



# BARGE "IB 1081"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

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

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

LENGTH BETWEEN DRAFT MARKS: 163'-00"

July 30, 2015

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

<http://www.pmacorp.net>



# BARGE "IB 1081"

# 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03"

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	168,571	0	158,029	0	147,340	0	136,651	0	125,962	0	114,279	0	101,785	0	89,293	0	76,799
1/4	1/4	168,517	1/4	157,807	1/4	147,118	1/4	136,429	1/4	125,740	1/4	114,019	1/4	101,525	1/4	89,032	1/4	76,539	
1/2	1/2	168,464	1/2	157,584	1/2	146,895	1/2	136,206	1/2	125,517	1/2	113,758	1/2	101,265	1/2	88,772	1/2	76,278	
3/4	3/4	168,410	3/4	157,361	3/4	146,672	3/4	135,983	3/4	125,294	3/4	113,498	3/4	101,005	3/4	88,512	3/4	76,018	
1		1	168,356	1	157,139	1	146,450	1	135,761	1	125,071	1	113,238	1	100,744	1	88,251	1	75,758
1/4	1/4	168,226	1/4	156,916	1/4	146,227	1/4	135,538	1/4	124,849	1/4	112,978	1/4	100,484	1/4	87,991	1/4	75,497	
1/2	1/2	168,096	1/2	156,693	1/2	146,004	1/2	135,315	1/2	124,626	1/2	112,717	1/2	100,224	1/2	87,731	1/2	75,237	
3/4	3/4	167,965	3/4	156,471	3/4	145,781	3/4	135,092	3/4	124,403	3/4	112,457	3/4	99,964	3/4	87,471	3/4	74,977	
2		2	167,835	2	156,248	2	145,559	2	134,870	2	124,181	2	112,197	2	99,703	2	87,210	2	74,717
1/4	1/4	167,622	1/4	156,025	1/4	145,336	1/4	134,647	1/4	123,958	1/4	111,936	1/4	99,443	1/4	86,950	1/4	74,456	
1/2	1/2	167,409	1/2	155,802	1/2	145,113	1/2	134,424	1/2	123,735	1/2	111,676	1/2	99,183	1/2	86,690	1/2	74,196	
3/4	3/4	167,196	3/4	155,580	3/4	144,891	3/4	134,202	3/4	123,513	3/4	111,416	3/4	98,923	3/4	86,429	3/4	73,936	
3		3	166,984	3	155,357	3	144,668	3	133,979	3	123,290	3	111,156	3	98,662	3	86,169	3	73,675
1/4	1/4	166,731	1/4	155,134	1/4	144,445	1/4	133,756	1/4	123,067	1/4	110,895	1/4	98,402	1/4	85,909	1/4	73,415	
1/2	1/2	166,477	1/2	154,912	1/2	144,223	1/2	133,534	1/2	122,845	1/2	110,635	1/2	98,142	1/2	85,649	1/2	73,155	
3/4	3/4	166,224	3/4	154,689	3/4	144,000	3/4	133,311	3/4	122,622	3/4	110,375	3/4	97,882	3/4	85,388	3/4	72,895	
4		4	165,971	4	154,466	4	143,777	4	133,088	4	122,399	4	110,114	4	97,621	4	85,128	4	72,634
1/4	1/4	165,711	1/4	154,244	1/4	143,555	1/4	132,866	1/4	122,177	1/4	109,854	1/4	97,361	1/4	84,868	1/4	72,374	
1/2	1/2	165,451	1/2	154,021	1/2	143,332	1/2	132,643	1/2	121,955	1/2	109,594	1/2	97,101	1/2	84,607	1/2	72,114	
3/4	3/4	165,191	3/4	153,798	3/4	143,109	3/4	132,420	3/4	121,732	3/4	109,334	3/4	96,841	3/4	84,347	3/4	71,853	
5		5	164,931	5	153,576	5	142,887	5	132,198	5	121,510	5	109,073	5	96,580	5	84,087	5	71,593
1/4	1/4	164,670	1/4	153,353	1/4	142,664	1/4	131,975	1/4	121,264	1/4	108,813	1/4	96,320	1/4	83,827	1/4	71,333	
1/2	1/2	164,410	1/2	153,130	1/2	142,441	1/2	131,752	1/2	121,018	1/2	108,553	1/2	96,060	1/2	83,566	1/2	71,073	
3/4	3/4	164,149	3/4	152,907	3/4	142,218	3/4	131,529	3/4	120,772	3/4	108,292	3/4	95,800	3/4	83,306	3/4	70,813	
6		6	163,888	6	152,685	6	141,996	6	131,307	6	120,526	6	108,032	6	95,539	6	83,046	6	70,554
1/4	1/4	163,627	1/4	152,462	1/4	141,773	1/4	131,084	1/4	120,265	1/4	107,772	1/4	95,279	1/4	82,785	1/4	70,294	
1/2	1/2	163,367	1/2	152,239	1/2	141,550	1/2	130,861	1/2	120,005	1/2	107,512	1/2	95,019	1/2	82,525	1/2	70,034	
3/4	3/4	163,106	3/4	152,017	3/4	141,328	3/4	130,639	3/4	119,745	3/4	107,251	3/4	94,758	3/4	82,265	3/4	69,774	
7		7	162,845	7	151,794	7	141,105	7	130,416	7	119,485	7	106,991	7	94,498	7	82,005	7	69,515
1/4	1/4	162,584	1/4	151,571	1/4	140,882	1/4	130,193	1/4	119,224	1/4	106,731	1/4	94,238	1/4	81,744	1/4	69,255	
1/2	1/2	162,323	1/2	151,349	1/2	140,660	1/2	129,971	1/2	118,964	1/2	106,470	1/2	93,978	1/2	81,484	1/2	68,995	
3/4	3/4	162,063	3/4	151,126	3/4	140,437	3/4	129,748	3/4	118,704	3/4	106,210	3/4	93,717	3/4	81,224	3/4	68,736	
8		8	161,802	8	150,903	8	140,214	8	129,525	8	118,444	8	105,950	8	93,457	8	80,963	8	68,476
1/4	1/4	161,541	1/4	150,681	1/4	139,992	1/4	129,303	1/4	118,183	1/4	105,690	1/4	93,197	1/4	80,703	1/4	68,216	
1/2	1/2	161,280	1/2	150,458	1/2	139,769	1/2	129,080	1/2	117,923	1/2	105,429	1/2	92,936	1/2	80,443	1/2	67,957	
3/4	3/4	161,020	3/4	150,235	3/4	139,546	3/4	128,857	3/4	117,663	3/4	105,169	3/4	92,676	3/4	80,183	3/4	67,697	
9		9	160,759	9	150,013	9	139,324	9	128,635	9	117,402	9	104,909	9	92,416	9	79,922	9	67,437
1/4	1/4	160,522	1/4	149,790	1/4	139,101	1/4	128,412	1/4	117,142	1/4	104,648	1/4	92,156	1/4	79,662	1/4	67,178	
1/2	1/2	160,285	1/2	149,567	1/2	138,878	1/2	128,189	1/2	116,882	1/2	104,388	1/2	91,895	1/2	79,402	1/2	66,918	
3/4	3/4	160,048	3/4	149,344	3/4	138,655	3/4	127,966	3/4	116,622	3/4	104,128	3/4	91,635	3/4	79,141	3/4	66,658	
10		10	159,811	10	149,122	10	138,433	10	127,744	10	116,361	10	103,868	10	91,375	10	78,881	10	66,399
1/4	1/4	159,588	1/4	148,899	1/4	138,210	1/4	127,521	1/4	116,101	1/4	103,607	1/4	91,114	1/4	78,621	1/4	66,139	
1/2	1/2	159,365	1/2	148,676	1/2	137,987	1/2	127,298	1/2	115,841	1/2	103,347	1/2	90,854	1/2	78,361	1/2	65,879	
3/4	3/4	159,143	3/4	148,454	3/4	137,765	3/4	127,076	3/4	115,580	3/4	103,087	3/4	90,594	3/4	78,100	3/4	65,620	
11		11	158,920	11	148,231	11	137,542	11	126,853	11	115,320	11	102,827	11	90,334	11	77,840	11	65,360
1/4	1/4	158,697	1/4	148,008	1/4	137,319	1/4	126,630	1/4	115,060	1/4	102,566	1/4	90,073	1/4	77,580	1/4	65,100	
1/2	1/2	158,475	1/2	147,786	1/2	137,097	1/2	126,408	1/2	114,800	1/2	102,306	1/2	89,813	1/2	77,319	1/2	64,840	
3/4	3/4	158,252	3/4	147,563	3/4	136,874	3/4	126,185	3/4	114,539	3/4	102,046	3/4	89,553	3/4	77,059	3/4	64,581	

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 1081"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03"

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	64,321	0	51,840	0	39,368	0	27,113	0	14,619	0	2,122	0		0		0		0	
1/4	64,061	1/4	51,580	1/4	39,114	1/4	26,853	1/4	14,359	1/4	1,889	1/4		1/4		1/4		1/4	
1/2	63,802	1/2	51,320	1/2	38,860	1/2	26,593	1/2	14,099	1/2	1,656	1/2		1/2		1/2		1/2	
3/4	63,542	3/4	51,060	3/4	38,606	3/4	26,332	3/4	13,838	3/4	1,424	3/4		3/4		3/4		3/4	
1	63,282	1	50,799	1	38,352	1	26,072	1	13,578	1	1,191	1		1		1		1	
1/4	63,023	1/4	50,539	1/4	38,098	1/4	25,812	1/4	13,318	1/4	1,028	1/4		1/4		1/4		1/4	
1/2	62,763	1/2	50,279	1/2	37,844	1/2	25,552	1/2	13,057	1/2	865	1/2		1/2		1/2		1/2	
3/4	62,503	3/4	50,019	3/4	37,591	3/4	25,291	3/4	12,797	3/4	702	3/4		3/4		3/4		3/4	
2	62,244	2	49,759	2	37,337	2	25,031	2	12,537	2	539	2		2		2		2	
1/4	61,984	1/4	49,499	1/4	37,083	1/4	24,771	1/4	12,276	1/4	463	1/4		1/4		1/4		1/4	
1/2	61,724	1/2	49,238	1/2	36,829	1/2	24,510	1/2	12,016	1/2	387	1/2		1/2		1/2		1/2	
3/4	61,465	3/4	48,978	3/4	36,575	3/4	24,250	3/4	11,756	3/4	311	3/4		3/4		3/4		3/4	
3	61,205	3	48,718	3	36,321	3	23,990	3	11,496	3	235	3		3		3		3	
1/4	60,945	1/4	48,458	1/4	36,067	1/4	23,729	1/4	11,235	1/4		1/4		1/4		1/4		1/4	
1/2	60,685	1/2	48,198	1/2	35,813	1/2	23,469	1/2	10,975	1/2		1/2		1/2		1/2		1/2	
3/4	60,425	3/4	47,938	3/4	35,559	3/4	23,209	3/4	10,715	3/4		3/4		3/4		3/4		3/4	
4	60,165	4	47,678	4	35,305	4	22,949	4	10,454	4		4		4		4		4	
1/4	59,905	1/4	47,417	1/4	35,051	1/4	22,688	1/4	10,194	1/4		1/4		1/4		1/4		1/4	
1/2	59,645	1/2	47,157	1/2	34,798	1/2	22,428	1/2	9,933	1/2		1/2		1/2		1/2		1/2	
3/4	59,385	3/4	46,897	3/4	34,544	3/4	22,168	3/4	9,673	3/4		3/4		3/4		3/4		3/4	
5	59,124	5	46,637	5	34,290	5	21,907	5	9,413	5		5		5		5		5	
1/4	58,864	1/4	46,377	1/4	34,036	1/4	21,647	1/4	9,152	1/4		1/4		1/4		1/4		1/4	
1/2	58,604	1/2	46,117	1/2	33,782	1/2	21,387	1/2	8,891	1/2		1/2		1/2		1/2		1/2	
3/4	58,344	3/4	45,856	3/4	33,528	3/4	21,127	3/4	8,631	3/4		3/4		3/4		3/4		3/4	
6	58,084	6	45,596	6	33,274	6	20,866	6	8,370	6		6		6		6		6	
1/4	57,824	1/4	45,336	1/4	33,020	1/4	20,606	1/4	8,110	1/4		1/4		1/4		1/4		1/4	
1/2	57,563	1/2	45,076	1/2	32,766	1/2	20,346	1/2	7,849	1/2		1/2		1/2		1/2		1/2	
3/4	57,303	3/4	44,816	3/4	32,512	3/4	20,085	3/4	7,589	3/4		3/4		3/4		3/4		3/4	
7	57,043	7	44,556	7	32,258	7	19,825	7	7,328	7		7		7		7		7	
1/4	56,783	1/4	44,296	1/4	32,005	1/4	19,565	1/4	7,068	1/4		1/4		1/4		1/4		1/4	
1/2	56,523	1/2	44,035	1/2	31,751	1/2	19,304	1/2	6,807	1/2		1/2		1/2		1/2		1/2	
3/4	56,263	3/4	43,775	3/4	31,497	3/4	19,044	3/4	6,547	3/4		3/4		3/4		3/4		3/4	
8	56,003	8	43,515	8	31,243	8	18,784	8	6,286	8		8		8		8		8	
1/4	55,742	1/4	43,255	1/4	30,989	1/4	18,524	1/4	6,026	1/4		1/4		1/4		1/4		1/4	
1/2	55,482	1/2	42,995	1/2	30,735	1/2	18,263	1/2	5,765	1/2		1/2		1/2		1/2		1/2	
3/4	55,222	3/4	42,735	3/4	30,481	3/4	18,003	3/4	5,504	3/4		3/4		3/4		3/4		3/4	
9	54,962	9	42,474	9	30,227	9	17,743	9	5,244	9		9		9		9		9	
1/4	54,702	1/4	42,214	1/4	29,969	1/4	17,482	1/4	4,983	1/4		1/4		1/4		1/4		1/4	
1/2	54,442	1/2	41,954	1/2	29,711	1/2	17,222	1/2	4,722	1/2		1/2		1/2		1/2		1/2	
3/4	54,181	3/4	41,694	3/4	29,454	3/4	16,962	3/4	4,461	3/4		3/4		3/4		3/4		3/4	
10	53,921	10	41,434	10	29,196	10	16,702	10	4,201	10		10		10		10		10	
1/4	53,661	1/4	41,174	1/4	28,935	1/4	16,441	1/4	3,940	1/4		1/4		1/4		1/4		1/4	
1/2	53,401	1/2	40,914	1/2	28,675	1/2	16,181	1/2	3,680	1/2		1/2		1/2		1/2		1/2	
3/4	53,141	3/4	40,653	3/4	28,415	3/4	15,921	3/4	3,419	3/4		3/4		3/4		3/4		3/4	
11	52,881	11	40,393	11	28,154	11	15,660	11	3,159	11		11		11		11		11	
1/4	52,620	1/4	40,137	1/4	27,894	1/4	15,400	1/4	2,900	1/4		1/4		1/4		1/4		1/4	
1/2	52,360	1/2	39,881	1/2	27,634	1/2	15,140	1/2	2,641	1/2		1/2		1/2		1/2		1/2	
3/4	52,100	3/4	39,624	3/4	27,374	3/4	14,879	3/4	2,381	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/29/2015 SW  
CALCULATED: 07/30/2015 CL  
PRINTED: 07/30/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2015

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 1081"

## 2 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		0	145,678	0	134,604	0	123,531	0	112,457	0	101,384	0	90,311	0	79,237	0	68,164
1/4	1/4	155,126	1/4	145,447	1/4	134,374	1/4	123,300	1/4	112,227	1/4	101,153	1/4	90,080	1/4	79,007	1/4	67,933	
1/2	1/2	155,079	1/2	145,216	1/2	134,143	1/2	123,069	1/2	111,996	1/2	100,923	1/2	89,849	1/2	78,776	1/2	67,703	
3/4	3/4	155,031	3/4	144,986	3/4	133,912	3/4	122,839	3/4	111,765	3/4	100,692	3/4	89,619	3/4	78,545	3/4	67,472	
1		154,984		144,755		133,681		122,608		111,535		100,461		89,388		78,315		67,241	
1/4	1/4	154,936	1/4	144,524	1/4	133,451	1/4	122,377	1/4	111,304	1/4	100,231	1/4	89,157	1/4	78,084	1/4	67,010	
1/2	1/2	154,821	1/2	144,293	1/2	133,220	1/2	122,147	1/2	111,073	1/2	100,000	1/2	88,927	1/2	77,853	1/2	66,780	
3/4	3/4	154,705	3/4	144,063	3/4	132,989	3/4	121,916	3/4	110,843	3/4	99,769	3/4	88,696	3/4	77,622	3/4	66,549	
2		154,590		143,832		132,759		121,685		110,612		99,539		88,465		77,392		66,318	
1/4	1/4	154,475	1/4	143,601	1/4	132,528	1/4	121,455	1/4	110,381	1/4	99,308	1/4	88,234	1/4	77,161	1/4	66,088	
1/2	1/2	154,287	1/2	143,371	1/2	132,297	1/2	121,224	1/2	110,151	1/2	99,077	1/2	88,004	1/2	76,930	1/2	65,857	
3/4	3/4	154,098	3/4	143,140	3/4	132,067	3/4	120,993	3/4	109,920	3/4	98,846	3/4	87,773	3/4	76,700	3/4	65,626	
3		153,910		142,909		131,836		120,763		109,689		98,616		87,542		76,469		65,396	
1/4	1/4	153,722	1/4	142,679	1/4	131,605	1/4	120,532	1/4	109,458	1/4	98,385	1/4	87,312	1/4	76,238	1/4	65,165	
1/2	1/2	153,498	1/2	142,448	1/2	131,375	1/2	120,301	1/2	109,228	1/2	98,154	1/2	87,081	1/2	76,008	1/2	64,934	
3/4	3/4	153,274	3/4	142,217	3/4	131,144	3/4	120,070	3/4	108,997	3/4	97,924	3/4	86,850	3/4	75,777	3/4	64,703	
4		153,050		141,987		130,913		119,840		108,766		97,693		86,620		75,546		64,473	
1/4	1/4	152,826	1/4	141,756	1/4	130,682	1/4	119,609	1/4	108,536	1/4	97,462	1/4	86,389	1/4	75,315	1/4	64,242	
1/2	1/2	152,596	1/2	141,525	1/2	130,452	1/2	119,378	1/2	108,305	1/2	97,232	1/2	86,158	1/2	75,085	1/2	64,011	
3/4	3/4	152,366	3/4	141,294	3/4	130,221	3/4	119,148	3/4	108,074	3/4	97,001	3/4	85,927	3/4	74,854	3/4	63,781	
5		152,136		141,064		129,990		118,917		107,844		96,770		85,697		74,623		63,550	
1/4	1/4	151,906	1/4	140,833	1/4	129,760	1/4	118,686	1/4	107,613	1/4	96,539	1/4	85,466	1/4	74,393	1/4	63,319	
1/2	1/2	151,675	1/2	140,602	1/2	129,529	1/2	118,456	1/2	107,382	1/2	96,309	1/2	85,235	1/2	74,162	1/2	63,089	
3/4	3/4	151,445	3/4	140,372	3/4	129,298	3/4	118,225	3/4	107,151	3/4	96,078	3/4	85,005	3/4	73,931	3/4	62,858	
6		151,214		140,141		129,068		117,994		106,921		95,847		84,774		73,701		62,627	
1/4	1/4	150,984	1/4	139,910	1/4	128,837	1/4	117,763	1/4	106,690	1/4	95,617	1/4	84,543	1/4	73,470	1/4	62,397	
1/2	1/2	150,753	1/2	139,680	1/2	128,606	1/2	117,533	1/2	106,459	1/2	95,386	1/2	84,313	1/2	73,239	1/2	62,166	
3/4	3/4	150,522	3/4	139,449	3/4	128,375	3/4	117,302	3/4	106,229	3/4	95,155	3/4	84,082	3/4	73,009	3/4	61,935	
7		150,292		139,218		128,145		117,071		105,998		94,925		83,851		72,778		61,704	
1/4	1/4	150,061	1/4	138,987	1/4	127,914	1/4	116,841	1/4	105,767	1/4	94,694	1/4	83,621	1/4	72,547	1/4	61,474	
1/2	1/2	149,830	1/2	138,757	1/2	127,683	1/2	116,610	1/2	105,537	1/2	94,463	1/2	83,390	1/2	72,316	1/2	61,243	
3/4	3/4	149,599	3/4	138,526	3/4	127,453	3/4	116,379	3/4	105,306	3/4	94,233	3/4	83,159	3/4	72,086	3/4	61,012	
8		149,369		138,295		127,222		116,149		105,075		94,002		82,928		71,855		60,782	
1/4	1/4	149,138	1/4	138,065	1/4	126,991	1/4	115,918	1/4	104,845	1/4	93,771	1/4	82,698	1/4	71,624	1/4	60,551	
1/2	1/2	148,907	1/2	137,834	1/2	126,761	1/2	115,687	1/2	104,614	1/2	93,540	1/2	82,467	1/2	71,394	1/2	60,320	
3/4	3/4	148,677	3/4	137,603	3/4	126,530	3/4	115,457	3/4	104,383	3/4	93,310	3/4	82,236	3/4	71,163	3/4	60,090	
9		148,446		137,373		126,299		115,226		104,152		93,079		82,006		70,932		59,859	
1/4	1/4	148,215	1/4	137,142	1/4	126,069	1/4	114,995	1/4	103,922	1/4	92,848	1/4	81,775	1/4	70,702	1/4	59,628	
1/2	1/2	147,985	1/2	136,911	1/2	125,838	1/2	114,764	1/2	103,691	1/2	92,618	1/2	81,544	1/2	70,471	1/2	59,397	
3/4	3/4	147,754	3/4	136,681	3/4	125,607	3/4	114,534	3/4	103,460	3/4	92,387	3/4	81,314	3/4	70,240	3/4	59,167	
10		147,523		136,450		125,376		114,303		103,230		92,156		81,083		70,009		58,936	
1/4	1/4	147,293	1/4	136,219	1/4	125,146	1/4	114,072	1/4	102,999	1/4	91,926	1/4	80,852	1/4	69,779	1/4	58,705	
1/2	1/2	147,062	1/2	135,988	1/2	124,915	1/2	113,842	1/2	102,768	1/2	91,695	1/2	80,621	1/2	69,548	1/2	58,475	
3/4	3/4	146,831	3/4	135,758	3/4	124,684	3/4	113,611	3/4	102,538	3/4	91,464	3/4	80,391	3/4	69,317	3/4	58,244	
11		146,600		135,527		124,454		113,380		102,307		91,233		80,160		69,087		58,013	
1/4	1/4	146,370	1/4	135,296	1/4	124,223	1/4	113,150	1/4	102,076	1/4	91,003	1/4	79,929	1/4	68,856	1/4	57,783	
1/2	1/2	146,139	1/2	135,066	1/2	123,992	1/2	112,919	1/2	101,845	1/2	90,772	1/2	79,699	1/2	68,625	1/2	57,552	
3/4	3/4	145,908	3/4	134,835	3/4	123,762	3/4	112,688	3/4	101,615	3/4	90,541	3/4	79,468	3/4	68,395	3/4	57,321	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "IB 1081"

## 2 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	57,091	0	46,017	0	34,955	0	24,123	0	13,050	0	1,983	0		0		0		0	
1/4	56,860	1/4	45,786	1/4	34,729	1/4	23,892	1/4	12,819	1/4	1,753	1/4		1/4		1/4		1/4	
1/2	56,629	1/2	45,556	1/2	34,504	1/2	23,661	1/2	12,588	1/2	1,547	1/2		1/2		1/2		1/2	
3/4	56,398	3/4	45,325	3/4	34,280	3/4	23,431	3/4	12,358	3/4	1,341	3/4		3/4		3/4		3/4	
1	56,168	1	45,094	1	34,055	1	23,200	1	12,127	1	1,136	1		1		1		1	
1/4	55,937	1/4	44,864	1/4	33,831	1/4	22,969	1/4	11,896	1/4	930	1/4		1/4		1/4		1/4	
1/2	55,706	1/2	44,633	1/2	33,607	1/2	22,739	1/2	11,666	1/2	786	1/2		1/2		1/2		1/2	
3/4	55,476	3/4	44,402	3/4	33,382	3/4	22,508	3/4	11,435	3/4	641	3/4		3/4		3/4		3/4	
2	55,245	2	44,172	2	33,158	2	22,277	2	11,204	2	497	2		2		2		2	
1/4	55,014	1/4	43,941	1/4	32,933	1/4	22,046	1/4	10,974	1/4	353	1/4		1/4		1/4		1/4	
1/2	54,784	1/2	43,710	1/2	32,709	1/2	21,816	1/2	10,743	1/2	286	1/2		1/2		1/2		1/2	
3/4	54,553	3/4	43,479	3/4	32,485	3/4	21,585	3/4	10,512	3/4	219	3/4		3/4		3/4		3/4	
3	54,322	3	43,249	3	32,260	3	21,354	3	10,281	3	151	3		3		3		3	
1/4	54,091	1/4	43,018	1/4	32,036	1/4	21,124	1/4	10,051	1/4	84	1/4		1/4		1/4		1/4	
1/2	53,861	1/2	42,787	1/2	31,811	1/2	20,893	1/2	9,820	1/2		1/2		1/2		1/2		1/2	
3/4	53,630	3/4	42,557	3/4	31,587	3/4	20,662	3/4	9,589	3/4		3/4		3/4		3/4		3/4	
4	53,399	4	42,326	4	31,363	4	20,432	4	9,359	4	4	4		4		4		4	
1/4	53,169	1/4	42,095	1/4	31,138	1/4	20,201	1/4	9,128	1/4		1/4		1/4		1/4		1/4	
1/2	52,938	1/2	41,865	1/2	30,914	1/2	19,970	1/2	8,897	1/2		1/2		1/2		1/2		1/2	
3/4	52,707	3/4	41,634	3/4	30,690	3/4	19,740	3/4	8,667	3/4		3/4		3/4		3/4		3/4	
5	52,477	5	41,403	5	30,465	5	19,509	5	8,436	5		5		5		5		5	
1/4	52,246	1/4	41,173	1/4	30,241	1/4	19,278	1/4	8,205	1/4		1/4		1/4		1/4		1/4	
1/2	52,015	1/2	40,942	1/2	30,016	1/2	19,048	1/2	7,975	1/2		1/2		1/2		1/2		1/2	
3/4	51,785	3/4	40,711	3/4	29,792	3/4	18,817	3/4	7,744	3/4		3/4		3/4		3/4		3/4	
6	51,554	6	40,480	6	29,568	6	18,586	6	7,513	6		6		6		6		6	
1/4	51,323	1/4	40,250	1/4	29,343	1/4	18,355	1/4	7,283	1/4		1/4		1/4		1/4		1/4	
1/2	51,092	1/2	40,019	1/2	29,119	1/2	18,125	1/2	7,052	1/2		1/2		1/2		1/2		1/2	
3/4	50,862	3/4	39,788	3/4	28,895	3/4	17,894	3/4	6,821	3/4		3/4		3/4		3/4		3/4	
7	50,631	7	39,558	7	28,670	7	17,663	7	6,591	7		7		7		7		7	
1/4	50,400	1/4	39,327	1/4	28,446	1/4	17,433	1/4	6,360	1/4		1/4		1/4		1/4		1/4	
1/2	50,170	1/2	39,096	1/2	28,221	1/2	17,202	1/2	6,129	1/2		1/2		1/2		1/2		1/2	
3/4	49,939	3/4	38,866	3/4	27,997	3/4	16,971	3/4	5,899	3/4		3/4		3/4		3/4		3/4	
8	49,708	8	38,635	8	27,773	8	16,741	8	5,668	8		8		8		8		8	
1/4	49,478	1/4	38,404	1/4	27,548	1/4	16,510	1/4	5,437	1/4		1/4		1/4		1/4		1/4	
1/2	49,247	1/2	38,173	1/2	27,324	1/2	16,279	1/2	5,207	1/2		1/2		1/2		1/2		1/2	
3/4	49,016	3/4	37,943	3/4	27,099	3/4	16,049	3/4	4,976	3/4		3/4		3/4		3/4		3/4	
9	48,785	9	37,712	9	26,875	9	15,818	9	4,745	9		9		9		9		9	
1/4	48,555	1/4	37,481	1/4	26,651	1/4	15,587	1/4	4,514	1/4		1/4		1/4		1/4		1/4	
1/2	48,324	1/2	37,251	1/2	26,422	1/2	15,357	1/2	4,284	1/2		1/2		1/2		1/2		1/2	
3/4	48,093	3/4	37,020	3/4	26,194	3/4	15,126	3/4	4,053	3/4		3/4		3/4		3/4		3/4	
10	47,863	10	36,789	10	25,966	10	14,895	10	3,823	10		10		10		10		10	
1/4	47,632	1/4	36,559	1/4	25,737	1/4	14,665	1/4	3,592	1/4		1/4		1/4		1/4		1/4	
1/2	47,401	1/2	36,328	1/2	25,507	1/2	14,434	1/2	3,362	1/2		1/2		1/2		1/2		1/2	
3/4	47,171	3/4	36,097	3/4	25,276	3/4	14,203	3/4	3,131	3/4		3/4		3/4		3/4		3/4	
11	46,940	11	35,866	11	25,045	11	13,972	11	2,901	11		11		11		11		11	
1/4	46,709	1/4	35,636	1/4	24,815	1/4	13,742	1/4	2,671	1/4		1/4		1/4		1/4		1/4	
1/2	46,479	1/2	35,409	1/2	24,584	1/2	13,511	1/2	2,441	1/2		1/2		1/2		1/2		1/2	
3/4	46,248	3/4	35,182	3/4	24,353	3/4	13,280	3/4	2,212	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/29/2015 SW  
CALCULATED: 07/30/2015 CL  
PRINTED: 07/30/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "IB 1081"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	144,694	0	133,730	0	122,767	0	111,803	0	100,839	0	89,876	0	78,912	0	67,949
1/4	1/4		1/4	144,465	1/4	133,502	1/4	122,538	1/4	111,575	1/4	100,611	1/4	89,647	1/4	78,684	1/4	67,720	
1/2	1/2	153,820	1/2	144,237	1/2	133,273	1/2	122,310	1/2	111,346	1/2	100,383	1/2	89,419	1/2	78,455	1/2	67,492	
3/4	3/4	153,773	3/4	144,008	3/4	133,045	3/4	122,081	3/4	111,118	3/4	100,154	3/4	89,191	3/4	78,227	3/4	67,263	
1	1	153,726	1	143,780	1	132,817	1	121,853	1	110,889	1	99,926	1	88,962	1	77,999	1	67,035	
1/4	1/4	153,679	1/4	143,552	1/4	132,588	1/4	121,625	1/4	110,661	1/4	99,697	1/4	88,734	1/4	77,770	1/4	66,807	
1/2	1/2	153,632	1/2	143,323	1/2	132,360	1/2	121,396	1/2	110,433	1/2	99,469	1/2	88,505	1/2	77,542	1/2	66,578	
3/4	3/4	153,518	3/4	143,095	3/4	132,131	3/4	121,168	3/4	110,204	3/4	99,241	3/4	88,277	3/4	77,313	3/4	66,350	
2	2	153,404	2	142,866	2	131,903	2	120,939	2	109,976	2	99,012	2	88,049	2	77,085	2	66,121	
1/4	1/4	153,289	1/4	142,638	1/4	131,674	1/4	120,711	1/4	109,747	1/4	98,784	1/4	87,820	1/4	76,857	1/4	65,893	
1/2	1/2	153,175	1/2	142,410	1/2	131,446	1/2	120,482	1/2	109,519	1/2	98,555	1/2	87,592	1/2	76,628	1/2	65,665	
3/4	3/4	152,989	3/4	142,181	3/4	131,218	3/4	120,254	3/4	109,290	3/4	98,327	3/4	87,363	3/4	76,400	3/4	65,436	
3	3	152,803	3	141,953	3	130,989	3	120,026	3	109,062	3	98,099	3	87,135	3	76,171	3	65,208	
1/4	1/4	152,616	1/4	141,724	1/4	130,761	1/4	119,797	1/4	108,834	1/4	97,870	1/4	86,907	1/4	75,943	1/4	64,979	
1/2	1/2	152,430	1/2	141,496	1/2	130,532	1/2	119,569	1/2	108,605	1/2	97,642	1/2	86,678	1/2	75,715	1/2	64,751	
3/4	3/4	152,208	3/4	141,268	3/4	130,304	3/4	119,340	3/4	108,377	3/4	97,413	3/4	86,450	3/4	75,486	3/4	64,523	
4	4	151,986	4	141,039	4	130,076	4	119,112	4	108,148	4	97,185	4	86,221	4	75,258	4	64,294	
1/4	1/4	151,765	1/4	140,811	1/4	129,847	1/4	118,884	1/4	107,920	1/4	96,956	1/4	85,993	1/4	75,029	1/4	64,066	
1/2	1/2	151,543	1/2	140,582	1/2	129,619	1/2	118,655	1/2	107,692	1/2	96,728	1/2	85,764	1/2	74,801	1/2	63,837	
3/4	3/4	151,315	3/4	140,354	3/4	129,390	3/4	118,427	3/4	107,463	3/4	96,500	3/4	85,536	3/4	74,572	3/4	63,609	
5	5	151,087	5	140,126	5	129,162	5	118,198	5	107,235	5	96,271	5	85,308	5	74,344	5	63,380	
1/4	1/4	150,860	1/4	139,897	1/4	128,934	1/4	117,970	1/4	107,006	1/4	96,043	1/4	85,079	1/4	74,116	1/4	63,152	
1/2	1/2	150,632	1/2	139,669	1/2	128,705	1/2	117,742	1/2	106,778	1/2	95,814	1/2	84,851	1/2	73,887	1/2	62,924	
3/4	3/4	150,404	3/4	139,440	3/4	128,477	3/4	117,513	3/4	106,550	3/4	95,586	3/4	84,622	3/4	73,659	3/4	62,695	
6	6	150,175	6	139,212	6	128,248	6	117,285	6	106,321	6	95,358	6	84,394	6	73,430	6	62,467	
1/4	1/4	149,947	1/4	138,984	1/4	128,020	1/4	117,056	1/4	106,093	1/4	95,129	1/4	84,166	1/4	73,202	1/4	62,238	
1/2	1/2	149,719	1/2	138,755	1/2	127,792	1/2	116,828	1/2	105,864	1/2	94,901	1/2	83,937	1/2	72,974	1/2	62,010	
3/4	3/4	149,490	3/4	138,527	3/4	127,563	3/4	116,600	3/4	105,636	3/4	94,672	3/4	83,709	3/4	72,745	3/4	61,782	
7	7	149,262	7	138,298	7	127,335	7	116,371	7	105,408	7	94,444	7	83,480	7	72,517	7	61,553	
1/4	1/4	149,033	1/4	138,070	1/4	127,106	1/4	116,143	1/4	105,179	1/4	94,216	1/4	83,252	1/4	72,288	1/4	61,325	
1/2	1/2	148,805	1/2	137,841	1/2	126,878	1/2	115,914	1/2	104,951	1/2	93,987	1/2	83,024	1/2	72,060	1/2	61,096	
3/4	3/4	148,577	3/4	137,613	3/4	126,649	3/4	115,686	3/4	104,722	3/4	93,759	3/4	82,795	3/4	71,832	3/4	60,868	
8	8	148,348	8	137,385	8	126,421	8	115,458	8	104,494	8	93,530	8	82,567	8	71,603	8	60,640	
1/4	1/4	148,120	1/4	137,156	1/4	126,193	1/4	115,229	1/4	104,266	1/4	93,302	1/4	82,338	1/4	71,375	1/4	60,411	
1/2	1/2	147,891	1/2	136,928	1/2	125,964	1/2	115,001	1/2	104,037	1/2	93,074	1/2	82,110	1/2	71,146	1/2	60,183	
3/4	3/4	147,663	3/4	136,699	3/4	125,736	3/4	114,772	3/4	103,809	3/4	92,845	3/4	81,882	3/4	70,918	3/4	59,954	
9	9	147,435	9	136,471	9	125,507	9	114,544	9	103,580	9	92,617	9	81,653	9	70,690	9	59,726	
1/4	1/4	147,206	1/4	136,243	1/4	125,279	1/4	114,315	1/4	103,352	1/4	92,388	1/4	81,425	1/4	70,461	1/4	59,498	
1/2	1/2	146,978	1/2	136,014	1/2	125,051	1/2	114,087	1/2	103,123	1/2	92,160	1/2	81,196	1/2	70,233	1/2	59,269	
3/4	3/4	146,749	3/4	135,786	3/4	124,822	3/4	113,859	3/4	102,895	3/4	91,931	3/4	80,968	3/4	70,004	3/4	59,041	
10	10	146,521	10	135,557	10	124,594	10	113,630	10	102,667	10	91,703	10	80,740	10	69,776	10	58,812	
1/4	1/4	146,293	1/4	135,329	1/4	124,365	1/4	113,402	1/4	102,438	1/4	91,475	1/4	80,511	1/4	69,548	1/4	58,584	
1/2	1/2	146,064	1/2	135,101	1/2	124,137	1/2	113,173	1/2	102,210	1/2	91,246	1/2	80,283	1/2	69,319	1/2	58,356	
3/4	3/4	145,836	3/4	134,872	3/4	123,909	3/4	112,945	3/4	101,981	3/4	91,018	3/4	80,054	3/4	69,091	3/4	58,127	
11	11	145,607	11	134,644	11	123,680	11	112,717	11	101,753	11	90,789	11	79,826	11	68,862	11	57,899	
1/4	1/4	145,379	1/4	134,415	1/4	123,452	1/4	112,488	1/4	101,525	1/4	90,561	1/4	79,597	1/4	68,634	1/4	57,670	
1/2	1/2	145,151	1/2	134,187	1/2	123,223	1/2	112,260	1/2	101,296	1/2	90,333	1/2	79,369	1/2	68,405	1/2	57,442	
3/4	3/4	144,922	3/4	133,959	3/4	122,995	3/4	112,031	3/4	101,068	3/4	90,104	3/4	79,141	3/4	68,177	3/4	57,213	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "IB 1081"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	56,985	0	46,021	0	35,058	0	24,112	0	13,149	0	2,190	0		0		0		0	
1/4	56,757	1/4	45,793	1/4	34,830	1/4	23,884	1/4	12,921	1/4	1,963	1/4		1/4		1/4		1/4	
1/2	56,528	1/2	45,565	1/2	34,602	1/2	23,655	1/2	12,692	1/2	1,736	1/2		1/2		1/2		1/2	
3/4	56,300	3/4	45,336	3/4	34,374	3/4	23,427	3/4	12,464	3/4	1,532	3/4		3/4		3/4		3/4	
1	56,071	1	45,108	1	34,146	1	23,198	1	12,235	1	1,328	1		1		1		1	
1/4	55,843	1/4	44,879	1/4	33,918	1/4	22,970	1/4	12,007	1/4	1,125	1/4		1/4		1/4		1/4	
1/2	55,615	1/2	44,651	1/2	33,690	1/2	22,742	1/2	11,779	1/2	921	1/2		1/2		1/2		1/2	
3/4	55,386	3/4	44,423	3/4	33,462	3/4	22,513	3/4	11,550	3/4	778	3/4		3/4		3/4		3/4	
2	55,158	2	44,194	2	33,234	2	22,285	2	11,322	2	635	2		2		2		2	
1/4	54,929	1/4	43,966	1/4	33,006	1/4	22,056	1/4	11,093	1/4	493	1/4		1/4		1/4		1/4	
1/2	54,701	1/2	43,737	1/2	32,778	1/2	21,828	1/2	10,865	1/2	350	1/2		1/2		1/2		1/2	
3/4	54,473	3/4	43,509	3/4	32,550	3/4	21,600	3/4	10,637	3/4	283	3/4		3/4		3/4		3/4	
3	54,244	3	43,281	3	32,322	3	21,371	3	10,408	3	217	3		3		3		3	
1/4	54,016	1/4	43,052	1/4	32,094	1/4	21,143	1/4	10,180	1/4	150	1/4		1/4		1/4		1/4	
1/2	53,787	1/2	42,824	1/2	31,866	1/2	20,914	1/2	9,951	1/2	83	1/2		1/2		1/2		1/2	
3/4	53,559	3/4	42,595	3/4	31,638	3/4	20,686	3/4	9,723	3/4		3/4		3/4		3/4		3/4	
4	53,331	4	42,367	4	31,410	4	20,458	4	9,495	4		4		4		4		4	
1/4	53,102	1/4	42,139	1/4	31,182	1/4	20,229	1/4	9,266	1/4		1/4		1/4		1/4		1/4	
1/2	52,874	1/2	41,910	1/2	30,954	1/2	20,001	1/2	9,038	1/2		1/2		1/2		1/2		1/2	
3/4	52,645	3/4	41,682	3/4	30,727	3/4	19,772	3/4	8,809	3/4		3/4		3/4		3/4		3/4	
5	52,417	5	41,453	5	30,499	5	19,544	5	8,581	5		5		5		5		5	
1/4	52,189	1/4	41,225	1/4	30,271	1/4	19,316	1/4	8,353	1/4		1/4		1/4		1/4		1/4	
1/2	51,960	1/2	40,997	1/2	30,043	1/2	19,087	1/2	8,124	1/2		1/2		1/2		1/2		1/2	
3/4	51,732	3/4	40,768	3/4	29,815	3/4	18,859	3/4	7,896	3/4		3/4		3/4		3/4		3/4	
6	51,503	6	40,540	6	29,587	6	18,630	6	7,667	6		6		6		6		6	
1/4	51,275	1/4	40,311	1/4	29,359	1/4	18,402	1/4	7,439	1/4		1/4		1/4		1/4		1/4	
1/2	51,046	1/2	40,083	1/2	29,131	1/2	18,174	1/2	7,211	1/2		1/2		1/2		1/2		1/2	
3/4	50,818	3/4	39,854	3/4	28,903	3/4	17,945	3/4	6,982	3/4		3/4		3/4		3/4		3/4	
7	50,590	7	39,626	7	28,675	7	17,717	7	6,754	7		7		7		7		7	
1/4	50,361	1/4	39,398	1/4	28,447	1/4	17,488	1/4	6,525	1/4		1/4		1/4		1/4		1/4	
1/2	50,133	1/2	39,169	1/2	28,219	1/2	17,260	1/2	6,297	1/2		1/2		1/2		1/2		1/2	
3/4	49,904	3/4	38,941	3/4	27,991	3/4	17,032	3/4	6,069	3/4		3/4		3/4		3/4		3/4	
8	49,676	8	38,712	8	27,763	8	16,803	8	5,840	8		8		8		8		8	
1/4	49,448	1/4	38,484	1/4	27,535	1/4	16,575	1/4	5,612	1/4		1/4		1/4		1/4		1/4	
1/2	49,219	1/2	38,256	1/2	27,307	1/2	16,346	1/2	5,384	1/2		1/2		1/2		1/2		1/2	
3/4	48,991	3/4	38,027	3/4	27,079	3/4	16,118	3/4	5,155	3/4		3/4		3/4		3/4		3/4	
9	48,762	9	37,799	9	26,851	9	15,890	9	4,927	9		9		9		9		9	
1/4	48,534	1/4	37,570	1/4	26,623	1/4	15,661	1/4	4,698	1/4		1/4		1/4		1/4		1/4	
1/2	48,306	1/2	37,342	1/2	26,395	1/2	15,433	1/2	4,470	1/2		1/2		1/2		1/2		1/2	
3/4	48,077	3/4	37,114	3/4	26,167	3/4	15,205	3/4	4,242	3/4		3/4		3/4		3/4		3/4	
10	47,849	10	36,885	10	25,939	10	14,976	10	4,013	10		10		10		10		10	
1/4	47,620	1/4	36,657	1/4	25,711	1/4	14,748	1/4	3,785	1/4		1/4		1/4		1/4		1/4	
1/2	47,392	1/2	36,428	1/2	25,482	1/2	14,519	1/2	3,557	1/2		1/2		1/2		1/2		1/2	
3/4	47,164	3/4	36,200	3/4	25,254	3/4	14,291	3/4	3,328	3/4		3/4		3/4		3/4		3/4	
11	46,935	11	35,972	11	25,026	11	14,063	11	3,100	11		11		11		11		11	
1/4	46,707	1/4	35,743	1/4	24,797	1/4	13,834	1/4	2,872	1/4		1/4		1/4		1/4		1/4	
1/2	46,478	1/2	35,515	1/2	24,569	1/2	13,606	1/2	2,644	1/2		1/2		1/2		1/2		1/2	
3/4	46,250	3/4	35,287	3/4	24,340	3/4	13,377	3/4	2,417	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 07/29/2015 SW  
CALCULATED: 07/30/2015 CL  
PRINTED: 07/30/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2015

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