



BARGE "IB 1948"

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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00	00
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	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	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 24, 2013

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1948"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	159,302	0	151,139	0	141,574	0	132,009	0	121,426	0	108,485	0	95,546	0	82,605	0	69,673
1/4	1/4	159,282	1/4	150,940	1/4	141,375	1/4	131,809	1/4	121,156	1/4	108,216	1/4	95,276	1/4	82,336	1/4	69,404	
1/2	1/2	159,261	1/2	150,741	1/2	141,175	1/2	131,610	1/2	120,887	1/2	107,946	1/2	95,007	1/2	82,066	1/2	69,136	
3/4	3/4	159,241	3/4	150,541	3/4	140,976	3/4	131,411	3/4	120,617	3/4	107,677	3/4	94,737	3/4	81,796	3/4	68,867	
1		1	159,220	1	150,342	1	140,777	1	131,212	1	120,347	1	107,407	1	94,467	1	81,527	1	68,598
1/4	1/4	159,145	1/4	150,143	1/4	140,578	1/4	131,012	1/4	120,078	1/4	107,137	1/4	94,198	1/4	81,257	1/4	68,329	
1/2	1/2	159,069	1/2	149,944	1/2	140,378	1/2	130,813	1/2	119,808	1/2	106,868	1/2	93,928	1/2	80,988	1/2	68,060	
3/4	3/4	158,994	3/4	149,744	3/4	140,179	3/4	130,614	3/4	119,539	3/4	106,598	3/4	93,659	3/4	80,718	3/4	67,791	
2		2	158,918	2	149,545	2	139,980	2	130,414	2	119,269	2	106,329	2	93,389	2	80,449	2	67,522
1/4	1/4	158,761	1/4	149,346	1/4	139,780	1/4	130,215	1/4	119,000	1/4	106,059	1/4	93,119	1/4	80,179	1/4	67,253	
1/2	1/2	158,603	1/2	149,146	1/2	139,581	1/2	130,016	1/2	118,730	1/2	105,790	1/2	92,850	1/2	79,909	1/2	66,984	
3/4	3/4	158,446	3/4	148,947	3/4	139,382	3/4	129,817	3/4	118,460	3/4	105,520	3/4	92,580	3/4	79,640	3/4	66,715	
3		3	158,288	3	148,748	3	139,183	3	129,617	3	118,191	3	105,250	3	92,311	3	79,370	3	66,446
1/4	1/4	158,094	1/4	148,549	1/4	138,983	1/4	129,418	1/4	117,921	1/4	104,981	1/4	92,041	1/4	79,101	1/4	66,177	
1/2	1/2	157,901	1/2	148,349	1/2	138,784	1/2	129,219	1/2	117,652	1/2	104,711	1/2	91,771	1/2	78,831	1/2	65,908	
3/4	3/4	157,707	3/4	148,150	3/4	138,585	3/4	129,020	3/4	117,382	3/4	104,442	3/4	91,502	3/4	78,561	3/4	65,639	
4		4	157,513	4	147,951	4	138,386	4	128,820	4	117,112	4	104,172	4	91,232	4	78,292	4	65,370
1/4	1/4	157,315	1/4	147,752	1/4	138,186	1/4	128,621	1/4	116,843	1/4	103,903	1/4	90,963	1/4	78,022	1/4	65,101	
1/2	1/2	157,116	1/2	147,552	1/2	137,987	1/2	128,422	1/2	116,573	1/2	103,633	1/2	90,693	1/2	77,753	1/2	64,832	
3/4	3/4	156,917	3/4	147,353	3/4	137,788	3/4	128,222	3/4	116,304	3/4	103,363	3/4	90,423	3/4	77,483	3/4	64,563	
5		5	156,719	5	147,154	5	137,588	5	128,023	5	116,034	5	103,094	5	90,154	5	77,213	5	64,294
1/4	1/4	156,519	1/4	146,954	1/4	137,389	1/4	127,824	1/4	115,764	1/4	102,824	1/4	89,884	1/4	76,944	1/4	64,025	
1/2	1/2	156,320	1/2	146,755	1/2	137,190	1/2	127,625	1/2	115,495	1/2	102,555	1/2	89,615	1/2	76,674	1/2	63,756	
3/4	3/4	156,121	3/4	146,556	3/4	136,991	3/4	127,425	3/4	115,225	3/4	102,285	3/4	89,345	3/4	76,405	3/4	63,487	
6		6	155,922	6	146,357	6	136,791	6	127,226	6	114,956	6	102,016	6	89,076	6	76,135	6	63,218
1/4	1/4	155,723	1/4	146,157	1/4	136,592	1/4	127,027	1/4	114,686	1/4	101,746	1/4	88,806	1/4	75,865	1/4	62,948	
1/2	1/2	155,523	1/2	145,958	1/2	136,393	1/2	126,828	1/2	114,416	1/2	101,477	1/2	88,536	1/2	75,596	1/2	62,679	
3/4	3/4	155,324	3/4	145,759	3/4	136,193	3/4	126,628	3/4	114,147	3/4	101,207	3/4	88,267	3/4	75,326	3/4	62,410	
7		7	155,125	7	145,559	7	135,994	7	126,429	7	113,877	7	100,937	7	87,997	7	75,057	7	62,141
1/4	1/4	154,925	1/4	145,360	1/4	135,795	1/4	126,230	1/4	113,608	1/4	100,668	1/4	87,728	1/4	74,787	1/4	61,871	
1/2	1/2	154,726	1/2	145,161	1/2	135,596	1/2	126,031	1/2	113,338	1/2	100,398	1/2	87,458	1/2	74,517	1/2	61,602	
3/4	3/4	154,527	3/4	144,962	3/4	135,396	3/4	125,832	3/4	113,068	3/4	100,129	3/4	87,188	3/4	74,248	3/4	61,332	
8		8	154,328	8	144,762	8	135,197	8	125,633	8	112,799	8	99,859	8	86,919	8	73,978	8	61,063
1/4	1/4	154,128	1/4	144,563	1/4	134,998	1/4	125,390	1/4	112,529	1/4	99,590	1/4	86,649	1/4	73,709	1/4	60,793	
1/2	1/2	153,929	1/2	144,364	1/2	134,799	1/2	125,147	1/2	112,260	1/2	99,320	1/2	86,380	1/2	73,440	1/2	60,524	
3/4	3/4	153,730	3/4	144,165	3/4	134,599	3/4	124,904	3/4	111,990	3/4	99,050	3/4	86,110	3/4	73,171	3/4	60,254	
9		9	153,531	9	143,965	9	134,400	9	124,661	9	111,720	9	98,781	9	85,840	9	72,901	9	59,985
1/4	1/4	153,331	1/4	143,766	1/4	134,201	1/4	124,391	1/4	111,451	1/4	98,511	1/4	85,571	1/4	72,632	1/4	59,715	
1/2	1/2	153,132	1/2	143,567	1/2	134,001	1/2	124,122	1/2	111,181	1/2	98,242	1/2	85,301	1/2	72,363	1/2	59,446	
3/4	3/4	152,933	3/4	143,367	3/4	133,802	3/4	123,852	3/4	110,912	3/4	97,972	3/4	85,032	3/4	72,094	3/4	59,176	
10		10	152,733	10	143,168	10	133,603	10	123,583	10	110,642	10	97,702	10	84,762	10	71,825	10	58,907
1/4	1/4	152,534	1/4	142,969	1/4	133,404	1/4	123,313	1/4	110,373	1/4	97,433	1/4	84,492	1/4	71,556	1/4	58,637	
1/2	1/2	152,335	1/2	142,770	1/2	133,204	1/2	123,043	1/2	110,103	1/2	97,163	1/2	84,223	1/2	71,287	1/2	58,368	
3/4	3/4	152,136	3/4	142,570	3/4	133,005	3/4	122,774	3/4	109,833	3/4	96,894	3/4	83,953	3/4	71,018	3/4	58,099	
11		11	151,936	11	142,371	11	132,806	11	122,504	11	109,564	11	96,624	11	83,684	11	70,749	11	57,829
1/4	1/4	151,737	1/4	142,172	1/4	132,607	1/4	122,235	1/4	109,294	1/4	96,355	1/4	83,414	1/4	70,480	1/4	57,560	
1/2	1/2	151,538	1/2	141,973	1/2	132,407	1/2	121,965	1/2	109,025	1/2	96,085	1/2	83,144	1/2	70,211	1/2	57,290	
3/4	3/4	151,338	3/4	141,773	3/4	132,208	3/4	121,695	3/4	108,755	3/4	95,815	3/4	82,875	3/4	69,942	3/4	57,021	

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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Pearland, Texas 77588

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BARGE "IB 1948"

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	56,751	0	43,817	0	31,123	0	18,192	0	5,249	0		0		0		0		0	
1/4	56,482	1/4	43,547	1/4	30,856	1/4	17,922	1/4	4,980	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,212	1/2	43,278	1/2	30,589	1/2	17,653	1/2	4,712	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,943	3/4	43,009	3/4	30,322	3/4	17,383	3/4	4,443	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,673	1	42,739	1	30,054	1	17,113	1	4,174	1		1		1		1		1	
1/4	55,404	1/4	42,470	1/4	29,785	1/4	16,844	1/4	3,907	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,134	1/2	42,200	1/2	29,515	1/2	16,574	1/2	3,639	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,865	3/4	41,931	3/4	29,245	3/4	16,305	3/4	3,372	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,596	2	41,661	2	28,976	2	16,035	2	3,104	2		2		2		2		2	
1/4	54,326	1/4	41,396	1/4	28,706	1/4	15,765	1/4	2,839	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,057	1/2	41,130	1/2	28,437	1/2	15,496	1/2	2,573	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,787	3/4	40,864	3/4	28,167	3/4	15,226	3/4	2,308	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,518	3	40,599	3	27,897	3	14,957	3	2,042	3		3		3		3		3	
1/4	53,248	1/4	40,336	1/4	27,628	1/4	14,687	1/4	1,803	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,979	1/2	40,072	1/2	27,358	1/2	14,417	1/2	1,563	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,709	3/4	39,809	3/4	27,089	3/4	14,148	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	52,440	4	39,546	4	26,819	4	13,878	4	1,084	4		4		4		4		4	
1/4	52,170	1/4	39,283	1/4	26,549	1/4	13,609	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	51,901	1/2	39,019	1/2	26,280	1/2	13,339	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	51,631	3/4	38,756	3/4	26,010	3/4	13,069	3/4	578	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,362	5	38,493	5	25,741	5	12,800	5	409	5		5		5		5		5	
1/4	51,092	1/4	38,230	1/4	25,471	1/4	12,530	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	50,823	1/2	37,967	1/2	25,201	1/2	12,260	1/2	252	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,554	3/4	37,703	3/4	24,932	3/4	11,991	3/4	173	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	50,284	6	37,440	6	24,662	6	11,721	6	94	6		6		6		6		6	
1/4	50,015	1/4	37,177	1/4	24,393	1/4	11,452	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,745	1/2	36,914	1/2	24,123	1/2	11,182	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,476	3/4	36,651	3/4	23,853	3/4	10,912	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	49,206	7	36,387	7	23,584	7	10,643	7		7		7		7		7		7	
1/4	48,937	1/4	36,124	1/4	23,314	1/4	10,373	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,667	1/2	35,861	1/2	23,045	1/2	10,103	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,398	3/4	35,598	3/4	22,775	3/4	9,833	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	48,128	8	35,335	8	22,505	8	9,564	8		8		8		8		8		8	
1/4	47,859	1/4	35,071	1/4	22,236	1/4	9,294	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,589	1/2	34,808	1/2	21,966	1/2	9,024	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,320	3/4	34,545	3/4	21,697	3/4	8,754	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	47,051	9	34,282	9	21,427	9	8,484	9		9		9		9		9		9	
1/4	46,781	1/4	34,018	1/4	21,157	1/4	8,214	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,512	1/2	33,755	1/2	20,888	1/2	7,945	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,242	3/4	33,492	3/4	20,618	3/4	7,675	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	45,973	10	33,229	10	20,349	10	7,405	10		10		10		10		10		10	
1/4	45,703	1/4	32,966	1/4	20,079	1/4	7,136	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,434	1/2	32,702	1/2	19,809	1/2	6,866	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,164	3/4	32,439	3/4	19,540	3/4	6,596	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	44,895	11	32,176	11	19,270	11	6,327	11		11		11		11		11		11	
1/4	44,625	1/4	31,913	1/4	19,001	1/4	6,057	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,356	1/2	31,650	1/2	18,731	1/2	5,788	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,086	3/4	31,386	3/4	18,461	3/4	5,518	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "IB 1948"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	165,053	0	153,658	0	141,208	0	128,759	0	116,310	0	103,860	0	91,411	0	78,962	0	66,512
1/4		1/4	164,991	1/4	153,398	1/4	140,949	1/4	128,500	1/4	116,050	1/4	103,601	1/4	91,152	1/4	78,702	1/4	66,253
1/2		1/2	164,928	1/2	153,139	1/2	140,690	1/2	128,240	1/2	115,791	1/2	103,342	1/2	90,892	1/2	78,443	1/2	65,994
3/4		3/4	164,788	3/4	152,880	3/4	140,430	3/4	127,981	3/4	115,532	3/4	103,082	3/4	90,633	3/4	78,184	3/4	65,734
1		1	164,647	1	152,620	1	140,171	1	127,722	1	115,272	1	102,823	1	90,374	1	77,924	1	65,475
1/4		1/4	164,507	1/4	152,361	1/4	139,912	1/4	127,462	1/4	115,013	1/4	102,564	1/4	90,114	1/4	77,665	1/4	65,216
1/2		1/2	164,367	1/2	152,102	1/2	139,652	1/2	127,203	1/2	114,754	1/2	102,304	1/2	89,855	1/2	77,406	1/2	64,956
3/4		3/4	164,147	3/4	151,842	3/4	139,393	3/4	126,943	3/4	114,494	3/4	102,045	3/4	89,596	3/4	77,146	3/4	64,697
2		2	163,928	2	151,583	2	139,133	2	126,684	2	114,235	2	101,785	2	89,336	2	76,887	2	64,438
1/4		1/4	163,709	1/4	151,323	1/4	138,874	1/4	126,425	1/4	113,975	1/4	101,526	1/4	89,077	1/4	76,627	1/4	64,178
1/2		1/2	163,489	1/2	151,064	1/2	138,615	1/2	126,165	1/2	113,716	1/2	101,267	1/2	88,817	1/2	76,368	1/2	63,919
3/4		3/4	163,235	3/4	150,805	3/4	138,355	3/4	125,906	3/4	113,457	3/4	101,007	3/4	88,558	3/4	76,109	3/4	63,659
3		3	162,981	3	150,545	3	138,096	3	125,647	3	113,197	3	100,748	3	88,299	3	75,849	3	63,400
1/4		1/4	162,727	1/4	150,286	1/4	137,837	1/4	125,387	1/4	112,938	1/4	100,489	1/4	88,039	1/4	75,590	1/4	63,141
1/2		1/2	162,473	1/2	150,027	1/2	137,577	1/2	125,128	1/2	112,679	1/2	100,229	1/2	87,780	1/2	75,331	1/2	62,881
3/4		3/4	162,214	3/4	149,767	3/4	137,318	3/4	124,869	3/4	112,419	3/4	99,970	3/4	87,521	3/4	75,071	3/4	62,622
4		4	161,956	4	149,508	4	137,059	4	124,609	4	112,160	4	99,711	4	87,261	4	74,812	4	62,363
1/4		1/4	161,697	1/4	149,249	1/4	136,799	1/4	124,350	1/4	111,901	1/4	99,451	1/4	87,002	1/4	74,553	1/4	62,103
1/2		1/2	161,438	1/2	148,989	1/2	136,540	1/2	124,091	1/2	111,641	1/2	99,192	1/2	86,743	1/2	74,293	1/2	61,844
3/4		3/4	161,179	3/4	148,730	3/4	136,280	3/4	123,831	3/4	111,382	3/4	98,933	3/4	86,483	3/4	74,034	3/4	61,585
5		5	160,920	5	148,470	5	136,021	5	123,572	5	111,122	5	98,673	5	86,224	5	73,775	5	61,325
1/4		1/4	160,660	1/4	148,211	1/4	135,762	1/4	123,312	1/4	110,863	1/4	98,414	1/4	85,964	1/4	73,515	1/4	61,066
1/2		1/2	160,401	1/2	147,952	1/2	135,502	1/2	123,053	1/2	110,604	1/2	98,154	1/2	85,705	1/2	73,256	1/2	60,806
3/4		3/4	160,142	3/4	147,692	3/4	135,243	3/4	122,794	3/4	110,344	3/4	97,895	3/4	85,446	3/4	72,996	3/4	60,547
6		6	159,882	6	147,433	6	134,984	6	122,534	6	110,085	6	97,636	6	85,186	6	72,737	6	60,288
1/4		1/4	159,623	1/4	147,174	1/4	134,724	1/4	122,275	1/4	109,826	1/4	97,376	1/4	84,927	1/4	72,478	1/4	60,028
1/2		1/2	159,364	1/2	146,914	1/2	134,465	1/2	122,016	1/2	109,566	1/2	97,117	1/2	84,668	1/2	72,218	1/2	59,769
3/4		3/4	159,104	3/4	146,655	3/4	134,206	3/4	121,756	3/4	109,307	3/4	96,858	3/4	84,408	3/4	71,959	3/4	59,510
7		7	158,845	7	146,396	7	133,946	7	121,497	7	109,048	7	96,598	7	84,149	7	71,700	7	59,250
1/4		1/4	158,586	1/4	146,136	1/4	133,687	1/4	121,238	1/4	108,788	1/4	96,339	1/4	83,890	1/4	71,440	1/4	58,991
1/2		1/2	158,326	1/2	145,877	1/2	133,428	1/2	120,978	1/2	108,529	1/2	96,080	1/2	83,630	1/2	71,181	1/2	58,732
3/4		3/4	158,067	3/4	145,617	3/4	133,168	3/4	120,719	3/4	108,270	3/4	95,820	3/4	83,371	3/4	70,922	3/4	58,472
8		8	157,807	8	145,358	8	132,909	8	120,459	8	108,010	8	95,561	8	83,112	8	70,662	8	58,213
1/4		1/4	157,548	1/4	145,099	1/4	132,649	1/4	120,200	1/4	107,751	1/4	95,301	1/4	82,852	1/4	70,403	1/4	57,954
1/2		1/2	157,289	1/2	144,839	1/2	132,390	1/2	119,941	1/2	107,491	1/2	95,042	1/2	82,593	1/2	70,143	1/2	57,694
3/4		3/4	157,029	3/4	144,580	3/4	132,131	3/4	119,681	3/4	107,232	3/4	94,783	3/4	82,333	3/4	69,884	3/4	57,435
9		9	156,770	9	144,321	9	131,871	9	119,422	9	106,973	9	94,523	9	82,074	9	69,625	9	57,175
1/4		1/4	156,511	1/4	144,061	1/4	131,612	1/4	119,163	1/4	106,713	1/4	94,264	1/4	81,815	1/4	69,365	1/4	56,916
1/2		1/2	156,251	1/2	143,802	1/2	131,353	1/2	118,903	1/2	106,454	1/2	94,005	1/2	81,555	1/2	69,106	1/2	56,657
3/4		3/4	155,992	3/4	143,543	3/4	131,093	3/4	118,644	3/4	106,195	3/4	93,745	3/4	81,296	3/4	68,847	3/4	56,397
10		10	155,733	10	143,283	10	130,834	10	118,385	10	105,935	10	93,486	10	81,037	10	68,587	10	56,138
1/4		1/4	155,473	1/4	143,024	1/4	130,575	1/4	118,125	1/4	105,676	1/4	93,227	1/4	80,777	1/4	68,328	1/4	55,879
1/2		1/2	155,214	1/2	142,765	1/2	130,315	1/2	117,866	1/2	105,417	1/2	92,967	1/2	80,518	1/2	68,069	1/2	55,619
3/4		3/4	154,954	3/4	142,505	3/4	130,056	3/4	117,607	3/4	105,157	3/4	92,708	3/4	80,259	3/4	67,809	3/4	55,360
11		11	154,695	11	142,246	11	129,796	11	117,347	11	104,898	11	92,449	11	79,999	11	67,550	11	55,101
1/4		1/4	154,436	1/4	141,986	1/4	129,537	1/4	117,088	1/4	104,638	1/4	92,189	1/4	79,740	1/4	67,290	1/4	54,841
1/2	165,177	1/2	154,176	1/2	141,727	1/2	129,278	1/2	116,828	1/2	104,379	1/2	91,930	1/2	79,480	1/2	67,031	1/2	54,582
3/4	165,115	3/4	153,917	3/4	141,468	3/4	129,018	3/4	116,569	3/4	104,120	3/4	91,670	3/4	79,221	3/4	66,772	3/4	54,322

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1948"

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	54,063	0	41,614	0	29,412	0	16,968	0	4,525	0		0		0		0		0	
1/4	53,804	1/4	41,354	1/4	29,155	1/4	16,708	1/4	4,267	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,544	1/2	41,095	1/2	28,898	1/2	16,449	1/2	4,009	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,285	3/4	40,836	3/4	28,638	3/4	16,190	3/4	3,752	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	53,026	1	40,576	1	28,379	1	15,930	1	3,495	1		1		1		1		1	
1/4	52,766	1/4	40,317	1/4	28,120	1/4	15,671	1/4	3,238	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,507	1/2	40,058	1/2	27,860	1/2	15,412	1/2	2,981	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,248	3/4	39,802	3/4	27,601	3/4	15,152	3/4	2,726	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	51,988	2	39,547	2	27,342	2	14,893	2	2,471	2		2		2		2		2	
1/4	51,729	1/4	39,291	1/4	27,082	1/4	14,633	1/4	2,217	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,469	1/2	39,036	1/2	26,823	1/2	14,374	1/2	1,962	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,210	3/4	38,783	3/4	26,564	3/4	14,115	3/4	1,732	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	50,951	3	38,530	3	26,304	3	13,855	3	1,502	3		3		3		3		3	
1/4	50,691	1/4	38,276	1/4	26,045	1/4	13,596	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	50,432	1/2	38,023	1/2	25,786	1/2	13,337	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	50,173	3/4	37,770	3/4	25,526	3/4	13,077	3/4	879	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	49,913	4	37,517	4	25,267	4	12,818	4	717	4		4		4		4		4	
1/4	49,654	1/4	37,264	1/4	25,008	1/4	12,559	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	49,395	1/2	37,011	1/2	24,748	1/2	12,299	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	49,135	3/4	36,758	3/4	24,489	3/4	12,040	3/4	318	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	48,876	5	36,505	5	24,229	5	11,781	5	242	5		5		5		5		5	
1/4	48,617	1/4	36,252	1/4	23,970	1/4	11,521	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	48,357	1/2	35,999	1/2	23,711	1/2	11,262	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	48,098	3/4	35,746	3/4	23,451	3/4	11,003	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	47,838	6	35,493	6	23,192	6	10,743	6		6		6		6		6		6	
1/4	47,579	1/4	35,240	1/4	22,933	1/4	10,484	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,320	1/2	34,987	1/2	22,673	1/2	10,224	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,060	3/4	34,734	3/4	22,414	3/4	9,965	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	46,801	7	34,481	7	22,155	7	9,706	7		7		7		7		7		7	
1/4	46,542	1/4	34,228	1/4	21,895	1/4	9,446	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,282	1/2	33,975	1/2	21,636	1/2	9,187	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,023	3/4	33,721	3/4	21,377	3/4	8,928	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	45,764	8	33,468	8	21,117	8	8,668	8		8		8		8		8		8	
1/4	45,504	1/4	33,215	1/4	20,858	1/4	8,409	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,245	1/2	32,962	1/2	20,599	1/2	8,150	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,985	3/4	32,709	3/4	20,339	3/4	7,890	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	44,726	9	32,456	9	20,080	9	7,631	9		9		9		9		9		9	
1/4	44,467	1/4	32,203	1/4	19,821	1/4	7,372	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,207	1/2	31,950	1/2	19,561	1/2	7,112	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,948	3/4	31,697	3/4	19,302	3/4	6,853	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	43,689	10	31,444	10	19,042	10	6,594	10		10		10		10		10		10	
1/4	43,429	1/4	31,191	1/4	18,783	1/4	6,335	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,170	1/2	30,938	1/2	18,524	1/2	6,076	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,911	3/4	30,685	3/4	18,264	3/4	5,817	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	42,651	11	30,432	11	18,005	11	5,558	11		11		11		11		11		11	
1/4	42,392	1/4	30,179	1/4	17,746	1/4	5,300	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	42,132	1/2	29,926	1/2	17,486	1/2	5,041	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	41,873	3/4	29,669	3/4	17,227	3/4	4,783	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "IB 1948"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "IB 1948"

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	54,407	0	42,051	0	29,712	0	17,356	0	5,004	0		0		0		0		0	
1/4	54,150	1/4	41,793	1/4	29,454	1/4	17,099	1/4	4,748	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,892	1/2	41,536	1/2	29,197	1/2	16,842	1/2	4,492	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,635	3/4	41,279	3/4	28,940	3/4	16,584	3/4	4,236	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	53,378	1	41,021	1	28,683	1	16,327	1	3,979	1		1		1		1		1	
1/4	53,120	1/4	40,764	1/4	28,425	1/4	16,069	1/4	3,725	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,863	1/2	40,506	1/2	28,168	1/2	15,812	1/2	3,470	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,605	3/4	40,249	3/4	27,910	3/4	15,555	3/4	3,215	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	52,348	2	39,992	2	27,653	2	15,297	2	2,960	2		2		2		2		2	
1/4	52,090	1/4	39,734	1/4	27,396	1/4	15,040	1/4	2,707	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,833	1/2	39,477	1/2	27,138	1/2	14,782	1/2	2,454	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,576	3/4	39,220	3/4	26,881	3/4	14,525	3/4	2,201	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	51,318	3	38,963	3	26,623	3	14,267	3	1,948	3		3		3		3		3	
1/4	51,061	1/4	38,706	1/4	26,366	1/4	14,010	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	50,803	1/2	38,449	1/2	26,108	1/2	13,753	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	50,546	3/4	38,192	3/4	25,851	3/4	13,495	3/4	1,263	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	50,288	4	37,935	4	25,594	4	13,238	4	1,034	4		4		4		4		4	
1/4	50,031	1/4	37,678	1/4	25,336	1/4	12,980	1/4	874	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,774	1/2	37,421	1/2	25,079	1/2	12,723	1/2	713	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,516	3/4	37,164	3/4	24,821	3/4	12,466	3/4	552	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	49,259	5	36,907	5	24,564	5	12,208	5	391	5		5		5		5		5	
1/4	49,001	1/4	36,650	1/4	24,307	1/4	11,951	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	48,744	1/2	36,393	1/2	24,049	1/2	11,693	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	48,486	3/4	36,136	3/4	23,792	3/4	11,436	3/4	166	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	48,229	6	35,879	6	23,534	6	11,178	6	91	6		6		6		6		6	
1/4	47,972	1/4	35,622	1/4	23,277	1/4	10,921	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,714	1/2	35,365	1/2	23,020	1/2	10,664	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,457	3/4	35,108	3/4	22,762	3/4	10,406	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	47,199	7	34,851	7	22,505	7	10,149	7		7		7		7		7		7	
1/4	46,942	1/4	34,594	1/4	22,247	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	46,685	1/2	34,337	1/2	21,990	1/2	9,634	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,427	3/4	34,080	3/4	21,732	3/4	9,377	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	46,170	8	33,823	8	21,475	8	9,119	8		8		8		8		8		8	
1/4	45,912	1/4	33,566	1/4	21,218	1/4	8,862	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	45,655	1/2	33,309	1/2	20,960	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	45,397	3/4	33,052	3/4	20,703	3/4	8,347	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	45,140	9	32,795	9	20,445	9	8,090	9		9		9		9		9		9	
1/4	44,883	1/4	32,538	1/4	20,188	1/4	7,832	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	44,625	1/2	32,281	1/2	19,931	1/2	7,575	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	44,368	3/4	32,024	3/4	19,673	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	44,110	10	31,767	10	19,416	10	7,060	10		10		10		10		10		10	
1/4	43,853	1/4	31,510	1/4	19,158	1/4	6,803	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43,595	1/2	31,253	1/2	18,901	1/2	6,546	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	43,338	3/4	30,996	3/4	18,643	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	43,081	11	30,739	11	18,386	11	6,031	11		11		11		11		11		11	
1/4	42,823	1/4	30,483	1/4	18,129	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	42,566	1/2	30,226	1/2	17,871	1/2	5,518	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42,308	3/4	29,969	3/4	17,614	3/4	5,261	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: 10/24/2013 CL
PRINTED: 10/24/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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