



BARGE "IB 1203"

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"

January 9, 2018

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

<http://www.pmacorp.net>



BARGE "IB 1203"

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	155,572	0	146,940	0	137,050	0	127,160	0	116,671	0	105,106	0	93,549	0	81,992	0	70,434
1/4		1/4	155,567	1/4	146,734	1/4	136,844	1/4	126,954	1/4	116,430	1/4	104,865	1/4	93,308	1/4	81,751	1/4	70,194
1/2		1/2	155,562	1/2	146,528	1/2	136,638	1/2	126,748	1/2	116,188	1/2	104,624	1/2	93,067	1/2	81,510	1/2	69,953
3/4		3/4	155,557	3/4	146,322	3/4	136,432	3/4	126,542	3/4	115,947	3/4	104,384	3/4	92,826	3/4	81,270	3/4	69,712
1		1	155,472	1	146,116	1	136,226	1	126,336	1	115,706	1	104,143	1	92,586	1	81,029	1	69,471
1/4		1/4	155,386	1/4	145,910	1/4	136,020	1/4	126,130	1/4	115,465	1/4	103,902	1/4	92,345	1/4	80,788	1/4	69,230
1/2		1/2	155,301	1/2	145,704	1/2	135,814	1/2	125,924	1/2	115,223	1/2	103,661	1/2	92,104	1/2	80,547	1/2	68,990
3/4		3/4	155,216	3/4	145,498	3/4	135,608	3/4	125,718	3/4	114,982	3/4	103,421	3/4	91,863	3/4	80,306	3/4	68,749
2		2	155,050	2	145,292	2	135,402	2	125,512	2	114,741	2	103,180	2	91,623	2	80,066	2	68,508
1/4		1/4	154,884	1/4	145,086	1/4	135,196	1/4	125,306	1/4	114,499	1/4	102,939	1/4	91,382	1/4	79,825	1/4	68,267
1/2		1/2	154,718	1/2	144,880	1/2	134,990	1/2	125,100	1/2	114,258	1/2	102,698	1/2	91,141	1/2	79,584	1/2	68,027
3/4		3/4	154,553	3/4	144,674	3/4	134,784	3/4	124,894	3/4	114,017	3/4	102,457	3/4	90,900	3/4	79,343	3/4	67,786
3		3	154,349	3	144,468	3	134,578	3	124,688	3	113,776	3	102,217	3	90,660	3	79,102	3	67,545
1/4		1/4	154,145	1/4	144,262	1/4	134,372	1/4	124,481	1/4	113,534	1/4	101,976	1/4	90,419	1/4	78,862	1/4	67,304
1/2		1/2	153,941	1/2	144,056	1/2	134,165	1/2	124,275	1/2	113,293	1/2	101,735	1/2	90,178	1/2	78,621	1/2	67,063
3/4		3/4	153,737	3/4	143,849	3/4	133,959	3/4	124,069	3/4	113,052	3/4	101,494	3/4	89,937	3/4	78,380	3/4	66,823
4		4	153,531	4	143,643	4	133,753	4	123,863	4	112,811	4	101,254	4	89,697	4	78,139	4	66,582
1/4		1/4	153,326	1/4	143,437	1/4	133,547	1/4	123,657	1/4	112,570	1/4	101,013	1/4	89,456	1/4	77,899	1/4	66,341
1/2		1/2	153,120	1/2	143,231	1/2	133,341	1/2	123,451	1/2	112,329	1/2	100,772	1/2	89,215	1/2	77,658	1/2	66,100
3/4		3/4	152,915	3/4	143,025	3/4	133,135	3/4	123,245	3/4	112,089	3/4	100,531	3/4	88,974	3/4	77,417	3/4	65,860
5		5	152,709	5	142,819	5	132,929	5	123,039	5	111,848	5	100,290	5	88,734	5	77,176	5	65,619
1/4		1/4	152,503	1/4	142,613	1/4	132,723	1/4	122,833	1/4	111,607	1/4	100,050	1/4	88,493	1/4	76,935	1/4	65,379
1/2		1/2	152,297	1/2	142,407	1/2	132,517	1/2	122,627	1/2	111,366	1/2	99,809	1/2	88,252	1/2	76,695	1/2	65,139
3/4		3/4	152,091	3/4	142,201	3/4	132,311	3/4	122,421	3/4	111,126	3/4	99,568	3/4	88,011	3/4	76,454	3/4	64,899
6		6	151,885	6	141,995	6	132,105	6	122,215	6	110,885	6	99,327	6	87,771	6	76,213	6	64,659
1/4		1/4	151,679	1/4	141,789	1/4	131,899	1/4	122,009	1/4	110,644	1/4	99,086	1/4	87,530	1/4	75,972	1/4	64,418
1/2		1/2	151,473	1/2	141,583	1/2	131,693	1/2	121,803	1/2	110,403	1/2	98,846	1/2	87,289	1/2	75,732	1/2	64,178
3/4		3/4	151,267	3/4	141,377	3/4	131,487	3/4	121,597	3/4	110,162	3/4	98,605	3/4	87,048	3/4	75,491	3/4	63,938
7		7	151,061	7	141,171	7	131,281	7	121,391	7	109,922	7	98,364	7	86,807	7	75,250	7	63,698
1/4		1/4	150,855	1/4	140,965	1/4	131,075	1/4	121,185	1/4	109,681	1/4	98,123	1/4	86,567	1/4	75,009	1/4	63,458
1/2		1/2	150,649	1/2	140,759	1/2	130,869	1/2	120,979	1/2	109,440	1/2	97,883	1/2	86,326	1/2	74,768	1/2	63,218
3/4		3/4	150,443	3/4	140,553	3/4	130,663	3/4	120,773	3/4	109,199	3/4	97,642	3/4	86,085	3/4	74,528	3/4	62,977
8		8	150,237	8	140,347	8	130,457	8	120,531	8	108,959	8	97,401	8	85,844	8	74,287	8	62,737
1/4		1/4	150,031	1/4	140,141	1/4	130,251	1/4	120,290	1/4	108,718	1/4	97,160	1/4	85,604	1/4	74,046	1/4	62,497
1/2		1/2	149,825	1/2	139,935	1/2	130,045	1/2	120,049	1/2	108,477	1/2	96,919	1/2	85,363	1/2	73,805	1/2	62,257
3/4		3/4	149,619	3/4	139,729	3/4	129,839	3/4	119,808	3/4	108,236	3/4	96,679	3/4	85,122	3/4	73,565	3/4	62,017
9		9	149,413	9	139,523	9	129,633	9	119,566	9	107,995	9	96,438	9	84,881	9	73,324	9	61,776
1/4		1/4	149,207	1/4	139,317	1/4	129,426	1/4	119,325	1/4	107,755	1/4	96,197	1/4	84,640	1/4	73,083	1/4	61,536
1/2		1/2	149,001	1/2	139,110	1/2	129,220	1/2	119,084	1/2	107,514	1/2	95,956	1/2	84,400	1/2	72,842	1/2	61,296
3/4		3/4	148,794	3/4	138,904	3/4	129,014	3/4	118,842	3/4	107,273	3/4	95,716	3/4	84,159	3/4	72,601	3/4	61,056
10		10	148,588	10	138,698	10	128,808	10	118,601	10	107,032	10	95,475	10	83,918	10	72,361	10	60,816
1/4		1/4	148,382	1/4	138,492	1/4	128,602	1/4	118,360	1/4	106,791	1/4	95,234	1/4	83,677	1/4	72,120	1/4	60,576
1/2		1/2	148,176	1/2	138,286	1/2	128,396	1/2	118,119	1/2	106,551	1/2	94,993	1/2	83,437	1/2	71,879	1/2	60,335
3/4		3/4	147,970	3/4	138,080	3/4	128,190	3/4	117,877	3/4	106,310	3/4	94,753	3/4	83,196	3/4	71,638	3/4	60,095
11		11	147,764	11	137,874	11	127,984	11	117,636	11	106,069	11	94,512	11	82,955	11	71,397	11	59,855
1/4		1/4	147,558	1/4	137,668	1/4	127,778	1/4	117,395	1/4	105,828	1/4	94,271	1/4	82,714	1/4	71,157	1/4	59,615
1/2		1/2	147,352	1/2	137,462	1/2	127,572	1/2	117,154	1/2	105,588	1/2	94,030	1/2	82,473	1/2	70,916	1/2	59,375
3/4		3/4	155,577	3/4	147,146	3/4	137,256	3/4	116,912	3/4	105,347	3/4	93,790	3/4	82,233	3/4	70,675	3/4	59,134

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 1203"

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	58,894	0	47,348	0	35,828	0	24,493	0	12,935	0	1,416	0		0		0		0	
1/4	58,654	1/4	47,107	1/4	35,593	1/4	24,252	1/4	12,694	1/4	1,215	1/4		1/4	1/4		1/4	1/4	
1/2	58,414	1/2	46,867	1/2	35,359	1/2	24,011	1/2	12,453	1/2	1,014	1/2		1/2	1/2		1/2	1/2	
3/4	58,174	3/4	46,626	3/4	35,124	3/4	23,770	3/4	12,212	3/4	813	3/4		3/4	3/4		3/4	3/4	
1	57,934	1	46,385	1	34,890	1	23,530	1	11,972	1	692	1		1	1		1	1	
1/4	57,693	1/4	46,145	1/4	34,656	1/4	23,289	1/4	11,731	1/4	572	1/4		1/4	1/4		1/4	1/4	
1/2	57,453	1/2	45,904	1/2	34,421	1/2	23,048	1/2	11,490	1/2	451	1/2		1/2	1/2		1/2	1/2	
3/4	57,213	3/4	45,664	3/4	34,187	3/4	22,807	3/4	11,249	3/4	330	3/4		3/4	3/4		3/4	3/4	
2	56,973	2	45,423	2	33,952	2	22,566	2	11,008	2	290	2		2	2		2	2	
1/4	56,733	1/4	45,182	1/4	33,718	1/4	22,326	1/4	10,768	1/4	250	1/4		1/4	1/4		1/4	1/4	
1/2	56,492	1/2	44,942	1/2	33,483	1/2	22,085	1/2	10,527	1/2	210	1/2		1/2	1/2		1/2	1/2	
3/4	56,252	3/4	44,701	3/4	33,249	3/4	21,844	3/4	10,286	3/4	169	3/4		3/4	3/4		3/4	3/4	
3	56,012	3	44,460	3	33,015	3	21,603	3	10,045	3		3		3	3		3	3	
1/4	55,771	1/4	44,220	1/4	32,780	1/4	21,362	1/4	9,804	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	55,530	1/2	43,979	1/2	32,546	1/2	21,122	1/2	9,564	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	55,290	3/4	43,738	3/4	32,311	3/4	20,881	3/4	9,323	3/4		3/4		3/4	3/4		3/4	3/4	
4	55,049	4	43,498	4	32,077	4	20,640	4	9,082	4		4		4	4		4	4	
1/4	54,808	1/4	43,257	1/4	31,843	1/4	20,399	1/4	8,841	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	54,568	1/2	43,016	1/2	31,608	1/2	20,159	1/2	8,600	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	54,327	3/4	42,776	3/4	31,374	3/4	19,918	3/4	8,359	3/4		3/4		3/4	3/4		3/4	3/4	
5	54,086	5	42,535	5	31,139	5	19,677	5	8,118	5		5		5	5		5	5	
1/4	53,846	1/4	42,294	1/4	30,905	1/4	19,436	1/4	7,876	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	53,605	1/2	42,054	1/2	30,670	1/2	19,195	1/2	7,635	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	53,364	3/4	41,813	3/4	30,436	3/4	18,955	3/4	7,394	3/4		3/4		3/4	3/4		3/4	3/4	
6	53,124	6	41,572	6	30,202	6	18,714	6	7,153	6		6		6	6		6	6	
1/4	52,883	1/4	41,332	1/4	29,967	1/4	18,473	1/4	6,913	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	52,642	1/2	41,091	1/2	29,733	1/2	18,232	1/2	6,672	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	52,402	3/4	40,850	3/4	29,498	3/4	17,991	3/4	6,431	3/4		3/4		3/4	3/4		3/4	3/4	
7	52,161	7	40,610	7	29,264	7	17,751	7	6,190	7		7		7	7		7	7	
1/4	51,920	1/4	40,369	1/4	29,030	1/4	17,510	1/4	5,949	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	51,680	1/2	40,129	1/2	28,795	1/2	17,269	1/2	5,708	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	51,439	3/4	39,888	3/4	28,561	3/4	17,028	3/4	5,466	3/4		3/4		3/4	3/4		3/4	3/4	
8	51,199	8	39,647	8	28,326	8	16,787	8	5,225	8		8		8	8		8	8	
1/4	50,958	1/4	39,407	1/4	28,092	1/4	16,547	1/4	4,984	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	50,717	1/2	39,166	1/2	27,857	1/2	16,306	1/2	4,743	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	50,477	3/4	38,925	3/4	27,623	3/4	16,065	3/4	4,501	3/4		3/4		3/4	3/4		3/4	3/4	
9	50,236	9	38,685	9	27,382	9	15,824	9	4,260	9		9		9	9		9	9	
1/4	49,995	1/4	38,444	1/4	27,141	1/4	15,583	1/4	4,019	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	49,755	1/2	38,203	1/2	26,901	1/2	15,343	1/2	3,778	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	49,514	3/4	37,963	3/4	26,660	3/4	15,102	3/4	3,536	3/4		3/4		3/4	3/4		3/4	3/4	
10	49,273	10	37,722	10	26,419	10	14,861	10	3,296	10		10		10	10		10	10	
1/4	49,033	1/4	37,481	1/4	26,178	1/4	14,620	1/4	3,055	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	48,792	1/2	37,241	1/2	25,937	1/2	14,380	1/2	2,814	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	48,551	3/4	37,000	3/4	25,697	3/4	14,139	3/4	2,574	3/4		3/4		3/4	3/4		3/4	3/4	
11	48,311	11	36,766	11	25,456	11	13,898	11	2,335	11		11		11	11		11	11	
1/4	48,070	1/4	36,531	1/4	25,215	1/4	13,657	1/4	2,095	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	47,829	1/2	36,297	1/2	24,974	1/2	13,416	1/2	1,856	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	47,589	3/4	36,062	3/4	24,734	3/4	13,176	3/4	1,617	3/4		3/4		3/4	3/4		3/4	3/4	

STRAPPED: 01/08/2018 SW
CALCULATED: 01/09/2018 CL
PRINTED: 01/09/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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 1203"

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	143,109	0	133,980	0	123,737	0	113,495	0	103,253	0	93,010	0	82,768	0	72,526	0	62,284
1/4		1/4	143,074	1/4	133,766	1/4	123,524	1/4	113,282	1/4	103,039	1/4	92,797	1/4	82,555	1/4	72,312	1/4	62,070
1/2		1/2	143,038	1/2	133,553	1/2	123,311	1/2	113,068	1/2	102,826	1/2	92,584	1/2	82,341	1/2	72,099	1/2	61,857
3/4		3/4	143,003	3/4	133,340	3/4	123,097	3/4	112,855	3/4	102,613	3/4	92,370	3/4	82,128	3/4	71,886	3/4	61,643
1		1	142,896	1	133,126	1	122,884	1	112,642	1	102,399	1	92,157	1	81,915	1	71,672	1	61,430
1/4		1/4	142,789	1/4	132,913	1/4	122,670	1/4	112,428	1/4	102,186	1/4	91,944	1/4	81,701	1/4	71,459	1/4	61,217
1/2		1/2	142,683	1/2	132,699	1/2	122,457	1/2	112,215	1/2	101,972	1/2	91,730	1/2	81,488	1/2	71,246	1/2	61,003
3/4		3/4	142,576	3/4	132,486	3/4	122,244	3/4	112,001	3/4	101,759	3/4	91,517	3/4	81,274	3/4	71,032	3/4	60,790
2		2	142,398	2	132,273	2	122,030	2	111,788	2	101,546	2	91,303	2	81,061	2	70,819	2	60,576
1/4		1/4	142,221	1/4	132,059	1/4	121,817	1/4	111,575	1/4	101,332	1/4	91,090	1/4	80,848	1/4	70,605	1/4	60,363
1/2		1/2	142,043	1/2	131,846	1/2	121,604	1/2	111,361	1/2	101,119	1/2	90,877	1/2	80,634	1/2	70,392	1/2	60,150
3/4		3/4	141,865	3/4	131,633	3/4	121,390	3/4	111,148	3/4	100,906	3/4	90,663	3/4	80,421	3/4	70,179	3/4	59,936
3		3	141,654	3	131,419	3	121,177	3	110,935	3	100,692	3	90,450	3	80,208	3	69,965	3	59,723
1/4		1/4	141,442	1/4	131,206	1/4	120,963	1/4	110,721	1/4	100,479	1/4	90,236	1/4	79,994	1/4	69,752	1/4	59,510
1/2		1/2	141,230	1/2	130,992	1/2	120,750	1/2	110,508	1/2	100,265	1/2	90,023	1/2	79,781	1/2	69,538	1/2	59,296
3/4		3/4	141,019	3/4	130,779	3/4	120,537	3/4	110,294	3/4	100,052	3/4	89,810	3/4	79,567	3/4	69,325	3/4	59,083
4		4	140,806	4	130,566	4	120,323	4	110,081	4	99,839	4	89,596	4	79,354	4	69,112	4	58,869
1/4		1/4	140,593	1/4	130,352	1/4	120,110	1/4	109,868	1/4	99,625	1/4	89,383	1/4	79,141	1/4	68,898	1/4	58,656
1/2		1/2	140,380	1/2	130,139	1/2	119,897	1/2	109,654	1/2	99,412	1/2	89,170	1/2	78,927	1/2	68,685	1/2	58,443
3/4		3/4	140,168	3/4	129,925	3/4	119,683	3/4	109,441	3/4	99,199	3/4	88,956	3/4	78,714	3/4	68,472	3/4	58,229
5		5	139,954	5	129,712	5	119,470	5	109,227	5	98,985	5	88,743	5	78,501	5	68,258	5	58,016
1/4		1/4	139,741	1/4	129,499	1/4	119,256	1/4	109,014	1/4	98,772	1/4	88,529	1/4	78,287	1/4	68,045	1/4	57,802
1/2		1/2	139,528	1/2	129,285	1/2	119,043	1/2	108,801	1/2	98,558	1/2	88,316	1/2	78,074	1/2	67,831	1/2	57,589
3/4		3/4	139,314	3/4	129,072	3/4	118,830	3/4	108,587	3/4	98,345	3/4	88,103	3/4	77,860	3/4	67,618	3/4	57,376
6		6	139,101	6	128,859	6	118,616	6	108,374	6	98,132	6	87,889	6	77,647	6	67,405	6	57,162
1/4		1/4	138,888	1/4	128,645	1/4	118,403	1/4	108,161	1/4	97,918	1/4	87,676	1/4	77,434	1/4	67,191	1/4	56,949
1/2		1/2	138,674	1/2	128,432	1/2	118,189	1/2	107,947	1/2	97,705	1/2	87,463	1/2	77,220	1/2	66,978	1/2	56,736
3/4		3/4	138,461	3/4	128,218	3/4	117,976	3/4	107,734	3/4	97,491	3/4	87,249	3/4	77,007	3/4	66,765	3/4	56,522
7		7	138,247	7	128,005	7	117,763	7	107,520	7	97,278	7	87,036	7	76,793	7	66,551	7	56,309
1/4		1/4	138,034	1/4	127,792	1/4	117,549	1/4	107,307	1/4	97,065	1/4	86,822	1/4	76,580	1/4	66,338	1/4	56,095
1/2		1/2	137,821	1/2	127,578	1/2	117,336	1/2	107,094	1/2	96,851	1/2	86,609	1/2	76,367	1/2	66,124	1/2	55,882
3/4		3/4	137,607	3/4	127,365	3/4	117,123	3/4	106,880	3/4	96,638	3/4	86,396	3/4	76,153	3/4	65,911	3/4	55,669
8		8	137,394	8	127,152	8	116,909	8	106,667	8	96,425	8	86,182	8	75,940	8	65,698	8	55,455
1/4		1/4	137,180	1/4	126,938	1/4	116,696	1/4	106,453	1/4	96,211	1/4	85,969	1/4	75,727	1/4	65,484	1/4	55,242
1/2		1/2	136,967	1/2	126,725	1/2	116,482	1/2	106,240	1/2	95,998	1/2	85,755	1/2	75,513	1/2	65,271	1/2	55,029
3/4		3/4	136,754	3/4	126,511	3/4	116,269	3/4	106,027	3/4	95,784	3/4	85,542	3/4	75,300	3/4	65,057	3/4	54,815
9		9	136,540	9	126,298	9	116,056	9	105,813	9	95,571	9	85,329	9	75,086	9	64,844	9	54,602
1/4		1/4	136,327	1/4	126,085	1/4	115,842	1/4	105,600	1/4	95,358	1/4	85,115	1/4	74,873	1/4	64,631	1/4	54,388
1/2		1/2	136,114	1/2	125,871	1/2	115,629	1/2	105,387	1/2	95,144	1/2	84,902	1/2	74,660	1/2	64,417	1/2	54,175
3/4		3/4	135,900	3/4	125,658	3/4	115,416	3/4	105,173	3/4	94,931	3/4	84,689	3/4	74,446	3/4	64,204	3/4	53,962
10		10	135,687	10	125,444	10	115,202	10	104,960	10	94,718	10	84,475	10	74,233	10	63,991	10	53,748
1/4		1/4	135,473	1/4	125,231	1/4	114,989	1/4	104,746	1/4	94,504	1/4	84,262	1/4	74,019	1/4	63,777	1/4	53,535
1/2		1/2	135,260	1/2	125,018	1/2	114,775	1/2	104,533	1/2	94,291	1/2	84,048	1/2	73,806	1/2	63,564	1/2	53,321
3/4		3/4	135,047	3/4	124,804	3/4	114,562	3/4	104,320	3/4	94,077	3/4	83,835	3/4	73,593	3/4	63,350	3/4	53,108
11		11	134,833	11	124,591	11	114,349	11	104,106	11	93,864	11	83,622	11	73,379	11	63,137	11	52,895
1/4		1/4	134,620	1/4	124,378	1/4	114,135	1/4	103,893	1/4	93,651	1/4	83,408	1/4	73,166	1/4	62,924	1/4	52,681
1/2		1/2	134,406	1/2	124,164	1/2	113,922	1/2	103,680	1/2	93,437	1/2	83,195	1/2	72,953	1/2	62,710	1/2	52,468
3/4		3/4	143,145	3/4	134,193	3/4	123,951	3/4	113,708	3/4	103,466	3/4	93,224	3/4	82,982	3/4	72,739	3/4	62,255

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 1203"

2 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	52,041	0	41,799	0	31,588	0	21,566	0	11,325	0	1,128	0		0		0			
1/4	51,828	1/4	41,585	1/4	31,381	1/4	21,353	1/4	11,111	1/4	951	1/4		1/4		1/4		1/4	
1/2	51,614	1/2	41,372	1/2	31,174	1/2	21,140	1/2	10,898	1/2	773	1/2		1/2		1/2		1/2	
3/4	51,401	3/4	41,159	3/4	30,966	3/4	20,926	3/4	10,684	3/4	595	3/4		3/4		3/4		3/4	
1	51,188	1	40,945	1	30,759	1	20,713	1	10,471	1	488	1		1		1		1	
1/4	50,974	1/4	40,732	1/4	30,552	1/4	20,500	1/4	10,258	1/4	382	1/4		1/4		1/4		1/4	
1/2	50,761	1/2	40,519	1/2	30,345	1/2	20,286	1/2	10,044	1/2	275	1/2		1/2		1/2		1/2	
3/4	50,548	3/4	40,305	3/4	30,138	3/4	20,073	3/4	9,831	3/4	168	3/4		3/4		3/4		3/4	
2	50,334	2	40,092	2	29,931	2	19,859	2	9,618	2	133	2		2		2		2	
1/4	50,121	1/4	39,878	1/4	29,724	1/4	19,646	1/4	9,404	1/4	97	1/4		1/4		1/4		1/4	
1/2	49,907	1/2	39,665	1/2	29,517	1/2	19,433	1/2	9,191	1/2	62	1/2		1/2		1/2		1/2	
3/4	49,694	3/4	39,452	3/4	29,310	3/4	19,219	3/4	8,977	3/4	26	3/4		3/4		3/4		3/4	
3	49,481	3	39,238	3	29,103	3	19,006	3	8,764	3		3		3		3		3	
1/4	49,267	1/4	39,025	1/4	28,896	1/4	18,793	1/4	8,551	1/4		1/4		1/4		1/4		1/4	
1/2	49,054	1/2	38,812	1/2	28,689	1/2	18,579	1/2	8,337	1/2		1/2		1/2		1/2		1/2	
3/4	48,840	3/4	38,598	3/4	28,482	3/4	18,366	3/4	8,124	3/4		3/4		3/4		3/4		3/4	
4	48,627	4	38,385	4	28,275	4	18,152	4	7,911	4		4		4		4		4	
1/4	48,414	1/4	38,171	1/4	28,067	1/4	17,939	1/4	7,697	1/4		1/4		1/4		1/4		1/4	
1/2	48,200	1/2	37,958	1/2	27,860	1/2	17,726	1/2	7,484	1/2		1/2		1/2		1/2		1/2	
3/4	47,987	3/4	37,745	3/4	27,653	3/4	17,512	3/4	7,270	3/4		3/4		3/4		3/4		3/4	
5	47,774	5	37,531	5	27,446	5	17,299	5	7,057	5		5		5		5		5	
1/4	47,560	1/4	37,318	1/4	27,239	1/4	17,086	1/4	6,844	1/4		1/4		1/4		1/4		1/4	
1/2	47,347	1/2	37,104	1/2	27,032	1/2	16,872	1/2	6,630	1/2		1/2		1/2		1/2		1/2	
3/4	47,133	3/4	36,891	3/4	26,825	3/4	16,659	3/4	6,417	3/4		3/4		3/4		3/4		3/4	
6	46,920	6	36,678	6	26,618	6	16,445	6	6,204	6		6		6		6		6	
1/4	46,707	1/4	36,464	1/4	26,411	1/4	16,232	1/4	5,990	1/4		1/4		1/4		1/4		1/4	
1/2	46,493	1/2	36,251	1/2	26,204	1/2	16,019	1/2	5,777	1/2		1/2		1/2		1/2		1/2	
3/4	46,280	3/4	36,038	3/4	25,997	3/4	15,805	3/4	5,564	3/4		3/4		3/4		3/4		3/4	
7	46,067	7	35,824	7	25,790	7	15,592	7	5,350	7		7		7		7		7	
1/4	45,853	1/4	35,611	1/4	25,583	1/4	15,379	1/4	5,137	1/4		1/4		1/4		1/4		1/4	
1/2	45,640	1/2	35,397	1/2	25,376	1/2	15,165	1/2	4,924	1/2		1/2		1/2		1/2		1/2	
3/4	45,426	3/4	35,184	3/4	25,169	3/4	14,952	3/4	4,710	3/4		3/4		3/4		3/4		3/4	
8	45,213	8	34,971	8	24,961	8	14,738	8	4,497	8		8		8		8		8	
1/4	45,000	1/4	34,757	1/4	24,754	1/4	14,525	1/4	4,283	1/4		1/4		1/4		1/4		1/4	
1/2	44,786	1/2	34,544	1/2	24,547	1/2	14,312	1/2	4,070	1/2		1/2		1/2		1/2		1/2	
3/4	44,573	3/4	34,331	3/4	24,340	3/4	14,098	3/4	3,857	3/4		3/4		3/4		3/4		3/4	
9	44,359	9	34,117	9	24,127	9	13,885	9	3,643	9		9		9		9		9	
1/4	44,146	1/4	33,904	1/4	23,914	1/4	13,672	1/4	3,430	1/4		1/4		1/4		1/4		1/4	
1/2	43,933	1/2	33,690	1/2	23,700	1/2	13,458	1/2	3,217	1/2		1/2		1/2		1/2		1/2	
3/4	43,719	3/4	33,477	3/4	23,487	3/4	13,245	3/4	3,003	3/4		3/4		3/4		3/4		3/4	
10	43,506	10	33,264	10	23,273	10	13,032	10	2,791	10		10		10		10		10	
1/4	43,293	1/4	33,050	1/4	23,060	1/4	12,818	1/4	2,578	1/4		1/4		1/4		1/4		1/4	
1/2	43,079	1/2	32,837	1/2	22,847	1/2	12,605	1/2	2,365	1/2		1/2		1/2		1/2		1/2	
3/4	42,866	3/4	32,623	3/4	22,633	3/4	12,391	3/4	2,152	3/4		3/4		3/4		3/4		3/4	
11	42,652	11	32,416	11	22,420	11	12,178	11	1,941	11		11		11		11		11	
1/4	42,439	1/4	32,209	1/4	22,207	1/4	11,965	1/4	1,729	1/4		1/4		1/4		1/4		1/4	
1/2	42,226	1/2	32,002	1/2	21,993	1/2	11,751	1/2	1,518	1/2		1/2		1/2		1/2		1/2	
3/4	42,012	3/4	31,795	3/4	21,780	3/4	11,538	3/4	1,306	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 01/08/2018 SW
CALCULATED: 01/09/2018 CL
PRINTED: 01/09/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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 1203"

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	133,660	0	123,509	0	113,357	0	103,206	0	93,054	0	82,902	0	72,751	0	62,599
1/4		1/4		1/4	133,449	1/4	123,297	1/4	113,146	1/4	102,994	1/4	92,842	1/4	82,691	1/4	72,539	1/4	62,388
1/2		1/2	142,110	1/2	133,237	1/2	123,086	1/2	112,934	1/2	102,783	1/2	92,631	1/2	82,479	1/2	72,328	1/2	62,176
3/4		3/4	142,075	3/4	133,026	3/4	122,874	3/4	112,723	3/4	102,571	3/4	92,419	3/4	82,268	3/4	72,116	3/4	61,965
1		1	142,040	1	132,814	1	122,663	1	112,511	1	102,360	1	92,208	1	82,056	1	71,905	1	61,753
1/4		1/4	142,004	1/4	132,603	1/4	122,451	1/4	112,300	1/4	102,148	1/4	91,996	1/4	81,845	1/4	71,693	1/4	61,542
1/2		1/2	141,969	1/2	132,391	1/2	122,240	1/2	112,088	1/2	101,937	1/2	91,785	1/2	81,633	1/2	71,482	1/2	61,330
3/4		3/4	141,863	3/4	132,180	3/4	122,028	3/4	111,877	3/4	101,725	3/4	91,573	3/4	81,422	3/4	71,270	3/4	61,119
2		2	141,758	2	131,968	2	121,817	2	111,665	2	101,514	2	91,362	2	81,210	2	71,059	2	60,907
1/4		1/4	141,652	1/4	131,757	1/4	121,605	1/4	111,454	1/4	101,302	1/4	91,150	1/4	80,999	1/4	70,847	1/4	60,696
1/2		1/2	141,546	1/2	131,545	1/2	121,394	1/2	111,242	1/2	101,091	1/2	90,939	1/2	80,787	1/2	70,636	1/2	60,484
3/4		3/4	141,370	3/4	131,334	3/4	121,182	3/4	111,031	3/4	100,879	3/4	90,727	3/4	80,576	3/4	70,424	3/4	60,273
3		3	141,194	3	131,122	3	120,971	3	110,819	3	100,668	3	90,516	3	80,364	3	70,213	3	60,061
1/4		1/4	141,018	1/4	130,911	1/4	120,759	1/4	110,608	1/4	100,456	1/4	90,304	1/4	80,153	1/4	70,001	1/4	59,850
1/2		1/2	140,841	1/2	130,699	1/2	120,548	1/2	110,396	1/2	100,245	1/2	90,093	1/2	79,941	1/2	69,790	1/2	59,638
3/4		3/4	140,632	3/4	130,488	3/4	120,336	3/4	110,185	3/4	100,033	3/4	89,881	3/4	79,730	3/4	69,578	3/4	59,427
4		4	140,422	4	130,277	4	120,125	4	109,973	4	99,822	4	89,670	4	79,518	4	69,367	4	59,215
1/4		1/4	140,212	1/4	130,065	1/4	119,913	1/4	109,762	1/4	99,610	1/4	89,459	1/4	79,307	1/4	69,155	1/4	59,004
1/2		1/2	140,003	1/2	129,854	1/2	119,702	1/2	109,550	1/2	99,399	1/2	89,247	1/2	79,095	1/2	68,944	1/2	58,792
3/4		3/4	139,792	3/4	129,642	3/4	119,490	3/4	109,339	3/4	99,187	3/4	89,036	3/4	78,884	3/4	68,732	3/4	58,581
5		5	139,581	5	129,431	5	119,279	5	109,127	5	98,976	5	88,824	5	78,672	5	68,521	5	58,369
1/4		1/4	139,370	1/4	129,219	1/4	119,067	1/4	108,916	1/4	98,764	1/4	88,613	1/4	78,461	1/4	68,309	1/4	58,158
1/2		1/2	139,159	1/2	129,008	1/2	118,856	1/2	108,704	1/2	98,553	1/2	88,401	1/2	78,249	1/2	68,098	1/2	57,946
3/4		3/4	138,947	3/4	128,796	3/4	118,644	3/4	108,493	3/4	98,341	3/4	88,190	3/4	78,038	3/4	67,886	3/4	57,735
6		6	138,736	6	128,585	6	118,433	6	108,281	6	98,130	6	87,978	6	77,826	6	67,675	6	57,523
1/4		1/4	138,525	1/4	128,373	1/4	118,221	1/4	108,070	1/4	97,918	1/4	87,767	1/4	77,615	1/4	67,463	1/4	57,312
1/2		1/2	138,313	1/2	128,162	1/2	118,010	1/2	107,858	1/2	97,707	1/2	87,555	1/2	77,403	1/2	67,252	1/2	57,100
3/4		3/4	138,102	3/4	127,950	3/4	117,798	3/4	107,647	3/4	97,495	3/4	87,344	3/4	77,192	3/4	67,040	3/4	56,889
7		7	137,890	7	127,739	7	117,587	7	107,435	7	97,284	7	87,132	7	76,980	7	66,829	7	56,677
1/4		1/4	137,679	1/4	127,527	1/4	117,375	1/4	107,224	1/4	97,072	1/4	86,921	1/4	76,769	1/4	66,617	1/4	56,466
1/2		1/2	137,467	1/2	127,316	1/2	117,164	1/2	107,012	1/2	96,861	1/2	86,709	1/2	76,557	1/2	66,406	1/2	56,254
3/4		3/4	137,256	3/4	127,104	3/4	116,952	3/4	106,801	3/4	96,649	3/4	86,498	3/4	76,346	3/4	66,194	3/4	56,043
8		8	137,044	8	126,893	8	116,741	8	106,589	8	96,438	8	86,286	8	76,135	8	65,983	8	55,831
1/4		1/4	136,833	1/4	126,681	1/4	116,530	1/4	106,378	1/4	96,226	1/4	86,075	1/4	75,923	1/4	65,771	1/4	55,620
1/2		1/2	136,621	1/2	126,470	1/2	116,318	1/2	106,166	1/2	96,015	1/2	85,863	1/2	75,712	1/2	65,560	1/2	55,408
3/4		3/4	136,410	3/4	126,258	3/4	116,107	3/4	105,955	3/4	95,803	3/4	85,652	3/4	75,500	3/4	65,348	3/4	55,197
9		9	136,198	9	126,047	9	115,895	9	105,743	9	95,592	9	85,440	9	75,289	9	65,137	9	54,985
1/4		1/4	135,987	1/4	125,835	1/4	115,684	1/4	105,532	1/4	95,380	1/4	85,229	1/4	75,077	1/4	64,925	1/4	54,774
1/2		1/2	135,775	1/2	125,624	1/2	115,472	1/2	105,320	1/2	95,169	1/2	85,017	1/2	74,866	1/2	64,714	1/2	54,562
3/4		3/4	135,564	3/4	125,412	3/4	115,261	3/4	105,109	3/4	94,957	3/4	84,806	3/4	74,654	3/4	64,502	3/4	54,351
10		10	135,352	10	125,201	10	115,049	10	104,897	10	94,746	10	84,594	10	74,443	10	64,291	10	54,139
1/4		1/4	135,141	1/4	124,989	1/4	114,838	1/4	104,686	1/4	94,534	1/4	84,383	1/4	74,231	1/4	64,079	1/4	53,928
1/2		1/2	134,929	1/2	124,778	1/2	114,626	1/2	104,474	1/2	94,323	1/2	84,171	1/2	74,020	1/2	63,868	1/2	53,716
3/4		3/4	134,718	3/4	124,566	3/4	114,415	3/4	104,263	3/4	94,111	3/4	83,960	3/4	73,808	3/4	63,656	3/4	53,505
11		11	134,506	11	124,355	11	114,203	11	104,051	11	93,900	11	83,748	11	73,597	11	63,445	11	53,293
1/4		1/4	134,295	1/4	124,143	1/4	113,992	1/4	103,840	1/4	93,688	1/4	83,537	1/4	73,385	1/4	63,233	1/4	53,082
1/2		1/2	134,083	1/2	123,932	1/2	113,780	1/2	103,628	1/2	93,477	1/2	83,325	1/2	73,174	1/2	63,022	1/2	52,870
3/4		3/4	133,872	3/4	123,720	3/4	113,569	3/4	103,417	3/4	93,265	3/4	83,114	3/4	72,962	3/4	62,810	3/4	52,659

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 1203"

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	52,447	0	42,296	0	32,145	0	22,010	0	11,859	0	1,714	0		0		0		0	
1/4	52,236	1/4	42,084	1/4	31,934	1/4	21,799	1/4	11,648	1/4	1,504	1/4		1/4	1/4		1/4	1/4	
1/2	52,024	1/2	41,873	1/2	31,723	1/2	21,587	1/2	11,436	1/2	1,295	1/2		1/2	1/2		1/2	1/2	
3/4	51,813	3/4	41,661	3/4	31,512	3/4	21,376	3/4	11,225	3/4	1,119	3/4		3/4	3/4		3/4	3/4	
1	51,601	1	41,450	1	31,301	1	21,164	1	11,013	1	943	1		1	1		1	1	
1/4	51,390	1/4	41,238	1/4	31,089	1/4	20,953	1/4	10,802	1/4	766	1/4		1/4	1/4		1/4	1/4	
1/2	51,178	1/2	41,027	1/2	30,878	1/2	20,741	1/2	10,590	1/2	590	1/2		1/2	1/2		1/2	1/2	
3/4	50,967	3/4	40,815	3/4	30,667	3/4	20,530	3/4	10,379	3/4	485	3/4		3/4	3/4		3/4	3/4	
2	50,755	2	40,604	2	30,456	2	20,318	2	10,167	2	379	2		2	2		2	2	
1/4	50,544	1/4	40,392	1/4	30,245	1/4	20,107	1/4	9,956	1/4	273	1/4		1/4	1/4		1/4	1/4	
1/2	50,332	1/2	40,181	1/2	30,034	1/2	19,895	1/2	9,744	1/2	167	1/2		1/2	1/2		1/2	1/2	
3/4	50,121	3/4	39,969	3/4	29,823	3/4	19,684	3/4	9,533	3/4	132	3/4		3/4	3/4		3/4	3/4	
3	49,909	3	39,758	3	29,612	3	19,472	3	9,321	3	97	3		3	3		3	3	
1/4	49,698	1/4	39,546	1/4	29,401	1/4	19,261	1/4	9,110	1/4	62	1/4		1/4	1/4		1/4	1/4	
1/2	49,486	1/2	39,335	1/2	29,190	1/2	19,050	1/2	8,898	1/2	26	1/2		1/2	1/2		1/2	1/2	
3/4	49,275	3/4	39,123	3/4	28,979	3/4	18,838	3/4	8,687	3/4		3/4		3/4	3/4		3/4	3/4	
4	49,063	4	38,912	4	28,768	4	18,627	4	8,475	4		4		4	4		4	4	
1/4	48,852	1/4	38,700	1/4	28,557	1/4	18,415	1/4	8,264	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	48,641	1/2	38,489	1/2	28,346	1/2	18,204	1/2	8,052	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	48,429	3/4	38,277	3/4	28,135	3/4	17,992	3/4	7,841	3/4		3/4		3/4	3/4		3/4	3/4	
5	48,218	5	38,066	5	27,924	5	17,781	5	7,629	5		5		5	5		5	5	
1/4	48,006	1/4	37,854	1/4	27,713	1/4	17,569	1/4	7,418	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	47,795	1/2	37,643	1/2	27,502	1/2	17,358	1/2	7,206	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	47,583	3/4	37,431	3/4	27,291	3/4	17,146	3/4	6,995	3/4		3/4		3/4	3/4		3/4	3/4	
6	47,372	6	37,220	6	27,080	6	16,935	6	6,784	6		6		6	6		6	6	
1/4	47,160	1/4	37,008	1/4	26,869	1/4	16,723	1/4	6,572	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	46,949	1/2	36,797	1/2	26,658	1/2	16,512	1/2	6,361	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	46,737	3/4	36,585	3/4	26,447	3/4	16,300	3/4	6,149	3/4		3/4		3/4	3/4		3/4	3/4	
7	46,526	7	36,374	7	26,235	7	16,089	7	5,938	7		7		7	7		7	7	
1/4	46,314	1/4	36,162	1/4	26,024	1/4	15,877	1/4	5,726	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	46,103	1/2	35,951	1/2	25,813	1/2	15,666	1/2	5,515	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	45,891	3/4	35,739	3/4	25,602	3/4	15,454	3/4	5,303	3/4		3/4		3/4	3/4		3/4	3/4	
8	45,680	8	35,528	8	25,391	8	15,243	8	5,092	8		8		8	8		8	8	
1/4	45,468	1/4	35,317	1/4	25,180	1/4	15,031	1/4	4,880	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	45,257	1/2	35,105	1/2	24,969	1/2	14,820	1/2	4,669	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	45,045	3/4	34,894	3/4	24,758	3/4	14,608	3/4	4,457	3/4		3/4		3/4	3/4		3/4	3/4	
9	44,834	9	34,682	9	24,547	9	14,397	9	4,246	9		9		9	9		9	9	
1/4	44,622	1/4	34,471	1/4	24,336	1/4	14,185	1/4	4,034	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	44,411	1/2	34,259	1/2	24,125	1/2	13,974	1/2	3,823	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	44,199	3/4	34,048	3/4	23,914	3/4	13,762	3/4	3,612	3/4		3/4		3/4	3/4		3/4	3/4	
10	43,988	10	33,836	10	23,702	10	13,551	10	3,400	10		10		10	10		10	10	
1/4	43,776	1/4	33,625	1/4	23,491	1/4	13,339	1/4	3,189	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	43,565	1/2	33,413	1/2	23,279	1/2	13,128	1/2	2,977	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	43,353	3/4	33,202	3/4	23,068	3/4	12,917	3/4	2,766	3/4		3/4		3/4	3/4		3/4	3/4	
11	43,142	11	32,990	11	22,856	11	12,705	11	2,555	11		11		11	11		11	11	
1/4	42,930	1/4	32,779	1/4	22,645	1/4	12,494	1/4	2,344	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	42,719	1/2	32,567	1/2	22,433	1/2	12,282	1/2	2,133	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	42,507	3/4	32,356	3/4	22,222	3/4	12,071	3/4	1,924	3/4		3/4		3/4	3/4		3/4	3/4	

STRAPPED: 01/08/2018 SW
CALCULATED: 01/09/2018 CL
PRINTED: 01/09/2018 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2018

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