



BARGE "IB 1964"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 CENTER IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 182'-09"

February 27, 2016

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

<http://www.pmacorp.net>



BARGE "IB 1964"

1 CENTER INNAGE 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	26	0	10,176	0	22,179	0	34,021	0	45,913	0	57,908	0	69,886	0	81,888	0	93,890	0	105,892
1/4	68	1/4	10,426	1/4	22,429	1/4	34,264	1/4	46,163	1/4	58,158	1/4	70,137	1/4	82,139	1/4	94,140	1/4	106,142
1/2	110	1/2	10,676	1/2	22,679	1/2	34,508	1/2	46,412	1/2	58,407	1/2	70,387	1/2	82,389	1/2	94,390	1/2	106,392
3/4	152	3/4	10,926	3/4	22,929	3/4	34,751	3/4	46,662	3/4	58,657	3/4	70,637	3/4	82,639	3/4	94,640	3/4	106,642
1	193	1	11,176	1	23,179	1	34,995	1	46,912	1	58,906	1	70,887	1	82,889	1	94,890	1	106,892
1/4	285	1/4	11,427	1/4	23,429	1/4	35,238	1/4	47,162	1/4	59,156	1/4	71,137	1/4	83,139	1/4	95,140	1/4	107,142
1/2	377	1/2	11,677	1/2	23,679	1/2	35,481	1/2	47,412	1/2	59,405	1/2	71,387	1/2	83,389	1/2	95,390	1/2	107,392
3/4	469	3/4	11,927	3/4	23,929	3/4	35,725	3/4	47,662	3/4	59,655	3/4	71,637	3/4	83,639	3/4	95,640	3/4	107,642
2	561	2	12,177	2	24,179	2	35,968	2	47,912	2	59,904	2	71,887	2	83,889	2	95,890	2	107,892
1/4	726	1/4	12,427	1/4	24,429	1/4	36,212	1/4	48,162	1/4	60,153	1/4	72,137	1/4	84,139	1/4	96,140	1/4	108,142
1/2	890	1/2	12,677	1/2	24,679	1/2	36,455	1/2	48,412	1/2	60,403	1/2	72,387	1/2	84,389	1/2	96,390	1/2	108,392
3/4	1,054	3/4	12,927	3/4	24,929	3/4	36,698	3/4	48,662	3/4	60,652	3/4	72,637	3/4	84,639	3/4	96,640	3/4	108,642
3	1,219	3	13,177	3	25,179	3	36,942	3	48,912	3	60,902	3	72,887	3	84,889	3	96,890	3	108,892
1/4	1,456	1/4	13,427	1/4	25,429	1/4	37,185	1/4	49,161	1/4	61,151	1/4	73,137	1/4	85,139	1/4	97,140	1/4	109,142
1/2	1,693	1/2	13,677	1/2	25,680	1/2	37,429	1/2	49,411	1/2	61,401	1/2	73,387	1/2	85,389	1/2	97,390	1/2	109,392
3/4	1,930	3/4	13,927	3/4	25,930	3/4	37,672	3/4	49,661	3/4	61,650	3/4	73,637	3/4	85,639	3/4	97,640	3/4	109,642
4	2,168	4	14,177	4	26,180	4	37,915	4	49,911	4	61,900	4	73,887	4	85,889	4	97,890	4	109,892
1/4	2,418	1/4	14,427	1/4	26,430	1/4	38,165	1/4	50,161	1/4	62,149	1/4	74,137	1/4	86,139	1/4	98,140	1/4	110,142
1/2	2,668	1/2	14,677	1/2	26,680	1/2	38,415	1/2	50,411	1/2	62,398	1/2	74,387	1/2	86,389	1/2	98,390	1/2	110,392
3/4	2,917	3/4	14,927	3/4	26,930	3/4	38,665	3/4	50,661	3/4	62,648	3/4	74,637	3/4	86,639	3/4	98,640	3/4	110,642
5	3,167	5	15,177	5	27,180	5	38,915	5	50,911	5	62,897	5	74,887	5	86,889	5	98,890	5	110,892
1/4	3,418	1/4	15,427	1/4	27,430	1/4	39,165	1/4	51,161	1/4	63,147	1/4	75,137	1/4	87,139	1/4	99,140	1/4	111,142
1/2	3,668	1/2	15,677	1/2	27,680	1/2	39,415	1/2	51,411	1/2	63,396	1/2	75,387	1/2	87,389	1/2	99,390	1/2	111,392
3/4	3,919	3/4	15,928	3/4	27,930	3/4	39,665	3/4	51,661	3/4	63,646	3/4	75,637	3/4	87,639	3/4	99,640	3/4	111,642
6	4,169	6	16,178	6	28,180	6	39,915	6	51,911	6	63,895	6	75,887	6	87,890	6	99,890	6	111,892
1/4	4,420	1/4	16,428	1/4	28,423	1/4	40,165	1/4	52,160	1/4	64,144	1/4	76,138	1/4	88,140	1/4	100,141	1/4	112,143
1/2	4,670	1/2	16,678	1/2	28,667	1/2	40,415	1/2	52,410	1/2	64,394	1/2	76,388	1/2	88,390	1/2	100,391	1/2	112,393
3/4	4,921	3/4	16,928	3/4	28,910	3/4	40,664	3/4	52,660	3/4	64,643	3/4	76,638	3/4	88,640	3/4	100,641	3/4	112,643
7	5,172	7	17,178	7	29,154	7	40,914	7	52,910	7	64,893	7	76,888	7	88,890	7	100,891	7	112,893
1/4	5,422	1/4	17,428	1/4	29,397	1/4	41,164	1/4	53,160	1/4	65,142	1/4	77,138	1/4	89,140	1/4	101,141	1/4	113,143
1/2	5,672	1/2	17,678	1/2	29,640	1/2	41,414	1/2	53,410	1/2	65,392	1/2	77,388	1/2	89,390	1/2	101,391	1/2	113,393
3/4	5,923	3/4	17,928	3/4	29,884	3/4	41,664	3/4	53,660	3/4	65,641	3/4	77,638	3/4	89,640	3/4	101,641	3/4	113,643
8	6,173	8	18,178	8	30,127	8	41,914	8	53,910	8	65,891	8	77,888	8	89,890	8	101,891	8	113,893
1/4	6,423	1/4	18,428	1/4	30,370	1/4	42,164	1/4	54,160	1/4	66,140	1/4	78,138	1/4	90,140	1/4	102,141	1/4	114,143
1/2	6,673	1/2	18,678	1/2	30,614	1/2	42,414	1/2	54,410	1/2	66,389	1/2	78,388	1/2	90,390	1/2	102,391	1/2	114,393
3/4	6,923	3/4	18,928	3/4	30,857	3/4	42,664	3/4	54,660	3/4	66,639	3/4	78,638	3/4	90,640	3/4	102,641	3/4	114,643
9	7,173	9	19,178	9	31,101	9	42,914	9	54,909	9	66,888	9	78,888	9	90,890	9	102,891	9	114,893
1/4	7,424	1/4	19,428	1/4	31,344	1/4	43,164	1/4	55,159	1/4	67,138	1/4	79,138	1/4	91,140	1/4	103,141	1/4	115,143
1/2	7,674	1/2	19,678	1/2	31,587	1/2	43,413	1/2	55,409	1/2	67,387	1/2	79,388	1/2	91,390	1/2	103,391	1/2	115,393
3/4	7,924	3/4	19,928	3/4	31,831	3/4	43,663	3/4	55,659	3/4	67,637	3/4	79,638	3/4	91,640	3/4	103,641	3/4	115,643
10	8,175	10	20,178	10	32,074	10	43,913	10	55,909	10	67,886	10	79,888	10	91,890	10	103,891	10	115,893
1/4	8,425	1/4	20,428	1/4	32,317	1/4	44,163	1/4	56,159	1/4	68,136	1/4	80,138	1/4	92,140	1/4	104,141	1/4	116,143
1/2	8,675	1/2	20,679	1/2	32,561	1/2	44,413	1/2	56,409	1/2	68,386	1/2	80,388	1/2	92,390	1/2	104,391	1/2	116,393
3/4	8,926	3/4	20,929	3/4	32,804	3/4	44,663	3/4	56,659	3/4	68,636	3/4	80,638	3/4	92,640	3/4	104,641	3/4	116,644
11	9,176	11	21,179	11	33,048	11	44,913	11	56,909	11	68,886	11	80,888	11	92,890	11	104,892	11	116,894
1/4	9,426	1/4	21,429	1/4	33,291	1/4	45,163	1/4	57,159	1/4	69,136	1/4	81,138	1/4	93,140	1/4	105,142	1/4	117,144
1/2	9,676	1/2	21,679	1/2	33,534	1/2	45,413	1/2	57,409	1/2	69,386	1/2	81,388	1/2	93,390	1/2	105,392	1/2	117,395
3/4	9,926	3/4	21,929	3/4	33,778	3/4	45,663	3/4	57,659	3/4	69,636	3/4	81,638	3/4	93,640	3/4	105,642	3/4	117,645

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "IB 1964"

1 CENTER INNAGE 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	117,896	0	128,504	0	136,279	0	144,054	0	151,820	0		0		0		0		0	
1/4	118,146	1/4	128,666	1/4	136,441	1/4	144,216	1/4	151,957	1/4		1/4		1/4		1/4		1/4	
1/2	118,397	1/2	128,828	1/2	136,603	1/2	144,378	1/2	152,095	1/2		1/2		1/2		1/2		1/2	
3/4	118,647	3/4	128,990	3/4	136,765	3/4	144,539	3/4	152,233	3/4		3/4		3/4		3/4		3/4	
1	118,898	1	129,152	1	136,927	1	144,701	1	152,370	1		1		1		1		1	
1/4	119,148	1/4	129,314	1/4	137,089	1/4	144,863	1/4	152,428	1/4		1/4		1/4		1/4		1/4	
1/2	119,399	1/2	129,476	1/2	137,251	1/2	145,025	1/2	152,485	1/2		1/2		1/2		1/2		1/2	
3/4	119,649	3/4	129,638	3/4	137,413	3/4	145,187	3/4	152,543	3/4		3/4		3/4		3/4		3/4	
2	119,900	2	129,800	2	137,575	2	145,349	2	152,600	2		2		2		2		2	
1/4	120,151	1/4	129,962	1/4	137,737	1/4	145,511	1/4	152,663	1/4		1/4		1/4		1/4		1/4	
1/2	120,401	1/2	130,124	1/2	137,899	1/2	145,673	1/2	152,726	1/2		1/2		1/2		1/2		1/2	
3/4	120,652	3/4	130,286	3/4	138,061	3/4	145,835	3/4	152,788	3/4		3/4		3/4		3/4		3/4	
3	120,902	3	130,448	3	138,223	3	145,997	3	152,851	3		3		3		3		3	
1/4	121,153	1/4	130,610	1/4	138,385	1/4	146,159	1/4	152,861	1/4		1/4		1/4		1/4		1/4	
1/2	121,403	1/2	130,772	1/2	138,547	1/2	146,321	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,654	3/4	130,934	3/4	138,709	3/4	146,483	3/4		3/4		3/4		3/4		3/4		3/4	
4	121,904	4	131,096	4	138,871	4	146,645	4		4		4		4		4		4	
1/4	122,155	1/4	131,258	1/4	139,033	1/4	146,807	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,405	1/2	131,420	1/2	139,194	1/2	146,969	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,656	3/4	131,582	3/4	139,356	3/4	147,131	3/4		3/4		3/4		3/4		3/4		3/4	
5	122,906	5	131,744	5	139,518	5	147,293	5		5		5		5		5		5	
1/4	123,157	1/4	131,906	1/4	139,680	1/4	147,455	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123,408	1/2	132,068	1/2	139,842	1/2	147,617	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	123,658	3/4	132,230	3/4	140,004	3/4	147,779	3/4		3/4		3/4		3/4		3/4		3/4	
6	123,909	6	132,392	6	140,166	6	147,941	6		6		6		6		6		6	
1/4	124,159	1/4	132,554	1/4	140,328	1/4	148,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	124,410	1/2	132,716	1/2	140,490	1/2	148,265	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124,660	3/4	132,878	3/4	140,652	3/4	148,427	3/4		3/4		3/4		3/4		3/4		3/4	
7	124,911	7	133,040	7	140,814	7	148,589	7		7		7		7		7		7	
1/4	125,161	1/4	133,202	1/4	140,976	1/4	148,751	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	125,412	1/2	133,364	1/2	141,138	1/2	148,913	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125,662	3/4	133,526	3/4	141,300	3/4	149,075	3/4		3/4		3/4		3/4		3/4		3/4	
8	125,913	8	133,688	8	141,462	8	149,237	8		8		8		8		8		8	
1/4	126,075	1/4	133,849	1/4	141,624	1/4	149,399	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,237	1/2	134,011	1/2	141,786	1/2	149,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	126,399	3/4	134,173	3/4	141,948	3/4	149,723	3/4		3/4		3/4		3/4		3/4		3/4	
9	126,561	9	134,335	9	142,110	9	149,884	9		9		9		9		9		9	
1/4	126,723	1/4	134,497	1/4	142,272	1/4	150,046	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	126,885	1/2	134,659	1/2	142,434	1/2	150,208	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,047	3/4	134,821	3/4	142,596	3/4	150,370	3/4		3/4		3/4		3/4		3/4		3/4	
10	127,209	10	134,983	10	142,758	10	150,532	10		10		10		10		10		10	
1/4	127,371	1/4	135,145	1/4	142,920	1/4	150,694	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	127,533	1/2	135,307	1/2	143,082	1/2	150,855	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	127,695	3/4	135,469	3/4	143,244	3/4	151,017	3/4		3/4		3/4		3/4		3/4		3/4	
11	127,857	11	135,631	11	143,406	11	151,178	11		11		11		11		11		11	
1/4	128,019	1/4	135,793	1/4	143,568	1/4	151,339	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,181	1/2	135,955	1/2	143,730	1/2	151,499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	128,343	3/4	136,117	3/4	143,892	3/4	151,659	3/4		3/4		3/4		3/4		3/4		3/4	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "IB 1964"

2 CENTER INNAGE 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	26	0	10,117	0	21,663	0	33,039	0	44,472	0	56,018	0	67,565	0	79,111	0	90,657	0	102,203
1/4	66	1/4	10,358	1/4	21,903	1/4	33,272	1/4	44,713	1/4	56,259	1/4	67,805	1/4	79,351	1/4	90,897	1/4	102,443
1/2	106	1/2	10,598	1/2	22,144	1/2	33,506	1/2	44,953	1/2	56,500	1/2	68,046	1/2	79,592	1/2	91,138	1/2	102,684
3/4	147	3/4	10,839	3/4	22,384	3/4	33,739	3/4	45,194	3/4	56,740	3/4	68,286	3/4	79,832	3/4	91,378	3/4	102,925
1	187	1	11,079	1	22,625	1	33,973	1	45,435	1	56,981	1	68,527	1	80,073	1	91,619	1	103,165
1/4	307	1/4	11,320	1/4	22,865	1/4	34,206	1/4	45,675	1/4	57,221	1/4	68,767	1/4	80,313	1/4	91,860	1/4	103,406
1/2	427	1/2	11,560	1/2	23,106	1/2	34,440	1/2	45,916	1/2	57,462	1/2	69,008	1/2	80,554	1/2	92,100	1/2	103,646
3/4	547	3/4	11,801	3/4	23,347	3/4	34,673	3/4	46,156	3/4	57,702	3/4	69,248	3/4	80,795	3/4	92,341	3/4	103,887
2	668	2	12,041	2	23,587	2	34,907	2	46,397	2	57,943	2	69,489	2	81,035	2	92,581	2	104,127
1/4	868	1/4	12,282	1/4	23,828	1/4	35,140	1/4	46,637	1/4	58,183	1/4	69,729	1/4	81,276	1/4	92,822	1/4	104,368
1/2	1,068	1/2	12,522	1/2	24,068	1/2	35,374	1/2	46,878	1/2	58,424	1/2	69,970	1/2	81,516	1/2	93,062	1/2	104,608
3/4	1,269	3/4	12,763	3/4	24,309	3/4	35,607	3/4	47,118	3/4	58,664	3/4	70,211	3/4	81,757	3/4	93,303	3/4	104,849
3	1,469	3	13,004	3	24,549	3	35,841	3	47,359	3	58,905	3	70,451	3	81,997	3	93,543	3	105,089
1/4	1,708	1/4	13,244	1/4	24,790	1/4	36,074	1/4	47,599	1/4	59,146	1/4	70,692	1/4	82,238	1/4	93,784	1/4	105,330
1/2	1,946	1/2	13,485	1/2	25,030	1/2	36,308	1/2	47,840	1/2	59,386	1/2	70,932	1/2	82,478	1/2	94,024	1/2	105,571
3/4	2,184	3/4	13,725	3/4	25,271	3/4	36,541	3/4	48,080	3/4	59,627	3/4	71,173	3/4	82,719	3/4	94,265	3/4	105,811
4	2,423	4	13,966	4	25,511	4	36,775	4	48,321	4	59,867	4	71,413	4	82,959	4	94,506	4	106,052
1/4	2,663	1/4	14,206	1/4	25,752	1/4	37,015	1/4	48,562	1/4	60,108	1/4	71,654	1/4	83,200	1/4	94,746	1/4	106,292
1/2	2,903	1/2	14,447	1/2	25,992	1/2	37,256	1/2	48,802	1/2	60,348	1/2	71,894	1/2	83,440	1/2	94,987	1/2	106,533
3/4	3,143	3/4	14,687	3/4	26,233	3/4	37,497	3/4	49,043	3/4	60,589	3/4	72,135	3/4	83,681	3/4	95,227	3/4	106,773
5	3,383	5	14,928	5	26,474	5	37,737	5	49,283	5	60,829	5	72,375	5	83,922	5	95,468	5	107,014
1/4	3,623	1/4	15,168	1/4	26,714	1/4	37,978	1/4	49,524	1/4	61,070	1/4	72,616	1/4	84,162	1/4	95,708	1/4	107,254
1/2	3,864	1/2	15,409	1/2	26,955	1/2	38,218	1/2	49,764	1/2	61,310	1/2	72,857	1/2	84,403	1/2	95,949	1/2	107,495
3/4	4,104	3/4	15,649	3/4	27,195	3/4	38,459	3/4	50,005	3/4	61,551	3/4	73,097	3/4	84,643	3/4	96,189	3/4	107,735
6	4,344	6	15,890	6	27,436	6	38,699	6	50,245	6	61,792	6	73,338	6	84,884	6	96,430	6	107,976
1/4	4,585	1/4	16,131	1/4	27,669	1/4	38,940	1/4	50,486	1/4	62,032	1/4	73,578	1/4	85,124	1/4	96,670	1/4	108,217
1/2	4,826	1/2	16,371	1/2	27,903	1/2	39,180	1/2	50,726	1/2	62,273	1/2	73,819	1/2	85,365	1/2	96,911	1/2	108,457
3/4	5,066	3/4	16,612	3/4	28,136	3/4	39,421	3/4	50,967	3/4	62,513	3/4	74,059	3/4	85,605	3/4	97,152	3/4	108,698
7	5,307	7	16,852	7	28,370	7	39,661	7	51,208	7	62,754	7	74,300	7	85,846	7	97,392	7	108,938
1/4	5,547	1/4	17,093	1/4	28,603	1/4	39,902	1/4	51,448	1/4	62,994	1/4	74,540	1/4	86,086	1/4	97,633	1/4	109,179
1/2	5,788	1/2	17,333	1/2	28,836	1/2	40,143	1/2	51,689	1/2	63,235	1/2	74,781	1/2	86,327	1/2	97,873	1/2	109,419
3/4	6,028	3/4	17,574	3/4	29,070	3/4	40,383	3/4	51,929	3/4	63,475	3/4	75,021	3/4	86,568	3/4	98,114	3/4	109,660
8	6,269	8	17,814	8	29,303	8	40,624	8	52,170	8	63,716	8	75,262	8	86,808	8	98,354	8	109,900
1/4	6,509	1/4	18,055	1/4	29,537	1/4	40,864	1/4	52,410	1/4	63,956	1/4	75,503	1/4	87,049	1/4	98,595	1/4	110,141
1/2	6,750	1/2	18,295	1/2	29,770	1/2	41,105	1/2	52,651	1/2	64,197	1/2	75,743	1/2	87,289	1/2	98,835	1/2	110,381
3/4	6,990	3/4	18,536	3/4	30,004	3/4	41,345	3/4	52,891	3/4	64,438	3/4	75,984	3/4	87,530	3/4	99,076	3/4	110,622
9	7,231	9	18,776	9	30,237	9	41,586	9	53,132	9	64,678	9	76,224	9	87,770	9	99,316	9	110,863
1/4	7,471	1/4	19,017	1/4	30,471	1/4	41,826	1/4	53,372	1/4	64,919	1/4	76,465	1/4	88,011	1/4	99,557	1/4	111,103
1/2	7,712	1/2	19,257	1/2	30,704	1/2	42,067	1/2	53,613	1/2	65,159	1/2	76,705	1/2	88,251	1/2	99,797	1/2	111,344
3/4	7,952	3/4	19,498	3/4	30,938	3/4	42,307	3/4	53,854	3/4	65,400	3/4	76,946	3/4	88,492	3/4	100,038	3/4	111,584
10	8,193	10	19,739	10	31,171	10	42,548	10	54,094	10	65,640	10	77,186	10	88,732	10	100,279	10	111,825
1/4	8,433	1/4	19,979	1/4	31,405	1/4	42,789	1/4	54,335	1/4	65,881	1/4	77,427	1/4	88,973	1/4	100,519	1/4	112,065
1/2	8,674	1/2	20,220	1/2	31,638	1/2	43,029	1/2	54,575	1/2	66,121	1/2	77,667	1/2	89,214	1/2	100,760	1/2	112,306
3/4	8,914	3/4	20,460	3/4	31,872	3/4	43,270	3/4	54,816	3/4	66,362	3/4	77,908	3/4	89,454	3/4	101,000	3/4	112,546
11	9,155	11	20,701	11	32,105	11	43,510	11	55,056	11	66,602	11	78,149	11	89,695	11	101,241	11	112,787
1/4	9,396	1/4	20,941	1/4	32,339	1/4	43,751	1/4	55,297	1/4	66,843	1/4	78,389	1/4	89,935	1/4	101,481	1/4	113,027
1/2	9,636	1/2	21,182	1/2	32,572	1/2	43,991	1/2	55,537	1/2	67,083	1/2	78,630	1/2	90,176	1/2	101,722	1/2	113,268
3/4	9,877	3/4	21,422	3/4	32,805	3/4	44,232	3/4	55,778	3/4	67,324	3/4	78,870	3/4	90,416	3/4	101,962	3/4	113,509

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-06" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "IB 1964"

2 CENTER INNAGE 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	113,749	0	125,295	0	136,841	0	148,387	0	159,926	0		0		0		0		0	
1/4	113,990	1/4	125,536	1/4	137,082	1/4	148,628	1/4	160,143	1/4		1/4		1/4		1/4		1/4	
1/2	114,230	1/2	125,776	1/2	137,322	1/2	148,869	1/2	160,360	1/2		1/2		1/2		1/2		1/2	
3/4	114,471	3/4	126,017	3/4	137,563	3/4	149,109	3/4	160,577	3/4		3/4		3/4		3/4		3/4	
1	114,711	1	126,257	1	137,803	1	149,350	1	160,794	1		1		1		1		1	
1/4	114,952	1/4	126,498	1/4	138,044	1/4	149,590	1/4	160,934	1/4		1/4		1/4		1/4		1/4	
1/2	115,192	1/2	126,738	1/2	138,285	1/2	149,831	1/2	161,075	1/2		1/2		1/2		1/2		1/2	
3/4	115,433	3/4	126,979	3/4	138,525	3/4	150,071	3/4	161,215	3/4		3/4		3/4		3/4		3/4	
2	115,673	2	127,220	2	138,766	2	150,312	2	161,355	2		2		2		2		2	
1/4	115,914	1/4	127,460	1/4	139,006	1/4	150,552	1/4	161,416	1/4		1/4		1/4		1/4		1/4	
1/2	116,155	1/2	127,701	1/2	139,247	1/2	150,793	1/2	161,476	1/2		1/2		1/2		1/2		1/2	
3/4	116,395	3/4	127,941	3/4	139,487	3/4	151,033	3/4	161,536	3/4		3/4		3/4		3/4		3/4	
3	116,636	3	128,182	3	139,728	3	151,274	3	161,596	3		3		3		3		3	
1/4	116,876	1/4	128,422	1/4	139,968	1/4	151,515	1/4	161,606	1/4		1/4		1/4		1/4		1/4	
1/2	117,117	1/2	128,663	1/2	140,209	1/2	151,755	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	117,357	3/4	128,903	3/4	140,449	3/4	151,996	3/4		3/4		3/4		3/4		3/4		3/4	
4	117,598	4	129,144	4	140,690	4	152,236	4		4		4		4		4		4	
1/4	117,838	1/4	129,384	1/4	140,931	1/4	152,477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	118,079	1/2	129,625	1/2	141,171	1/2	152,717	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	118,319	3/4	129,866	3/4	141,412	3/4	152,958	3/4		3/4		3/4		3/4		3/4		3/4	
5	118,560	5	130,106	5	141,652	5	153,198	5		5		5		5		5		5	
1/4	118,800	1/4	130,347	1/4	141,893	1/4	153,439	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	119,041	1/2	130,587	1/2	142,133	1/2	153,679	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	119,282	3/4	130,828	3/4	142,374	3/4	153,920	3/4		3/4		3/4		3/4		3/4		3/4	
6	119,522	6	131,068	6	142,614	6	154,160	6		6		6		6		6		6	
1/4	119,763	1/4	131,309	1/4	142,855	1/4	154,401	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,003	1/2	131,549	1/2	143,095	1/2	154,642	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	120,244	3/4	131,790	3/4	143,336	3/4	154,882	3/4		3/4		3/4		3/4		3/4		3/4	
7	120,484	7	132,030	7	143,577	7	155,123	7		7		7		7		7		7	
1/4	120,725	1/4	132,271	1/4	143,817	1/4	155,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,965	1/2	132,512	1/2	144,058	1/2	155,604	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,206	3/4	132,752	3/4	144,298	3/4	155,844	3/4		3/4		3/4		3/4		3/4		3/4	
8	121,446	8	132,993	8	144,539	8	156,085	8		8		8		8		8		8	
1/4	121,687	1/4	133,233	1/4	144,779	1/4	156,325	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,928	1/2	133,474	1/2	145,020	1/2	156,566	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,168	3/4	133,714	3/4	145,260	3/4	156,806	3/4		3/4		3/4		3/4		3/4		3/4	
9	122,409	9	133,955	9	145,501	9	157,047	9		9		9		9		9		9	
1/4	122,649	1/4	134,195	1/4	145,741	1/4	157,288	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,890	1/2	134,436	1/2	145,982	1/2	157,528	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	123,130	3/4	134,676	3/4	146,223	3/4	157,769	3/4		3/4		3/4		3/4		3/4		3/4	
10	123,371	10	134,917	10	146,463	10	158,009	10		10		10		10		10		10	
1/4	123,611	1/4	135,157	1/4	146,704	1/4	158,249	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123,852	1/2	135,398	1/2	146,944	1/2	158,489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124,092	3/4	135,639	3/4	147,185	3/4	158,729	3/4		3/4		3/4		3/4		3/4		3/4	
11	124,333	11	135,879	11	147,425	11	158,970	11		11		11		11		11		11	
1/4	124,574	1/4	136,120	1/4	147,666	1/4	159,209	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	124,814	1/2	136,360	1/2	147,906	1/2	159,448	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	125,055	3/4	136,601	3/4	148,147	3/4	159,687	3/4		3/4		3/4		3/4		3/4		3/4	

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "IB 1964"

3 CENTER INNAGE 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	26	0	10,020	0	21,455	0	32,879	0	44,307	0	55,742	0	67,177	0	78,613	0	90,048	0	101,483
1/4	66	1/4	10,258	1/4	21,693	1/4	33,117	1/4	44,545	1/4	55,981	1/4	67,416	1/4	78,851	1/4	90,286	1/4	101,721
1/2	106	1/2	10,497	1/2	21,931	1/2	33,354	1/2	44,784	1/2	56,219	1/2	67,654	1/2	79,089	1/2	90,524	1/2	101,959
3/4	145	3/4	10,735	3/4	22,169	3/4	33,592	3/4	45,022	3/4	56,457	3/4	67,892	3/4	79,327	3/4	90,762	3/4	102,198
1	185	1	10,973	1	22,408	1	33,830	1	45,260	1	56,695	1	68,130	1	79,566	1	91,001	1	102,436
1/4	304	1/4	11,211	1/4	22,646	1/4	34,068	1/4	45,498	1/4	56,934	1/4	68,369	1/4	79,804	1/4	91,239	1/4	102,674
1/2	423	1/2	11,449	1/2	22,884	1/2	34,306	1/2	45,737	1/2	57,172	1/2	68,607	1/2	80,042	1/2	91,477	1/2	102,912
3/4	542	3/4	11,688	3/4	23,122	3/4	34,543	3/4	45,975	3/4	57,410	3/4	68,845	3/4	80,280	3/4	91,715	3/4	103,151
2	662	2	11,926	2	23,361	2	34,781	2	46,213	2	57,648	2	69,083	2	80,518	2	91,954	2	103,389
1/4	860	1/4	12,164	1/4	23,599	1/4	35,019	1/4	46,451	1/4	57,886	1/4	69,322	1/4	80,757	1/4	92,192	1/4	103,627
1/2	1,058	1/2	12,402	1/2	23,837	1/2	35,257	1/2	46,690	1/2	58,125	1/2	69,560	1/2	80,995	1/2	92,430	1/2	103,865
3/4	1,257	3/4	12,641	3/4	24,075	3/4	35,495	3/4	46,928	3/4	58,363	3/4	69,798	3/4	81,233	3/4	92,668	3/4	104,103
3	1,455	3	12,879	3	24,314	3	35,732	3	47,166	3	58,601	3	70,036	3	81,471	3	92,907	3	104,342
1/4	1,691	1/4	13,117	1/4	24,552	1/4	35,970	1/4	47,404	1/4	58,839	1/4	70,275	1/4	81,710	1/4	93,145	1/4	104,580
1/2	1,928	1/2	13,355	1/2	24,790	1/2	36,208	1/2	47,642	1/2	59,078	1/2	70,513	1/2	81,948	1/2	93,383	1/2	104,818
3/4	2,164	3/4	13,593	3/4	25,028	3/4	36,446	3/4	47,881	3/4	59,316	3/4	70,751	3/4	82,186	3/4	93,621	3/4	105,056
4	2,400	4	13,832	4	25,266	4	36,684	4	48,119	4	59,554	4	70,989	4	82,424	4	93,859	4	105,295
1/4	2,637	1/4	14,070	1/4	25,505	1/4	36,922	1/4	48,357	1/4	59,792	1/4	71,227	1/4	82,663	1/4	94,098	1/4	105,533
1/2	2,875	1/2	14,308	1/2	25,743	1/2	37,160	1/2	48,595	1/2	60,031	1/2	71,466	1/2	82,901	1/2	94,336	1/2	105,771
3/4	3,113	3/4	14,546	3/4	25,981	3/4	37,398	3/4	48,834	3/4	60,269	3/4	71,704	3/4	83,139	3/4	94,574	3/4	106,009
5	3,350	5	14,785	5	26,219	5	37,637	5	49,072	5	60,507	5	71,942	5	83,377	5	94,812	5	106,248
1/4	3,589	1/4	15,023	1/4	26,458	1/4	37,875	1/4	49,310	1/4	60,745	1/4	72,180	1/4	83,616	1/4	95,051	1/4	106,486
1/2	3,827	1/2	15,261	1/2	26,696	1/2	38,113	1/2	49,548	1/2	60,983	1/2	72,419	1/2	83,854	1/2	95,289	1/2	106,724
3/4	4,065	3/4	15,499	3/4	26,934	3/4	38,351	3/4	49,787	3/4	61,222	3/4	72,657	3/4	84,092	3/4	95,527	3/4	106,962
6	4,303	6	15,737	6	27,172	6	38,590	6	50,025	6	61,460	6	72,895	6	84,330	6	95,765	6	107,200
1/4	4,541	1/4	15,976	1/4	27,410	1/4	38,828	1/4	50,263	1/4	61,698	1/4	73,133	1/4	84,568	1/4	96,004	1/4	107,439
1/2	4,779	1/2	16,214	1/2	27,648	1/2	39,066	1/2	50,501	1/2	61,936	1/2	73,372	1/2	84,807	1/2	96,242	1/2	107,677
3/4	5,018	3/4	16,452	3/4	27,886	3/4	39,304	3/4	50,739	3/4	62,175	3/4	73,610	3/4	85,045	3/4	96,480	3/4	107,915
7	5,256	7	16,690	7	28,123	7	39,543	7	50,978	7	62,413	7	73,848	7	85,283	7	96,718	7	108,153
1/4	5,494	1/4	16,929	1/4	28,361	1/4	39,781	1/4	51,216	1/4	62,651	1/4	74,086	1/4	85,521	1/4	96,957	1/4	108,392
1/2	5,732	1/2	17,167	1/2	28,599	1/2	40,019	1/2	51,454	1/2	62,889	1/2	74,324	1/2	85,760	1/2	97,195	1/2	108,630
3/4	5,970	3/4	17,405	3/4	28,837	3/4	40,257	3/4	51,692	3/4	63,128	3/4	74,563	3/4	85,998	3/4	97,433	3/4	108,868
8	6,209	8	17,643	8	29,074	8	40,495	8	51,931	8	63,366	8	74,801	8	86,236	8	97,671	8	109,106
1/4	6,447	1/4	17,881	1/4	29,312	1/4	40,734	1/4	52,169	1/4	63,604	1/4	75,039	1/4	86,474	1/4	97,909	1/4	109,345
1/2	6,685	1/2	18,120	1/2	29,550	1/2	40,972	1/2	52,407	1/2	63,842	1/2	75,277	1/2	86,713	1/2	98,148	1/2	109,583
3/4	6,923	3/4	18,358	3/4	29,788	3/4	41,210	3/4	52,645	3/4	64,080	3/4	75,516	3/4	86,951	3/4	98,386	3/4	109,821
9	7,161	9	18,596	9	30,026	9	41,448	9	52,884	9	64,319	9	75,754	9	87,189	9	98,624	9	110,059
1/4	7,400	1/4	18,834	1/4	30,263	1/4	41,687	1/4	53,122	1/4	64,557	1/4	75,992	1/4	87,427	1/4	98,862	1/4	110,297
1/2	7,638	1/2	19,073	1/2	30,501	1/2	41,925	1/2	53,360	1/2	64,795	1/2	76,230	1/2	87,665	1/2	99,101	1/2	110,536
3/4	7,876	3/4	19,311	3/4	30,739	3/4	42,163	3/4	53,598	3/4	65,033	3/4	76,469	3/4	87,904	3/4	99,339	3/4	110,774
10	8,114	10	19,549	10	30,977	10	42,401	10	53,836	10	65,272	10	76,707	10	88,142	10	99,577	10	111,012
1/4	8,353	1/4	19,787	1/4	31,214	1/4	42,640	1/4	54,075	1/4	65,510	1/4	76,945	1/4	88,380	1/4	99,815	1/4	111,250
1/2	8,591	1/2	20,025	1/2	31,452	1/2	42,878	1/2	54,313	1/2	65,748	1/2	77,183	1/2	88,618	1/2	100,054	1/2	111,489
3/4	8,829	3/4	20,264	3/4	31,690	3/4	43,116	3/4	54,551	3/4	65,986	3/4	77,421	3/4	88,857	3/4	100,292	3/4	111,727
11	9,067	11	20,502	11	31,928	11	43,354	11	54,789	11	66,225	11	77,660	11	89,095	11	100,530	11	111,965
1/4	9,305	1/4	20,740	1/4	32,166	1/4	43,593	1/4	55,028	1/4	66,463	1/4	77,898	1/4	89,333	1/4	100,768	1/4	112,203
1/2	9,544	1/2	20,978	1/2	32,403	1/2	43,831	1/2	55,266	1/2	66,701	1/2	78,136	1/2	89,571	1/2	101,006	1/2	112,442
3/4	9,782	3/4	21,217	3/4	32,641	3/4	44,069	3/4	55,504	3/4	66,939	3/4	78,374	3/4	89,810	3/4	101,245	3/4	112,680

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "IB 1964"

3 CENTER INNAGE 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	112,918	0	124,353	0	135,788	0	147,223	0	158,651	0		0		0		0		0	
1/4	113,156	1/4	124,591	1/4	136,027	1/4	147,462	1/4	158,866	1/4		1/4		1/4		1/4		1/4	
1/2	113,395	1/2	124,830	1/2	136,265	1/2	147,700	1/2	159,081	1/2		1/2		1/2		1/2		1/2	
3/4	113,633	3/4	125,068	3/4	136,503	3/4	147,938	3/4	159,296	3/4		3/4		3/4		3/4		3/4	
1	113,871	1	125,306	1	136,741	1	148,176	1	159,511	1		1		1		1		1	
1/4	114,109	1/4	125,544	1/4	136,979	1/4	148,415	1/4	159,650	1/4		1/4		1/4		1/4		1/4	
1/2	114,347	1/2	125,783	1/2	137,218	1/2	148,653	1/2	159,789	1/2		1/2		1/2		1/2		1/2	
3/4	114,586	3/4	126,021	3/4	137,456	3/4	148,891	3/4	159,928	3/4		3/4		3/4		3/4		3/4	
2	114,824	2	126,259	2	137,694	2	149,129	2	160,067	2		2		2		2		2	
1/4	115,062	1/4	126,497	1/4	137,932	1/4	149,368	1/4	160,126	1/4		1/4		1/4		1/4		1/4	
1/2	115,300	1/2	126,736	1/2	138,171	1/2	149,606	1/2	160,186	1/2		1/2		1/2		1/2		1/2	
3/4	115,539	3/4	126,974	3/4	138,409	3/4	149,844	3/4	160,245	3/4		3/4		3/4		3/4		3/4	
3	115,777	3	127,212	3	138,647	3	150,082	3	160,305	3		3		3		3		3	
1/4	116,015	1/4	127,450	1/4	138,885	1/4	150,320	1/4	160,315	1/4		1/4		1/4		1/4		1/4	
1/2	116,253	1/2	127,688	1/2	139,124	1/2	150,559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	116,492	3/4	127,927	3/4	139,362	3/4	150,797	3/4		3/4		3/4		3/4		3/4		3/4	
4	116,730	4	128,165	4	139,600	4	151,035	4		4		4		4		4		4	
1/4	116,968	1/4	128,403	1/4	139,838	1/4	151,273	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	117,206	1/2	128,641	1/2	140,077	1/2	151,512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	117,444	3/4	128,880	3/4	140,315	3/4	151,750	3/4		3/4		3/4		3/4		3/4		3/4	
5	117,683	5	129,118	5	140,553	5	151,988	5		5		5		5		5		5	
1/4	117,921	1/4	129,356	1/4	140,791	1/4	152,226	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	118,159	1/2	129,594	1/2	141,029	1/2	152,465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	118,397	3/4	129,833	3/4	141,268	3/4	152,703	3/4		3/4		3/4		3/4		3/4		3/4	
6	118,636	6	130,071	6	141,506	6	152,941	6		6		6		6		6		6	
1/4	118,874	1/4	130,309	1/4	141,744	1/4	153,179	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	119,112	1/2	130,547	1/2	141,982	1/2	153,418	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	119,350	3/4	130,785	3/4	142,221	3/4	153,656	3/4		3/4		3/4		3/4		3/4		3/4	
7	119,589	7	131,024	7	142,459	7	153,894	7		7		7		7		7		7	
1/4	119,827	1/4	131,262	1/4	142,697	1/4	154,132	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	120,065	1/2	131,500	1/2	142,935	1/2	154,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	120,303	3/4	131,738	3/4	143,174	3/4	154,609	3/4		3/4		3/4		3/4		3/4		3/4	
8	120,541	8	131,977	8	143,412	8	154,847	8		8		8		8		8		8	
1/4	120,780	1/4	132,215	1/4	143,650	1/4	155,085	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,018	1/2	132,453	1/2	143,888	1/2	155,323	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	121,256	3/4	132,691	3/4	144,126	3/4	155,562	3/4		3/4		3/4		3/4		3/4		3/4	
9	121,494	9	132,930	9	144,365	9	155,800	9		9		9		9		9		9	
1/4	121,733	1/4	133,168	1/4	144,603	1/4	156,038	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	121,971	1/2	133,406	1/2	144,841	1/2	156,276	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	122,209	3/4	133,644	3/4	145,079	3/4	156,514	3/4		3/4		3/4		3/4		3/4		3/4	
10	122,447	10	133,882	10	145,318	10	156,753	10		10		10		10		10		10	
1/4	122,686	1/4	134,121	1/4	145,556	1/4	156,990	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	122,924	1/2	134,359	1/2	145,794	1/2	157,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	123,162	3/4	134,597	3/4	146,032	3/4	157,466	3/4		3/4		3/4		3/4		3/4		3/4	
11	123,400	11	134,835	11	146,271	11	157,704	11		11		11		11		11		11	
1/4	123,638	1/4	135,074	1/4	146,509	1/4	157,941	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	123,877	1/2	135,312	1/2	146,747	1/2	158,177	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	124,115	3/4	135,550	3/4	146,985	3/4	158,414	3/4		3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2016

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