



# BARGE "IB 1965"

## 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	00-1/8	- 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
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 CENTER IS - 00-1/8"  
 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'-09"

February 27, 2016

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

<http://www.pmacorp.net>



# BARGE "IB 1965"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	152,882	0	146,665	0	138,889	0	131,113	0	121,921	0	109,907	0	97,903	0	85,901	0	73,897
1/4	1/4	1/4	152,809	1/4	146,503	1/4	138,727	1/4	130,951	1/4	121,670	1/4	109,657	1/4	97,653	1/4	85,650	1/4	73,647
1/2	1/2	1/2	152,746	1/2	146,341	1/2	138,565	1/2	130,789	1/2	121,419	1/2	109,407	1/2	97,403	1/2	85,400	1/2	73,397
3/4	3/4	3/4	152,683	3/4	146,179	3/4	138,403	3/4	130,627	3/4	121,169	3/4	109,157	3/4	97,153	3/4	85,150	3/4	73,147
1	1	1	152,871	1	146,017	1	138,241	1	130,465	1	120,918	1	108,907	1	96,903	1	84,900	1	72,897
1/4	1/4	1/4	152,809	1/4	145,855	1/4	138,079	1/4	130,303	1/4	120,668	1/4	108,657	1/4	96,653	1/4	84,650	1/4	72,647
1/2	1/2	1/2	152,746	1/2	145,693	1/2	137,917	1/2	130,141	1/2	120,417	1/2	108,406	1/2	96,403	1/2	84,400	1/2	72,396
3/4	3/4	3/4	152,683	3/4	145,531	3/4	137,755	3/4	129,979	3/4	120,166	3/4	108,156	3/4	96,153	3/4	84,150	3/4	72,146
2	2	2	152,621	2	145,369	2	137,593	2	129,817	2	119,916	2	107,906	2	95,903	2	83,900	2	71,896
1/4	1/4	1/4	152,563	1/4	145,207	1/4	137,431	1/4	129,655	1/4	119,665	1/4	107,656	1/4	95,653	1/4	83,650	1/4	71,646
1/2	1/2	1/2	152,506	1/2	145,045	1/2	137,269	1/2	129,494	1/2	119,415	1/2	107,406	1/2	95,403	1/2	83,400	1/2	71,396
3/4	3/4	3/4	152,448	3/4	144,883	3/4	137,107	3/4	129,332	3/4	119,164	3/4	107,156	3/4	95,153	3/4	83,150	3/4	71,146
3	3	3	152,390	3	144,721	3	136,945	3	129,170	3	118,914	3	106,906	3	94,903	3	82,900	3	70,896
1/4	1/4	1/4	152,253	1/4	144,559	1/4	136,783	1/4	129,008	1/4	118,663	1/4	106,656	1/4	94,653	1/4	82,650	1/4	70,646
1/2	1/2	1/2	152,115	1/2	144,397	1/2	136,621	1/2	128,846	1/2	118,412	1/2	106,406	1/2	94,403	1/2	82,400	1/2	70,396
3/4	3/4	3/4	151,978	3/4	144,235	3/4	136,459	3/4	128,684	3/4	118,162	3/4	106,156	3/4	94,153	3/4	82,149	3/4	70,146
4	4	4	151,840	4	144,073	4	136,297	4	128,522	4	117,911	4	105,906	4	93,903	4	81,899	4	69,896
1/4	1/4	1/4	151,680	1/4	143,911	1/4	136,135	1/4	128,360	1/4	117,661	1/4	105,656	1/4	93,653	1/4	81,649	1/4	69,646
1/2	1/2	1/2	151,519	1/2	143,749	1/2	135,973	1/2	128,198	1/2	117,410	1/2	105,406	1/2	93,403	1/2	81,399	1/2	69,396
3/4	3/4	3/4	151,359	3/4	143,587	3/4	135,811	3/4	128,036	3/4	117,160	3/4	105,156	3/4	93,153	3/4	81,149	3/4	69,146
5	5	5	151,198	5	143,425	5	135,649	5	127,874	5	116,909	5	104,905	5	92,902	5	80,899	5	68,895
1/4	1/4	1/4	151,037	1/4	143,263	1/4	135,487	1/4	127,712	1/4	116,659	1/4	104,655	1/4	92,652	1/4	80,649	1/4	68,645
1/2	1/2	1/2	150,875	1/2	143,101	1/2	135,325	1/2	127,550	1/2	116,409	1/2	104,405	1/2	92,402	1/2	80,399	1/2	68,395
3/4	3/4	3/4	150,714	3/4	142,939	3/4	135,163	3/4	127,388	3/4	116,159	3/4	104,155	3/4	92,152	3/4	80,149	3/4	68,145
6	6	6	150,552	6	142,777	6	135,001	6	127,226	6	115,909	6	103,905	6	91,902	6	79,899	6	67,895
1/4	1/4	1/4	150,390	1/4	142,615	1/4	134,839	1/4	127,064	1/4	115,659	1/4	103,655	1/4	91,652	1/4	79,649	1/4	67,646
1/2	1/2	1/2	150,228	1/2	142,453	1/2	134,677	1/2	126,902	1/2	115,409	1/2	103,405	1/2	91,402	1/2	79,399	1/2	67,396
3/4	3/4	3/4	150,066	3/4	142,291	3/4	134,515	3/4	126,740	3/4	115,159	3/4	103,155	3/4	91,152	3/4	79,149	3/4	67,147
7	7	7	149,904	7	142,129	7	134,353	7	126,578	7	114,908	7	102,905	7	90,902	7	78,898	7	66,897
1/4	1/4	1/4	149,742	1/4	141,967	1/4	134,191	1/4	126,416	1/4	114,658	1/4	102,655	1/4	90,652	1/4	78,648	1/4	66,648
1/2	1/2	1/2	149,580	1/2	141,805	1/2	134,029	1/2	126,254	1/2	114,408	1/2	102,405	1/2	90,402	1/2	78,398	1/2	66,398
3/4	3/4	3/4	149,418	3/4	141,643	3/4	133,867	3/4	126,092	3/4	114,158	3/4	102,155	3/4	90,152	3/4	78,148	3/4	66,149
8	8	8	149,256	8	141,481	8	133,705	8	125,930	8	113,908	8	101,905	8	89,902	8	77,898	8	65,899
1/4	1/4	1/4	149,094	1/4	141,319	1/4	133,543	1/4	125,769	1/4	113,658	1/4	101,654	1/4	89,652	1/4	77,648	1/4	65,650
1/2	1/2	1/2	148,932	1/2	141,157	1/2	133,381	1/2	125,607	1/2	113,408	1/2	101,404	1/2	89,402	1/2	77,398	1/2	65,402
3/4	3/4	3/4	148,770	3/4	140,995	3/4	133,219	3/4	125,445	3/4	113,158	3/4	101,154	3/4	89,152	3/4	77,148	3/4	65,151
9	9	9	148,608	9	140,833	9	133,057	9	124,927	9	112,908	9	100,904	9	88,901	9	76,898	9	64,901
1/4	1/4	1/4	148,446	1/4	140,671	1/4	132,895	1/4	124,765	1/4	112,658	1/4	100,654	1/4	88,651	1/4	76,648	1/4	64,652
1/2	1/2	1/2	148,284	1/2	140,509	1/2	132,733	1/2	124,603	1/2	112,408	1/2	100,404	1/2	88,401	1/2	76,398	1/2	64,402
3/4	3/4	3/4	148,122	3/4	140,347	3/4	132,571	3/4	124,441	3/4	112,158	3/4	100,154	3/4	88,151	3/4	76,148	3/4	64,153
10	10	10	147,960	10	140,185	10	132,409	10	123,925	10	111,908	10	99,904	10	87,901	10	75,898	10	63,904
1/4	1/4	1/4	147,798	1/4	140,023	1/4	132,247	1/4	123,763	1/4	111,657	1/4	99,654	1/4	87,651	1/4	75,647	1/4	63,654
1/2	1/2	1/2	147,637	1/2	139,861	1/2	132,085	1/2	123,601	1/2	111,407	1/2	99,404	1/2	87,401	1/2	75,397	1/2	63,405
3/4	3/4	3/4	147,475	3/4	139,699	3/4	131,923	3/4	123,439	3/4	111,157	3/4	99,154	3/4	87,151	3/4	75,147	3/4	63,155
11	11	11	147,313	11	139,537	11	131,761	11	122,923	11	110,907	11	98,904	11	86,901	11	74,897	11	62,906
1/4	1/4	1/4	147,151	1/4	139,375	1/4	131,599	1/4	122,761	1/4	110,657	1/4	98,654	1/4	86,651	1/4	74,647	1/4	62,656
1/2	1/2	1/2	146,989	1/2	139,213	1/2	131,437	1/2	122,600	1/2	110,407	1/2	98,404	1/2	86,401	1/2	74,397	1/2	62,407
3/4	3/4	3/4	146,827	3/4	139,051	3/4	131,275	3/4	122,438	3/4	110,157	3/4	98,153	3/4	86,151	3/4	74,147	3/4	62,157

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 32'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "IB 1965"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04"

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	61,908	0	49,918	0	37,920	0	26,183	0	14,179	0	2,168	0		0		0		0	
1/4	61,658	1/4	49,668	1/4	37,677	1/4	25,933	1/4	13,929	1/4	1,931	1/4		1/4		1/4		1/4	
1/2	61,409	1/2	49,418	1/2	37,434	1/2	25,683	1/2	13,679	1/2	1,693	1/2		1/2		1/2		1/2	
3/4	61,159	3/4	49,168	3/4	37,190	3/4	25,433	3/4	13,429	3/4	1,456	3/4		3/4		3/4		3/4	
1	60,910	1	48,918	1	36,947	1	25,183	1	13,179	1	1,219	1		1		1		1	
1/4	60,660	1/4	48,668	1/4	36,703	1/4	24,933	1/4	12,929	1/4	1,054	1/4		1/4		1/4		1/4	
1/2	60,411	1/2	48,418	1/2	36,460	1/2	24,683	1/2	12,679	1/2	890	1/2		1/2		1/2		1/2	
3/4	60,161	3/4	48,168	3/4	36,216	3/4	24,433	3/4	12,428	3/4	726	3/4		3/4		3/4		3/4	
2	59,912	2	47,918	2	35,973	2	24,182	2	12,178	2	561	2		2		2		2	
1/4	59,662	1/4	47,668	1/4	35,729	1/4	23,932	1/4	11,928	1/4	469	1/4		1/4		1/4		1/4	
1/2	59,413	1/2	47,418	1/2	35,486	1/2	23,682	1/2	11,678	1/2	377	1/2		1/2		1/2		1/2	
3/4	59,164	3/4	47,168	3/4	35,243	3/4	23,432	3/4	11,428	3/4	285	3/4		3/4		3/4		3/4	
3	58,914	3	46,918	3	34,999	3	23,182	3	11,178	3	193	3		3		3		3	
1/4	58,665	1/4	46,669	1/4	34,756	1/4	22,932	1/4	10,928	1/4	152	1/4		1/4		1/4		1/4	
1/2	58,415	1/2	46,419	1/2	34,512	1/2	22,682	1/2	10,678	1/2	110	1/2		1/2		1/2		1/2	
3/4	58,166	3/4	46,169	3/4	34,269	3/4	22,432	3/4	10,428	3/4	68	3/4		3/4		3/4		3/4	
4	57,916	4	45,919	4	34,026	4	22,182	4	10,178	4	26	4		4		4		4	
1/4	57,666	1/4	45,669	1/4	33,782	1/4	21,932	1/4	9,928	1/4		1/4		1/4		1/4		1/4	
1/2	57,416	1/2	45,419	1/2	33,539	1/2	21,682	1/2	9,677	1/2		1/2		1/2		1/2		1/2	
3/4	57,166	3/4	45,169	3/4	33,295	3/4	21,432	3/4	9,427	3/4		3/4		3/4		3/4		3/4	
5	56,916	5	44,919	5	33,052	5	21,181	5	9,177	5		5		5		5		5	
1/4	56,666	1/4	44,669	1/4	32,809	1/4	20,931	1/4	8,927	1/4		1/4		1/4		1/4		1/4	
1/2	56,416	1/2	44,419	1/2	32,565	1/2	20,681	1/2	8,677	1/2		1/2		1/2		1/2		1/2	
3/4	56,167	3/4	44,169	3/4	32,322	3/4	20,431	3/4	8,426	3/4		3/4		3/4		3/4		3/4	
6	55,917	6	43,919	6	32,078	6	20,181	6	8,176	6		6		6		6		6	
1/4	55,667	1/4	43,669	1/4	31,835	1/4	19,931	1/4	7,925	1/4		1/4		1/4		1/4		1/4	
1/2	55,417	1/2	43,419	1/2	31,592	1/2	19,681	1/2	7,675	1/2		1/2		1/2		1/2		1/2	
3/4	55,167	3/4	43,169	3/4	31,348	3/4	19,431	3/4	7,425	3/4		3/4		3/4		3/4		3/4	
7	54,917	7	42,919	7	31,105	7	19,181	7	7,174	7		7		7		7		7	
1/4	54,667	1/4	42,669	1/4	30,861	1/4	18,931	1/4	6,924	1/4		1/4		1/4		1/4		1/4	
1/2	54,417	1/2	42,419	1/2	30,618	1/2	18,681	1/2	6,674	1/2		1/2		1/2		1/2		1/2	
3/4	54,167	3/4	42,170	3/4	30,374	3/4	18,431	3/4	6,424	3/4		3/4		3/4		3/4		3/4	
8	53,917	8	41,920	8	30,131	8	18,180	8	6,174	8		8		8		8		8	
1/4	53,667	1/4	41,670	1/4	29,888	1/4	17,930	1/4	5,923	1/4		1/4		1/4		1/4		1/4	
1/2	53,417	1/2	41,420	1/2	29,644	1/2	17,680	1/2	5,673	1/2		1/2		1/2		1/2		1/2	
3/4	53,167	3/4	41,170	3/4	29,401	3/4	17,430	3/4	5,423	3/4		3/4		3/4		3/4		3/4	
9	52,917	9	40,920	9	29,157	9	17,180	9	5,172	9		9		9		9		9	
1/4	52,667	1/4	40,670	1/4	28,914	1/4	16,930	1/4	4,922	1/4		1/4		1/4		1/4		1/4	
1/2	52,417	1/2	40,420	1/2	28,671	1/2	16,680	1/2	4,671	1/2		1/2		1/2		1/2		1/2	
3/4	52,167	3/4	40,170	3/4	28,427	3/4	16,430	3/4	4,420	3/4		3/4		3/4		3/4		3/4	
10	51,917	10	39,920	10	28,184	10	16,180	10	4,170	10		10		10		10		10	
1/4	51,667	1/4	39,670	1/4	27,934	1/4	15,930	1/4	3,919	1/4		1/4		1/4		1/4		1/4	
1/2	51,418	1/2	39,420	1/2	27,684	1/2	15,680	1/2	3,669	1/2		1/2		1/2		1/2		1/2	
3/4	51,168	3/4	39,170	3/4	27,434	3/4	15,429	3/4	3,418	3/4		3/4		3/4		3/4		3/4	
11	50,918	11	38,920	11	27,183	11	15,179	11	3,168	11		11		11		11		11	
1/4	50,668	1/4	38,670	1/4	26,933	1/4	14,929	1/4	2,918	1/4		1/4		1/4		1/4		1/4	
1/2	50,418	1/2	38,420	1/2	26,683	1/2	14,679	1/2	2,668	1/2		1/2		1/2		1/2		1/2	
3/4	50,168	3/4	38,170	3/4	26,433	3/4	14,429	3/4	2,418	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 02/26/2016 CL  
CALCULATED: 02/27/2016 CL  
PRINTED: 02/27/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1965"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	152,092	0	140,557	0	129,022	0	117,487	0	105,951	0	94,416	0	82,881	0	71,346
1/4		1/4		1/4	151,852	1/4	140,317	1/4	128,782	1/4	117,246	1/4	105,711	1/4	94,176	1/4	82,641	1/4	71,106
1/2		1/2		1/2	151,612	1/2	140,076	1/2	128,541	1/2	117,006	1/2	105,471	1/2	93,936	1/2	82,400	1/2	70,865
3/4		3/4	161,453	3/4	151,371	3/4	139,836	3/4	128,301	3/4	116,766	3/4	105,231	3/4	93,695	3/4	82,160	3/4	70,625
1		1	161,443	1	151,131	1	139,596	1	128,061	1	116,525	1	104,990	1	93,455	1	81,920	1	70,385
1/4		1/4	161,383	1/4	150,891	1/4	139,356	1/4	127,820	1/4	116,285	1/4	104,750	1/4	93,215	1/4	81,679	1/4	70,144
1/2		1/2	161,323	1/2	150,650	1/2	139,115	1/2	127,580	1/2	116,045	1/2	104,510	1/2	92,974	1/2	81,439	1/2	69,904
3/4		3/4	161,263	3/4	150,410	3/4	138,875	3/4	127,340	3/4	115,804	3/4	104,269	3/4	92,734	3/4	81,199	3/4	69,664
2		2	161,203	2	150,170	2	138,635	2	127,099	2	115,564	2	104,029	2	92,494	2	80,959	2	69,423
1/4		1/4	161,063	1/4	149,929	1/4	138,394	1/4	126,859	1/4	115,324	1/4	103,789	1/4	92,253	1/4	80,718	1/4	69,183
1/2		1/2	160,923	1/2	149,689	1/2	138,154	1/2	126,619	1/2	115,084	1/2	103,548	1/2	92,013	1/2	80,478	1/2	68,943
3/4		3/4	160,782	3/4	149,449	3/4	137,914	3/4	126,378	3/4	114,843	3/4	103,308	3/4	91,773	3/4	80,238	3/4	68,702
3		3	160,642	3	149,209	3	137,673	3	126,138	3	114,603	3	103,068	3	91,532	3	79,997	3	68,462
1/4		1/4	160,425	1/4	148,968	1/4	137,433	1/4	125,898	1/4	114,363	1/4	102,827	1/4	91,292	1/4	79,757	1/4	68,222
1/2		1/2	160,208	1/2	148,728	1/2	137,193	1/2	125,657	1/2	114,122	1/2	102,587	1/2	91,052	1/2	79,517	1/2	67,981
3/4		3/4	159,991	3/4	148,488	3/4	136,952	3/4	125,417	3/4	113,882	3/4	102,347	3/4	90,812	3/4	79,276	3/4	67,741
4		4	159,775	4	148,247	4	136,712	4	125,177	4	113,642	4	102,106	4	90,571	4	79,036	4	67,501
1/4		1/4	159,536	1/4	148,007	1/4	136,472	1/4	124,937	1/4	113,401	1/4	101,866	1/4	90,331	1/4	78,796	1/4	67,260
1/2		1/2	159,297	1/2	147,767	1/2	136,231	1/2	124,696	1/2	113,161	1/2	101,626	1/2	90,091	1/2	78,555	1/2	67,020
3/4		3/4	159,058	3/4	147,526	3/4	135,991	3/4	124,456	3/4	112,921	3/4	101,385	3/4	89,850	3/4	78,315	3/4	66,780
5		5	158,819	5	147,286	5	135,751	5	124,216	5	112,680	5	101,145	5	89,610	5	78,075	5	66,539
1/4		1/4	158,580	1/4	147,046	1/4	135,510	1/4	123,975	1/4	112,440	1/4	100,905	1/4	89,370	1/4	77,834	1/4	66,299
1/2		1/2	158,340	1/2	146,805	1/2	135,270	1/2	123,735	1/2	112,200	1/2	100,665	1/2	89,129	1/2	77,594	1/2	66,059
3/4		3/4	158,100	3/4	146,565	3/4	135,030	3/4	123,495	3/4	111,959	3/4	100,424	3/4	88,889	3/4	77,354	3/4	65,819
6		6	157,860	6	146,325	6	134,790	6	123,254	6	111,719	6	100,184	6	88,649	6	77,113	6	65,578
1/4		1/4	157,620	1/4	146,084	1/4	134,549	1/4	123,014	1/4	111,479	1/4	99,944	1/4	88,408	1/4	76,873	1/4	65,338
1/2		1/2	157,379	1/2	145,844	1/2	134,309	1/2	122,774	1/2	111,238	1/2	99,703	1/2	88,168	1/2	76,633	1/2	65,098
3/4		3/4	157,139	3/4	145,604	3/4	134,069	3/4	122,533	3/4	110,998	3/4	99,463	3/4	87,928	3/4	76,392	3/4	64,857
7		7	156,899	7	145,363	7	133,828	7	122,293	7	110,758	7	99,223	7	87,687	7	76,152	7	64,617
1/4		1/4	156,658	1/4	145,123	1/4	133,588	1/4	122,053	1/4	110,518	1/4	98,982	1/4	87,447	1/4	75,912	1/4	64,377
1/2		1/2	156,418	1/2	144,883	1/2	133,348	1/2	121,812	1/2	110,277	1/2	98,742	1/2	87,207	1/2	75,672	1/2	64,136
3/4		3/4	156,178	3/4	144,643	3/4	133,107	3/4	121,572	3/4	110,037	3/4	98,502	3/4	86,966	3/4	75,431	3/4	63,896
8		8	155,937	8	144,402	8	132,867	8	121,332	8	109,797	8	98,261	8	86,726	8	75,191	8	63,656
1/4		1/4	155,697	1/4	144,162	1/4	132,627	1/4	121,091	1/4	109,556	1/4	98,021	1/4	86,486	1/4	74,951	1/4	63,415
1/2		1/2	155,457	1/2	143,922	1/2	132,386	1/2	120,851	1/2	109,316	1/2	97,781	1/2	86,245	1/2	74,710	1/2	63,175
3/4		3/4	155,216	3/4	143,681	3/4	132,146	3/4	120,611	3/4	109,076	3/4	97,540	3/4	86,005	3/4	74,470	3/4	62,935
9		9	154,976	9	143,441	9	131,906	9	120,371	9	108,835	9	97,300	9	85,765	9	74,230	9	62,694
1/4		1/4	154,736	1/4	143,201	1/4	131,665	1/4	120,130	1/4	108,595	1/4	97,060	1/4	85,525	1/4	73,989	1/4	62,454
1/2		1/2	154,496	1/2	142,960	1/2	131,425	1/2	119,890	1/2	108,355	1/2	96,819	1/2	85,284	1/2	73,749	1/2	62,214
3/4		3/4	154,255	3/4	142,720	3/4	131,185	3/4	119,650	3/4	108,114	3/4	96,579	3/4	85,044	3/4	73,509	3/4	61,973
10		10	154,015	10	142,480	10	130,944	10	119,409	10	107,874	10	96,339	10	84,804	10	73,268	10	61,733
1/4		1/4	153,775	1/4	142,239	1/4	130,704	1/4	119,169	1/4	107,634	1/4	96,098	1/4	84,563	1/4	73,028	1/4	61,493
1/2		1/2	153,534	1/2	141,999	1/2	130,464	1/2	118,929	1/2	107,393	1/2	95,858	1/2	84,323	1/2	72,788	1/2	61,253
3/4		3/4	153,294	3/4	141,759	3/4	130,223	3/4	118,688	3/4	107,153	3/4	95,618	3/4	84,083	3/4	72,547	3/4	61,012
11		11	153,054	11	141,518	11	129,983	11	118,448	11	106,913	11	95,378	11	83,842	11	72,307	11	60,772
1/4		1/4	152,813	1/4	141,278	1/4	129,743	1/4	118,208	1/4	106,672	1/4	95,137	1/4	83,602	1/4	72,067	1/4	60,532
1/2		1/2	152,573	1/2	141,038	1/2	129,503	1/2	117,967	1/2	106,432	1/2	94,897	1/2	83,362	1/2	71,826	1/2	60,291
3/4		3/4	152,333	3/4	140,797	3/4	129,262	3/4	117,727	3/4	106,192	3/4	94,657	3/4	83,121	3/4	71,586	3/4	60,051

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'-06" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1965"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04"

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	59,811	0	48,275	0	36,740	0	25,487	0	13,952	0	2,421	0		0		0		0	
1/4	59,570	1/4	48,035	1/4	36,507	1/4	25,247	1/4	13,712	1/4	2,182	1/4		1/4		1/4		1/4	
1/2	59,330	1/2	47,795	1/2	36,274	1/2	25,007	1/2	13,472	1/2	1,944	1/2		1/2		1/2		1/2	
3/4	59,090	3/4	47,554	3/4	36,040	3/4	24,766	3/4	13,232	3/4	1,706	3/4		3/4		3/4		3/4	
1	58,849	1	47,314	1	35,807	1	24,526	1	12,991	1	1,468	1		1		1		1	
1/4	58,609	1/4	47,074	1/4	35,574	1/4	24,286	1/4	12,751	1/4	1,268	1/4		1/4		1/4		1/4	
1/2	58,369	1/2	46,833	1/2	35,340	1/2	24,045	1/2	12,511	1/2	1,067	1/2		1/2		1/2		1/2	
3/4	58,128	3/4	46,593	3/4	35,107	3/4	23,805	3/4	12,270	3/4	867	3/4		3/4		3/4		3/4	
2	57,888	2	46,353	2	34,874	2	23,565	2	12,030	2	667	2		2		2		2	
1/4	57,648	1/4	46,113	1/4	34,640	1/4	23,325	1/4	11,790	1/4	547	1/4		1/4		1/4		1/4	
1/2	57,407	1/2	45,872	1/2	34,407	1/2	23,084	1/2	11,549	1/2	427	1/2		1/2		1/2		1/2	
3/4	57,167	3/4	45,632	3/4	34,174	3/4	22,844	3/4	11,309	3/4	307	3/4		3/4		3/4		3/4	
3	56,927	3	45,392	3	33,941	3	22,604	3	11,069	3	186	3		3		3		3	
1/4	56,686	1/4	45,151	1/4	33,707	1/4	22,363	1/4	10,828	1/4	146	1/4		1/4		1/4		1/4	
1/2	56,446	1/2	44,911	1/2	33,474	1/2	22,123	1/2	10,588	1/2	106	1/2		1/2		1/2		1/2	
3/4	56,206	3/4	44,671	3/4	33,241	3/4	21,883	3/4	10,348	3/4	66	3/4		3/4		3/4		3/4	
4	55,966	4	44,430	4	33,008	4	21,642	4	10,108	4	26	4		4		4		4	
1/4	55,725	1/4	44,190	1/4	32,774	1/4	21,402	1/4	9,867	1/4		1/4		1/4		1/4		1/4	
1/2	55,485	1/2	43,950	1/2	32,541	1/2	21,162	1/2	9,627	1/2		1/2		1/2		1/2		1/2	
3/4	55,245	3/4	43,709	3/4	32,308	3/4	20,921	3/4	9,387	3/4		3/4		3/4		3/4		3/4	
5	55,004	5	43,469	5	32,075	5	20,681	5	9,146	5		5		5		5		5	
1/4	54,764	1/4	43,229	1/4	31,841	1/4	20,441	1/4	8,906	1/4		1/4		1/4		1/4		1/4	
1/2	54,524	1/2	42,988	1/2	31,608	1/2	20,200	1/2	8,666	1/2		1/2		1/2		1/2		1/2	
3/4	54,283	3/4	42,748	3/4	31,375	3/4	19,960	3/4	8,425	3/4		3/4		3/4		3/4		3/4	
6	54,043	6	42,508	6	31,142	6	19,720	6	8,185	6		6		6		6		6	
1/4	53,803	1/4	42,267	1/4	30,908	1/4	19,480	1/4	7,945	1/4		1/4		1/4		1/4		1/4	
1/2	53,562	1/2	42,027	1/2	30,675	1/2	19,239	1/2	7,705	1/2		1/2		1/2		1/2		1/2	
3/4	53,322	3/4	41,787	3/4	30,442	3/4	18,999	3/4	7,464	3/4		3/4		3/4		3/4		3/4	
7	53,082	7	41,547	7	30,209	7	18,759	7	7,224	7		7		7		7		7	
1/4	52,841	1/4	41,306	1/4	29,975	1/4	18,518	1/4	6,984	1/4		1/4		1/4		1/4		1/4	
1/2	52,601	1/2	41,066	1/2	29,742	1/2	18,278	1/2	6,743	1/2		1/2		1/2		1/2		1/2	
3/4	52,361	3/4	40,826	3/4	29,509	3/4	18,038	3/4	6,503	3/4		3/4		3/4		3/4		3/4	
8	52,120	8	40,585	8	29,276	8	17,797	8	6,263	8		8		8		8		8	
1/4	51,880	1/4	40,345	1/4	29,042	1/4	17,557	1/4	6,022	1/4		1/4		1/4		1/4		1/4	
1/2	51,640	1/2	40,105	1/2	28,809	1/2	17,317	1/2	5,782	1/2		1/2		1/2		1/2		1/2	
3/4	51,400	3/4	39,864	3/4	28,576	3/4	17,076	3/4	5,542	3/4		3/4		3/4		3/4		3/4	
9	51,159	9	39,624	9	28,343	9	16,836	9	5,302	9		9		9		9		9	
1/4	50,919	1/4	39,384	1/4	28,109	1/4	16,596	1/4	5,061	1/4		1/4		1/4		1/4		1/4	
1/2	50,679	1/2	39,143	1/2	27,876	1/2	16,356	1/2	4,821	1/2		1/2		1/2		1/2		1/2	
3/4	50,438	3/4	38,903	3/4	27,643	3/4	16,115	3/4	4,581	3/4		3/4		3/4		3/4		3/4	
10	50,198	10	38,663	10	27,410	10	15,875	10	4,340	10		10		10		10		10	
1/4	49,958	1/4	38,422	1/4	27,169	1/4	15,635	1/4	4,100	1/4		1/4		1/4		1/4		1/4	
1/2	49,717	1/2	38,182	1/2	26,929	1/2	15,394	1/2	3,860	1/2		1/2		1/2		1/2		1/2	
3/4	49,477	3/4	37,942	3/4	26,689	3/4	15,154	3/4	3,620	3/4		3/4		3/4		3/4		3/4	
11	49,237	11	37,701	11	26,449	11	14,914	11	3,379	11		11		11		11		11	
1/4	48,996	1/4	37,461	1/4	26,208	1/4	14,673	1/4	3,140	1/4		1/4		1/4		1/4		1/4	
1/2	48,756	1/2	37,221	1/2	25,968	1/2	14,433	1/2	2,900	1/2		1/2		1/2		1/2		1/2	
3/4	48,516	3/4	36,981	3/4	25,728	3/4	14,193	3/4	2,660	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 02/26/2016 CL  
CALCULATED: 02/27/2016 CL  
PRINTED: 02/27/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1965"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0	160,456	0	150,453	0	139,008	0	127,563	0	116,117	0	104,672	0	93,227	0	81,782	0	70,337
1/4		1/4	160,446	1/4	150,215	1/4	138,769	1/4	127,324	1/4	115,879	1/4	104,434	1/4	92,989	1/4	81,543	1/4	70,098
1/2		1/2	160,387	1/2	149,976	1/2	138,531	1/2	127,086	1/2	115,641	1/2	104,195	1/2	92,750	1/2	81,305	1/2	69,860
3/4		3/4	160,327	3/4	149,738	3/4	138,293	3/4	126,847	3/4	115,402	3/4	103,957	3/4	92,512	3/4	81,066	3/4	69,621
1		1	160,268	1	149,499	1	138,054	1	126,609	1	115,164	1	103,718	1	92,273	1	80,828	1	69,383
1/4		1/4	160,208	1/4	149,261	1/4	137,816	1/4	126,370	1/4	114,925	1/4	103,480	1/4	92,035	1/4	80,590	1/4	69,144
1/2		1/2	160,069	1/2	149,022	1/2	137,577	1/2	126,132	1/2	114,687	1/2	103,242	1/2	91,796	1/2	80,351	1/2	68,906
3/4		3/4	159,930	3/4	148,784	3/4	137,339	3/4	125,894	3/4	114,448	3/4	103,003	3/4	91,558	3/4	80,113	3/4	68,667
2		2	159,791	2	148,546	2	137,100	2	125,655	2	114,210	2	102,765	2	91,319	2	79,874	2	68,429
1/4		1/4	159,652	1/4	148,307	1/4	136,862	1/4	125,417	1/4	113,971	1/4	102,526	1/4	91,081	1/4	79,636	1/4	68,191
1/2		1/2	159,436	1/2	148,069	1/2	136,623	1/2	125,178	1/2	113,733	1/2	102,288	1/2	90,843	1/2	79,397	1/2	67,952
3/4		3/4	159,221	3/4	147,830	3/4	136,385	3/4	124,940	3/4	113,495	3/4	102,049	3/4	90,604	3/4	79,159	3/4	67,714
3		3	159,006	3	147,592	3	136,147	3	124,701	3	113,256	3	101,811	3	90,366	3	78,920	3	67,475
1/4		1/4	158,791	1/4	147,353	1/4	135,908	1/4	124,463	1/4	113,018	1/4	101,572	1/4	90,127	1/4	78,682	1/4	67,237
1/2		1/2	158,554	1/2	147,115	1/2	135,670	1/2	124,224	1/2	112,779	1/2	101,334	1/2	89,889	1/2	78,444	1/2	66,998
3/4		3/4	158,317	3/4	146,876	3/4	135,431	3/4	123,986	3/4	112,541	3/4	101,096	3/4	89,650	3/4	78,205	3/4	66,760
4		4	158,080	4	146,638	4	135,193	4	123,748	4	112,302	4	100,857	4	89,412	4	77,967	4	66,521
1/4		1/4	157,843	1/4	146,400	1/4	134,954	1/4	123,509	1/4	112,064	1/4	100,619	1/4	89,173	1/4	77,728	1/4	66,283
1/2		1/2	157,605	1/2	146,161	1/2	134,716	1/2	123,271	1/2	111,825	1/2	100,380	1/2	88,935	1/2	77,490	1/2	66,045
3/4		3/4	157,367	3/4	145,923	3/4	134,477	3/4	123,032	3/4	111,587	3/4	100,142	3/4	88,697	3/4	77,251	3/4	65,806
5		5	157,129	5	145,684	5	134,239	5	122,794	5	111,349	5	99,903	5	88,458	5	77,013	5	65,568
1/4		1/4	156,891	1/4	145,446	1/4	134,001	1/4	122,555	1/4	111,110	1/4	99,665	1/4	88,220	1/4	76,774	1/4	65,329
1/2		1/2	156,653	1/2	145,207	1/2	133,762	1/2	122,317	1/2	110,872	1/2	99,426	1/2	87,981	1/2	76,536	1/2	65,091
3/4		3/4	156,414	3/4	144,969	3/4	133,524	3/4	122,078	3/4	110,633	3/4	99,188	3/4	87,743	3/4	76,298	3/4	64,852
6		6	156,176	6	144,731	6	133,285	6	121,840	6	110,395	6	98,950	6	87,504	6	76,059	6	64,614
1/4		1/4	155,937	1/4	144,492	1/4	133,047	1/4	121,602	1/4	110,156	1/4	98,711	1/4	87,266	1/4	75,821	1/4	64,375
1/2		1/2	155,699	1/2	144,254	1/2	132,808	1/2	121,363	1/2	109,918	1/2	98,473	1/2	87,027	1/2	75,582	1/2	64,137
3/4		3/4	155,460	3/4	144,015	3/4	132,570	3/4	121,125	3/4	109,679	3/4	98,234	3/4	86,789	3/4	75,344	3/4	63,899
7		7	155,222	7	143,777	7	132,332	7	120,886	7	109,441	7	97,996	7	86,551	7	75,105	7	63,660
1/4		1/4	154,984	1/4	143,538	1/4	132,093	1/4	120,648	1/4	109,203	1/4	97,757	1/4	86,312	1/4	74,867	1/4	63,422
1/2		1/2	154,745	1/2	143,300	1/2	131,855	1/2	120,409	1/2	108,964	1/2	97,519	1/2	86,074	1/2	74,628	1/2	63,183
3/4		3/4	154,507	3/4	143,061	3/4	131,616	3/4	120,171	3/4	108,726	3/4	97,280	3/4	85,835	3/4	74,390	3/4	62,945
8		8	154,268	8	142,823	8	131,378	8	119,933	8	108,487	8	97,042	8	85,597	8	74,152	8	62,706
1/4		1/4	154,030	1/4	142,585	1/4	131,139	1/4	119,694	1/4	108,249	1/4	96,804	1/4	85,358	1/4	73,913	1/4	62,468
1/2		1/2	153,791	1/2	142,346	1/2	130,901	1/2	119,456	1/2	108,010	1/2	96,565	1/2	85,120	1/2	73,675	1/2	62,229
3/4		3/4	153,553	3/4	142,108	3/4	130,662	3/4	119,217	3/4	107,772	3/4	96,327	3/4	84,881	3/4	73,436	3/4	61,991
9		9	153,314	9	141,869	9	130,424	9	118,979	9	107,534	9	96,088	9	84,643	9	73,198	9	61,753
1/4		1/4	153,076	1/4	141,631	1/4	130,186	1/4	118,740	1/4	107,295	1/4	95,850	1/4	84,405	1/4	72,959	1/4	61,514
1/2		1/2	152,838	1/2	141,392	1/2	129,947	1/2	118,502	1/2	107,057	1/2	95,611	1/2	84,166	1/2	72,721	1/2	61,276
3/4		3/4	152,599	3/4	141,154	3/4	129,709	3/4	118,263	3/4	106,818	3/4	95,373	3/4	83,928	3/4	72,482	3/4	61,037
10		10	152,361	10	140,915	10	129,470	10	118,025	10	106,580	10	95,135	10	83,689	10	72,244	10	60,799
1/4		1/4	152,122	1/4	140,677	1/4	129,232	1/4	117,787	1/4	106,341	1/4	94,896	1/4	83,451	1/4	72,006	1/4	60,560
1/2		1/2	151,884	1/2	140,439	1/2	128,993	1/2	117,548	1/2	106,103	1/2	94,658	1/2	83,212	1/2	71,767	1/2	60,322
3/4		3/4	151,645	3/4	140,200	3/4	128,755	3/4	117,310	3/4	105,864	3/4	94,419	3/4	82,974	3/4	71,529	3/4	60,083
11		11	151,407	11	139,962	11	128,516	11	117,071	11	105,626	11	94,181	11	82,736	11	71,290	11	59,845
1/4		1/4	151,168	1/4	139,723	1/4	128,278	1/4	116,833	1/4	105,388	1/4	93,942	1/4	82,497	1/4	71,052	1/4	59,607
1/2		1/2	150,930	1/2	139,485	1/2	128,040	1/2	116,594	1/2	105,149	1/2	93,704	1/2	82,259	1/2	70,813	1/2	59,368
3/4		3/4	150,692	3/4	139,246	3/4	127,801	3/4	116,356	3/4	104,911	3/4	93,465	3/4	82,020	3/4	70,575	3/4	59,130

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1965"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 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	58,891	0	47,446	0	36,002	0	24,573	0	13,129	0	1,693	0		0		0		0	
1/4	58,653	1/4	47,208	1/4	35,764	1/4	24,335	1/4	12,890	1/4	1,456	1/4		1/4		1/4		1/4	
1/2	58,414	1/2	46,969	1/2	35,526	1/2	24,097	1/2	12,652	1/2	1,258	1/2		1/2		1/2		1/2	
3/4	58,176	3/4	46,731	3/4	35,288	3/4	23,858	3/4	12,413	3/4	1,059	3/4		3/4		3/4		3/4	
1	57,938	1	46,492	1	35,050	1	23,620	1	12,175	1	861	1		1		1		1	
1/4	57,699	1/4	46,254	1/4	34,812	1/4	23,381	1/4	11,936	1/4	662	1/4		1/4		1/4		1/4	
1/2	57,461	1/2	46,015	1/2	34,574	1/2	23,143	1/2	11,698	1/2	543	1/2		1/2		1/2		1/2	
3/4	57,222	3/4	45,777	3/4	34,336	3/4	22,904	3/4	11,460	3/4	424	3/4		3/4		3/4		3/4	
2	56,984	2	45,539	2	34,098	2	22,666	2	11,221	2	304	2		2		2		2	
1/4	56,745	1/4	45,300	1/4	33,860	1/4	22,427	1/4	10,983	1/4	185	1/4		1/4		1/4		1/4	
1/2	56,507	1/2	45,062	1/2	33,622	1/2	22,189	1/2	10,744	1/2	146	1/2		1/2		1/2		1/2	
3/4	56,268	3/4	44,823	3/4	33,384	3/4	21,951	3/4	10,506	3/4	106	3/4		3/4		3/4		3/4	
3	56,030	3	44,585	3	33,146	3	21,712	3	10,267	3	66	3		3		3		3	
1/4	55,792	1/4	44,346	1/4	32,908	1/4	21,474	1/4	10,029	1/4	26	1/4		1/4		1/4		1/4	
1/2	55,553	1/2	44,108	1/2	32,670	1/2	21,235	1/2	9,791	1/2		1/2		1/2		1/2		1/2	
3/4	55,315	3/4	43,869	3/4	32,432	3/4	20,997	3/4	9,552	3/4		3/4		3/4		3/4		3/4	
4	55,076	4	43,631	4	32,194	4	20,758	4	9,314	4		4		4		4		4	
1/4	54,838	1/4	43,393	1/4	31,956	1/4	31,956	1/4	9,075	1/4		1/4		1/4		1/4		1/4	
1/2	54,599	1/2	43,154	1/2	31,718	1/2	20,282	1/2	8,837	1/2		1/2		1/2		1/2		1/2	
3/4	54,361	3/4	42,916	3/4	31,480	3/4	20,043	3/4	8,598	3/4		3/4		3/4		3/4		3/4	
5	54,122	5	42,677	5	31,242	5	19,805	5	8,360	5		5		5		5		5	
1/4	53,884	1/4	42,439	1/4	31,004	1/4	19,566	1/4	8,121	1/4		1/4		1/4		1/4		1/4	
1/2	53,646	1/2	42,200	1/2	30,766	1/2	19,328	1/2	7,883	1/2		1/2		1/2		1/2		1/2	
3/4	53,407	3/4	41,962	3/4	30,528	3/4	19,089	3/4	7,645	3/4		3/4		3/4		3/4		3/4	
6	53,169	6	41,723	6	30,290	6	18,851	6	7,406	6		6		6		6		6	
1/4	52,930	1/4	41,485	1/4	30,052	1/4	18,613	1/4	7,168	1/4		1/4		1/4		1/4		1/4	
1/2	52,692	1/2	41,247	1/2	29,814	1/2	18,374	1/2	6,929	1/2		1/2		1/2		1/2		1/2	
3/4	52,453	3/4	41,008	3/4	29,576	3/4	18,136	3/4	6,691	3/4		3/4		3/4		3/4		3/4	
7	52,215	7	40,770	7	29,338	7	17,897	7	6,453	7		7		7		7		7	
1/4	51,976	1/4	40,531	1/4	29,100	1/4	17,659	1/4	6,214	1/4		1/4		1/4		1/4		1/4	
1/2	51,738	1/2	40,293	1/2	28,862	1/2	17,420	1/2	5,976	1/2		1/2		1/2		1/2		1/2	
3/4	51,500	3/4	40,054	3/4	28,624	3/4	17,182	3/4	5,737	3/4		3/4		3/4		3/4		3/4	
8	51,261	8	39,816	8	28,386	8	16,944	8	5,499	8		8		8		8		8	
1/4	51,023	1/4	39,577	1/4	28,148	1/4	16,705	1/4	5,260	1/4		1/4		1/4		1/4		1/4	
1/2	50,784	1/2	39,339	1/2	27,910	1/2	16,467	1/2	5,022	1/2		1/2		1/2		1/2		1/2	
3/4	50,546	3/4	39,101	3/4	27,672	3/4	16,228	3/4	4,784	3/4		3/4		3/4		3/4		3/4	
9	50,307	9	38,862	9	27,434	9	15,990	9	4,545	9		9		9		9		9	
1/4	50,069	1/4	38,624	1/4	27,196	1/4	15,751	1/4	4,307	1/4		1/4		1/4		1/4		1/4	
1/2	49,830	1/2	38,385	1/2	26,958	1/2	15,513	1/2	4,068	1/2		1/2		1/2		1/2		1/2	
3/4	49,592	3/4	38,147	3/4	26,719	3/4	15,274	3/4	3,830	3/4		3/4		3/4		3/4		3/4	
10	49,354	10	37,908	10	26,481	10	15,036	10	3,592	10		10		10		10		10	
1/4	49,115	1/4	37,670	1/4	26,242	1/4	14,798	1/4	3,353	1/4		1/4		1/4		1/4		1/4	
1/2	48,877	1/2	37,431	1/2	26,004	1/2	14,559	1/2	3,115	1/2		1/2		1/2		1/2		1/2	
3/4	48,638	3/4	37,193	3/4	25,766	3/4	14,321	3/4	2,878	3/4		3/4		3/4		3/4		3/4	
11	48,400	11	36,955	11	25,527	11	14,082	11	2,640	11		11		11		11		11	
1/4	48,161	1/4	36,716	1/4	25,289	1/4	13,844	1/4	2,402	1/4		1/4		1/4		1/4		1/4	
1/2	47,923	1/2	36,478	1/2	25,050	1/2	13,605	1/2	2,166	1/2		1/2		1/2		1/2		1/2	
3/4	47,684	3/4	36,240	3/4	24,812	3/4	13,367	3/4	1,929	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 02/26/2016 CL  
CALCULATED: 02/27/2016 CL  
PRINTED: 02/27/2016 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2016

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