



BARGE "IB 1099"

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	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8
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"

December 3, 2017

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

<http://www.pmacorp.net>



BARGE "IB 1099"

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	0	157,912	0	147,238	0	136,564	0	125,890	0	114,241	0	101,762	0	89,283	0	76,804		
1/4	1/4	1/4	157,689	1/4	147,015	1/4	136,342	1/4	125,668	1/4	113,981	1/4	101,502	1/4	89,023	1/4	76,544		
1/2	1/2	1/2	157,467	1/2	146,793	1/2	136,119	1/2	125,445	1/2	113,721	1/2	101,242	1/2	88,763	1/2	76,284		
3/4	3/4	3/4	157,245	3/4	146,571	3/4	135,897	3/4	125,223	3/4	113,461	3/4	100,982	3/4	88,503	3/4	76,024		
1	1	1	166,838	1	157,022	1	146,348	1	135,675	1	125,001	1	113,201	1	100,722	1	88,243	1	75,764
1/4	1/4	1/4	166,749	1/4	156,800	1/4	146,126	1/4	135,452	1/4	124,778	1/4	112,941	1/4	100,462	1/4	87,983	1/4	75,504
1/2	1/2	1/2	166,659	1/2	156,577	1/2	145,904	1/2	135,230	1/2	124,556	1/2	112,681	1/2	100,202	1/2	87,723	1/2	75,244
3/4	3/4	3/4	166,570	3/4	156,355	3/4	145,681	3/4	135,007	3/4	124,334	3/4	112,421	3/4	99,942	3/4	87,463	3/4	74,984
2	2	2	166,480	2	156,133	2	145,459	2	134,785	2	124,111	2	112,161	2	99,682	2	87,204	2	74,724
1/4	1/4	1/4	166,325	1/4	155,910	1/4	145,236	1/4	134,563	1/4	123,889	1/4	111,901	1/4	99,422	1/4	86,944	1/4	74,464
1/2	1/2	1/2	166,169	1/2	155,688	1/2	145,014	1/2	134,340	1/2	123,666	1/2	111,641	1/2	99,162	1/2	86,684	1/2	74,205
3/4	3/4	3/4	166,014	3/4	155,466	3/4	144,792	3/4	134,118	3/4	123,444	3/4	111,381	3/4	98,902	3/4	86,424	3/4	73,945
3	3	3	165,858	3	155,243	3	144,569	3	133,896	3	123,222	3	111,121	3	98,642	3	86,164	3	73,685
1/4	1/4	1/4	165,650	1/4	155,021	1/4	144,347	1/4	133,673	1/4	122,999	1/4	110,861	1/4	98,382	1/4	85,904	1/4	73,425
1/2	1/2	1/2	165,441	1/2	154,798	1/2	144,125	1/2	133,451	1/2	122,777	1/2	110,601	1/2	98,122	1/2	85,644	1/2	73,165
3/4	3/4	3/4	165,232	3/4	154,576	3/4	143,902	3/4	133,228	3/4	122,555	3/4	110,341	3/4	97,862	3/4	85,384	3/4	72,905
4	4	4	165,023	4	154,354	4	143,680	4	133,006	4	122,332	4	110,081	4	97,602	4	85,124	4	72,645
1/4	1/4	1/4	164,801	1/4	154,131	1/4	143,458	1/4	132,784	1/4	122,110	1/4	109,821	1/4	97,342	1/4	84,864	1/4	72,385
1/2	1/2	1/2	164,580	1/2	153,909	1/2	143,235	1/2	132,561	1/2	121,888	1/2	109,561	1/2	97,083	1/2	84,604	1/2	72,125
3/4	3/4	3/4	164,359	3/4	153,687	3/4	143,013	3/4	132,339	3/4	121,666	3/4	109,301	3/4	96,823	3/4	84,344	3/4	71,865
5	5	5	164,137	5	153,464	5	142,790	5	132,117	5	121,444	5	109,041	5	96,563	5	84,084	5	71,605
1/4	1/4	1/4	163,915	1/4	153,242	1/4	142,568	1/4	131,894	1/4	121,203	1/4	108,781	1/4	96,303	1/4	83,824	1/4	71,345
1/2	1/2	1/2	163,693	1/2	153,020	1/2	142,346	1/2	131,672	1/2	120,962	1/2	108,521	1/2	96,043	1/2	83,564	1/2	71,085
3/4	3/4	3/4	163,471	3/4	152,797	3/4	142,123	3/4	131,449	3/4	120,721	3/4	108,261	3/4	95,783	3/4	83,304	3/4	70,826
6	6	6	163,249	6	152,575	6	141,901	6	131,227	6	120,480	6	108,001	6	95,523	6	83,044	6	70,566
1/4	1/4	1/4	163,026	1/4	152,352	1/4	141,679	1/4	131,005	1/4	120,220	1/4	107,741	1/4	95,263	1/4	82,784	1/4	70,307
1/2	1/2	1/2	162,804	1/2	152,130	1/2	141,456	1/2	130,782	1/2	119,960	1/2	107,481	1/2	95,003	1/2	82,524	1/2	70,047
3/4	3/4	3/4	162,581	3/4	151,908	3/4	141,234	3/4	130,560	3/4	119,700	3/4	107,221	3/4	94,743	3/4	82,264	3/4	69,788
7	7	7	162,359	7	151,685	7	141,011	7	130,338	7	119,440	7	106,961	7	94,483	7	82,004	7	69,528
1/4	1/4	1/4	162,137	1/4	151,463	1/4	140,789	1/4	130,115	1/4	119,180	1/4	106,701	1/4	94,223	1/4	81,744	1/4	69,269
1/2	1/2	1/2	161,914	1/2	151,241	1/2	140,567	1/2	129,893	1/2	118,920	1/2	106,441	1/2	93,963	1/2	81,484	1/2	69,010
3/4	3/4	3/4	161,692	3/4	151,018	3/4	140,344	3/4	129,670	3/4	118,660	3/4	106,181	3/4	93,703	3/4	81,224	3/4	68,750
8	8	8	161,470	8	150,796	8	140,122	8	129,448	8	118,400	8	105,921	8	93,443	8	80,964	8	68,491
1/4	1/4	1/4	161,247	1/4	150,573	1/4	139,900	1/4	129,226	1/4	118,140	1/4	105,661	1/4	93,183	1/4	80,704	1/4	68,232
1/2	1/2	1/2	161,025	1/2	150,351	1/2	139,677	1/2	129,003	1/2	117,880	1/2	105,401	1/2	92,923	1/2	80,444	1/2	67,972
3/4	3/4	3/4	160,803	3/4	150,129	3/4	139,455	3/4	128,781	3/4	117,620	3/4	105,141	3/4	92,663	3/4	80,184	3/4	67,713
9	9	9	160,580	9	149,906	9	139,232	9	128,559	9	117,360	9	104,881	9	92,403	9	79,924	9	67,453
1/4	1/4	1/4	160,358	1/4	149,684	1/4	139,010	1/4	128,336	1/4	117,100	1/4	104,621	1/4	92,143	1/4	79,664	1/4	67,194
1/2	1/2	1/2	160,135	1/2	149,462	1/2	138,788	1/2	128,114	1/2	116,840	1/2	104,361	1/2	91,883	1/2	79,404	1/2	66,935
3/4	3/4	3/4	159,913	3/4	149,239	3/4	138,565	3/4	127,891	3/4	116,580	3/4	104,101	3/4	91,623	3/4	79,144	3/4	66,675
10	10	10	159,691	10	149,017	10	138,343	10	127,669	10	116,320	10	103,841	10	91,363	10	78,884	10	66,416
1/4	1/4	1/4	159,468	1/4	148,794	1/4	138,121	1/4	127,447	1/4	116,060	1/4	103,581	1/4	91,103	1/4	78,624	1/4	66,157
1/2	1/2	1/2	159,246	1/2	148,572	1/2	137,898	1/2	127,224	1/2	115,800	1/2	103,321	1/2	90,843	1/2	78,364	1/2	65,897
3/4	3/4	3/4	159,024	3/4	148,350	3/4	137,676	3/4	127,002	3/4	115,540	3/4	103,061	3/4	90,583	3/4	78,104	3/4	65,638
11	11	11	158,801	11	148,127	11	137,453	11	126,780	11	115,280	11	102,801	11	90,323	11	77,844	11	65,378
1/4	1/4	1/4	158,579	1/4	147,905	1/4	137,231	1/4	126,557	1/4	115,020	1/4	102,542	1/4	90,063	1/4	77,584	1/4	65,119
1/2	1/2	1/2	158,356	1/2	147,683	1/2	137,009	1/2	126,335	1/2	114,760	1/2	102,282	1/2	89,803	1/2	77,324	1/2	64,860
3/4	3/4	3/4	158,134	3/4	147,460	3/4	136,786	3/4	126,113	3/4	114,501	3/4	102,022	3/4	89,543	3/4	77,064	3/4	64,600

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'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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BARGE "IB 1099"

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	64,341	0	51,875	0	39,414	0	27,177	0	14,698	0	2,241	0		0		0		0	
1/4	64,082	1/4	51,615	1/4	39,161	1/4	26,917	1/4	14,438	1/4	2,005	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,822	1/2	51,355	1/2	38,907	1/2	26,657	1/2	14,178	1/2	1,770	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,563	3/4	51,095	3/4	38,653	3/4	26,397	3/4	13,918	3/4	1,534	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	63,303	1	50,835	1	38,400	1	26,137	1	13,658	1	1,298	1	1	1	1	1	1	1	1
1/4	63,044	1/4	50,575	1/4	38,146	1/4	25,877	1/4	13,398	1/4	1,124	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,785	1/2	50,316	1/2	37,893	1/2	25,617	1/2	13,138	1/2	951	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,525	3/4	50,056	3/4	37,639	3/4	25,357	3/4	12,878	3/4	777	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	62,266	2	49,796	2	37,385	2	25,097	2	12,618	2	604	2	2	2	2	2	2	2	2
1/4	62,007	1/4	49,536	1/4	37,132	1/4	24,837	1/4	12,358	1/4	517	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,747	1/2	49,276	1/2	36,878	1/2	24,577	1/2	12,098	1/2	430	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,488	3/4	49,016	3/4	36,624	3/4	24,317	3/4	11,838	3/4	343	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	61,228	3	48,756	3	36,371	3	24,057	3	11,578	3	257	3	3	3	3	3	3	3	3
1/4	60,969	1/4	48,497	1/4	36,117	1/4	23,797	1/4	11,318	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,709	1/2	48,237	1/2	35,864	1/2	23,537	1/2	11,058	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,450	3/4	47,977	3/4	35,610	3/4	23,278	3/4	10,798	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	60,190	4	47,717	4	35,356	4	23,018	4	10,538	4	4	4	4	4	4	4	4	4	4
1/4	59,930	1/4	47,457	1/4	35,103	1/4	22,758	1/4	10,278	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,670	1/2	47,197	1/2	34,849	1/2	22,498	1/2	10,018	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,410	3/4	46,938	3/4	34,596	3/4	22,238	3/4	9,758	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	59,151	5	46,678	5	34,342	5	21,978	5	9,497	5	5	5	5	5	5	5	5	5	5
1/4	58,891	1/4	46,418	1/4	34,088	1/4	21,718	1/4	9,237	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,631	1/2	46,158	1/2	33,835	1/2	21,458	1/2	8,977	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,371	3/4	45,898	3/4	33,581	3/4	21,198	3/4	8,717	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	58,111	6	45,638	6	33,328	6	20,938	6	8,456	6	6	6	6	6	6	6	6	6	6
1/4	57,851	1/4	45,378	1/4	33,074	1/4	20,678	1/4	8,196	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,591	1/2	45,119	1/2	32,820	1/2	20,418	1/2	7,936	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,332	3/4	44,859	3/4	32,567	3/4	20,158	3/4	7,676	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	57,072	7	44,599	7	32,313	7	19,898	7	7,416	7	7	7	7	7	7	7	7	7	7
1/4	56,812	1/4	44,339	1/4	32,060	1/4	19,638	1/4	7,156	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,552	1/2	44,079	1/2	31,806	1/2	19,378	1/2	6,896	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,292	3/4	43,819	3/4	31,552	3/4	19,118	3/4	6,636	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	56,032	8	43,559	8	31,299	8	18,858	8	6,376	8	8	8	8	8	8	8	8	8	8
1/4	55,772	1/4	43,300	1/4	31,045	1/4	18,598	1/4	6,116	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,513	1/2	43,040	1/2	30,792	1/2	18,338	1/2	5,856	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,253	3/4	42,780	3/4	30,538	3/4	18,078	3/4	5,596	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	54,993	9	42,520	9	30,284	9	17,818	9	5,336	9	9	9	9	9	9	9	9	9	9
1/4	54,733	1/4	42,260	1/4	30,028	1/4	17,558	1/4	5,077	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,473	1/2	42,000	1/2	29,771	1/2	17,298	1/2	4,818	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,213	3/4	41,741	3/4	29,514	3/4	17,038	3/4	4,558	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	53,954	10	41,481	10	29,257	10	16,778	10	4,299	10	10	10	10	10	10	10	10	10	10
1/4	53,694	1/4	41,221	1/4	28,997	1/4	16,518	1/4	4,041	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,434	1/2	40,961	1/2	28,737	1/2	16,258	1/2	3,783	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,174	3/4	40,701	3/4	28,477	3/4	15,998	3/4	3,525	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	52,914	11	40,441	11	28,217	11	15,738	11	3,267	11	11	11	11	11	11	11	11	11	11
1/4	52,654	1/4	40,185	1/4	27,957	1/4	15,478	1/4	3,010	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,394	1/2	39,928	1/2	27,697	1/2	15,218	1/2	2,754	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,135	3/4	39,671	3/4	27,437	3/4	14,958	3/4	2,498	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 12/01/2017 SW
CALCULATED: 12/02/2017 CL
PRINTED: 12/03/2017 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2017

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



BARGE "IB 1099"

2 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	145,005	0	133,954	0	122,903	0	111,852	0	100,802	0	89,751	0	78,700	0	67,649		
1/4	1/4	1/4	144,775	1/4	133,724	1/4	122,673	1/4	111,622	1/4	100,571	1/4	89,521	1/4	78,470	1/4	67,419		
1/2	1/2	1/2	144,544	1/2	133,494	1/2	122,443	1/2	111,392	1/2	100,341	1/2	89,290	1/2	78,240	1/2	67,189		
3/4	3/4	3/4	154,539	3/4	144,314	3/4	133,263	3/4	122,213	3/4	111,162	3/4	100,111	3/4	89,060	3/4	78,009	3/4	66,958
1	1	1	154,443	1	144,084	1	133,033	1	121,982	1	110,932	1	99,881	1	88,830	1	77,779	1	66,728
1/4	1/4	1/4	154,348	1/4	143,854	1/4	132,803	1/4	121,752	1/4	110,701	1/4	99,650	1/4	88,600	1/4	77,549	1/4	66,498
1/2	1/2	1/2	154,252	1/2	143,624	1/2	132,573	1/2	121,522	1/2	110,471	1/2	99,420	1/2	88,369	1/2	77,319	1/2	66,268
3/4	3/4	3/4	154,156	3/4	143,393	3/4	132,342	3/4	121,292	3/4	110,241	3/4	99,190	3/4	88,139	3/4	77,088	3/4	66,038
2	2	2	153,985	2	143,163	2	132,112	2	121,061	2	110,011	2	98,960	2	87,909	2	76,858	2	65,807
1/4	1/4	1/4	153,814	1/4	142,933	1/4	131,882	1/4	120,831	1/4	109,780	1/4	98,730	1/4	87,679	1/4	76,628	1/4	65,577
1/2	1/2	1/2	153,642	1/2	142,703	1/2	131,652	1/2	120,601	1/2	109,550	1/2	98,499	1/2	87,449	1/2	76,398	1/2	65,347
3/4	3/4	3/4	153,471	3/4	142,472	3/4	131,422	3/4	120,371	3/4	109,320	3/4	98,269	3/4	87,218	3/4	76,167	3/4	65,117
3	3	3	153,253	3	142,242	3	131,191	3	120,141	3	109,090	3	98,039	3	86,988	3	75,937	3	64,886
1/4	1/4	1/4	153,035	1/4	142,012	1/4	130,961	1/4	119,910	1/4	108,859	1/4	97,809	1/4	86,758	1/4	75,707	1/4	64,656
1/2	1/2	1/2	152,816	1/2	141,782	1/2	130,731	1/2	119,680	1/2	108,629	1/2	97,578	1/2	86,528	1/2	75,477	1/2	64,426
3/4	3/4	3/4	152,598	3/4	141,551	3/4	130,501	3/4	119,450	3/4	108,399	3/4	97,348	3/4	86,297	3/4	75,247	3/4	64,196
4	4	4	152,369	4	141,321	4	130,270	4	119,220	4	108,169	4	97,118	4	86,067	4	75,016	4	63,966
1/4	1/4	1/4	152,139	1/4	141,091	1/4	130,040	1/4	118,989	1/4	107,939	1/4	96,888	1/4	85,837	1/4	74,786	1/4	63,735
1/2	1/2	1/2	151,910	1/2	140,861	1/2	129,810	1/2	118,759	1/2	107,708	1/2	96,658	1/2	85,607	1/2	74,556	1/2	63,505
3/4	3/4	3/4	151,681	3/4	140,631	3/4	129,580	3/4	118,529	3/4	107,478	3/4	96,427	3/4	85,376	3/4	74,326	3/4	63,275
5	5	5	151,451	5	140,400	5	129,350	5	118,299	5	107,248	5	96,197	5	85,146	5	74,095	5	63,045
1/4	1/4	1/4	151,220	1/4	140,170	1/4	129,119	1/4	118,069	1/4	107,018	1/4	95,967	1/4	84,916	1/4	73,865	1/4	62,814
1/2	1/2	1/2	150,990	1/2	139,940	1/2	128,889	1/2	117,838	1/2	106,787	1/2	95,737	1/2	84,686	1/2	73,635	1/2	62,584
3/4	3/4	3/4	150,760	3/4	139,710	3/4	128,659	3/4	117,608	3/4	106,557	3/4	95,506	3/4	84,456	3/4	73,405	3/4	62,354
6	6	6	150,530	6	139,479	6	128,429	6	117,378	6	106,327	6	95,276	6	84,226	6	73,175	6	62,124
1/4	1/4	1/4	150,300	1/4	139,249	1/4	128,198	1/4	117,148	1/4	106,097	1/4	95,046	1/4	83,995	1/4	72,944	1/4	61,894
1/2	1/2	1/2	150,070	1/2	139,019	1/2	127,968	1/2	116,917	1/2	105,867	1/2	94,816	1/2	83,765	1/2	72,714	1/2	61,663
3/4	3/4	3/4	149,840	3/4	138,789	3/4	127,738	3/4	116,687	3/4	105,636	3/4	94,586	3/4	83,535	3/4	72,484	3/4	61,433
7	7	7	149,609	7	138,559	7	127,508	7	116,457	7	105,406	7	94,355	7	83,304	7	72,254	7	61,203
1/4	1/4	1/4	149,379	1/4	138,328	1/4	127,278	1/4	116,227	1/4	105,176	1/4	94,125	1/4	83,074	1/4	72,023	1/4	60,973
1/2	1/2	1/2	149,149	1/2	138,098	1/2	127,047	1/2	115,996	1/2	104,946	1/2	93,895	1/2	82,844	1/2	71,793	1/2	60,742
3/4	3/4	3/4	148,919	3/4	137,868	3/4	126,817	3/4	115,766	3/4	104,715	3/4	93,665	3/4	82,614	3/4	71,563	3/4	60,512
8	8	8	148,688	8	137,638	8	126,587	8	115,536	8	104,485	8	93,434	8	82,384	8	71,333	8	60,282
1/4	1/4	1/4	148,458	1/4	137,407	1/4	126,357	1/4	115,306	1/4	104,255	1/4	93,204	1/4	82,153	1/4	71,103	1/4	60,052
1/2	1/2	1/2	148,228	1/2	137,177	1/2	126,126	1/2	115,076	1/2	104,025	1/2	92,974	1/2	81,923	1/2	70,872	1/2	59,821
3/4	3/4	3/4	147,998	3/4	136,947	3/4	125,896	3/4	114,845	3/4	103,795	3/4	92,744	3/4	81,693	3/4	70,642	3/4	59,591
9	9	9	147,768	9	136,717	9	125,666	9	114,615	9	103,564	9	92,513	9	81,463	9	70,412	9	59,361
1/4	1/4	1/4	147,537	1/4	136,487	1/4	125,436	1/4	114,385	1/4	103,334	1/4	92,283	1/4	81,232	1/4	70,182	1/4	59,131
1/2	1/2	1/2	147,307	1/2	136,256	1/2	125,205	1/2	114,155	1/2	103,104	1/2	92,053	1/2	81,002	1/2	69,951	1/2	58,901
3/4	3/4	3/4	147,077	3/4	136,026	3/4	124,975	3/4	113,924	3/4	102,874	3/4	91,823	3/4	80,772	3/4	69,721	3/4	58,670
10	10	10	146,847	10	135,796	10	124,745	10	113,694	10	102,643	10	91,593	10	80,542	10	69,491	10	58,440
1/4	1/4	1/4	146,616	1/4	135,566	1/4	124,515	1/4	113,464	1/4	102,413	1/4	91,362	1/4	80,312	1/4	69,261	1/4	58,210
1/2	1/2	1/2	146,386	1/2	135,335	1/2	124,285	1/2	113,234	1/2	102,183	1/2	91,132	1/2	80,081	1/2	69,030	1/2	57,980
3/4	3/4	3/4	146,156	3/4	135,105	3/4	124,054	3/4	113,004	3/4	101,953	3/4	90,902	3/4	79,851	3/4	68,800	3/4	57,749
11	11	11	145,926	11	134,875	11	123,824	11	112,773	11	101,722	11	90,672	11	79,621	11	68,570	11	57,519
1/4	1/4	1/4	145,696	1/4	134,645	1/4	123,594	1/4	112,543	1/4	101,492	1/4	90,441	1/4	79,391	1/4	68,340	1/4	57,289
1/2	1/2	1/2	145,465	1/2	134,415	1/2	123,364	1/2	112,313	1/2	101,262	1/2	90,211	1/2	79,160	1/2	68,110	1/2	57,059
3/4	3/4	3/4	145,235	3/4	134,184	3/4	123,133	3/4	112,083	3/4	101,032	3/4	89,981	3/4	78,930	3/4	67,879	3/4	56,829

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.

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 Pearland, Texas 77588
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BARGE "IB 1099"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	56,368	1/4	45,317	1/4	34,291	1/4	23,467	1/4	12,417	1/4	1,440	1/4		1/4		1/4		1/4	
1/2	56,138	1/2	45,087	1/2	34,067	1/2	23,237	1/2	12,187	1/2	1,232	1/2		1/2		1/2		1/2	
3/4	55,908	3/4	44,857	3/4	33,843	3/4	23,007	3/4	11,957	3/4	1,023	3/4		3/4		3/4		3/4	
1	55,677	1	44,627	1	33,620	1	22,777	1	11,726	1	870	1		1		1		1	
1/4	55,447	1/4	44,396	1/4	33,396	1/4	22,547	1/4	11,496	1/4	717	1/4		1/4		1/4		1/4	
1/2	55,217	1/2	44,166	1/2	33,172	1/2	22,316	1/2	11,266	1/2	563	1/2		1/2		1/2		1/2	
3/4	54,987	3/4	43,936	3/4	32,948	3/4	22,086	3/4	11,036	3/4	410	3/4		3/4		3/4		3/4	
2	54,757	2	43,706	2	32,724	2	21,856	2	10,806	2	333	2		2		2		2	
1/4	54,526	1/4	43,475	1/4	32,500	1/4	21,626	1/4	10,575	1/4	256	1/4		1/4		1/4		1/4	
1/2	54,296	1/2	43,245	1/2	32,276	1/2	21,395	1/2	10,345	1/2	180	1/2		1/2		1/2		1/2	
3/4	54,066	3/4	43,015	3/4	32,052	3/4	21,165	3/4	10,115	3/4	103	3/4		3/4		3/4		3/4	
3	53,836	3	42,785	3	31,828	3	20,935	3	9,885	3		3		3		3		3	
1/4	53,605	1/4	42,555	1/4	31,604	1/4	20,705	1/4	9,654	1/4		1/4		1/4		1/4		1/4	
1/2	53,375	1/2	42,324	1/2	31,380	1/2	20,475	1/2	9,424	1/2		1/2		1/2		1/2		1/2	
3/4	53,145	3/4	42,094	3/4	31,156	3/4	20,244	3/4	9,194	3/4		3/4		3/4		3/4		3/4	
4	52,915	4	41,864	4	30,932	4	20,014	4	8,964	4		4		4		4		4	
1/4	52,684	1/4	41,634	1/4	30,708	1/4	19,784	1/4	8,734	1/4		1/4		1/4		1/4		1/4	
1/2	52,454	1/2	41,403	1/2	30,485	1/2	19,554	1/2	8,503	1/2		1/2		1/2		1/2		1/2	
3/4	52,224	3/4	41,173	3/4	30,261	3/4	19,324	3/4	8,273	3/4		3/4		3/4		3/4		3/4	
5	51,994	5	40,943	5	30,037	5	19,093	5	8,043	5		5		5		5		5	
1/4	51,764	1/4	40,713	1/4	29,813	1/4	18,863	1/4	7,813	1/4		1/4		1/4		1/4		1/4	
1/2	51,533	1/2	40,483	1/2	29,589	1/2	18,633	1/2	7,583	1/2		1/2		1/2		1/2		1/2	
3/4	51,303	3/4	40,252	3/4	29,365	3/4	18,403	3/4	7,352	3/4		3/4		3/4		3/4		3/4	
6	51,073	6	40,022	6	29,141	6	18,172	6	7,122	6		6		6		6		6	
1/4	50,843	1/4	39,792	1/4	28,917	1/4	17,942	1/4	6,892	1/4		1/4		1/4		1/4		1/4	
1/2	50,612	1/2	39,562	1/2	28,693	1/2	17,712	1/2	6,662	1/2		1/2		1/2		1/2		1/2	
3/4	50,382	3/4	39,331	3/4	28,469	3/4	17,482	3/4	6,432	3/4		3/4		3/4		3/4		3/4	
7	50,152	7	39,101	7	28,245	7	17,252	7	6,202	7		7		7		7		7	
1/4	49,922	1/4	38,871	1/4	28,021	1/4	17,021	1/4	5,971	1/4		1/4		1/4		1/4		1/4	
1/2	49,692	1/2	38,641	1/2	27,797	1/2	16,791	1/2	5,741	1/2		1/2		1/2		1/2		1/2	
3/4	49,461	3/4	38,411	3/4	27,574	3/4	16,561	3/4	5,511	3/4		3/4		3/4		3/4		3/4	
8	49,231	8	38,180	8	27,350	8	16,331	8	5,282	8		8		8		8		8	
1/4	49,001	1/4	37,950	1/4	27,126	1/4	16,101	1/4	5,052	1/4		1/4		1/4		1/4		1/4	
1/2	48,771	1/2	37,720	1/2	26,902	1/2	15,870	1/2	4,822	1/2		1/2		1/2		1/2		1/2	
3/4	48,540	3/4	37,490	3/4	26,678	3/4	15,640	3/4	4,592	3/4		3/4		3/4		3/4		3/4	
9	48,310	9	37,259	9	26,451	9	15,410	9	4,363	9		9		9		9		9	
1/4	48,080	1/4	37,029	1/4	26,224	1/4	15,180	1/4	4,134	1/4		1/4		1/4		1/4		1/4	
1/2	47,850	1/2	36,799	1/2	25,997	1/2	14,949	1/2	3,905	1/2		1/2		1/2		1/2		1/2	
3/4	47,620	3/4	36,569	3/4	25,770	3/4	14,719	3/4	3,676	3/4		3/4		3/4		3/4		3/4	
10	47,389	10	36,338	10	25,539	10	14,489	10	3,448	10		10		10		10		10	
1/4	47,159	1/4	36,108	1/4	25,309	1/4	14,259	1/4	3,219	1/4		1/4		1/4		1/4		1/4	
1/2	46,929	1/2	35,878	1/2	25,079	1/2	14,029	1/2	2,991	1/2		1/2		1/2		1/2		1/2	
3/4	46,699	3/4	35,648	3/4	24,849	3/4	13,798	3/4	2,763	3/4		3/4		3/4		3/4		3/4	
11	46,468	11	35,421	11	24,619	11	13,568	11	2,537	11		11		11		11		11	
1/4	46,238	1/4	35,194	1/4	24,388	1/4	13,338	1/4	2,310	1/4		1/4		1/4		1/4		1/4	
1/2	46,008	1/2	34,966	1/2	24,158	1/2	13,108	1/2	2,084	1/2		1/2		1/2		1/2		1/2	
3/4	45,778	3/4	34,739	3/4	23,928	3/4	12,877	3/4	1,857	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 12/01/2017 SW
CALCULATED: 12/02/2017 CL
PRINTED: 12/03/2017 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2017

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BARGE "IB 1099"

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	0	143,773	0	132,868	0	121,964	0	111,059	0	100,154	0	89,249	0	78,345	0	67,440		
1/4	1/4	1/4	143,546	1/4	142,637	1/4	131,732	1/4	120,828	1/4	109,923	1/4	99,018	1/4	88,114	1/4	77,209	1/4	66,304
1/2	1/2	1/2	143,319	1/2	142,410	1/2	131,505	1/2	120,600	1/2	109,696	1/2	98,791	1/2	87,886	1/2	76,982	1/2	66,077
3/4	3/4	3/4	143,091	3/4	142,183	3/4	131,278	3/4	120,373	3/4	109,469	3/4	98,564	3/4	87,659	3/4	76,754	3/4	65,850
1	1	1	142,864	1	141,956	1	131,051	1	120,146	1	109,241	1	98,337	1	87,432	1	76,527	1	65,623
1/4	1/4	1/4	152,727	1/4	141,728	1/4	130,824	1/4	119,919	1/4	109,014	1/4	98,110	1/4	87,205	1/4	76,300	1/4	65,395
1/2	1/2	1/2	152,633	1/2	141,501	1/2	130,596	1/2	119,692	1/2	108,787	1/2	97,882	1/2	86,978	1/2	76,073	1/2	65,168
3/4	3/4	3/4	152,538	3/4	141,274	3/4	130,369	3/4	119,465	3/4	108,560	3/4	97,655	3/4	86,750	3/4	75,846	3/4	64,941
2	2	2	142,637	2	141,047	2	130,142	2	119,237	2	108,333	2	97,428	2	86,523	2	75,619	2	64,714
1/4	1/4	1/4	152,349	1/4	140,820	1/4	129,915	1/4	119,010	1/4	108,106	1/4	97,201	1/4	86,296	1/4	75,391	1/4	64,487
1/2	1/2	1/2	152,180	1/2	140,592	1/2	129,688	1/2	118,783	1/2	107,878	1/2	96,974	1/2	86,069	1/2	75,164	1/2	64,260
3/4	3/4	3/4	152,011	3/4	140,365	3/4	129,461	3/4	118,556	3/4	107,651	3/4	96,746	3/4	85,842	3/4	74,937	3/4	64,032
3	3	3	142,410	3	140,138	3	129,233	3	118,329	3	107,424	3	96,519	3	85,615	3	74,710	3	63,805
1/4	1/4	1/4	151,673	1/4	139,911	1/4	129,006	1/4	118,102	1/4	107,197	1/4	96,292	1/4	85,387	1/4	74,483	1/4	63,578
1/2	1/2	1/2	151,458	1/2	139,684	1/2	128,779	1/2	117,874	1/2	106,970	1/2	96,065	1/2	85,160	1/2	74,255	1/2	63,351
3/4	3/4	3/4	151,242	3/4	139,457	3/4	128,552	3/4	117,647	3/4	106,742	3/4	95,838	3/4	84,933	3/4	74,028	3/4	63,124
4	4	4	141,956	4	139,229	4	128,325	4	117,420	4	106,515	4	95,611	4	84,706	4	73,801	4	62,896
1/4	1/4	1/4	151,027	1/4	139,002	1/4	128,097	1/4	117,193	1/4	106,288	1/4	95,383	1/4	84,479	1/4	73,574	1/4	62,669
1/2	1/2	1/2	150,811	1/2	138,775	1/2	127,870	1/2	116,966	1/2	106,061	1/2	95,156	1/2	84,251	1/2	73,347	1/2	62,442
3/4	3/4	3/4	150,585	3/4	138,548	3/4	127,643	3/4	116,738	3/4	105,834	3/4	94,929	3/4	84,024	3/4	73,120	3/4	62,215
5	5	5	141,728	5	138,321	5	127,416	5	116,511	5	105,607	5	94,702	5	83,797	5	72,892	5	61,988
1/4	1/4	1/4	149,906	1/4	138,093	1/4	127,189	1/4	116,284	1/4	105,379	1/4	94,475	1/4	83,570	1/4	72,665	1/4	61,761
1/2	1/2	1/2	149,679	1/2	137,866	1/2	126,962	1/2	116,057	1/2	105,152	1/2	94,247	1/2	83,343	1/2	72,438	1/2	61,533
3/4	3/4	3/4	149,452	3/4	137,639	3/4	126,734	3/4	115,830	3/4	104,925	3/4	94,020	3/4	83,116	3/4	72,211	3/4	61,306
6	6	6	141,047	6	137,412	6	126,507	6	115,603	6	104,698	6	93,793	6	82,888	6	71,984	6	61,079
1/4	1/4	1/4	148,225	1/4	137,185	1/4	126,280	1/4	115,375	1/4	104,471	1/4	93,566	1/4	82,661	1/4	71,756	1/4	60,852
1/2	1/2	1/2	148,098	1/2	136,958	1/2	126,053	1/2	115,148	1/2	104,243	1/2	93,339	1/2	82,434	1/2	71,529	1/2	60,625
3/4	3/4	3/4	147,871	3/4	136,730	3/4	125,826	3/4	114,921	3/4	104,016	3/4	93,112	3/4	82,207	3/4	71,302	3/4	60,397
7	7	7	140,820	7	136,503	7	125,598	7	114,694	7	103,789	7	92,884	7	81,980	7	71,075	7	60,170
1/4	1/4	1/4	148,771	1/4	136,276	1/4	125,371	1/4	114,467	1/4	103,562	1/4	92,657	1/4	81,752	1/4	70,848	1/4	59,943
1/2	1/2	1/2	148,544	1/2	136,049	1/2	125,144	1/2	114,239	1/2	103,335	1/2	92,430	1/2	81,525	1/2	70,621	1/2	59,716
3/4	3/4	3/4	148,317	3/4	135,822	3/4	124,917	3/4	114,012	3/4	103,108	3/4	92,203	3/4	81,298	3/4	70,393	3/4	59,489
8	8	8	140,138	8	135,594	8	124,690	8	113,785	8	102,880	8	91,976	8	81,071	8	70,166	8	59,262
1/4	1/4	1/4	147,181	1/4	135,367	1/4	124,463	1/4	113,558	1/4	102,653	1/4	91,748	1/4	80,844	1/4	69,939	1/4	59,034
1/2	1/2	1/2	146,954	1/2	135,140	1/2	124,235	1/2	113,331	1/2	102,426	1/2	91,521	1/2	80,617	1/2	69,712	1/2	58,807
3/4	3/4	3/4	146,726	3/4	134,913	3/4	124,008	3/4	113,104	3/4	102,199	3/4	91,294	3/4	80,389	3/4	69,485	3/4	58,580
9	9	9	140,592	9	134,686	9	123,781	9	112,876	9	101,972	9	91,067	9	80,162	9	69,257	9	58,353
1/4	1/4	1/4	145,590	1/4	134,459	1/4	123,554	1/4	112,649	1/4	101,744	1/4	90,840	1/4	79,935	1/4	69,030	1/4	58,126
1/2	1/2	1/2	145,363	1/2	134,231	1/2	123,327	1/2	112,422	1/2	101,517	1/2	90,613	1/2	79,708	1/2	68,803	1/2	57,898
3/4	3/4	3/4	145,136	3/4	134,004	3/4	123,099	3/4	112,195	3/4	101,290	3/4	90,385	3/4	79,481	3/4	68,576	3/4	57,671
10	10	10	140,000	10	133,777	10	122,872	10	111,968	10	101,063	10	90,158	10	79,253	10	68,349	10	57,444
1/4	1/4	1/4	144,682	1/4	133,550	1/4	122,645	1/4	111,740	1/4	100,836	1/4	89,931	1/4	79,026	1/4	68,122	1/4	57,217
1/2	1/2	1/2	144,455	1/2	133,323	1/2	122,418	1/2	111,513	1/2	100,609	1/2	89,704	1/2	78,799	1/2	67,894	1/2	56,990
3/4	3/4	3/4	144,227	3/4	133,095	3/4	122,191	3/4	111,286	3/4	100,381	3/4	89,477	3/4	78,572	3/4	67,667	3/4	56,763

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 1099"

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	56,535	0	45,631	0	34,727	0	23,839	0	12,935	0	2,056	0		0		0		0	
1/4	56,308	1/4	45,403	1/4	34,500	1/4	23,612	1/4	12,707	1/4	1,833	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,081	1/2	45,176	1/2	34,273	1/2	23,385	1/2	12,480	1/2	1,627	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,854	3/4	44,949	3/4	34,046	3/4	23,157	3/4	12,253	3/4	1,421	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	55,627	1	44,722	1	33,819	1	22,930	1	12,026	1	1,216	1	1	1	1	1	1	1	1
1/4	55,399	1/4	44,495	1/4	33,592	1/4	22,703	1/4	11,799	1/4	1,010	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,172	1/2	44,268	1/2	33,366	1/2	22,476	1/2	11,572	1/2	859	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,945	3/4	44,040	3/4	33,139	3/4	22,249	3/4	11,344	3/4	707	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	54,718	2	43,813	2	32,912	2	22,022	2	11,117	2	556	2	2	2	2	2	2	2	2
1/4	54,491	1/4	43,586	1/4	32,685	1/4	21,794	1/4	10,890	1/4	405	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,264	1/2	43,359	1/2	32,459	1/2	21,567	1/2	10,663	1/2	329	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,036	3/4	43,132	3/4	32,232	3/4	21,340	3/4	10,436	3/4	253	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	53,809	3	42,904	3	32,005	3	21,113	3	10,209	3	178	3	3	3	3	3	3	3	3
1/4	53,582	1/4	42,677	1/4	31,778	1/4	20,886	1/4	9,981	1/4	102	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,355	1/2	42,450	1/2	31,552	1/2	20,658	1/2	9,754	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,128	3/4	42,223	3/4	31,325	3/4	20,431	3/4	9,527	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	52,900	4	41,996	4	31,098	4	20,204	4	9,300	4	4	4	4	4	4	4	4	4	4
1/4	52,673	1/4	41,769	1/4	30,871	1/4	19,977	1/4	9,073	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,446	1/2	41,541	1/2	30,645	1/2	19,750	1/2	8,846	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,219	3/4	41,314	3/4	30,418	3/4	19,523	3/4	8,618	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	51,992	5	41,087	5	30,191	5	19,295	5	8,391	5	5	5	5	5	5	5	5	5	5
1/4	51,765	1/4	40,860	1/4	29,965	1/4	19,068	1/4	8,164	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,537	1/2	40,633	1/2	29,738	1/2	18,841	1/2	7,937	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,310	3/4	40,405	3/4	29,511	3/4	18,614	3/4	7,710	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	51,083	6	40,178	6	29,284	6	18,387	6	7,482	6	6	6	6	6	6	6	6	6	6
1/4	50,856	1/4	39,951	1/4	29,058	1/4	18,160	1/4	7,255	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,629	1/2	39,724	1/2	28,831	1/2	17,932	1/2	7,028	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,401	3/4	39,497	3/4	28,604	3/4	17,705	3/4	6,801	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	50,174	7	39,270	7	28,377	7	17,478	7	6,574	7	7	7	7	7	7	7	7	7	7
1/4	49,947	1/4	39,042	1/4	28,151	1/4	17,251	1/4	6,347	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,720	1/2	38,815	1/2	27,924	1/2	17,024	1/2	6,120	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,493	3/4	38,588	3/4	27,697	3/4	16,797	3/4	5,893	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	49,266	8	38,361	8	27,471	8	16,569	8	5,666	8	8	8	8	8	8	8	8	8	8
1/4	49,038	1/4	38,134	1/4	27,244	1/4	16,342	1/4	5,439	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,811	1/2	37,906	1/2	27,017	1/2	16,115	1/2	5,212	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,584	3/4	37,679	3/4	26,790	3/4	15,888	3/4	4,985	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	48,357	9	37,452	9	26,564	9	15,661	9	4,759	9	9	9	9	9	9	9	9	9	9
1/4	48,130	1/4	37,225	1/4	26,337	1/4	15,434	1/4	4,532	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,902	1/2	36,998	1/2	26,110	1/2	15,206	1/2	4,306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,675	3/4	36,771	3/4	25,883	3/4	14,979	3/4	4,080	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	47,448	10	36,543	10	25,656	10	14,752	10	3,854	10	10	10	10	10	10	10	10	10	10
1/4	47,221	1/4	36,316	1/4	25,429	1/4	14,525	1/4	3,627	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,994	1/2	36,089	1/2	25,202	1/2	14,298	1/2	3,402	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	46,767	3/4	35,862	3/4	24,975	3/4	14,070	3/4	3,177	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	46,539	11	35,635	11	24,748	11	13,843	11	2,952	11	11	11	11	11	11	11	11	11	11
1/4	46,312	1/4	35,407	1/4	24,520	1/4	13,616	1/4	2,727	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46,085	1/2	35,180	1/2	24,293	1/2	13,389	1/2	2,503	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45,858	3/4	34,953	3/4	24,066	3/4	13,162	3/4	2,280	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 12/01/2017 SW
CALCULATED: 12/02/2017 CL
PRINTED: 12/03/2017 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2017

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