



BARGE "IB 1100"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
2 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	- 00-3/4	00-3/4	- 01-0/8	01-0/8
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 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 163'-00"

March 28, 2018

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

<http://www.pmacorp.net>



BARGE "IB 1100"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

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	157,552	0	146,888	0	136,223	0	125,558	0	113,881	0	101,413	0	88,946	0	76,478
1/4		1/4		1/4	157,330	1/4	146,665	1/4	136,001	1/4	125,336	1/4	113,622	1/4	101,154	1/4	88,686	1/4	76,218
1/2		1/2		1/2	157,108	1/2	146,443	1/2	135,779	1/2	125,114	1/2	113,362	1/2	100,894	1/2	88,426	1/2	75,958
3/4		3/4	166,693	3/4	156,886	3/4	146,221	3/4	135,556	3/4	124,892	3/4	113,102	3/4	100,634	3/4	88,167	3/4	75,698
1		1	166,604	1	156,663	1	145,999	1	135,334	1	124,670	1	112,842	1	100,374	1	87,907	1	75,439
1/4		1/4	166,514	1/4	156,441	1/4	145,777	1/4	135,112	1/4	124,447	1/4	112,583	1/4	100,115	1/4	87,647	1/4	75,179
1/2		1/2	166,425	1/2	156,219	1/2	145,554	1/2	134,890	1/2	124,225	1/2	112,323	1/2	99,855	1/2	87,387	1/2	74,919
3/4		3/4	166,335	3/4	155,997	3/4	145,332	3/4	134,668	3/4	124,003	3/4	112,063	3/4	99,595	3/4	87,128	3/4	74,659
2		2	166,180	2	155,775	2	145,110	2	134,446	2	123,781	2	111,803	2	99,336	2	86,868	2	74,400
1/4		1/4	166,025	1/4	155,552	1/4	144,888	1/4	134,223	1/4	123,559	1/4	111,544	1/4	99,076	1/4	86,608	1/4	74,140
1/2		1/2	165,869	1/2	155,330	1/2	144,666	1/2	134,001	1/2	123,337	1/2	111,284	1/2	98,816	1/2	86,348	1/2	73,880
3/4		3/4	165,714	3/4	155,108	3/4	144,444	3/4	133,779	3/4	123,114	3/4	111,024	3/4	98,556	3/4	86,089	3/4	73,620
3		3	165,505	3	154,886	3	144,221	3	133,557	3	122,892	3	110,764	3	98,297	3	85,829	3	73,361
1/4		1/4	165,297	1/4	154,664	1/4	143,999	1/4	133,335	1/4	122,670	1/4	110,505	1/4	98,037	1/4	85,569	1/4	73,101
1/2		1/2	165,088	1/2	154,442	1/2	143,777	1/2	133,112	1/2	122,448	1/2	110,245	1/2	97,777	1/2	85,309	1/2	72,841
3/4		3/4	164,879	3/4	154,219	3/4	143,555	3/4	132,890	3/4	122,226	3/4	109,985	3/4	97,517	3/4	85,050	3/4	72,581
4		4	164,658	4	153,997	4	143,333	4	132,668	4	122,004	4	109,725	4	97,258	4	84,790	4	72,322
1/4		1/4	164,437	1/4	153,775	1/4	143,110	1/4	132,446	1/4	121,782	1/4	109,465	1/4	96,998	1/4	84,530	1/4	72,062
1/2		1/2	164,216	1/2	153,553	1/2	142,888	1/2	132,224	1/2	121,560	1/2	109,206	1/2	96,738	1/2	84,270	1/2	71,802
3/4		3/4	163,994	3/4	153,331	3/4	142,666	3/4	132,002	3/4	121,338	3/4	108,946	3/4	96,479	3/4	84,011	3/4	71,542
5		5	163,772	5	153,109	5	142,444	5	131,779	5	121,097	5	108,686	5	96,219	5	83,751	5	71,283
1/4		1/4	163,550	1/4	152,886	1/4	142,222	1/4	131,557	1/4	120,857	1/4	108,426	1/4	95,959	1/4	83,491	1/4	71,023
1/2		1/2	163,328	1/2	152,664	1/2	142,000	1/2	131,335	1/2	120,616	1/2	108,167	1/2	95,699	1/2	83,231	1/2	70,764
3/4		3/4	163,106	3/4	152,442	3/4	141,777	3/4	131,113	3/4	120,375	3/4	107,907	3/4	95,440	3/4	82,971	3/4	70,505
6		6	162,884	6	152,220	6	141,555	6	130,891	6	120,115	6	107,647	6	95,180	6	82,712	6	70,245
1/4		1/4	162,662	1/4	151,998	1/4	141,333	1/4	130,668	1/4	119,856	1/4	107,387	1/4	94,920	1/4	82,452	1/4	69,986
1/2		1/2	162,440	1/2	151,775	1/2	141,111	1/2	130,446	1/2	119,596	1/2	107,128	1/2	94,660	1/2	82,192	1/2	69,727
3/4		3/4	162,218	3/4	151,553	3/4	140,889	3/4	130,224	3/4	119,336	3/4	106,868	3/4	94,401	3/4	81,932	3/4	69,468
7		7	161,996	7	151,331	7	140,667	7	130,002	7	119,076	7	106,608	7	94,141	7	81,673	7	69,209
1/4		1/4	161,773	1/4	151,109	1/4	140,444	1/4	129,780	1/4	118,817	1/4	106,348	1/4	93,881	1/4	81,413	1/4	68,950
1/2		1/2	161,551	1/2	150,887	1/2	140,222	1/2	129,558	1/2	118,557	1/2	106,089	1/2	93,621	1/2	81,153	1/2	68,690
3/4		3/4	161,329	3/4	150,665	3/4	140,000	3/4	129,335	3/4	118,297	3/4	105,829	3/4	93,362	3/4	80,893	3/4	68,431
8		8	161,107	8	150,442	8	139,778	8	129,113	8	118,037	8	105,569	8	93,102	8	80,634	8	68,172
1/4		1/4	160,885	1/4	150,220	1/4	139,556	1/4	128,891	1/4	117,778	1/4	105,309	1/4	92,842	1/4	80,374	1/4	67,913
1/2		1/2	160,663	1/2	149,998	1/2	139,333	1/2	128,669	1/2	117,518	1/2	105,050	1/2	92,582	1/2	80,114	1/2	67,654
3/4		3/4	160,440	3/4	149,776	3/4	139,111	3/4	128,447	3/4	117,258	3/4	104,790	3/4	92,323	3/4	79,854	3/4	67,395
9		9	160,218	9	149,554	9	138,889	9	128,225	9	116,998	9	104,530	9	92,063	9	79,595	9	67,136
1/4		1/4	159,996	1/4	149,331	1/4	138,667	1/4	128,002	1/4	116,739	1/4	104,270	1/4	91,803	1/4	79,335	1/4	66,876
1/2		1/2	159,774	1/2	149,109	1/2	138,445	1/2	127,780	1/2	116,479	1/2	104,011	1/2	91,543	1/2	79,075	1/2	66,617
3/4		3/4	159,552	3/4	148,887	3/4	138,223	3/4	127,558	3/4	116,219	3/4	103,751	3/4	91,284	3/4	78,815	3/4	66,358
10		10	159,329	10	148,665	10	138,000	10	127,336	10	115,959	10	103,491	10	91,024	10	78,556	10	66,099
1/4		1/4	159,107	1/4	148,443	1/4	137,778	1/4	127,114	1/4	115,700	1/4	103,231	1/4	90,764	1/4	78,296	1/4	65,840
1/2		1/2	158,885	1/2	148,221	1/2	137,556	1/2	126,891	1/2	115,440	1/2	102,972	1/2	90,504	1/2	78,036	1/2	65,581
3/4		3/4	158,663	3/4	147,998	3/4	137,334	3/4	126,669	3/4	115,180	3/4	102,712	3/4	90,245	3/4	77,776	3/4	65,321
11		11	158,441	11	147,776	11	137,112	11	126,447	11	114,920	11	102,452	11	89,985	11	77,517	11	65,062
1/4		1/4	158,219	1/4	147,554	1/4	136,889	1/4	126,225	1/4	114,661	1/4	102,192	1/4	89,725	1/4	77,257	1/4	64,803
1/2		1/2	157,996	1/2	147,332	1/2	136,667	1/2	126,003	1/2	114,401	1/2	101,933	1/2	89,465	1/2	76,997	1/2	64,544
3/4		3/4	157,774	3/4	147,110	3/4	136,445	3/4	125,781	3/4	114,141	3/4	101,673	3/4	89,206	3/4	76,737	3/4	64,285

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
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BARGE "IB 1100"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	64,026	0	51,570	0	39,126	0	26,894	0	14,425	0	2,004	0		0		0		0	
1/4	63,767	1/4	51,310	1/4	38,873	1/4	26,634	1/4	14,165	1/4	1,768	1/4		1/4	1/4		1/4	1/4	
1/2	63,507	1/2	51,051	1/2	38,620	1/2	26,374	1/2	13,906	1/2	1,532	1/2		1/2	1/2		1/2	1/2	
3/4	63,248	3/4	50,791	3/4	38,366	3/4	26,115	3/4	13,646	3/4	1,297	3/4		3/4	3/4		3/4	3/4	
1	62,989	1	50,531	1	38,113	1	25,855	1	13,386	1	1,123	1		1	1		1	1	
1/4	62,730	1/4	50,272	1/4	37,859	1/4	25,595	1/4	13,126	1/4	950	1/4		1/4	1/4		1/4	1/4	
1/2	62,471	1/2	50,012	1/2	37,606	1/2	25,335	1/2	12,867	1/2	777	1/2		1/2	1/2		1/2	1/2	
3/4	62,212	3/4	49,752	3/4	37,353	3/4	25,075	3/4	12,607	3/4	603	3/4		3/4	3/4		3/4	3/4	
2	61,952	2	49,493	2	37,099	2	24,816	2	12,347	2	516	2		2	2		2	2	
1/4	61,693	1/4	49,233	1/4	36,846	1/4	24,556	1/4	12,087	1/4	430	1/4		1/4	1/4		1/4	1/4	
1/2	61,434	1/2	48,974	1/2	36,593	1/2	24,296	1/2	11,828	1/2	343	1/2		1/2	1/2		1/2	1/2	
3/4	61,175	3/4	48,714	3/4	36,339	3/4	24,036	3/4	11,568	3/4	256	3/4		3/4	3/4		3/4	3/4	
3	60,916	3	48,454	3	36,086	3	23,777	3	11,308	3		3		3	3		3	3	
1/4	60,656	1/4	48,195	1/4	35,832	1/4	23,517	1/4	11,048	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	60,397	1/2	47,935	1/2	35,579	1/2	23,257	1/2	10,788	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	60,137	3/4	47,675	3/4	35,326	3/4	22,997	3/4	10,529	3/4		3/4		3/4	3/4		3/4	3/4	
4	59,878	4	47,416	4	35,072	4	22,738	4	10,269	4		4		4	4		4	4	
1/4	59,618	1/4	47,156	1/4	34,819	1/4	22,478	1/4	10,009	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	59,359	1/2	46,897	1/2	34,565	1/2	22,218	1/2	9,749	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	59,099	3/4	46,637	3/4	34,312	3/4	21,958	3/4	9,489	3/4		3/4		3/4	3/4		3/4	3/4	
5	58,839	5	46,377	5	34,059	5	21,699	5	9,229	5		5		5	5		5	5	
1/4	58,580	1/4	46,118	1/4	33,805	1/4	21,439	1/4	8,969	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	58,320	1/2	45,858	1/2	33,552	1/2	21,179	1/2	8,709	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	58,060	3/4	45,598	3/4	33,299	3/4	20,919	3/4	8,449	3/4		3/4		3/4	3/4		3/4	3/4	
6	57,801	6	45,339	6	33,045	6	20,660	6	8,189	6		6		6	6		6	6	
1/4	57,541	1/4	45,079	1/4	32,792	1/4	20,400	1/4	7,929	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	57,282	1/2	44,820	1/2	32,538	1/2	20,140	1/2	7,669	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	57,022	3/4	44,560	3/4	32,285	3/4	19,880	3/4	7,409	3/4		3/4		3/4	3/4		3/4	3/4	
7	56,762	7	44,300	7	32,032	7	19,620	7	7,149	7		7		7	7		7	7	
1/4	56,503	1/4	44,041	1/4	31,778	1/4	19,361	1/4	6,890	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	56,243	1/2	43,781	1/2	31,525	1/2	19,101	1/2	6,630	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	55,983	3/4	43,521	3/4	31,272	3/4	18,841	3/4	6,370	3/4		3/4		3/4	3/4		3/4	3/4	
8	55,724	8	43,262	8	31,018	8	18,581	8	6,110	8		8		8	8		8	8	
1/4	55,464	1/4	43,002	1/4	30,765	1/4	18,322	1/4	5,851	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	55,205	1/2	42,743	1/2	30,511	1/2	18,062	1/2	5,591	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	54,945	3/4	42,483	3/4	30,258	3/4	17,802	3/4	5,331	3/4		3/4		3/4	3/4		3/4	3/4	
9	54,685	9	42,223	9	30,001	9	17,542	9	5,072	9		9		9	9		9	9	
1/4	54,426	1/4	41,964	1/4	29,745	1/4	17,283	1/4	4,813	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	54,166	1/2	41,704	1/2	29,488	1/2	17,023	1/2	4,554	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	53,906	3/4	41,444	3/4	29,232	3/4	16,763	3/4	4,295	3/4		3/4		3/4	3/4		3/4	3/4	
10	53,647	10	41,185	10	28,972	10	16,503	10	4,037	10		10		10	10		10	10	
1/4	53,387	1/4	40,925	1/4	28,712	1/4	16,244	1/4	3,779	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	53,128	1/2	40,666	1/2	28,452	1/2	15,984	1/2	3,521	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	52,868	3/4	40,406	3/4	28,193	3/4	15,724	3/4	3,264	3/4		3/4		3/4	3/4		3/4	3/4	
11	52,608	11	40,149	11	27,933	11	15,464	11	3,007	11		11		11	11		11	11	
1/4	52,349	1/4	39,893	1/4	27,673	1/4	15,205	1/4	2,751	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	52,089	1/2	39,636	1/2	27,413	1/2	14,945	1/2	2,495	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	51,829	3/4	39,380	3/4	27,154	3/4	14,685	3/4	2,239	3/4		3/4		3/4	3/4		3/4	3/4	

STRAPPED: 03/27/2018 CL
CALCULATED: 03/28/2018 CL
PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "IB 1100"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02"

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	154,193	0	143,991	0	132,965	0	121,939	0	110,913	0	99,887	0	88,860	0	77,834	0	66,808
1/4		1/4	154,097	1/4	143,761	1/4	132,735	1/4	121,709	1/4	110,683	1/4	99,657	1/4	88,631	1/4	77,605	1/4	66,579
1/2		1/2	154,002	1/2	143,531	1/2	132,505	1/2	121,479	1/2	110,453	1/2	99,427	1/2	88,401	1/2	77,375	1/2	66,349
3/4		3/4	153,906	3/4	143,302	3/4	132,276	3/4	121,249	3/4	110,223	3/4	99,197	3/4	88,171	3/4	77,145	3/4	66,119
1		1	153,810	1	143,072	1	132,046	1	121,020	1	109,994	1	98,968	1	87,942	1	76,916	1	65,890
1/4		1/4	153,639	1/4	142,842	1/4	131,816	1/4	120,790	1/4	109,764	1/4	98,738	1/4	87,712	1/4	76,686	1/4	65,660
1/2		1/2	153,469	1/2	142,612	1/2	131,586	1/2	120,560	1/2	109,534	1/2	98,508	1/2	87,482	1/2	76,456	1/2	65,430
3/4		3/4	153,298	3/4	142,383	3/4	131,357	3/4	120,331	3/4	109,305	3/4	98,279	3/4	87,253	3/4	76,226	3/4	65,200
2		2	153,127	2	142,153	2	131,127	2	120,101	2	109,075	2	98,049	2	87,023	2	75,997	2	64,971
1/4		1/4	152,909	1/4	141,923	1/4	130,897	1/4	119,871	1/4	108,845	1/4	97,819	1/4	86,793	1/4	75,767	1/4	64,741
1/2		1/2	152,692	1/2	141,694	1/2	130,668	1/2	119,642	1/2	108,615	1/2	97,589	1/2	86,563	1/2	75,537	1/2	64,511
3/4		3/4	152,474	3/4	141,464	3/4	130,438	3/4	119,412	3/4	108,386	3/4	97,360	3/4	86,334	3/4	75,308	3/4	64,282
3		3	152,256	3	141,234	3	130,208	3	119,182	3	108,156	3	97,130	3	86,104	3	75,078	3	64,052
1/4		1/4	152,027	1/4	141,004	1/4	129,978	1/4	118,952	1/4	107,926	1/4	96,900	1/4	85,874	1/4	74,848	1/4	63,822
1/2		1/2	151,798	1/2	140,775	1/2	129,749	1/2	118,723	1/2	107,697	1/2	96,671	1/2	85,645	1/2	74,619	1/2	63,592
3/4		3/4	151,569	3/4	140,545	3/4	129,519	3/4	118,493	3/4	107,467	3/4	96,441	3/4	85,415	3/4	74,389	3/4	63,363
4		4	151,341	4	140,315	4	129,289	4	118,263	4	107,237	4	96,211	4	85,185	4	74,159	4	63,133
1/4		1/4	151,111	1/4	140,086	1/4	129,060	1/4	118,034	1/4	107,008	1/4	95,981	1/4	84,955	1/4	73,929	1/4	62,903
1/2		1/2	150,882	1/2	139,856	1/2	128,830	1/2	117,804	1/2	106,778	1/2	95,752	1/2	84,726	1/2	73,700	1/2	62,674
3/4		3/4	150,652	3/4	139,626	3/4	128,600	3/4	117,574	3/4	106,548	3/4	95,522	3/4	84,496	3/4	73,470	3/4	62,444
5		5	150,422	5	139,396	5	128,370	5	117,344	5	106,318	5	95,292	5	84,266	5	73,240	5	62,214
1/4		1/4	150,193	1/4	139,167	1/4	128,141	1/4	117,115	1/4	106,089	1/4	95,063	1/4	84,037	1/4	73,011	1/4	61,985
1/2		1/2	149,963	1/2	138,937	1/2	127,911	1/2	116,885	1/2	105,859	1/2	94,833	1/2	83,807	1/2	72,781	1/2	61,755
3/4		3/4	149,733	3/4	138,707	3/4	127,681	3/4	116,655	3/4	105,629	3/4	94,603	3/4	83,577	3/4	72,551	3/4	61,525
6		6	149,504	6	138,478	6	127,452	6	116,426	6	105,400	6	94,374	6	83,347	6	72,321	6	61,295
1/4		1/4	149,274	1/4	138,248	1/4	127,222	1/4	116,196	1/4	105,170	1/4	94,144	1/4	83,118	1/4	72,092	1/4	61,066
1/2		1/2	149,044	1/2	138,018	1/2	126,992	1/2	115,966	1/2	104,940	1/2	93,914	1/2	82,888	1/2	71,862	1/2	60,836
3/4		3/4	148,815	3/4	137,789	3/4	126,762	3/4	115,736	3/4	104,710	3/4	93,684	3/4	82,658	3/4	71,632	3/4	60,606
7		7	148,585	7	137,559	7	126,533	7	115,507	7	104,481	7	93,455	7	82,429	7	71,403	7	60,377
1/4		1/4	148,355	1/4	137,329	1/4	126,303	1/4	115,277	1/4	104,251	1/4	93,225	1/4	82,199	1/4	71,173	1/4	60,147
1/2		1/2	148,125	1/2	137,099	1/2	126,073	1/2	115,047	1/2	104,021	1/2	92,995	1/2	81,969	1/2	70,943	1/2	59,917
3/4		3/4	147,896	3/4	136,870	3/4	125,844	3/4	114,818	3/4	103,792	3/4	92,766	3/4	81,740	3/4	70,713	3/4	59,687
8		8	147,666	8	136,640	8	125,614	8	114,588	8	103,562	8	92,536	8	81,510	8	70,484	8	59,458
1/4		1/4	147,436	1/4	136,410	1/4	125,384	1/4	114,358	1/4	103,332	1/4	92,306	1/4	81,280	1/4	70,254	1/4	59,228
1/2		1/2	147,207	1/2	136,181	1/2	125,155	1/2	114,128	1/2	103,102	1/2	92,076	1/2	81,050	1/2	70,024	1/2	58,998
3/4		3/4	146,977	3/4	135,951	3/4	124,925	3/4	113,899	3/4	102,873	3/4	91,847	3/4	80,821	3/4	69,795	3/4	58,769
9		9	146,747	9	135,721	9	124,695	9	113,669	9	102,643	9	91,617	9	80,591	9	69,565	9	58,539
1/4		1/4	146,517	1/4	135,491	1/4	124,465	1/4	113,439	1/4	102,413	1/4	91,387	1/4	80,361	1/4	69,335	1/4	58,309
1/2		1/2	146,288	1/2	135,262	1/2	124,236	1/2	113,210	1/2	102,184	1/2	91,158	1/2	80,132	1/2	69,106	1/2	58,079
3/4		3/4	146,058	3/4	135,032	3/4	124,006	3/4	112,980	3/4	101,954	3/4	90,928	3/4	79,902	3/4	68,876	3/4	57,850
10		10	145,828	10	134,802	10	123,776	10	112,750	10	101,724	10	90,698	10	79,672	10	68,646	10	57,620
1/4		1/4	145,599	1/4	134,573	1/4	123,547	1/4	112,521	1/4	101,494	1/4	90,468	1/4	79,442	1/4	68,416	1/4	57,390
1/2		1/2	145,369	1/2	134,343	1/2	123,317	1/2	112,291	1/2	101,265	1/2	90,239	1/2	79,213	1/2	68,187	1/2	57,161
3/4		3/4	145,139	3/4	134,113	3/4	123,087	3/4	112,061	3/4	101,035	3/4	90,009	3/4	78,983	3/4	67,957	3/4	56,931
11		11	144,910	11	133,883	11	122,857	11	111,831	11	100,805	11	89,779	11	78,753	11	67,727	11	56,701
1/4		1/4	144,680	1/4	133,654	1/4	122,628	1/4	111,602	1/4	100,576	1/4	89,550	1/4	78,524	1/4	67,498	1/4	56,472
1/2		1/2	144,450	1/2	133,424	1/2	122,398	1/2	111,372	1/2	100,346	1/2	89,320	1/2	78,294	1/2	67,268	1/2	56,242
3/4		3/4	144,220	3/4	133,194	3/4	122,168	3/4	111,142	3/4	100,116	3/4	89,090	3/4	78,064	3/4	67,038	3/4	56,012

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "IB 1100"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02"

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	55,782	0	44,756	0	33,768	0	22,956	0	11,930	0	1,021	0		0		0			
1/4	55,553	1/4	44,527	1/4	33,544	1/4	22,726	1/4	11,700	1/4	868	1/4		1/4		1/4		1/4	
1/2	55,323	1/2	44,297	1/2	33,321	1/2	22,496	1/2	11,471	1/2	715	1/2		1/2		1/2		1/2	
3/4	55,093	3/4	44,067	3/4	33,097	3/4	22,266	3/4	11,241	3/4	562	3/4		3/4		3/4		3/4	
1	54,864	1	43,838	1	32,874	1	22,037	1	11,011	1	409	1		1		1		1	
1/4	54,634	1/4	43,608	1/4	32,650	1/4	21,807	1/4	10,781	1/4	333	1/4		1/4		1/4		1/4	
1/2	54,404	1/2	43,378	1/2	32,427	1/2	21,577	1/2	10,552	1/2	256	1/2		1/2		1/2		1/2	
3/4	54,174	3/4	43,148	3/4	32,204	3/4	21,348	3/4	10,322	3/4	179	3/4		3/4		3/4		3/4	
2	53,945	2	42,919	2	31,980	2	21,118	2	10,092	2	103	2		2		2		2	
1/4	53,715	1/4	42,689	1/4	31,757	1/4	20,888	1/4	9,863	1/4		1/4		1/4		1/4		1/4	
1/2	53,485	1/2	42,459	1/2	31,533	1/2	20,659	1/2	9,633	1/2		1/2		1/2		1/2		1/2	
3/4	53,256	3/4	42,230	3/4	31,310	3/4	20,429	3/4	9,403	3/4		3/4		3/4		3/4		3/4	
3	53,026	3	42,000	3	31,087	3	20,199	3	9,174	3		3		3		3		3	
1/4	52,796	1/4	41,770	1/4	30,863	1/4	19,969	1/4	8,944	1/4		1/4		1/4		1/4		1/4	
1/2	52,566	1/2	41,540	1/2	30,640	1/2	19,740	1/2	8,714	1/2		1/2		1/2		1/2		1/2	
3/4	52,337	3/4	41,311	3/4	30,416	3/4	19,510	3/4	8,484	3/4		3/4		3/4		3/4		3/4	
4	52,107	4	41,081	4	30,193	4	19,280	4	8,255	4		4		4		4		4	
1/4	51,877	1/4	40,851	1/4	29,969	1/4	19,051	1/4	8,025	1/4		1/4		1/4		1/4		1/4	
1/2	51,648	1/2	40,622	1/2	29,746	1/2	18,821	1/2	7,795	1/2		1/2		1/2		1/2		1/2	
3/4	51,418	3/4	40,392	3/4	29,523	3/4	18,591	3/4	7,566	3/4		3/4		3/4		3/4		3/4	
5	51,188	5	40,162	5	29,299	5	18,362	5	7,336	5		5		5		5		5	
1/4	50,958	1/4	39,932	1/4	29,076	1/4	18,132	1/4	7,106	1/4		1/4		1/4		1/4		1/4	
1/2	50,729	1/2	39,703	1/2	28,852	1/2	17,902	1/2	6,877	1/2		1/2		1/2		1/2		1/2	
3/4	50,499	3/4	39,473	3/4	28,629	3/4	17,672	3/4	6,647	3/4		3/4		3/4		3/4		3/4	
6	50,269	6	39,243	6	28,406	6	17,443	6	6,417	6		6		6		6		6	
1/4	50,040	1/4	39,014	1/4	28,182	1/4	17,213	1/4	6,188	1/4		1/4		1/4		1/4		1/4	
1/2	49,810	1/2	38,784	1/2	27,959	1/2	16,983	1/2	5,958	1/2		1/2		1/2		1/2		1/2	
3/4	49,580	3/4	38,554	3/4	27,735	3/4	16,754	3/4	5,729	3/4		3/4		3/4		3/4		3/4	
7	49,351	7	38,324	7	27,512	7	16,524	7	5,499	7		7		7		7		7	
1/4	49,121	1/4	38,095	1/4	27,288	1/4	16,294	1/4	5,270	1/4		1/4		1/4		1/4		1/4	
1/2	48,891	1/2	37,865	1/2	27,065	1/2	16,065	1/2	5,041	1/2		1/2		1/2		1/2		1/2	
3/4	48,661	3/4	37,635	3/4	26,842	3/4	15,835	3/4	4,811	3/4		3/4		3/4		3/4		3/4	
8	48,432	8	37,406	8	26,618	8	15,605	8	4,582	8		8		8		8		8	
1/4	48,202	1/4	37,176	1/4	26,392	1/4	15,375	1/4	4,354	1/4		1/4		1/4		1/4		1/4	
1/2	47,972	1/2	36,946	1/2	26,165	1/2	15,146	1/2	4,125	1/2		1/2		1/2		1/2		1/2	
3/4	47,743	3/4	36,717	3/4	25,938	3/4	14,916	3/4	3,896	3/4		3/4		3/4		3/4		3/4	
9	47,513	9	36,487	9	25,712	9	14,686	9	3,668	9		9		9		9		9	
1/4	47,283	1/4	36,257	1/4	25,482	1/4	14,457	1/4	3,440	1/4		1/4		1/4		1/4		1/4	
1/2	47,053	1/2	36,027	1/2	25,253	1/2	14,227	1/2	3,212	1/2		1/2		1/2		1/2		1/2	
3/4	46,824	3/4	35,798	3/4	25,023	3/4	13,997	3/4	2,985	3/4		3/4		3/4		3/4		3/4	
10	46,594	10	35,568	10	24,793	10	13,768	10	2,757	10		10		10		10		10	
1/4	46,364	1/4	35,341	1/4	24,563	1/4	13,538	1/4	2,531	1/4		1/4		1/4		1/4		1/4	
1/2	46,135	1/2	35,115	1/2	24,334	1/2	13,308	1/2	2,305	1/2		1/2		1/2		1/2		1/2	
3/4	45,905	3/4	34,888	3/4	24,104	3/4	13,078	3/4	2,079	3/4		3/4		3/4		3/4		3/4	
11	45,675	11	34,662	11	23,874	11	12,849	11	1,853	11		11		11		11		11	
1/4	45,445	1/4	34,438	1/4	23,645	1/4	12,619	1/4	1,645	1/4		1/4		1/4		1/4		1/4	
1/2	45,216	1/2	34,215	1/2	23,415	1/2	12,389	1/2	1,437	1/2		1/2		1/2		1/2		1/2	
3/4	44,986	3/4	33,991	3/4	23,185	3/4	12,160	3/4	1,229	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 03/27/2018 CL
CALCULATED: 03/28/2018 CL
PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "IB 1100"

3 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		0	144,080	0	133,135	0	122,190	0	111,245	0	100,299	0	89,354	0	78,409	0	67,463
1/4		1/4		1/4	143,852	1/4	132,907	1/4	121,962	1/4	111,017	1/4	100,071	1/4	89,126	1/4	78,181	1/4	67,235
1/2		1/2		1/2	143,624	1/2	132,679	1/2	121,734	1/2	110,789	1/2	99,843	1/2	88,898	1/2	77,953	1/2	67,007
3/4		3/4		3/4	143,396	3/4	132,451	3/4	121,506	3/4	110,561	3/4	99,615	3/4	88,670	3/4	77,725	3/4	66,779
1		1	153,296	1	143,168	1	132,223	1	121,278	1	110,333	1	99,387	1	88,442	1	77,497	1	66,551
1/4		1/4	153,201	1/4	142,940	1/4	131,995	1/4	121,050	1/4	110,104	1/4	99,159	1/4	88,214	1/4	77,269	1/4	66,323
1/2		1/2	153,106	1/2	142,712	1/2	131,767	1/2	120,822	1/2	109,876	1/2	98,931	1/2	87,986	1/2	77,041	1/2	66,095
3/4		3/4	153,011	3/4	142,484	3/4	131,539	3/4	120,594	3/4	109,648	3/4	98,703	3/4	87,758	3/4	76,813	3/4	65,867
2		2	152,916	2	142,256	2	131,311	2	120,366	2	109,420	2	98,475	2	87,530	2	76,585	2	65,639
1/4		1/4	152,747	1/4	142,028	1/4	131,083	1/4	120,138	1/4	109,192	1/4	98,247	1/4	87,302	1/4	76,356	1/4	65,411
1/2		1/2	152,577	1/2	141,800	1/2	130,855	1/2	119,910	1/2	108,964	1/2	98,019	1/2	87,074	1/2	76,128	1/2	65,183
3/4		3/4	152,408	3/4	141,572	3/4	130,627	3/4	119,682	3/4	108,736	3/4	97,791	3/4	86,846	3/4	75,900	3/4	64,955
3		3	152,238	3	141,344	3	130,399	3	119,454	3	108,508	3	97,563	3	86,618	3	75,672	3	64,727
1/4		1/4	152,022	1/4	141,116	1/4	130,171	1/4	119,226	1/4	108,280	1/4	97,335	1/4	86,390	1/4	75,444	1/4	64,499
1/2		1/2	151,806	1/2	140,888	1/2	129,943	1/2	118,998	1/2	108,052	1/2	97,107	1/2	86,162	1/2	75,216	1/2	64,271
3/4		3/4	151,589	3/4	140,660	3/4	129,715	3/4	118,770	3/4	107,824	3/4	96,879	3/4	85,934	3/4	74,988	3/4	64,043
4		4	151,373	4	140,432	4	129,487	4	118,541	4	107,596	4	96,651	4	85,706	4	74,760	4	63,815
1/4		1/4	151,146	1/4	140,204	1/4	129,259	1/4	118,313	1/4	107,368	1/4	96,423	1/4	85,478	1/4	74,532	1/4	63,587
1/2		1/2	150,919	1/2	139,976	1/2	129,031	1/2	118,085	1/2	107,140	1/2	96,195	1/2	85,250	1/2	74,304	1/2	63,359
3/4		3/4	150,692	3/4	139,748	3/4	128,803	3/4	117,857	3/4	106,912	3/4	95,967	3/4	85,022	3/4	74,076	3/4	63,131
5		5	150,464	5	139,520	5	128,575	5	117,629	5	106,684	5	95,739	5	84,793	5	73,848	5	62,903
1/4		1/4	150,237	1/4	139,292	1/4	128,347	1/4	117,401	1/4	106,456	1/4	95,511	1/4	84,565	1/4	73,620	1/4	62,675
1/2		1/2	150,009	1/2	139,064	1/2	128,119	1/2	117,173	1/2	106,228	1/2	95,283	1/2	84,337	1/2	73,392	1/2	62,447
3/4		3/4	149,781	3/4	138,836	3/4	127,891	3/4	116,945	3/4	106,000	3/4	95,055	3/4	84,109	3/4	73,164	3/4	62,219
6		6	149,553	6	138,608	6	127,663	6	116,717	6	105,772	6	94,827	6	83,881	6	72,936	6	61,991
1/4		1/4	149,325	1/4	138,380	1/4	127,435	1/4	116,489	1/4	105,544	1/4	94,599	1/4	83,653	1/4	72,708	1/4	61,763
1/2		1/2	149,097	1/2	138,152	1/2	127,206	1/2	116,261	1/2	105,316	1/2	94,371	1/2	83,425	1/2	72,480	1/2	61,535
3/4		3/4	148,869	3/4	137,924	3/4	126,978	3/4	116,033	3/4	105,088	3/4	94,143	3/4	83,197	3/4	72,252	3/4	61,307
7		7	148,641	7	137,696	7	126,750	7	115,805	7	104,860	7	93,915	7	82,969	7	72,024	7	61,079
1/4		1/4	148,413	1/4	137,468	1/4	126,522	1/4	115,577	1/4	104,632	1/4	93,687	1/4	82,741	1/4	71,796	1/4	60,851
1/2		1/2	148,185	1/2	137,240	1/2	126,294	1/2	115,349	1/2	104,404	1/2	93,459	1/2	82,513	1/2	71,568	1/2	60,623
3/4		3/4	147,957	3/4	137,012	3/4	126,066	3/4	115,121	3/4	104,176	3/4	93,230	3/4	82,285	3/4	71,340	3/4	60,395
8		8	147,729	8	136,784	8	125,838	8	114,893	8	103,948	8	93,002	8	82,057	8	71,112	8	60,167
1/4		1/4	147,501	1/4	136,556	1/4	125,610	1/4	114,665	1/4	103,720	1/4	92,774	1/4	81,829	1/4	70,884	1/4	59,939
1/2		1/2	147,273	1/2	136,328	1/2	125,382	1/2	114,437	1/2	103,492	1/2	92,546	1/2	81,601	1/2	70,656	1/2	59,711
3/4		3/4	147,045	3/4	136,100	3/4	125,154	3/4	114,209	3/4	103,264	3/4	92,318	3/4	81,373	3/4	70,428	3/4	59,483
9		9	146,817	9	135,872	9	124,926	9	113,981	9	103,036	9	92,090	9	81,145	9	70,200	9	59,254
1/4		1/4	146,589	1/4	135,643	1/4	124,698	1/4	113,753	1/4	102,808	1/4	91,862	1/4	80,917	1/4	69,972	1/4	59,026
1/2		1/2	146,361	1/2	135,415	1/2	124,470	1/2	113,525	1/2	102,580	1/2	91,634	1/2	80,689	1/2	69,744	1/2	58,798
3/4		3/4	146,133	3/4	135,187	3/4	124,242	3/4	113,297	3/4	102,352	3/4	91,406	3/4	80,461	3/4	69,516	3/4	58,570
10		10	145,905	10	134,959	10	124,014	10	113,069	10	102,124	10	91,178	10	80,233	10	69,288	10	58,342
1/4		1/4	145,677	1/4	134,731	1/4	123,786	1/4	112,841	1/4	101,896	1/4	90,950	1/4	80,005	1/4	69,060	1/4	58,114
1/2		1/2	145,449	1/2	134,503	1/2	123,558	1/2	112,613	1/2	101,667	1/2	90,722	1/2	79,777	1/2	68,832	1/2	57,886
3/4		3/4	145,221	3/4	134,275	3/4	123,330	3/4	112,385	3/4	101,439	3/4	90,494	3/4	79,549	3/4	68,604	3/4	57,658
11		11	144,993	11	134,047	11	123,102	11	112,157	11	101,211	11	90,266	11	79,321	11	68,376	11	57,430
1/4		1/4	144,765	1/4	133,819	1/4	122,874	1/4	111,929	1/4	100,983	1/4	90,038	1/4	79,093	1/4	68,148	1/4	57,202
1/2		1/2	144,537	1/2	133,591	1/2	122,646	1/2	111,701	1/2	100,755	1/2	89,810	1/2	78,865	1/2	67,920	1/2	56,974
3/4		3/4	144,309	3/4	133,363	3/4	122,418	3/4	111,473	3/4	100,527	3/4	89,582	3/4	78,637	3/4	67,691	3/4	56,746

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 1100"

3 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	56,518	0	45,573	0	34,628	0	23,700	0	12,755	0	1,840	0		0		0		0	
1/4	56,290	1/4	45,345	1/4	34,401	1/4	23,472	1/4	12,527	1/4	1,634	1/4		1/4		1/4		1/4	
1/2	56,062	1/2	45,117	1/2	34,173	1/2	23,244	1/2	12,299	1/2	1,427	1/2		1/2		1/2		1/2	
3/4	55,834	3/4	44,889	3/4	33,945	3/4	23,016	3/4	12,071	3/4	1,221	3/4		3/4		3/4		3/4	
1	55,606	1	44,661	1	33,718	1	22,788	1	11,843	1	1,014	1		1		1		1	
1/4	55,378	1/4	44,433	1/4	33,490	1/4	22,560	1/4	11,615	1/4	862	1/4		1/4		1/4		1/4	
1/2	55,150	1/2	44,205	1/2	33,263	1/2	22,332	1/2	11,387	1/2	710	1/2		1/2		1/2		1/2	
3/4	54,922	3/4	43,977	3/4	33,035	3/4	22,104	3/4	11,159	3/4	559	3/4		3/4		3/4		3/4	
2	54,694	2	43,749	2	32,807	2	21,876	2	10,931	2	407	2		2		2		2	
1/4	54,466	1/4	43,521	1/4	32,580	1/4	21,648	1/4	10,703	1/4	331	1/4		1/4		1/4		1/4	
1/2	54,238	1/2	43,293	1/2	32,352	1/2	21,420	1/2	10,475	1/2	255	1/2		1/2		1/2		1/2	
3/4	54,010	3/4	43,065	3/4	32,125	3/4	21,192	3/4	10,247	3/4	179	3/4		3/4		3/4		3/4	
3	53,782	3	42,837	3	31,897	3	20,964	3	10,019	3	103	3		3		3		3	
1/4	53,554	1/4	42,609	1/4	31,670	1/4	20,736	1/4	9,791	1/4		1/4		1/4		1/4		1/4	
1/2	53,326	1/2	42,380	1/2	31,442	1/2	20,508	1/2	9,563	1/2		1/2		1/2		1/2		1/2	
3/4	53,098	3/4	42,152	3/4	31,214	3/4	20,280	3/4	9,335	3/4		3/4		3/4		3/4		3/4	
4	52,870	4	41,924	4	30,987	4	20,052	4	9,107	4		4		4		4		4	
1/4	52,642	1/4	41,696	1/4	30,759	1/4	19,824	1/4	8,879	1/4		1/4		1/4		1/4		1/4	
1/2	52,414	1/2	41,468	1/2	30,532	1/2	19,596	1/2	8,651	1/2		1/2		1/2		1/2		1/2	
3/4	52,186	3/4	41,240	3/4	30,304	3/4	19,368	3/4	8,423	3/4		3/4		3/4		3/4		3/4	
5	51,958	5	41,012	5	30,077	5	19,140	5	8,195	5		5		5		5		5	
1/4	51,730	1/4	40,784	1/4	29,849	1/4	18,912	1/4	7,967	1/4		1/4		1/4		1/4		1/4	
1/2	51,502	1/2	40,556	1/2	29,621	1/2	18,684	1/2	7,739	1/2		1/2		1/2		1/2		1/2	
3/4	51,274	3/4	40,328	3/4	29,394	3/4	18,456	3/4	7,511	3/4		3/4		3/4		3/4		3/4	
6	51,046	6	40,100	6	29,166	6	18,228	6	7,283	6		6		6		6		6	
1/4	50,817	1/4	39,872	1/4	28,939	1/4	18,000	1/4	7,055	1/4		1/4		1/4		1/4		1/4	
1/2	50,589	1/2	39,644	1/2	28,711	1/2	17,772	1/2	6,827	1/2		1/2		1/2		1/2		1/2	
3/4	50,361	3/4	39,416	3/4	28,484	3/4	17,544	3/4	6,599	3/4		3/4		3/4		3/4		3/4	
7	50,133	7	39,188	7	28,256	7	17,316	7	6,371	7		7		7		7		7	
1/4	49,905	1/4	38,960	1/4	28,028	1/4	17,088	1/4	6,143	1/4		1/4		1/4		1/4		1/4	
1/2	49,677	1/2	38,732	1/2	27,801	1/2	16,859	1/2	5,915	1/2		1/2		1/2		1/2		1/2	
3/4	49,449	3/4	38,504	3/4	27,573	3/4	16,631	3/4	5,687	3/4		3/4		3/4		3/4		3/4	
8	49,221	8	38,276	8	27,346	8	16,403	8	5,459	8		8		8		8		8	
1/4	48,993	1/4	38,048	1/4	27,118	1/4	16,175	1/4	5,232	1/4		1/4		1/4		1/4		1/4	
1/2	48,765	1/2	37,820	1/2	26,891	1/2	15,947	1/2	5,004	1/2		1/2		1/2		1/2		1/2	
3/4	48,537	3/4	37,592	3/4	26,663	3/4	15,719	3/4	4,777	3/4		3/4		3/4		3/4		3/4	
9	48,309	9	37,364	9	26,435	9	15,491	9	4,549	9		9		9		9		9	
1/4	48,081	1/4	37,136	1/4	26,208	1/4	15,263	1/4	4,322	1/4		1/4		1/4		1/4		1/4	
1/2	47,853	1/2	36,908	1/2	25,980	1/2	15,035	1/2	4,095	1/2		1/2		1/2		1/2		1/2	
3/4	47,625	3/4	36,680	3/4	25,752	3/4	14,807	3/4	3,868	3/4		3/4		3/4		3/4		3/4	
10	47,397	10	36,452	10	25,524	10	14,579	10	3,641	10		10		10		10		10	
1/4	47,169	1/4	36,224	1/4	25,296	1/4	14,351	1/4	3,415	1/4		1/4		1/4		1/4		1/4	
1/2	46,941	1/2	35,996	1/2	25,068	1/2	14,123	1/2	3,189	1/2		1/2		1/2		1/2		1/2	
3/4	46,713	3/4	35,768	3/4	24,840	3/4	13,895	3/4	2,963	3/4		3/4		3/4		3/4		3/4	
11	46,485	11	35,540	11	24,612	11	13,667	11	2,737	11		11		11		11		11	
1/4	46,257	1/4	35,312	1/4	24,384	1/4	13,439	1/4	2,513	1/4		1/4		1/4		1/4		1/4	
1/2	46,029	1/2	35,084	1/2	24,156	1/2	13,211	1/2	2,289	1/2		1/2		1/2		1/2		1/2	
3/4	45,801	3/4	34,856	3/4	23,928	3/4	12,983	3/4	2,064	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 03/27/2018 CL
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PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2018

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