449	3/4	144,889	3/4	135,328	3/4	125,769	3/4	113,012	3/4	100,078	3/4	87,144	3/4	74,210	3/4	61,301
8		8	154,250	8	144,689	8	135,129	8	125,570	8	112,742	8	99,809	8	86,875	8	73,941	8	61,032
1/4		1/4	154,051	1/4	144,490	1/4	134,930	1/4	125,371	1/4	112,473	1/4	99,539	1/4	86,606	1/4	73,672	1/4	60,763
1/2		1/2	153,852	1/2	144,291	1/2	134,731	1/2	125,172	1/2	112,203	1/2	99,270	1/2	86,336	1/2	73,403	1/2	60,493
3/4		3/4	153,652	3/4	144,092	3/4	134,532	3/4	124,973	3/4	111,934	3/4	99,001	3/4	86,067	3/4	73,134	3/4	60,224
9		9	153,453	9	143,893	9	134,332	9	124,774	9	111,664	9	98,731	9	85,797	9	72,865	9	59,955
1/4		1/4	153,254	1/4	143,694	1/4	134,133	1/4	124,575	1/4	111,395	1/4	98,462	1/4	85,528	1/4	72,596	1/4	59,685
1/2		1/2	153,055	1/2	143,494	1/2	133,934	1/2	124,376	1/2	111,125	1/2	98,192	1/2	85,258	1/2	72,327	1/2	59,416
3/4		3/4	152,856	3/4	143,295	3/4	133,735	3/4	123,990	3/4	110,856	3/4	97,923	3/4	84,989	3/4	72,058	3/4	59,147
10		10	152,657	10	143,096	10	133,536	10	123,520	10	110,586	10	97,653	10	84,719	10	71,789	10	58,877
1/4		1/4	152,457	1/4	142,897	1/4	133,336	1/4	123,321	1/4	110,317	1/4	97,384	1/4	84,450	1/4	71,520	1/4	58,608
1/2		1/2	152,258	1/2	142,698	1/2	133,137	1/2	122,981	1/2	110,047	1/2	97,114	1/2	84,180	1/2	71,252	1/2	58,339
3/4		3/4	152,059	3/4	142,499	3/4	132,938	3/4	122,712	3/4	109,778	3/4	96,845	3/4	83,911	3/4	70,983	3/4	58,069
11		11	151,860	11	142,299	11	132,739	11	122,443	11	109,509	11	96,575	11	83,641	11	70,714	11	57,800
1/4		1/4	151,661	1/4	142,100	1/4	132,540	1/4	122,173	1/4	109,239	1/4	96,306	1/4	83,372	1/4	70,445	1/4	57,531
1/2		1/2	151,461	1/2	141,901	1/2	132,341	1/2	121,904	1/2	108,970	1/2	96,037	1/2	83,103	1/2	70,176	1/2	57,261
3/4		3/4	151,262	3/4	141,702	3/4	132,141	3/4	121,634	3/4	108,700	3/4	95,767	3/4	82,833	3/4	69,907	3/4	56,992

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "IB 1946"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	56,723	0	43,795	0	31,107	0	18,183	0	5,246	0		0		0		0		0	
1/4	56,453	1/4	43,526	1/4	30,840	1/4	17,913	1/4	4,978	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,184	1/2	43,256	1/2	30,573	1/2	17,644	1/2	4,709	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,915	3/4	42,987	3/4	30,306	3/4	17,374	3/4	4,441	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,645	1	42,718	1	30,039	1	17,105	1	4,172	1		1		1		1		1	
1/4	55,376	1/4	42,448	1/4	29,770	1/4	16,835	1/4	3,905	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,107	1/2	42,179	1/2	29,500	1/2	16,566	1/2	3,637	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,837	3/4	41,910	3/4	29,231	3/4	16,296	3/4	3,370	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,568	2	41,640	2	28,961	2	16,027	2	3,103	2		2		2		2		2	
1/4	54,299	1/4	41,375	1/4	28,692	1/4	15,757	1/4	2,837	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,029	1/2	41,109	1/2	28,422	1/2	15,488	1/2	2,572	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,760	3/4	40,844	3/4	28,153	3/4	15,218	3/4	2,307	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,491	3	40,578	3	27,883	3	14,949	3	2,041	3		3		3		3		3	
1/4	53,221	1/4	40,315	1/4	27,614	1/4	14,680	1/4	1,802	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,952	1/2	40,052	1/2	27,344	1/2	14,410	1/2	1,562	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,683	3/4	39,789	3/4	27,075	3/4	14,141	3/4	1,323	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,413	4	39,526	4	26,806	4	13,871	4	1,083	4		4		4		4		4	
1/4	52,144	1/4	39,263	1/4	26,536	1/4	13,602	1/4	915	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,875	1/2	39,000	1/2	26,267	1/2	13,332	1/2	746	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,605	3/4	38,737	3/4	25,997	3/4	13,063	3/4	578	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,336	5	38,474	5	25,728	5	12,793	5	409	5		5		5		5		5	
1/4	51,067	1/4	38,211	1/4	25,458	1/4	12,524	1/4	330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,797	1/2	37,947	1/2	25,189	1/2	12,254	1/2	251	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,528	3/4	37,684	3/4	24,919	3/4	11,985	3/4	173	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,259	6	37,421	6	24,650	6	11,715	6	94	6		6		6		6		6	
1/4	49,989	1/4	37,158	1/4	24,380	1/4	11,446	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,720	1/2	36,895	1/2	24,111	1/2	11,176	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,451	3/4	36,632	3/4	23,841	3/4	10,907	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	49,181	7	36,369	7	23,572	7	10,637	7		7		7		7		7		7	
1/4	48,912	1/4	36,106	1/4	23,302	1/4	10,368	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,643	1/2	35,843	1/2	23,033	1/2	10,098	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,373	3/4	35,580	3/4	22,764	3/4	9,828	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	48,104	8	35,317	8	22,494	8	9,559	8		8		8		8		8		8	
1/4	47,835	1/4	35,054	1/4	22,225	1/4	9,289	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,565	1/2	34,791	1/2	21,955	1/2	9,019	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,296	3/4	34,527	3/4	21,686	3/4	8,750	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	47,027	9	34,264	9	21,416	9	8,480	9		9		9		9		9		9	
1/4	46,757	1/4	34,001	1/4	21,147	1/4	8,210	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,488	1/2	33,738	1/2	20,877	1/2	7,941	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,219	3/4	33,475	3/4	20,608	3/4	7,671	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	45,949	10	33,212	10	20,338	10	7,401	10		10		10		10		10		10	
1/4	45,680	1/4	32,949	1/4	20,069	1/4	7,132	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,411	1/2	32,686	1/2	19,799	1/2	6,862	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,142	3/4	32,423	3/4	19,530	3/4	6,593	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	44,872	11	32,160	11	19,260	11	6,323	11		11		11		11		11		11	
1/4	44,603	1/4	31,897	1/4	18,991	1/4	6,054	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,334	1/2	31,634	1/2	18,722	1/2	5,785	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,064	3/4	31,371	3/4	18,452	3/4	5,516	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.
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Pearland, Texas 77588
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BARGE "IB 1946"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	164,913	0	153,729	0	141,295	0	128,861	0	116,427	0	103,993	0	91,558	0	79,124	0	66,690
1/4	1/4	1/4	164,851	1/4	153,470	1/4	141,036	1/4	128,602	1/4	116,168	1/4	103,734	1/4	91,299	1/4	78,865	1/4	66,431
1/2	1/2	1/2	164,789	1/2	153,211	1/2	140,777	1/2	128,343	1/2	115,909	1/2	103,474	1/2	91,040	1/2	78,606	1/2	66,172
3/4	3/4	3/4	164,727	3/4	152,952	3/4	140,518	3/4	128,084	3/4	115,650	3/4	103,215	3/4	90,781	3/4	78,347	3/4	65,913
1		1	164,587	1	152,693	1	140,259	1	127,825	1	115,390	1	102,956	1	90,522	1	78,088	1	65,654
1/4	1/4	1/4	164,446	1/4	152,434	1/4	140,000	1/4	127,566	1/4	115,131	1/4	102,697	1/4	90,263	1/4	77,829	1/4	65,395
1/2	1/2	1/2	164,306	1/2	152,175	1/2	139,741	1/2	127,306	1/2	114,872	1/2	102,438	1/2	90,004	1/2	77,570	1/2	65,136
3/4	3/4	3/4	164,166	3/4	151,916	3/4	139,482	3/4	127,047	3/4	114,613	3/4	102,179	3/4	89,745	3/4	77,311	3/4	64,877
2		2	163,947	2	151,657	2	139,222	2	126,788	2	114,354	2	101,920	2	89,486	2	77,052	2	64,618
1/4	1/4	1/4	163,728	1/4	151,398	1/4	138,963	1/4	126,529	1/4	114,095	1/4	101,661	1/4	89,227	1/4	76,793	1/4	64,359
1/2	1/2	1/2	163,509	1/2	151,138	1/2	138,704	1/2	126,270	1/2	113,836	1/2	101,402	1/2	88,968	1/2	76,534	1/2	64,100
3/4	3/4	3/4	163,290	3/4	150,879	3/4	138,445	3/4	126,011	3/4	113,577	3/4	101,143	3/4	88,709	3/4	76,275	3/4	63,841
3		3	163,036	3	150,620	3	138,186	3	125,752	3	113,318	3	100,884	3	88,450	3	76,016	3	63,582
1/4	1/4	1/4	162,782	1/4	150,361	1/4	137,927	1/4	125,493	1/4	113,059	1/4	100,625	1/4	88,191	1/4	75,757	1/4	63,323
1/2	1/2	1/2	162,528	1/2	150,102	1/2	137,668	1/2	125,234	1/2	112,800	1/2	100,366	1/2	87,932	1/2	75,498	1/2	63,064
3/4	3/4	3/4	162,275	3/4	149,843	3/4	137,409	3/4	124,975	3/4	112,541	3/4	100,107	3/4	87,673	3/4	75,239	3/4	62,805
4		4	162,016	4	149,584	4	137,150	4	124,716	4	112,282	4	99,848	4	87,414	4	74,980	4	62,546
1/4	1/4	1/4	161,758	1/4	149,325	1/4	136,891	1/4	124,457	1/4	112,023	1/4	99,589	1/4	87,155	1/4	74,721	1/4	62,287
1/2	1/2	1/2	161,499	1/2	149,066	1/2	136,632	1/2	124,198	1/2	111,764	1/2	99,330	1/2	86,896	1/2	74,462	1/2	62,027
3/4	3/4	3/4	161,241	3/4	148,807	3/4	136,373	3/4	123,939	3/4	111,505	3/4	99,071	3/4	86,637	3/4	74,203	3/4	61,768
5		5	160,982	5	148,548	5	136,114	5	123,680	5	111,246	5	98,812	5	86,378	5	73,943	5	61,509
1/4	1/4	1/4	160,723	1/4	148,289	1/4	135,855	1/4	123,421	1/4	110,987	1/4	98,553	1/4	86,119	1/4	73,684	1/4	61,250
1/2	1/2	1/2	160,464	1/2	148,030	1/2	135,596	1/2	123,162	1/2	110,728	1/2	98,294	1/2	85,859	1/2	73,425	1/2	60,991
3/4	3/4	3/4	160,205	3/4	147,771	3/4	135,337	3/4	122,903	3/4	110,469	3/4	98,035	3/4	85,600	3/4	73,166	3/4	60,732
6		6	159,946	6	147,512	6	135,078	6	122,644	6	110,210	6	97,775	6	85,341	6	72,907	6	60,473
1/4	1/4	1/4	159,687	1/4	147,253	1/4	134,819	1/4	122,385	1/4	109,951	1/4	97,516	1/4	85,082	1/4	72,648	1/4	60,214
1/2	1/2	1/2	159,428	1/2	146,994	1/2	134,560	1/2	122,126	1/2	109,692	1/2	97,257	1/2	84,823	1/2	72,389	1/2	59,955
3/4	3/4	3/4	159,169	3/4	146,735	3/4	134,301	3/4	121,867	3/4	109,432	3/4	96,998	3/4	84,564	3/4	72,130	3/4	59,696
7		7	158,910	7	146,476	7	134,042	7	121,608	7	109,173	7	96,739	7	84,305	7	71,871	7	59,437
1/4	1/4	1/4	158,651	1/4	146,217	1/4	133,783	1/4	121,348	1/4	108,914	1/4	96,480	1/4	84,046	1/4	71,612	1/4	59,178
1/2	1/2	1/2	158,392	1/2	145,958	1/2	133,524	1/2	121,089	1/2	108,655	1/2	96,221	1/2	83,787	1/2	71,353	1/2	58,919
3/4	3/4	3/4	158,133	3/4	145,699	3/4	133,264	3/4	120,830	3/4	108,396	3/4	95,962	3/4	83,528	3/4	71,094	3/4	58,660
8		8	157,874	8	145,440	8	133,005	8	120,571	8	108,137	8	95,703	8	83,269	8	70,835	8	58,401
1/4	1/4	1/4	157,615	1/4	145,180	1/4	132,746	1/4	120,312	1/4	107,878	1/4	95,444	1/4	83,010	1/4	70,576	1/4	58,142
1/2	1/2	1/2	157,356	1/2	144,921	1/2	132,487	1/2	120,053	1/2	107,619	1/2	95,185	1/2	82,751	1/2	70,317	1/2	57,883
3/4	3/4	3/4	157,097	3/4	144,662	3/4	132,228	3/4	119,794	3/4	107,360	3/4	94,926	3/4	82,492	3/4	70,058	3/4	57,624
9		9	156,837	9	144,403	9	131,969	9	119,535	9	107,101	9	94,667	9	82,233	9	69,799	9	57,365
1/4	1/4	1/4	156,578	1/4	144,144	1/4	131,710	1/4	119,276	1/4	106,842	1/4	94,408	1/4	81,974	1/4	69,540	1/4	57,106
1/2	1/2	1/2	156,319	1/2	143,885	1/2	131,451	1/2	119,017	1/2	106,583	1/2	94,149	1/2	81,715	1/2	69,281	1/2	56,847
3/4	3/4	3/4	156,060	3/4	143,626	3/4	131,192	3/4	118,758	3/4	106,324	3/4	93,890	3/4	81,456	3/4	69,022	3/4	56,588
10		10	155,801	10	143,367	10	130,933	10	118,499	10	106,065	10	93,631	10	81,197	10	68,763	10	56,329
1/4	1/4	1/4	155,542	1/4	143,108	1/4	130,674	1/4	118,240	1/4	105,806	1/4	93,372	1/4	80,938	1/4	68,504	1/4	56,069
1/2	1/2	1/2	155,283	1/2	142,849	1/2	130,415	1/2	117,981	1/2	105,547	1/2	93,113	1/2	80,679	1/2	68,245	1/2	55,810
3/4	3/4	3/4	155,024	3/4	142,590	3/4	130,156	3/4	117,722	3/4	105,288	3/4	92,854	3/4	80,420	3/4	67,985	3/4	55,551
11		11	154,765	11	142,331	11	129,897	11	117,463	11	105,029	11	92,595	11	80,161	11	67,726	11	55,292
1/4	1/4	1/4	154,506	1/4	142,072	1/4	129,638	1/4	117,204	1/4	104,770	1/4	92,336	1/4	79,901	1/4	67,467	1/4	55,033
1/2	1/2	1/2	154,247	1/2	141,813	1/2	129,379	1/2	116,945	1/2	104,511	1/2	92,077	1/2	79,642	1/2	67,208	1/2	54,774
3/4	3/4	3/4	164,975	3/4	153,988	3/4	141,554	3/4	129,120	3/4	116,686	3/4	104,252	3/4	91,817	3/4	79,383	3/4	54,515

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 1946"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	54,256	0	41,822	0	29,633	0	17,206	0	4,777	0		0		0		0		0	
1/4	53,997	1/4	41,563	1/4	29,376	1/4	16,947	1/4	4,519	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,738	1/2	41,304	1/2	29,119	1/2	16,688	1/2	4,262	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,479	3/4	41,045	3/4	28,863	3/4	16,429	3/4	4,004	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	53,220	1	40,786	1	28,604	1	16,170	1	3,747	1		1		1		1		1	
1/4	52,961	1/4	40,527	1/4	28,345	1/4	15,911	1/4	3,491	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,702	1/2	40,268	1/2	28,086	1/2	15,652	1/2	3,234	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,443	3/4	40,009	3/4	27,826	3/4	15,393	3/4	2,978	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	52,184	2	39,754	2	27,567	2	15,134	2	2,723	2		2		2		2		2	
1/4	51,925	1/4	39,498	1/4	27,308	1/4	14,875	1/4	2,469	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,666	1/2	39,243	1/2	27,049	1/2	14,616	1/2	2,214	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,407	3/4	38,988	3/4	26,790	3/4	14,357	3/4	1,959	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	51,148	3	38,735	3	26,531	3	14,098	3	1,730	3		3		3		3		3	
1/4	50,889	1/4	38,483	1/4	26,272	1/4	13,839	1/4	1,500	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,630	1/2	38,230	1/2	26,013	1/2	13,580	1/2	1,270	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,370	3/4	37,977	3/4	25,754	3/4	13,321	3/4	1,040	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	50,111	4	37,724	4	25,495	4	13,062	4	878	4		4		4		4		4	
1/4	49,852	1/4	37,471	1/4	25,236	1/4	12,802	1/4	717	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,593	1/2	37,219	1/2	24,977	1/2	12,543	1/2	555	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,334	3/4	36,966	3/4	24,718	3/4	12,284	3/4	393	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	49,075	5	36,713	5	24,459	5	12,025	5	318	5		5		5		5		5	
1/4	48,816	1/4	36,460	1/4	24,200	1/4	11,766	1/4	242	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,557	1/2	36,208	1/2	23,941	1/2	11,507	1/2	167	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,298	3/4	35,955	3/4	23,682	3/4	11,248	3/4	91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	48,039	6	35,702	6	23,423	6	10,989	6		6		6		6		6		6	
1/4	47,780	1/4	35,450	1/4	23,164	1/4	10,730	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,521	1/2	35,197	1/2	22,905	1/2	10,471	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,262	3/4	34,944	3/4	22,646	3/4	10,212	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	47,003	7	34,691	7	22,387	7	9,953	7		7		7		7		7		7	
1/4	46,744	1/4	34,439	1/4	22,128	1/4	9,694	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,485	1/2	34,186	1/2	21,869	1/2	9,435	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,226	3/4	33,933	3/4	21,610	3/4	9,176	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,967	8	33,680	8	21,351	8	8,917	8		8		8		8		8		8	
1/4	45,708	1/4	33,428	1/4	21,092	1/4	8,658	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,449	1/2	33,175	1/2	20,833	1/2	8,399	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,190	3/4	32,922	3/4	20,574	3/4	8,140	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,931	9	32,669	9	20,314	9	7,881	9		9		9		9		9		9	
1/4	44,672	1/4	32,417	1/4	20,055	1/4	7,622	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,412	1/2	32,164	1/2	19,796	1/2	7,363	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,153	3/4	31,911	3/4	19,537	3/4	7,104	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,894	10	31,658	10	19,278	10	6,845	10		10		10		10		10		10	
1/4	43,635	1/4	31,406	1/4	19,019	1/4	6,586	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,376	1/2	31,153	1/2	18,760	1/2	6,327	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,117	3/4	30,900	3/4	18,501	3/4	6,069	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,858	11	30,648	11	18,242	11	5,810	11		11		11		11		11		11	
1/4	42,599	1/4	30,395	1/4	17,983	1/4	5,552	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,340	1/2	30,142	1/2	17,724	1/2	5,293	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,081	3/4	29,889	3/4	17,465	3/4	5,035	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 1946"

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	164,169	0	153,251	0	140,895	0	128,539	0	116,183	0	103,828	0	91,472	0	79,116	0	66,760
1/4		1/4	164,107	1/4	152,993	1/4	140,638	1/4	128,282	1/4	115,926	1/4	103,570	1/4	91,214	1/4	78,859	1/4	66,503
1/2		1/2	164,045	1/2	152,736	1/2	140,380	1/2	128,024	1/2	115,669	1/2	103,313	1/2	90,957	1/2	78,601	1/2	66,245
3/4		3/4	163,984	3/4	152,479	3/4	140,123	3/4	127,767	3/4	115,411	3/4	103,055	3/4	90,700	3/4	78,344	3/4	65,988
1		1	163,922	1	152,221	1	139,865	1	127,510	1	115,154	1	102,798	1	90,442	1	78,086	1	65,731
1/4		1/4	163,783	1/4	151,964	1/4	139,608	1/4	127,252	1/4	114,896	1/4	102,541	1/4	90,185	1/4	77,829	1/4	65,473
1/2		1/2	163,643	1/2	151,706	1/2	139,351	1/2	126,995	1/2	114,639	1/2	102,283	1/2	89,927	1/2	77,572	1/2	65,216
3/4		3/4	163,504	3/4	151,449	3/4	139,093	3/4	126,737	3/4	114,382	3/4	102,026	3/4	89,670	3/4	77,314	3/4	64,958
2		2	163,364	2	151,192	2	138,836	2	126,480	2	114,124	2	101,768	2	89,413	2	77,057	2	64,701
1/4		1/4	163,147	1/4	150,934	1/4	138,578	1/4	126,223	1/4	113,867	1/4	101,511	1/4	89,155	1/4	76,799	1/4	64,444
1/2		1/2	162,929	1/2	150,677	1/2	138,321	1/2	125,965	1/2	113,609	1/2	101,254	1/2	88,898	1/2	76,542	1/2	64,186
3/4		3/4	162,711	3/4	150,419	3/4	138,063	3/4	125,708	3/4	113,352	3/4	100,996	3/4	88,640	3/4	76,285	3/4	63,929
3		3	162,494	3	150,162	3	137,806	3	125,450	3	113,095	3	100,739	3	88,383	3	76,027	3	63,671
1/4		1/4	162,242	1/4	149,904	1/4	137,549	1/4	125,193	1/4	112,837	1/4	100,481	1/4	88,126	1/4	75,770	1/4	63,414
1/2		1/2	161,989	1/2	149,647	1/2	137,291	1/2	124,935	1/2	112,580	1/2	100,224	1/2	87,868	1/2	75,512	1/2	63,157
3/4		3/4	161,737	3/4	149,390	3/4	137,034	3/4	124,678	3/4	112,322	3/4	99,966	3/4	87,611	3/4	75,255	3/4	62,899
4		4	161,485	4	149,132	4	136,776	4	124,421	4	112,065	4	99,709	4	87,353	4	74,997	4	62,642
1/4		1/4	161,228	1/4	148,875	1/4	136,519	1/4	124,163	1/4	111,807	1/4	99,452	1/4	87,096	1/4	74,740	1/4	62,384
1/2		1/2	160,972	1/2	148,617	1/2	136,262	1/2	123,906	1/2	111,550	1/2	99,194	1/2	86,838	1/2	74,483	1/2	62,127
3/4		3/4	160,715	3/4	148,360	3/4	136,004	3/4	123,648	3/4	111,293	3/4	98,937	3/4	86,581	3/4	74,225	3/4	61,869
5		5	160,458	5	148,103	5	135,747	5	123,391	5	111,035	5	98,679	5	86,324	5	73,968	5	61,612
1/4		1/4	160,201	1/4	147,845	1/4	135,489	1/4	123,134	1/4	110,778	1/4	98,422	1/4	86,066	1/4	73,710	1/4	61,355
1/2		1/2	159,943	1/2	147,588	1/2	135,232	1/2	122,876	1/2	110,520	1/2	98,165	1/2	85,809	1/2	73,453	1/2	61,097
3/4		3/4	159,686	3/4	147,330	3/4	134,975	3/4	122,619	3/4	110,263	3/4	97,907	3/4	85,551	3/4	73,196	3/4	60,840
6		6	159,429	6	147,073	6	134,717	6	122,361	6	110,006	6	97,650	6	85,294	6	72,938	6	60,582
1/4		1/4	159,171	1/4	146,816	1/4	134,460	1/4	122,104	1/4	109,748	1/4	97,392	1/4	85,037	1/4	72,681	1/4	60,325
1/2		1/2	158,914	1/2	146,558	1/2	134,202	1/2	121,847	1/2	109,491	1/2	97,135	1/2	84,779	1/2	72,423	1/2	60,068
3/4		3/4	158,656	3/4	146,301	3/4	133,945	3/4	121,589	3/4	109,233	3/4	96,878	3/4	84,522	3/4	72,166	3/4	59,810
7		7	158,399	7	146,043	7	133,687	7	121,332	7	108,976	7	96,620	7	84,264	7	71,909	7	59,553
1/4		1/4	158,142	1/4	145,786	1/4	133,430	1/4	121,074	1/4	108,718	1/4	96,363	1/4	84,007	1/4	71,651	1/4	59,295
1/2		1/2	157,884	1/2	145,528	1/2	133,173	1/2	120,817	1/2	108,461	1/2	96,105	1/2	83,750	1/2	71,394	1/2	59,038
3/4		3/4	157,627	3/4	145,271	3/4	132,915	3/4	120,559	3/4	108,204	3/4	95,848	3/4	83,492	3/4	71,136	3/4	58,781
8		8	157,369	8	145,014	8	132,658	8	120,302	8	107,946	8	95,590	8	83,235	8	70,879	8	58,523
1/4		1/4	157,112	1/4	144,756	1/4	132,400	1/4	120,045	1/4	107,689	1/4	95,333	1/4	82,977	1/4	70,621	1/4	58,266
1/2		1/2	156,855	1/2	144,499	1/2	132,143	1/2	119,787	1/2	107,431	1/2	95,076	1/2	82,720	1/2	70,364	1/2	58,008
3/4		3/4	156,597	3/4	144,241	3/4	131,886	3/4	119,530	3/4	107,174	3/4	94,818	3/4	82,462	3/4	70,107	3/4	57,751
9		9	156,340	9	143,984	9	131,628	9	119,272	9	106,917	9	94,561	9	82,205	9	69,849	9	57,493
1/4		1/4	156,082	1/4	143,727	1/4	131,371	1/4	119,015	1/4	106,659	1/4	94,303	1/4	81,948	1/4	69,592	1/4	57,236
1/2		1/2	155,825	1/2	143,469	1/2	131,113	1/2	118,758	1/2	106,402	1/2	94,046	1/2	81,690	1/2	69,334	1/2	56,979
3/4		3/4	155,568	3/4	143,212	3/4	130,856	3/4	118,500	3/4	106,144	3/4	93,789	3/4	81,433	3/4	69,077	3/4	56,721
10		10	155,310	10	142,954	10	130,599	10	118,243	10	105,887	10	93,531	10	81,175	10	68,820	10	56,464
1/4		1/4	155,053	1/4	142,697	1/4	130,341	1/4	117,985	1/4	105,630	1/4	93,274	1/4	80,918	1/4	68,562	1/4	56,206
1/2		1/2	154,795	1/2	142,439	1/2	130,084	1/2	117,728	1/2	105,372	1/2	93,016	1/2	80,661	1/2	68,305	1/2	55,949
3/4		3/4	154,538	3/4	142,182	3/4	129,826	3/4	117,471	3/4	105,115	3/4	92,759	3/4	80,403	3/4	68,047	3/4	55,692
11		11	154,280	11	141,925	11	129,569	11	117,213	11	104,857	11	92,502	11	80,146	11	67,790	11	55,434
1/4		1/4	154,023	1/4	141,667	1/4	129,311	1/4	116,956	1/4	104,600	1/4	92,244	1/4	79,888	1/4	67,533	1/4	55,177
1/2		1/2	153,766	1/2	141,410	1/2	129,054	1/2	116,698	1/2	104,342	1/2	91,987	1/2	79,631	1/2	67,275	1/2	54,919
3/4		3/4	153,508	3/4	141,152	3/4	128,797	3/4	116,441	3/4	104,085	3/4	91,729	3/4	79,374	3/4	67,018	3/4	54,662

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 1946"

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	54,405	0	42,049	0	29,710	0	17,355	0	5,003	0		0		0		0		0	
1/4	54,147	1/4	41,791	1/4	29,453	1/4	17,098	1/4	4,747	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,890	1/2	41,534	1/2	29,195	1/2	16,840	1/2	4,491	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,632	3/4	41,277	3/4	28,938	3/4	16,583	3/4	4,235	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	53,375	1	41,019	1	28,681	1	16,326	1	3,979	1		1		1		1		1	
1/4	53,117	1/4	40,762	1/4	28,424	1/4	16,068	1/4	3,724	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,860	1/2	40,504	1/2	28,166	1/2	15,811	1/2	3,469	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,603	3/4	40,247	3/4	27,909	3/4	15,553	3/4	3,214	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	52,345	2	39,989	2	27,651	2	15,296	2	2,959	2		2		2		2		2	
1/4	52,088	1/4	39,732	1/4	27,394	1/4	15,039	1/4	2,706	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,830	1/2	39,475	1/2	27,137	1/2	14,781	1/2	2,453	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,573	3/4	39,218	3/4	26,879	3/4	14,524	3/4	2,200	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	51,316	3	38,961	3	26,622	3	14,266	3	1,947	3		3		3		3		3	
1/4	51,058	1/4	38,704	1/4	26,364	1/4	14,009	1/4	1,719	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,801	1/2	38,447	1/2	26,107	1/2	13,752	1/2	1,491	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,543	3/4	38,190	3/4	25,850	3/4	13,494	3/4	1,262	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	50,286	4	37,933	4	25,592	4	13,237	4	1,034	4		4		4		4		4	
1/4	50,029	1/4	37,676	1/4	25,335	1/4	12,979	1/4	873	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,771	1/2	37,419	1/2	25,077	1/2	12,722	1/2	712	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,514	3/4	37,162	3/4	24,820	3/4	12,465	3/4	552	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	49,256	5	36,905	5	24,563	5	12,207	5	391	5		5		5		5		5	
1/4	48,999	1/4	36,648	1/4	24,305	1/4	11,950	1/4	316	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,741	1/2	36,391	1/2	24,048	1/2	11,692	1/2	241	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,484	3/4	36,134	3/4	23,790	3/4	11,435	3/4	166	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	48,227	6	35,877	6	23,533	6	11,178	6	91	6		6		6		6		6	
1/4	47,969	1/4	35,620	1/4	23,276	1/4	10,920	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,712	1/2	35,363	1/2	23,018	1/2	10,663	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,454	3/4	35,106	3/4	22,761	3/4	10,405	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	47,197	7	34,849	7	22,503	7	10,148	7		7		7		7		7		7	
1/4	46,940	1/4	34,592	1/4	22,246	1/4	9,891	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,682	1/2	34,335	1/2	21,989	1/2	9,633	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,425	3/4	34,078	3/4	21,731	3/4	9,376	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	46,167	8	33,821	8	21,474	8	9,118	8		8		8		8		8		8	
1/4	45,910	1/4	33,564	1/4	21,216	1/4	8,861	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,653	1/2	33,307	1/2	20,959	1/2	8,604	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,395	3/4	33,050	3/4	20,702	3/4	8,346	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	45,138	9	32,793	9	20,444	9	8,089	9		9		9		9		9		9	
1/4	44,880	1/4	32,536	1/4	20,187	1/4	7,831	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,623	1/2	32,280	1/2	19,929	1/2	7,574	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,365	3/4	32,023	3/4	19,672	3/4	7,317	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	44,108	10	31,766	10	19,415	10	7,059	10		10		10		10		10		10	
1/4	43,851	1/4	31,509	1/4	19,157	1/4	6,802	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,593	1/2	31,252	1/2	18,900	1/2	6,545	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,336	3/4	30,995	3/4	18,642	3/4	6,288	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	43,078	11	30,738	11	18,385	11	6,030	11		11		11		11		11		11	
1/4	42,821	1/4	30,481	1/4	18,127	1/4	5,774	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,564	1/2	30,224	1/2	17,870	1/2	5,517	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,306	3/4	29,967	3/4	17,613	3/4	5,260	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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CALCULATED: 10/17/2013 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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