



# BARGE "HSM 4105"

## 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 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 5'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 8, 2024

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 4105"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	248	0	12,895	0	27,780	0	42,831	0	57,823	0	72,829	0	87,881	0	102,932	0	117,979	0	133,024
1/4	404	1/4	13,193	1/4	28,094	1/4	43,145	1/4	58,134	1/4	73,143	1/4	88,194	1/4	103,246	1/4	118,293	1/4	133,337
1/2	560	1/2	13,491	1/2	28,407	1/2	43,458	1/2	58,445	1/2	73,456	1/2	88,508	1/2	103,559	1/2	118,606	1/2	133,651
3/4	717	3/4	13,790	3/4	28,721	3/4	43,772	3/4	58,756	3/4	73,770	3/4	88,821	3/4	103,873	3/4	118,919	3/4	133,964
1	873	1	14,088	1	29,034	1	44,085	1	59,068	1	74,083	1	89,135	1	104,186	1	119,233	1	134,278
1/4	1,101	1/4	14,389	1/4	29,348	1/4	44,399	1/4	59,379	1/4	74,397	1/4	89,448	1/4	104,500	1/4	119,546	1/4	134,591
1/2	1,329	1/2	14,691	1/2	29,662	1/2	44,713	1/2	59,690	1/2	74,711	1/2	89,762	1/2	104,814	1/2	119,860	1/2	134,905
3/4	1,557	3/4	14,993	3/4	29,975	3/4	45,026	3/4	60,001	3/4	75,024	3/4	90,076	3/4	105,127	3/4	120,173	3/4	135,218
2	1,785	2	15,294	2	30,289	2	45,340	2	60,312	2	75,338	2	90,389	2	105,441	2	120,487	2	135,532
1/4	2,045	1/4	15,600	1/4	30,602	1/4	45,653	1/4	60,624	1/4	75,651	1/4	90,703	1/4	105,754	1/4	120,800	1/4	135,845
1/2	2,305	1/2	15,905	1/2	30,916	1/2	45,967	1/2	60,935	1/2	75,965	1/2	91,016	1/2	106,068	1/2	121,113	1/2	136,158
3/4	2,565	3/4	16,210	3/4	31,229	3/4	46,280	3/4	61,246	3/4	76,278	3/4	91,330	3/4	106,381	3/4	121,427	3/4	136,472
3	2,826	3	16,516	3	31,543	3	46,594	3	61,557	3	76,592	3	91,643	3	106,695	3	121,740	3	136,785
1/4	3,090	1/4	16,825	1/4	31,856	1/4	46,908	1/4	61,869	1/4	76,906	1/4	91,957	1/4	107,008	1/4	122,054	1/4	137,099
1/2	3,355	1/2	17,134	1/2	32,170	1/2	47,221	1/2	62,180	1/2	77,219	1/2	92,271	1/2	107,322	1/2	122,367	1/2	137,412
3/4	3,620	3/4	17,443	3/4	32,484	3/4	47,535	3/4	62,491	3/4	77,533	3/4	92,584	3/4	107,636	3/4	122,681	3/4	137,726
4	3,885	4	17,752	4	32,797	4	47,848	4	62,803	4	77,846	4	92,898	4	107,949	4	122,994	4	138,039
1/4	4,154	1/4	18,064	1/4	33,111	1/4	48,161	1/4	63,115	1/4	78,160	1/4	93,211	1/4	108,263	1/4	123,308	1/4	138,352
1/2	4,422	1/2	18,376	1/2	33,424	1/2	48,475	1/2	63,426	1/2	78,473	1/2	93,525	1/2	108,576	1/2	123,621	1/2	138,666
3/4	4,691	3/4	18,688	3/4	33,738	3/4	48,788	3/4	63,738	3/4	78,787	3/4	93,838	3/4	108,889	3/4	123,934	3/4	138,979
5	4,960	5	19,000	5	34,051	5	49,101	5	64,050	5	79,101	5	94,152	5	109,203	5	124,248	5	139,293
1/4	5,232	1/4	19,314	1/4	34,365	1/4	49,413	1/4	64,363	1/4	79,414	1/4	94,466	1/4	109,516	1/4	124,561	1/4	139,606
1/2	5,505	1/2	19,628	1/2	34,679	1/2	49,725	1/2	64,677	1/2	79,728	1/2	94,779	1/2	109,830	1/2	124,875	1/2	139,920
3/4	5,777	3/4	19,941	3/4	34,992	3/4	50,037	3/4	64,990	3/4	80,041	3/4	95,093	3/4	110,143	3/4	125,188	3/4	140,233
6	6,050	6	20,255	6	35,306	6	50,349	6	65,300	6	80,355	6	95,406	6	110,457	6	125,502	6	140,547
1/4	6,326	1/4	20,568	1/4	35,619	1/4	50,661	1/4	65,617	1/4	80,668	1/4	95,720	1/4	110,770	1/4	125,815	1/4	140,860
1/2	6,602	1/2	20,882	1/2	35,933	1/2	50,973	1/2	65,931	1/2	80,982	1/2	96,033	1/2	111,083	1/2	126,128	1/2	141,173
3/4	6,878	3/4	21,195	3/4	36,246	3/4	51,286	3/4	66,244	3/4	81,296	3/4	96,347	3/4	111,397	3/4	126,442	3/4	141,487
7	7,154	7	21,509	7	36,560	7	51,598	7	66,558	7	81,609	7	96,661	7	111,710	7	126,755	7	141,800
1/4	7,434	1/4	21,822	1/4	36,873	1/4	51,909	1/4	66,871	1/4	81,923	1/4	96,974	1/4	112,024	1/4	127,069	1/4	142,114
1/2	7,714	1/2	22,136	1/2	37,187	1/2	52,221	1/2	67,185	1/2	82,236	1/2	97,288	1/2	112,337	1/2	127,382	1/2	142,427
3/4	7,993	3/4	22,450	3/4	37,501	3/4	52,532	3/4	67,498	3/4	82,550	3/4	97,601	3/4	112,651	3/4	127,696	3/4	142,741
8	8,273	8	22,763	8	37,814	8	52,844	8	67,812	8	82,863	8	97,915	8	112,964	8	128,009	8	143,054
1/4	8,557	1/4	23,077	1/4	38,128	1/4	53,155	1/4	68,126	1/4	83,177	1/4	98,228	1/4	113,278	1/4	128,322	1/4	143,367
1/2	8,840	1/2	23,390	1/2	38,441	1/2	53,466	1/2	68,439	1/2	83,491	1/2	98,542	1/2	113,591	1/2	128,636	1/2	143,681
3/4	9,123	3/4	23,704	3/4	38,755	3/4	53,777	3/4	68,753	3/4	83,804	3/4	98,856	3/4	113,904	3/4	128,949	3/4	143,994
9	9,407	9	24,017	9	39,068	9	54,088	9	69,066	9	84,118	9	99,169	9	114,218	9	129,263	9	144,308
1/4	9,694	1/4	24,331	1/4	39,382	1/4	54,400	1/4	69,380	1/4	84,431	1/4	99,483	1/4	114,531	1/4	129,576	1/4	144,621
1/2	9,981	1/2	24,645	1/2	39,696	1/2	54,711	1/2	69,693	1/2	84,745	1/2	99,796	1/2	114,845	1/2	129,890	1/2	144,935
3/4	10,268	3/4	24,958	3/4	40,009	3/4	55,022	3/4	70,007	3/4	85,058	3/4	100,110	3/4	115,158	3/4	130,203	3/4	145,248
10	10,555	10	25,272	10	40,323	10	55,333	10	70,321	10	85,372	10	100,423	10	115,472	10	130,517	10	145,562
1/4	10,846	1/4	25,585	1/4	40,636	1/4	55,644	1/4	70,634	1/4	85,686	1/4	100,737	1/4	115,785	1/4	130,830	1/4	145,875
1/2	11,136	1/2	25,899	1/2	40,950	1/2	55,956	1/2	70,948	1/2	85,999	1/2	101,051	1/2	116,098	1/2	131,143	1/2	146,188
3/4	11,427	3/4	26,212	3/4	41,263	3/4	56,267	3/4	71,261	3/4	86,313	3/4	101,364	3/4	116,412	3/4	131,457	3/4	146,502
11	11,718	11	26,526	11	41,577	11	56,578	11	71,575	11	86,626	11	101,678	11	116,725	11	131,770	11	146,815
1/4	12,012	1/4	26,839	1/4	41,890	1/4	56,889	1/4	71,888	1/4	86,940	1/4	101,991	1/4	117,039	1/4	132,084	1/4	147,129
1/2	12,307	1/2	27,153	1/2	42,204	1/2	57,200	1/2	72,202	1/2	87,253	1/2	102,305	1/2	117,352	1/2	132,397	1/2	147,442
3/4	12,601	3/4	27,467	3/4	42,518	3/4	57,512	3/4	72,516	3/4	87,567	3/4	102,618	3/4	117,666	3/4	132,711	3/4	147,756

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 LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" 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 "HSM 4105"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	IN	0
1/4	148,382	1/4	163,427	1/4	178,463	1/4	193,464	1/4	208,401	1/4		1/4		1/4		1/4		1/4			
1/2	148,696	1/2	163,741	1/2	178,776	1/2	193,777	1/2	208,704	1/2		1/2		1/2		1/2		1/2			
3/4	149,009	3/4	164,054	3/4	179,088	3/4	194,089	3/4	209,007	3/4		3/4		3/4		3/4		3/4			
1	149,323	1	164,368	1	179,401	1	194,402	1	209,309	1		1		1		1		1			
1/4	149,636	1/4	164,681	1/4	179,713	1/4	194,714	1/4	209,581	1/4		1/4		1/4		1/4		1/4			
1/2	149,950	1/2	164,995	1/2	180,026	1/2	195,027	1/2	209,852	1/2		1/2		1/2		1/2		1/2			
3/4	150,263	3/4	165,308	3/4	180,338	3/4	195,339	3/4	210,123	3/4		3/4		3/4		3/4		3/4			
2	150,577	2	165,621	2	180,651	2	195,652	2	210,395	2		2		2		2		2			
1/4	150,890	1/4	165,935	1/4	180,963	1/4	195,964	1/4	210,614	1/4		1/4		1/4		1/4		1/4			
1/2	151,203	1/2	166,248	1/2	181,276	1/2	196,277	1/2	210,833	1/2		1/2		1/2		1/2		1/2			
3/4	151,517	3/4	166,562	3/4	181,588	3/4	196,590	3/4	211,052	3/4		3/4		3/4		3/4		3/4			
3	151,830	3	166,875	3	181,901	3	196,902	3	211,271	3		3		3		3		3			
1/4	152,144	1/4	167,189	1/4	182,214	1/4	197,215	1/4	211,438	1/4		1/4		1/4		1/4		1/4			
1/2	152,457	1/2	167,502	1/2	182,526	1/2	197,527	1/2	211,604	1/2		1/2		1/2		1/2		1/2			
3/4	152,771	3/4	167,816	3/4	182,839	3/4	197,840	3/4	211,771	3/4		3/4		3/4		3/4		3/4			
4	153,084	4	168,129	4	183,151	4	198,152	4	211,938	4		4		4		4		4			
1/4	153,397	1/4	168,442	1/4	183,464	1/4	198,465	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	153,711	1/2	168,756	1/2	183,776	1/2	198,777	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	154,024	3/4	169,069	3/4	184,089	3/4	199,090	3/4		3/4		3/4		3/4		3/4		3/4			
5	154,338	5	169,383	5	184,401	5	199,402	5		5		5		5		5		5			
1/4	154,651	1/4	169,696	1/4	184,714	1/4	199,714	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	154,965	1/2	170,010	1/2	185,026	1/2	200,026	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	155,278	3/4	170,323	3/4	185,339	3/4	200,338	3/4		3/4		3/4		3/4		3/4		3/4			
6	155,591	6	170,636	6	185,651	6	200,650	6		6		6		6		6		6			
1/4	155,905	1/4	170,950	1/4	185,964	1/4	200,961	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	156,218	1/2	171,263	1/2	186,276	1/2	201,271	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	156,532	3/4	171,577	3/4	186,589	3/4	201,581	3/4		3/4		3/4		3/4		3/4		3/4			
7	156,845	7	171,890	7	186,901	7	201,892	7		7		7		7		7		7			
1/4	157,159	1/4	172,204	1/4	187,214	1/4	202,202	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	157,472	1/2	172,517	1/2	187,526	1/2	202,513	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	157,786	3/4	172,831	3/4	187,839	3/4	202,823	3/4		3/4		3/4		3/4		3/4		3/4			
8	158,099	8	173,144	8	188,151	8	203,133	8		8		8		8		8		8			
1/4	158,412	1/4	173,457	1/4	188,464	1/4	203,444	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	158,726	1/2	173,771	1/2	188,776	1/2	203,754	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	159,039	3/4	174,084	3/4	189,089	3/4	204,065	3/4		3/4		3/4		3/4		3/4		3/4			
9	159,353	9	174,398	9	189,402	9	204,375	9		9		9		9		9		9			
1/4	159,666	1/4	174,711	1/4	189,714	1/4	204,686	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	159,980	1/2	175,024	1/2	190,027	1/2	204,996	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	160,293	3/4	175,337	3/4	190,339	3/4	205,307	3/4		3/4		3/4		3/4		3/4		3/4			
10	160,606	10	175,651	10	190,652	10	205,617	10		10		10		10		10		10			
1/4	160,920	1/4	175,963	1/4	190,964	1/4	205,928	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	161,233	1/2	176,276	1/2	191,277	1/2	206,238	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	161,547	3/4	176,588	3/4	191,589	3/4	206,548	3/4		3/4		3/4		3/4		3/4		3/4			
11	161,860	11	176,901	11	191,902	11	206,859	11		11		11		11		11		11			
1/4	162,174	1/4	177,213	1/4	192,214	1/4	207,169	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	162,487	1/2	177,526	1/2	192,527	1/2	207,478	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	162,801	3/4	177,838	3/4	192,839	3/4	207,788	3/4		3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HSM 4105"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	248	0	12,866	0	27,715	0	42,729	0	57,739	0	72,751	0	87,765	0	102,780	0	117,790	0	132,798
1/4	404	1/4	13,163	1/4	28,027	1/4	43,042	1/4	58,051	1/4	73,063	1/4	88,078	1/4	103,093	1/4	118,103	1/4	133,111
1/2	560	1/2	13,461	1/2	28,340	1/2	43,354	1/2	58,364	1/2	73,376	1/2	88,391	1/2	103,406	1/2	118,416	1/2	133,424
3/4	716	3/4	13,758	3/4	28,653	3/4	43,667	3/4	58,677	3/4	73,689	3/4	88,704	3/4	103,718	3/4	118,728	3/4	133,736
1	871	1	14,055	1	28,966	1	43,980	1	58,989	1	74,002	1	89,016	1	104,031	1	119,041	1	134,049
1/4	1,099	1/4	14,356	1/4	29,278	1/4	44,293	1/4	59,302	1/4	74,315	1/4	89,329	1/4	104,344	1/4	119,354	1/4	134,362
1/2	1,326	1/2	14,657	1/2	29,591	1/2	44,606	1/2	59,614	1/2	74,627	1/2	89,642	1/2	104,657	1/2	119,666	1/2	134,674
3/4	1,554	3/4	14,958	3/4	29,904	3/4	44,918	3/4	59,927	3/4	74,940	3/4	89,955	3/4	104,970	3/4	119,979	3/4	134,987
2	1,781	2	15,259	2	30,217	2	45,231	2	60,239	2	75,253	2	90,268	2	105,282	2	120,292	2	135,300
1/4	2,041	1/4	15,564	1/4	30,530	1/4	45,544	1/4	60,552	1/4	75,566	1/4	90,581	1/4	105,595	1/4	120,604	1/4	135,612
1/2	2,301	1/2	15,868	1/2	30,842	1/2	45,857	1/2	60,865	1/2	75,879	1/2	90,893	1/2	105,908	1/2	120,917	1/2	135,925
3/4	2,560	3/4	16,173	3/4	31,155	3/4	46,170	3/4	61,177	3/4	76,191	3/4	91,206	3/4	106,221	3/4	121,230	3/4	136,238
3	2,820	3	16,478	3	31,468	3	46,482	3	61,490	3	76,504	3	91,519	3	106,534	3	121,542	3	136,550
1/4	3,084	1/4	16,786	1/4	31,781	1/4	46,795	1/4	61,803	1/4	76,817	1/4	91,832	1/4	106,846	1/4	121,855	1/4	136,863
1/2	3,348	1/2	17,094	1/2	32,094	1/2	47,108	1/2	62,115	1/2	77,130	1/2	92,145	1/2	107,159	1/2	122,168	1/2	137,176
3/4	3,612	3/4	17,402	3/4	32,406	3/4	47,421	3/4	62,428	3/4	77,443	3/4	92,457	3/4	107,472	3/4	122,480	3/4	137,488
4	3,877	4	17,710	4	32,719	4	47,734	4	62,741	4	77,755	4	92,770	4	107,785	4	122,793	4	137,801
1/4	4,145	1/4	18,022	1/4	33,032	1/4	48,046	1/4	63,054	1/4	78,068	1/4	93,083	1/4	108,097	1/4	123,106	1/4	138,114
1/2	4,413	1/2	18,333	1/2	33,345	1/2	48,359	1/2	63,366	1/2	78,381	1/2	93,396	1/2	108,410	1/2	123,418	1/2	138,427
3/4	4,681	3/4	18,645	3/4	33,658	3/4	48,672	3/4	63,679	3/4	78,694	3/4	93,709	3/4	108,723	3/4	123,731	3/4	138,739
5	4,949	5	18,956	5	33,970	5	48,985	5	63,992	5	79,007	5	94,021	5	109,035	5	124,044	5	139,052
1/4	5,221	1/4	19,269	1/4	34,283	1/4	49,297	1/4	64,305	1/4	79,319	1/4	94,334	1/4	109,348	1/4	124,356	1/4	139,365
1/2	5,493	1/2	19,582	1/2	34,596	1/2	49,610	1/2	64,618	1/2	79,632	1/2	94,647	1/2	109,661	1/2	124,669	1/2	139,677
3/4	5,765	3/4	19,895	3/4	34,909	3/4	49,923	3/4	64,930	3/4	79,945	3/4	94,960	3/4	109,973	3/4	124,982	3/4	139,990
6	6,036	6	20,207	6	35,222	6	50,236	6	65,243	6	80,258	6	95,273	6	110,286	6	125,294	6	140,303
1/4	6,312	1/4	20,520	1/4	35,534	1/4	50,549	1/4	65,556	1/4	80,571	1/4	95,585	1/4	110,599	1/4	125,607	1/4	140,615
1/2	6,587	1/2	20,833	1/2	35,847	1/2	50,861	1/2	65,869	1/2	80,884	1/2	95,898	1/2	110,911	1/2	125,920	1/2	140,928
3/4	6,863	3/4	21,146	3/4	36,160	3/4	51,174	3/4	66,182	3/4	81,196	3/4	96,211	3/4	111,224	3/4	126,232	3/4	141,241
7	7,138	7	21,459	7	36,473	7	51,487	7	66,494	7	81,509	7	96,524	7	111,537	7	126,545	7	141,553
1/4	7,417	1/4	21,771	1/4	36,786	1/4	51,800	1/4	66,807	1/4	81,822	1/4	96,837	1/4	111,849	1/4	126,858	1/4	141,866
1/2	7,696	1/2	22,084	1/2	37,098	1/2	52,112	1/2	67,120	1/2	82,135	1/2	97,149	1/2	112,162	1/2	127,170	1/2	142,179
3/4	7,976	3/4	22,397	3/4	37,411	3/4	52,425	3/4	67,433	3/4	82,448	3/4	97,462	3/4	112,475	3/4	127,483	3/4	142,491
8	8,255	8	22,710	8	37,724	8	52,738	8	67,746	8	82,760	8	97,775	8	112,787	8	127,796	8	142,804
1/4	8,537	1/4	23,023	1/4	38,037	1/4	53,050	1/4	68,058	1/4	83,073	1/4	98,088	1/4	113,100	1/4	128,108	1/4	143,117
1/2	8,820	1/2	23,335	1/2	38,350	1/2	53,363	1/2	68,371	1/2	83,386	1/2	98,401	1/2	113,413	1/2	128,421	1/2	143,429
3/4	9,103	3/4	23,648	3/4	38,662	3/4	53,675	3/4	68,684	3/4	83,699	3/4	98,713	3/4	113,725	3/4	128,734	3/4	143,742
9	9,386	9	23,961	9	38,975	9	53,988	9	68,997	9	84,012	9	99,026	9	114,038	9	129,046	9	144,055
1/4	9,672	1/4	24,274	1/4	39,288	1/4	54,300	1/4	69,310	1/4	84,324	1/4	99,339	1/4	114,351	1/4	129,359	1/4	144,367
1/2	9,958	1/2	24,587	1/2	39,601	1/2	54,613	1/2	69,622	1/2	84,637	1/2	99,652	1/2	114,663	1/2	129,672	1/2	144,680
3/4	10,245	3/4	24,899	3/4	39,914	3/4	54,926	3/4	69,935	3/4	84,950	3/4	99,965	3/4	114,976	3/4	129,984	3/4	144,993
10	10,531	10	25,212	10	40,226	10	55,238	10	70,248	10	85,263	10	100,278	10	115,289	10	130,297	10	145,305
1/4	10,821	1/4	25,525	1/4	40,539	1/4	55,551	1/4	70,561	1/4	85,576	1/4	100,590	1/4	115,601	1/4	130,610	1/4	145,618
1/2	11,111	1/2	25,838	1/2	40,852	1/2	55,863	1/2	70,874	1/2	85,888	1/2	100,903	1/2	115,914	1/2	130,922	1/2	145,931
3/4	11,401	3/4	26,151	3/4	41,165	3/4	56,176	3/4	71,187	3/4	86,201	3/4	101,216	3/4	116,227	3/4	131,235	3/4	146,243
11	11,691	11	26,463	11	41,478	11	56,489	11	71,499	11	86,514	11	101,529	11	116,540	11	131,548	11	146,556
1/4	11,985	1/4	26,776	1/4	41,790	1/4	56,801	1/4	71,812	1/4	86,827	1/4	101,842	1/4	116,852	1/4	131,860	1/4	146,869
1/2	12,279	1/2	27,089	1/2	42,103	1/2	57,114	1/2	72,125	1/2	87,140	1/2	102,154	1/2	117,165	1/2	132,173	1/2	147,181
3/4	12,572	3/4	27,402	3/4	42,416	3/4	57,426	3/4	72,438	3/4	87,452	3/4	102,467	3/4	117,478	3/4	132,486	3/4	147,494

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 LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-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 "HSM 4105"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	147,807	0	162,815	0	177,816	0	192,780	0	207,690	0		0		0		0		0	
1/4	148,119	1/4	163,128	1/4	178,127	1/4	193,092	1/4	207,992	1/4		1/4		1/4		1/4		1/4	
1/2	148,432	1/2	163,441	1/2	178,439	1/2	193,404	1/2	208,295	1/2		1/2		1/2		1/2		1/2	
3/4	148,745	3/4	163,753	3/4	178,751	3/4	193,716	3/4	208,597	3/4		3/4		3/4		3/4		3/4	
1	149,058	1	164,066	1	179,063	1	194,027	1	208,899	1		1		1		1		1	
1/4	149,370	1/4	164,379	1/4	179,374	1/4	194,339	1/4	209,169	1/4		1/4		1/4		1/4		1/4	
1/2	149,683	1/2	164,691	1/2	179,686	1/2	194,651	1/2	209,440	1/2		1/2		1/2		1/2		1/2	
3/4	149,996	3/4	165,004	3/4	179,998	3/4	194,963	3/4	209,711	3/4		3/4		3/4		3/4		3/4	
2	150,308	2	165,317	2	180,310	2	195,274	2	209,981	2		2		2		2		2	
1/4	150,621	1/4	165,629	1/4	180,621	1/4	195,586	1/4	210,200	1/4		1/4		1/4		1/4		1/4	
1/2	150,934	1/2	165,942	1/2	180,933	1/2	195,898	1/2	210,418	1/2		1/2		1/2		1/2		1/2	
3/4	151,246	3/4	166,255	3/4	181,245	3/4	196,210	3/4	210,637	3/4		3/4		3/4		3/4		3/4	
3	151,559	3	166,567	3	181,557	3	196,521	3	210,855	3		3		3		3		3	
1/4	151,872	1/4	166,880	1/4	181,868	1/4	196,833	1/4	211,022	1/4		1/4		1/4		1/4		1/4	
1/2	152,184	1/2	167,193	1/2	182,180	1/2	197,145	1/2	211,188	1/2		1/2		1/2		1/2		1/2	
3/4	152,497	3/4	167,505	3/4	182,492	3/4	197,457	3/4	211,354	3/4		3/4		3/4		3/4		3/4	
4	152,810	4	167,818	4	182,804	4	197,768	4	211,521	4		4		4		4		4	
1/4	153,122	1/4	168,131	1/4	183,116	1/4	198,080	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,435	1/2	168,443	1/2	183,427	1/2	198,392	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,748	3/4	168,756	3/4	183,739	3/4	198,704	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,060	5	169,069	5	184,051	5	199,016	5		5		5		5		5		5	
1/4	154,373	1/4	169,381	1/4	184,363	1/4	199,327	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,686	1/2	169,694	1/2	184,674	1/2	199,638	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,998	3/4	170,007	3/4	184,986	3/4	199,949	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,311	6	170,320	6	185,298	6	200,260	6		6		6		6		6		6	
1/4	155,624	1/4	170,632	1/4	185,610	1/4	200,570	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,936	1/2	170,945	1/2	185,921	1/2	200,880	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,249	3/4	171,258	3/4	186,233	3/4	201,189	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,562	7	171,570	7	186,545	7	201,499	7		7		7		7		7		7	
1/4	156,874	1/4	171,883	1/4	186,857	1/4	201,809	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,187	1/2	172,196	1/2	187,168	1/2	202,118	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,500	3/4	172,508	3/4	187,480	3/4	202,428	3/4		3/4		3/4		3/4		3/4		3/4	
8	157,812	8	172,821	8	187,792	8	202,738	8		8		8		8		8		8	
1/4	158,125	1/4	173,134	1/4	188,104	1/4	203,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,438	1/2	173,446	1/2	188,416	1/2	203,357	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,750	3/4	173,759	3/4	188,727	3/4	203,667	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,063	9	174,072	9	189,039	9	203,977	9		9		9		9		9		9	
1/4	159,376	1/4	174,384	1/4	189,351	1/4	204,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,689	1/2	174,697	1/2	189,663	1/2	204,596	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,001	3/4	175,009	3/4	189,974	3/4	204,906	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,314	10	175,321	10	190,286	10	205,216	10		10		10		10		10		10	
1/4	160,627	1/4	175,633	1/4	190,598	1/4	205,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,939	1/2	175,945	1/2	190,910	1/2	205,835	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,252	3/4	176,257	3/4	191,221	3/4	206,144	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,565	11	176,568	11	191,533	11	206,454	11		11		11		11		11		11	
1/4	161,877	1/4	176,880	1/4	191,845	1/4	206,763	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,190	1/2	177,192	1/2	192,157	1/2	207,072	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,503	3/4	177,504	3/4	192,468	3/4	207,381	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "HSM 4105"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	836	0	15,386	0	30,453	0	45,208	0	59,987	0	75,057	0	90,126	0	105,196	0	120,260	0	135,323
1/4	1,051	1/4	15,700	1/4	30,767	1/4	45,511	1/4	60,301	1/4	75,371	1/4	90,440	1/4	105,510	1/4	120,574	1/4	135,636
1/2	1,267	1/2	16,014	1/2	31,081	1/2	45,814	1/2	60,615	1/2	75,684	1/2	90,754	1/2	105,824	1/2	120,888	1/2	135,950
3/4	1,483	3/4	16,328	3/4	31,395	3/4	46,116	3/4	60,929	3/4	75,998	3/4	91,068	3/4	106,138	3/4	121,202	3/4	136,264
1	1,699	1	16,642	1	31,709	1	46,419	1	61,243	1	76,312	1	91,382	1	106,452	1	121,516	1	136,578
1/4	1,983	1/4	16,956	1/4	32,023	1/4	46,722	1/4	61,557	1/4	76,626	1/4	91,696	1/4	106,766	1/4	121,829	1/4	136,892
1/2	2,267	1/2	17,270	1/2	32,337	1/2	47,025	1/2	61,871	1/2	76,940	1/2	92,010	1/2	107,080	1/2	122,143	1/2	137,205
3/4	2,551	3/4	17,584	3/4	32,651	3/4	47,328	3/4	62,185	3/4	77,254	3/4	92,324	3/4	107,394	3/4	122,457	3/4	137,519
2	2,835	2	17,898	2	32,965	2	47,631	2	62,499	2	77,568	2	92,638	2	107,708	2	122,771	2	137,833
1/4	3,148	1/4	18,212	1/4	33,279	1/4	47,934	1/4	62,812	1/4	77,882	1/4	92,952	1/4	108,022	1/4	123,085	1/4	138,147
1/2	3,461	1/2	18,526	1/2	33,593	1/2	48,236	1/2	63,126	1/2	78,196	1/2	93,266	1/2	108,335	1/2	123,398	1/2	138,461
3/4	3,773	3/4	18,840	3/4	33,907	3/4	48,539	3/4	63,440	3/4	78,510	3/4	93,580	3/4	108,649	3/4	123,712	3/4	138,774
3	4,086	3	19,154	3	34,221	3	48,842	3	63,754	3	78,824	3	93,894	3	108,963	3	124,026	3	139,088
1/4	4,400	1/4	19,468	1/4	34,535	1/4	49,145	1/4	64,068	1/4	79,138	1/4	94,208	1/4	109,277	1/4	124,340	1/4	139,402
1/2	4,713	1/2	19,782	1/2	34,848	1/2	49,448	1/2	64,382	1/2	79,452	1/2	94,522	1/2	109,591	1/2	124,654	1/2	139,716
3/4	5,027	3/4	20,095	3/4	35,162	3/4	49,751	3/4	64,696	3/4	79,766	3/4	94,836	3/4	109,905	3/4	124,967	3/4	140,029
4	5,340	4	20,409	4	35,476	4	50,054	4	65,010	4	80,080	4	95,149	4	110,219	4	125,281	4	140,343
1/4	5,654	1/4	20,723	1/4	35,788	1/4	50,358	1/4	65,324	1/4	80,394	1/4	95,463	1/4	110,533	1/4	125,595	1/4	140,657
1/2	5,968	1/2	21,037	1/2	36,099	1/2	50,661	1/2	65,638	1/2	80,708	1/2	95,777	1/2	110,847	1/2	125,909	1/2	140,971
3/4	6,282	3/4	21,351	3/4	36,411	3/4	50,964	3/4	65,952	3/4	81,022	3/4	96,091	3/4	111,160	3/4	126,223	3/4	141,285
5	6,596	5	21,665	5	36,722	5	51,267	5	66,266	5	81,336	5	96,405	5	111,474	5	126,536	5	141,598
1/4	6,910	1/4	21,979	1/4	37,026	1/4	51,571	1/4	66,580	1/4	81,650	1/4	96,719	1/4	111,788	1/4	126,850	1/4	141,912
1/2	7,224	1/2	22,293	1/2	37,329	1/2	51,875	1/2	66,894	1/2	81,964	1/2	97,033	1/2	112,102	1/2	127,164	1/2	142,226
3/4	7,538	3/4	22,607	3/4	37,633	3/4	52,179	3/4	67,208	3/4	82,277	3/4	97,347	3/4	112,416	3/4	127,478	3/4	142,540
6	7,852	6	22,921	6	37,937	6	52,483	6	67,522	6	82,591	6	97,661	6	112,729	6	127,792	6	142,854
1/4	8,166	1/4	23,235	1/4	38,241	1/4	52,789	1/4	67,836	1/4	82,905	1/4	97,975	1/4	113,043	1/4	128,105	1/4	143,167
1/2	8,480	1/2	23,549	1/2	38,544	1/2	53,095	1/2	68,150	1/2	83,219	1/2	98,289	1/2	113,357	1/2	128,419	1/2	143,481
3/4	8,794	3/4	23,863	3/4	38,848	3/4	53,402	3/4	68,464	3/4	83,533	3/4	98,603	3/4	113,671	3/4	128,733	3/4	143,795
7	9,108	7	24,177	7	39,151	7	53,708	7	68,778	7	83,847	7	98,917	7	113,985	7	129,047	7	144,109
1/4	9,421	1/4	24,491	1/4	39,454	1/4	54,022	1/4	69,091	1/4	84,161	1/4	99,231	1/4	114,298	1/4	129,360	1/4	144,423
1/2	9,735	1/2	24,805	1/2	39,757	1/2	54,336	1/2	69,405	1/2	84,475	1/2	99,545	1/2	114,612	1/2	129,674	1/2	144,736
3/4	10,049	3/4	25,119	3/4	40,060	3/4	54,650	3/4	69,719	3/4	84,789	3/4	99,859	3/4	114,926	3/4	129,988	3/4	145,050
8	10,363	8	25,433	8	40,363	8	54,964	8	70,033	8	85,103	8	100,173	8	115,240	8	130,302	8	145,364
1/4	10,677	1/4	25,746	1/4	40,665	1/4	55,278	1/4	70,347	1/4	85,417	1/4	100,487	1/4	115,554	1/4	130,616	1/4	145,678
1/2	10,991	1/2	26,060	1/2	40,968	1/2	55,592	1/2	70,661	1/2	85,731	1/2	100,801	1/2	115,867	1/2	130,929	1/2	145,992
3/4	11,305	3/4	26,374	3/4	41,271	3/4	55,906	3/4	70,975	3/4	86,045	3/4	101,115	3/4	116,181	3/4	131,243	3/4	146,305
9	11,619	9	26,688	9	41,574	9	56,219	9	71,289	9	86,359	9	101,429	9	116,495	9	131,557	9	146,619
1/4	11,933	1/4	27,002	1/4	41,877	1/4	56,533	1/4	71,603	1/4	86,673	1/4	101,742	1/4	116,809	1/4	131,871	1/4	146,933
1/2	12,247	1/2	27,316	1/2	42,180	1/2	56,847	1/2	71,917	1/2	86,987	1/2	102,056	1/2	117,123	1/2	132,185	1/2	147,247
3/4	12,561	3/4	27,629	3/4	42,482	3/4	57,161	3/4	72,231	3/4	87,301	3/4	102,370	3/4	117,436	3/4	132,498	3/4	147,561
10	12,875	10	27,943	10	42,785	10	57,475	10	72,545	10	87,615	10	102,684	10	117,750	10	132,812	10	147,874
1/4	13,189	1/4	28,257	1/4	43,088	1/4	57,789	1/4	72,859	1/4	87,929	1/4	102,998	1/4	118,064	1/4	133,126	1/4	148,188
1/2	13,503	1/2	28,571	1/2	43,391	1/2	58,103	1/2	73,173	1/2	88,243	1/2	103,312	1/2	118,378	1/2	133,440	1/2	148,502
3/4	13,817	3/4	28,884	3/4	43,694	3/4	58,417	3/4	73,487	3/4	88,557	3/4	103,626	3/4	118,691	3/4	133,754	3/4	148,816
11	14,131	11	29,198	11	43,997	11	58,731	11	73,801	11	88,870	11	103,940	11	119,005	11	134,067	11	149,130
1/4	14,445	1/4	29,512	1/4	44,299	1/4	59,045	1/4	74,115	1/4	89,184	1/4	104,254	1/4	119,319	1/4	134,381	1/4	149,443
1/2	14,758	1/2	29,826	1/2	44,602	1/2	59,359	1/2	74,429	1/2	89,498	1/2	104,568	1/2	119,633	1/2	134,695	1/2	149,757
3/4	15,072	3/4	30,139	3/4	44,905	3/4	59,673	3/4	74,743	3/4	89,812	3/4	104,882	3/4	119,947	3/4	135,009	3/4	150,071

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 INNAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE

GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 4105"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	150,385	0	165,447	0	180,499	0	195,510	0	210,443	0		0		0		0		0	
1/4	150,698	1/4	165,761	1/4	180,812	1/4	195,823	1/4	210,745	1/4		1/4		1/4		1/4		1/4	
1/2	151,012	1/2	166,074	1/2	181,125	1/2	196,136	1/2	211,047	1/2		1/2		1/2		1/2		1/2	
3/4	151,326	3/4	166,388	3/4	181,438	3/4	196,449	3/4	211,349	3/4		3/4		3/4		3/4		3/4	
1	151,640	1	166,702	1	181,750	1	196,761	1	211,651	1		1		1		1		1	
1/4	151,954	1/4	167,016	1/4	182,063	1/4	197,074	1/4	211,922	1/4		1/4		1/4		1/4		1/4	
1/2	152,267	1/2	167,330	1/2	182,376	1/2	197,387	1/2	212,192	1/2		1/2		1/2		1/2		1/2	
3/4	152,581	3/4	167,643	3/4	182,688	3/4	197,699	3/4	212,463	3/4		3/4		3/4		3/4		3/4	
2	152,895	2	167,957	2	183,001	2	198,012	2	212,733	2		2		2		2		2	
1/4	153,209	1/4	168,271	1/4	183,314	1/4	198,325	1/4	212,952	1/4		1/4		1/4		1/4		1/4	
1/2	153,523	1/2	168,585	1/2	183,627	1/2	198,638	1/2	213,170	1/2		1/2		1/2		1/2		1/2	
3/4	153,836	3/4	168,899	3/4	183,939	3/4	198,950	3/4	213,388	3/4		3/4		3/4		3/4		3/4	
3	154,150	3	169,212	3	184,252	3	199,263	3	213,606	3		3		3		3		3	
1/4	154,464	1/4	169,526	1/4	184,565	1/4	199,576	1/4	213,772	1/4		1/4		1/4		1/4		1/4	
1/2	154,778	1/2	169,840	1/2	184,878	1/2	199,889	1/2	213,938	1/2		1/2		1/2		1/2		1/2	
3/4	155,092	3/4	170,154	3/4	185,190	3/4	200,201	3/4	214,104	3/4		3/4		3/4		3/4		3/4	
4	155,405	4	170,468	4	185,503	4	200,514	4	214,270	4		4		4		4		4	
1/4	155,719	1/4	170,781	1/4	185,816	1/4	200,827	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,033	1/2	171,095	1/2	186,128	1/2	201,139	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,347	3/4	171,409	3/4	186,441	3/4	201,452	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,661	5	171,723	5	186,754	5	201,765	5		5		5		5		5		5	
1/4	156,974	1/4	172,037	1/4	187,067	1/4	202,077	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,288	1/2	172,350	1/2	187,379	1/2	202,389	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,602	3/4	172,664	3/4	187,692	3/4	202,701	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,916	6	172,978	6	188,005	6	203,013	6		6		6		6		6		6	
1/4	158,230	1/4	173,292	1/4	188,318	1/4	203,322	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,543	1/2	173,605	1/2	188,630	1/2	203,632	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,857	3/4	173,919	3/4	188,943	3/4	203,942	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,171	7	174,233	7	189,256	7	204,251	7		7		7		7		7		7	
1/4	159,485	1/4	174,547	1/4	189,568	1/4	204,561	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,799	1/2	174,861	1/2	189,881	1/2	204,871	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,112	3/4	175,174	3/4	190,194	3/4	205,180	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,426	8	175,488	8	190,507	8	205,490	8		8		8		8		8		8	
1/4	160,740	1/4	175,802	1/4	190,819	1/4	205,800	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,054	1/2	176,116	1/2	191,132	1/2	206,109	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,368	3/4	176,430	3/4	191,445	3/4	206,419	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,681	9	176,743	9	191,758	9	206,729	9		9		9		9		9		9	
1/4	161,995	1/4	177,057	1/4	192,070	1/4	207,039	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,309	1/2	177,370	1/2	192,383	1/2	207,349	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,623	3/4	177,684	3/4	192,696	3/4	207,658	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,936	10	177,998	10	193,008	10	207,968	10		10		10		10		10		10	
1/4	163,250	1/4	178,310	1/4	193,321	1/4	208,278	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,564	1/2	178,623	1/2	193,634	1/2	208,587	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,878	3/4	178,936	3/4	193,947	3/4	208,897	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,192	11	179,248	11	194,259	11	209,207	11		11		11		11		11		11	
1/4	164,505	1/4	179,561	1/4	194,572	1/4	209,516	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,819	1/2	179,874	1/2	194,885	1/2	209,825	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,133	3/4	180,187	3/4	195,198	3/4	210,134	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 4105"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	837	0	15,403	0	30,485	0	45,550	0	60,619	0	75,704	0	90,789	0	105,874	0	120,954	0	136,031
1/4	1,053	1/4	15,717	1/4	30,799	1/4	45,864	1/4	60,934	1/4	76,019	1/4	91,104	1/4	106,188	1/4	121,268	1/4	136,345
1/2	1,269	1/2	16,031	1/2	31,114	1/2	46,177	1/2	61,248	1/2	76,333	1/2	91,418	1/2	106,503	1/2	121,582	1/2	136,659
3/4	1,485	3/4	16,345	3/4	31,428	3/4	46,490	3/4	61,562	3/4	76,647	3/4	91,732	3/4	106,817	3/4	121,896	3/4	136,974
1	1,701	1	16,660	1	31,742	1	46,804	1	61,876	1	76,961	1	92,046	1	107,131	1	122,210	1	137,288
1/4	1,985	1/4	16,974	1/4	32,056	1/4	47,117	1/4	62,191	1/4	77,276	1/4	92,361	1/4	107,446	1/4	122,524	1/4	137,602
1/2	2,270	1/2	17,288	1/2	32,371	1/2	47,430	1/2	62,505	1/2	77,590	1/2	92,675	1/2	107,760	1/2	122,839	1/2	137,916
3/4	2,554	3/4	17,602	3/4	32,685	3/4	47,744	3/4	62,819	3/4	77,904	3/4	92,989	3/4	108,074	3/4	123,153	3/4	138,230
2	2,838	2	17,917	2	32,999	2	48,057	2	63,134	2	78,218	2	93,303	2	108,388	2	123,467	2	138,544
1/4	3,151	1/4	18,231	1/4	33,313	1/4	48,371	1/4	63,448	1/4	78,533	1/4	93,618	1/4	108,703	1/4	123,781	1/4	138,858
1/2	3,464	1/2	18,545	1/2	33,628	1/2	48,684	1/2	63,762	1/2	78,847	1/2	93,932	1/2	109,017	1/2	124,095	1/2	139,172
3/4	3,777	3/4	18,859	3/4	33,942	3/4	48,997	3/4	64,076	3/4	79,161	3/4	94,246	3/4	109,331	3/4	124,409	3/4	139,486
3	4,090	3	19,174	3	34,256	3	49,311	3	64,391	3	79,476	3	94,561	3	109,645	3	124,723	3	139,801
1/4	4,404	1/4	19,488	1/4	34,571	1/4	49,624	1/4	64,705	1/4	79,790	1/4	94,875	1/4	109,960	1/4	125,037	1/4	140,115
1/2	4,718	1/2	19,802	1/2	34,885	1/2	49,938	1/2	65,019	1/2	80,104	1/2	95,189	1/2	110,274	1/2	125,351	1/2	140,429
3/4	5,032	3/4	20,117	3/4	35,199	3/4	50,251	3/4	65,333	3/4	80,418	3/4	95,503	3/4	110,588	3/4	125,666	3/4	140,743
4	5,346	4	20,431	4	35,513	4	50,565	4	65,648	4	80,733	4	95,818	4	110,902	4	125,980	4	141,057
1/4	5,660	1/4	20,745	1/4	35,828	1/4	50,879	1/4	65,962	1/4	81,047	1/4	96,132	1/4	111,216	1/4	126,294	1/4	141,371
1/2	5,975	1/2	21,059	1/2	36,142	1/2	51,192	1/2	66,276	1/2	81,361	1/2	96,446	1/2	111,531	1/2	126,608	1/2	141,685
3/4	6,289	3/4	21,374	3/4	36,456	3/4	51,506	3/4	66,591	3/4	81,675	3/4	96,760	3/4	111,845	3/4	126,922	3/4	141,999
5	6,603	5	21,688	5	36,770	5	51,820	5	66,905	5	81,990	5	97,075	5	112,159	5	127,236	5	142,313
1/4	6,917	1/4	22,002	1/4	37,085	1/4	52,134	1/4	67,219	1/4	82,304	1/4	97,389	1/4	112,473	1/4	127,550	1/4	142,628
1/2	7,232	1/2	22,316	1/2	37,399	1/2	52,448	1/2	67,533	1/2	82,618	1/2	97,703	1/2	112,787	1/2	127,864	1/2	142,942
3/4	7,546	3/4	22,631	3/4	37,713	3/4	52,763	3/4	67,848	3/4	82,933	3/4	98,017	3/4	113,101	3/4	128,178	3/4	143,256
6	7,860	6	22,945	6	38,028	6	53,077	6	68,162	6	83,247	6	98,332	6	113,415	6	128,493	6	143,570
1/4	8,174	1/4	23,259	1/4	38,342	1/4	53,391	1/4	68,476	1/4	83,561	1/4	98,646	1/4	113,729	1/4	128,807	1/4	143,884
1/2	8,489	1/2	23,573	1/2	38,656	1/2	53,705	1/2	68,790	1/2	83,875	1/2	98,960	1/2	114,043	1/2	129,121	1/2	144,198
3/4	8,803	3/4	23,888	3/4	38,970	3/4	54,020	3/4	69,105	3/4	84,190	3/4	99,275	3/4	114,358	3/4	129,435	3/4	144,512
7	9,117	7	24,202	7	39,284	7	54,334	7	69,419	7	84,504	7	99,589	7	114,672	7	129,749	7	144,826
1/4	9,431	1/4	24,516	1/4	39,597	1/4	54,648	1/4	69,733	1/4	84,818	1/4	99,903	1/4	114,986	1/4	130,063	1/4	145,140
1/2	9,746	1/2	24,831	1/2	39,910	1/2	54,963	1/2	70,047	1/2	85,132	1/2	100,217	1/2	115,300	1/2	130,377	1/2	145,455
3/4	10,060	3/4	25,145	3/4	40,224	3/4	55,277	3/4	70,362	3/4	85,447	3/4	100,532	3/4	115,614	3/4	130,691	3/4	145,769
8	10,374	8	25,459	8	40,537	8	55,591	8	70,676	8	85,761	8	100,846	8	115,928	8	131,005	8	146,083
1/4	10,688	1/4	25,773	1/4	40,850	1/4	55,905	1/4	70,990	1/4	86,075	1/4	101,160	1/4	116,242	1/4	131,320	1/4	146,397
1/2	11,003	1/2	26,088	1/2	41,164	1/2	56,220	1/2	71,305	1/2	86,390	1/2	101,474	1/2	116,556	1/2	131,634	1/2	146,711
3/4	11,317	3/4	26,402	3/4	41,477	3/4	56,534	3/4	71,619	3/4	86,704	3/4	101,789	3/4	116,870	3/4	131,948	3/4	147,025
9	11,631	9	26,716	9	41,790	9	56,848	9	71,933	9	87,018	9	102,103	9	117,185	9	132,262	9	147,339
1/4	11,946	1/4	27,030	1/4	42,104	1/4	57,162	1/4	72,247	1/4	87,332	1/4	102,417	1/4	117,499	1/4	132,576	1/4	147,653
1/2	12,260	1/2	27,344	1/2	42,417	1/2	57,477	1/2	72,562	1/2	87,647	1/2	102,732	1/2	117,813	1/2	132,890	1/2	147,967
3/4	12,574	3/4	27,658	3/4	42,730	3/4	57,791	3/4	72,876	3/4	87,961	3/4	103,046	3/4	118,127	3/4	133,204	3/4	148,282
10	12,888	10	27,972	10	43,044	10	58,105	10	73,190	10	88,275	10	103,360	10	118,441	10	133,518	10	148,596
1/4	13,203	1/4	28,286	1/4	43,357	1/4	58,420	1/4	73,504	1/4	88,589	1/4	103,674	1/4	118,755	1/4	133,832	1/4	148,910
1/2	13,517	1/2	28,600	1/2	43,670	1/2	58,734	1/2	73,819	1/2	88,904	1/2	103,989	1/2	119,069	1/2	134,147	1/2	149,224
3/4	13,831	3/4	28,914	3/4	43,984	3/4	59,048	3/4	74,133	3/4	89,218	3/4	104,303	3/4	119,383	3/4	134,461	3/4	149,538
11	14,145	11	29,228	11	44,297	11	59,362	11	74,447	11	89,532	11	104,617	11	119,697	11	134,775	11	149,852
1/4	14,460	1/4	29,543	1/4	44,610	1/4	59,677	1/4	74,762	1/4	89,846	1/4	104,931	1/4	120,012	1/4	135,089	1/4	150,166
1/2	14,774	1/2	29,857	1/2	44,924	1/2	59,991	1/2	75,076	1/2	90,161	1/2	105,246	1/2	120,326	1/2	135,403	1/2	150,480
3/4	15,088	3/4	30,171	3/4	45,237	3/4	60,305	3/4	75,390	3/4	90,475	3/4	105,560	3/4	120,640	3/4	135,717	3/4	150,794

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 LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" 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 "HSM 4105"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	IN	0
1/4	151,423	1/4	166,500	1/4	181,567	1/4	196,593	1/4	211,530	1/4		1/4		1/4		1/4		1/4			
1/2	151,737	1/2	166,814	1/2	181,880	1/2	196,906	1/2	211,832	1/2		1/2		1/2		1/2		1/2			
3/4	152,051	3/4	167,128	3/4	182,193	3/4	197,219	3/4	212,135	3/4		3/4		3/4		3/4		3/4			
1	152,365	1	167,442	1	182,506	1	197,532	1	212,437	1		1		1		1		1			
1/4	152,679	1/4	167,757	1/4	182,819	1/4	197,845	1/4	212,708	1/4		1/4		1/4		1/4		1/4			
1/2	152,993	1/2	168,071	1/2	183,132	1/2	198,158	1/2	212,979	1/2		1/2		1/2		1/2		1/2			
3/4	153,307	3/4	168,385	3/4	183,445	3/4	198,471	3/4	213,249	3/4		3/4		3/4		3/4		3/4			
2	153,621	2	168,699	2	183,758	2	198,784	2	213,520	2		2		2		2		2			
1/4	153,936	1/4	169,013	1/4	184,071	1/4	199,097	1/4	213,739	1/4		1/4		1/4		1/4		1/4			
1/2	154,250	1/2	169,327	1/2	184,384	1/2	199,410	1/2	213,957	1/2		1/2		1/2		1/2		1/2			
3/4	154,564	3/4	169,641	3/4	184,697	3/4	199,723	3/4	214,176	3/4		3/4		3/4		3/4		3/4			
3	154,878	3	169,955	3	185,010	3	200,036	3	214,394	3		3		3		3		3			
1/4	155,192	1/4	170,269	1/4	185,323	1/4	200,349	1/4	214,560	1/4		1/4		1/4		1/4		1/4			
1/2	155,506	1/2	170,584	1/2	185,636	1/2	200,662	1/2	214,726	1/2		1/2		1/2		1/2		1/2			
3/4	155,820	3/4	170,898	3/4	185,949	3/4	200,975	3/4	214,892	3/4		3/4		3/4		3/4		3/4			
4	156,134	4	171,212	4	186,262	4	201,289	4	215,058	4		4		4		4		4			
1/4	156,448	1/4	171,526	1/4	186,575	1/4	201,602	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	156,763	1/2	171,840	1/2	186,888	1/2	201,915	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	157,077	3/4	172,154	3/4	187,202	3/4	202,228	3/4		3/4		3/4		3/4		3/4		3/4			
5	157,391	5	172,468	5	187,515	5	202,541	5		5		5		5		5		5			
1/4	157,705	1/4	172,782	1/4	187,828	1/4	202,853	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	158,019	1/2	173,096	1/2	188,141	1/2	203,165	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	158,333	3/4	173,411	3/4	188,454	3/4	203,477	3/4		3/4		3/4		3/4		3/4		3/4			
6	158,647	6	173,725	6	188,767	6	203,790	6		6		6		6		6		6			
1/4	158,961	1/4	174,039	1/4	189,080	1/4	204,100	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	159,275	1/2	174,353	1/2	189,393	1/2	204,410	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	159,590	3/4	174,667	3/4	189,706	3/4	204,720	3/4		3/4		3/4		3/4		3/4		3/4			
7	159,904	7	174,981	7	190,019	7	205,030	7		7		7		7		7		7			
1/4	160,218	1/4	175,295	1/4	190,332	1/4	205,339	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	160,532	1/2	175,609	1/2	190,645	1/2	205,649	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	160,846	3/4	175,923	3/4	190,958	3/4	205,959	3/4		3/4		3/4		3/4		3/4		3/4			
8	161,160	8	176,238	8	191,271	8	206,269	8		8		8		8		8		8			
1/4	161,474	1/4	176,552	1/4	191,584	1/4	206,580	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	161,788	1/2	176,866	1/2	191,897	1/2	206,890	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	162,103	3/4	177,180	3/4	192,210	3/4	207,200	3/4		3/4		3/4		3/4		3/4		3/4			
9	162,417	9	177,494	9	192,523	9	207,510	9		9		9		9		9		9			
1/4	162,731	1/4	177,808	1/4	192,836	1/4	207,820	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	163,045	1/2	178,122	1/2	193,149	1/2	208,130	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	163,359	3/4	178,435	3/4	193,462	3/4	208,440	3/4		3/4		3/4		3/4		3/4		3/4			
10	163,673	10	178,749	10	193,775	10	208,750	10		10		10		10		10		10			
1/4	163,987	1/4	179,062	1/4	194,088	1/4	209,060	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	164,301	1/2	179,375	1/2	194,402	1/2	209,370	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	164,615	3/4	179,688	3/4	194,715	3/4	209,680	3/4		3/4		3/4		3/4		3/4		3/4			
11	164,930	11	180,002	11	195,028	11	209,990	11		11		11		11		11		11			
1/4	165,244	1/4	180,315	1/4	195,341	1/4	210,299	1/4		1/4		1/4		1/4		1/4		1/4			
1/2	165,558	1/2	180,628	1/2	195,654	1/2	210,609	1/2		1/2		1/2		1/2		1/2		1/2			
3/4	165,872	3/4	180,941	3/4	195,967	3/4	210,918	3/4		3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

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



# BARGE "HSM 4105"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	832	0	15,311	0	30,291	0	45,052	0	59,589	0	74,492	0	89,447	0	104,415	0	119,375	0	134,330
1/4	1,047	1/4	15,623	1/4	30,603	1/4	45,354	1/4	59,901	1/4	74,802	1/4	89,759	1/4	104,727	1/4	119,686	1/4	134,642
1/2	1,262	1/2	15,936	1/2	30,915	1/2	45,655	1/2	60,213	1/2	75,112	1/2	90,070	1/2	105,039	1/2	119,998	1/2	134,953
3/4	1,477	3/4	16,248	3/4	31,227	3/4	45,957	3/4	60,525	3/4	75,422	3/4	90,382	3/4	105,351	3/4	120,309	3/4	135,265
1	1,692	1	16,560	1	31,539	1	46,258	1	60,836	1	75,732	1	90,694	1	105,663	1	120,621	1	135,576
1/4	1,975	1/4	16,872	1/4	31,851	1/4	46,560	1/4	61,148	1/4	76,042	1/4	91,006	1/4	105,975	1/4	120,932	1/4	135,886
1/2	2,257	1/2	17,184	1/2	32,163	1/2	46,861	1/2	61,460	1/2	76,352	1/2	91,317	1/2	106,287	1/2	121,244	1/2	136,196
3/4	2,540	3/4	17,496	3/4	32,476	3/4	47,163	3/4	61,772	3/4	76,662	3/4	91,629	3/4	106,599	3/4	121,556	3/4	136,506
2	2,823	2	17,808	2	32,788	2	47,465	2	62,083	2	76,972	2	91,941	2	106,911	2	121,867	2	136,817
1/4	3,135	1/4	18,120	1/4	33,100	1/4	47,767	1/4	62,395	1/4	77,283	1/4	92,253	1/4	107,223	1/4	122,179	1/4	137,122
1/2	3,446	1/2	18,433	1/2	33,412	1/2	48,069	1/2	62,706	1/2	77,594	1/2	92,564	1/2	107,534	1/2	122,490	1/2	137,428
3/4	3,757	3/4	18,745	3/4	33,724	3/4	48,371	3/4	63,017	3/4	77,904	3/4	92,876	3/4	107,846	3/4	122,802	3/4	137,733
3	4,069	3	19,057	3	34,036	3	48,674	3	63,329	3	78,215	3	93,188	3	108,158	3	123,113	3	138,039
1/4	4,381	1/4	19,369	1/4	34,348	1/4	48,976	1/4	63,639	1/4	78,527	1/4	93,499	1/4	108,469	1/4	123,425	1/4	138,344
1/2	4,693	1/2	19,681	1/2	34,660	1/2	49,278	1/2	63,949	1/2	78,839	1/2	93,811	1/2	108,781	1/2	123,737	1/2	138,650
3/4	5,005	3/4	19,993	3/4	34,972	3/4	49,580	3/4	64,259	3/4	79,151	3/4	94,123	3/4	109,093	3/4	124,048	3/4	138,956
4	5,317	4	20,305	4	35,283	4	49,883	4	64,569	4	79,463	4	94,435	4	109,404	4	124,360	4	139,261
1/4	5,630	1/4	20,617	1/4	35,593	1/4	50,185	1/4	64,879	1/4	79,775	1/4	94,746	1/4	109,716	1/4	124,671	1/4	139,567
1/2	5,942	1/2	20,929	1/2	35,902	1/2	50,487	1/2	65,189	1/2	80,087	1/2	95,058	1/2	110,028	1/2	124,983	1/2	139,872
3/4	6,254	3/4	21,242	3/4	36,212	3/4	50,789	3/4	65,499	3/4	80,399	3/4	95,370	3/4	110,339	3/4	125,294	3/4	140,178
5	6,567	5	21,554	5	36,522	5	51,092	5	65,809	5	80,711	5	95,682	5	110,651	5	125,606	5	140,484
1/4	6,879	1/4	21,866	1/4	36,826	1/4	51,394	1/4	66,120	1/4	81,023	1/4	95,993	1/4	110,962	1/4	125,918	1/4	140,789
1/2	7,191	1/2	22,178	1/2	37,131	1/2	51,696	1/2	66,430	1/2	81,335	1/2	96,305	1/2	111,274	1/2	126,229	1/2	141,095
3/4	7,504	3/4	22,490	3/4	37,436	3/4	51,998	3/4	66,740	3/4	81,647	3/4	96,617	3/4	111,585	3/4	126,541	3/4	141,400
6	7,816	6	22,802	6	37,741	6	52,301	6	67,050	6	81,959	6	96,929	6	111,897	6	126,852	6	141,706
1/4	8,128	1/4	23,114	1/4	38,045	1/4	52,603	1/4	67,360	1/4	82,271	1/4	97,240	1/4	112,209	1/4	127,164	1/4	142,011
1/2	8,441	1/2	23,426	1/2	38,350	1/2	52,905	1/2	67,670	1/2	82,583	1/2	97,552	1/2	112,520	1/2	127,475	1/2	142,317
3/4	8,753	3/4	23,738	3/4	38,655	3/4	53,207	3/4	67,980	3/4	82,896	3/4	97,864	3/4	112,832	3/4	127,787	3/4	142,622
7	9,066	7	24,051	7	38,960	7	53,510	7	68,290	7	83,208	7	98,176	7	113,143	7	128,099	7	142,927
1/4	9,378	1/4	24,363	1/4	39,265	1/4	53,812	1/4	68,600	1/4	83,520	1/4	98,488	1/4	113,455	1/4	128,410	1/4	143,232
1/2	9,691	1/2	24,675	1/2	39,569	1/2	54,114	1/2	68,910	1/2	83,832	1/2	98,800	1/2	113,766	1/2	128,722	1/2	143,537
3/4	10,004	3/4	24,987	3/4	39,874	3/4	54,416	3/4	69,220	3/4	84,144	3/4	99,112	3/4	114,078	3/4	129,033	3/4	143,841
8	10,316	8	25,299	8	40,179	8	54,719	8	69,530	8	84,456	8	99,424	8	114,390	8	129,345	8	144,146
1/4	10,629	1/4	25,611	1/4	40,484	1/4	55,021	1/4	69,841	1/4	84,768	1/4	99,736	1/4	114,701	1/4	129,656	1/4	144,451
1/2	10,941	1/2	25,923	1/2	40,789	1/2	55,323	1/2	70,151	1/2	85,080	1/2	100,048	1/2	115,013	1/2	129,968	1/2	144,755
3/4	11,254	3/4	26,235	3/4	41,093	3/4	55,625	3/4	70,461	3/4	85,392	3/4	100,360	3/4	115,324	3/4	130,280	3/4	145,060
9	11,566	9	26,547	9	41,398	9	55,928	9	70,771	9	85,704	9	100,672	9	115,636	9	130,591	9	145,364
1/4	11,878	1/4	26,859	1/4	41,703	1/4	56,231	1/4	71,081	1/4	86,016	1/4	100,984	1/4	115,947	1/4	130,903	1/4	145,651
1/2	12,190	1/2	27,171	1/2	42,008	1/2	56,534	1/2	71,391	1/2	86,328	1/2	101,296	1/2	116,259	1/2	131,214	1/2	145,938
3/4	12,502	3/4	27,483	3/4	42,312	3/4	56,837	3/4	71,701	3/4	86,640	3/4	101,608	3/4	116,570	3/4	131,526	3/4	146,225
10	12,814	10	27,795	10	42,617	10	57,140	10	72,011	10	86,952	10	101,920	10	116,882	10	131,837	10	146,511
1/4	13,127	1/4	28,107	1/4	42,922	1/4	57,445	1/4	72,321	1/4	87,264	1/4	102,232	1/4	117,194	1/4	132,149	1/4	146,744
1/2	13,439	1/2	28,419	1/2	43,227	1/2	57,751	1/2	72,631	1/2	87,576	1/2	102,544	1/2	117,505	1/2	132,461	1/2	146,977
3/4	13,751	3/4	28,731	3/4	43,532	3/4	58,056	3/4	72,941	3/4	87,888	3/4	102,856	3/4	117,817	3/4	132,772	3/4	147,210
11	14,063	11	29,043	11	43,836	11	58,361	11	73,251	11	88,200	11	103,168	11	118,128	11	133,084	11	147,442
1/4	14,375	1/4	29,355	1/4	44,140	1/4	58,668	1/4	73,562	1/4	88,512	1/4	103,480	1/4	118,440	1/4	133,395	1/4	147,675
1/2	14,687	1/2	29,667	1/2	44,444	1/2	58,975	1/2	73,872	1/2	88,823	1/2	103,791	1/2	118,751	1/2	133,707	1/2	147,908
3/4	14,999	3/4	29,979	3/4	44,748	3/4	59,282	3/4	74,182	3/4	89,135	3/4	104,103	3/4	119,063	3/4	134,018	3/4	148,141

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 LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-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 "HSM 4105"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	148,374	0	159,595	0	170,812	0	181,999	0	193,286	0		0		0		0		0	
1/4	148,607	1/4	159,828	1/4	171,045	1/4	182,232	1/4	193,515	1/4		1/4		1/4		1/4		1/4	
1/2	148,840	1/2	160,062	1/2	171,278	1/2	182,466	1/2	193,745	1/2		1/2		1/2		1/2		1/2	
3/4	149,073	3/4	160,296	3/4	171,511	3/4	182,699	3/4	193,975	3/4		3/4		3/4		3/4		3/4	
1	149,306	1	160,530	1	171,744	1	182,932	1	194,205	1		1		1		1		1	
1/4	149,540	1/4	160,764	1/4	171,977	1/4	183,165	1/4	194,403	1/4		1/4		1/4		1/4		1/4	
1/2	149,774	1/2	160,998	1/2	172,210	1/2	183,398	1/2	194,602	1/2		1/2		1/2		1/2		1/2	
3/4	150,007	3/4	161,231	3/4	172,443	3/4	183,631	3/4	194,800	3/4		3/4		3/4		3/4		3/4	
2	150,241	2	161,465	2	172,676	2	183,864	2	194,998	2		2		2		2		2	
1/4	150,475	1/4	161,699	1/4	172,910	1/4	184,097	1/4	195,145	1/4		1/4		1/4		1/4		1/4	
1/2	150,709	1/2	161,933	1/2	173,143	1/2	184,330	1/2	195,291	1/2		1/2		1/2		1/2		1/2	
3/4	150,943	3/4	162,167	3/4	173,376	3/4	184,563	3/4	195,437	3/4		3/4		3/4		3/4		3/4	
3	151,177	3	162,401	3	173,609	3	184,796	3	195,584	3		3		3		3		3	
1/4	151,410	1/4	162,635	1/4	173,842	1/4	185,029	1/4	195,678	1/4		1/4		1/4		1/4		1/4	
1/2	151,644	1/2	162,868	1/2	174,075	1/2	185,262	1/2	195,772	1/2		1/2		1/2		1/2		1/2	
3/4	151,878	3/4	163,102	3/4	174,308	3/4	185,496	3/4	195,866	3/4		3/4		3/4		3/4		3/4	
4	152,112	4	163,336	4	174,541	4	185,729	4	195,961	4		4		4		4		4	
1/4	152,346	1/4	163,570	1/4	174,774	1/4	185,962	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,580	1/2	163,804	1/2	175,007	1/2	186,195	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,813	3/4	164,038	3/4	175,240	3/4	186,428	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,047	5	164,271	5	175,473	5	186,661	5		5		5		5		5		5	
1/4	153,281	1/4	164,505	1/4	175,706	1/4	186,894	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,515	1/2	164,739	1/2	175,939	1/2	187,127	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,749	3/4	164,973	3/4	176,173	3/4	187,360	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,983	6	165,207	6	176,406	6	187,593	6		6		6		6		6		6	
1/4	154,216	1/4	165,441	1/4	176,639	1/4	187,826	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,450	1/2	165,674	1/2	176,872	1/2	188,059	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,684	3/4	165,908	3/4	177,105	3/4	188,292	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,918	7	166,142	7	177,338	7	188,525	7		7		7		7		7		7	
1/4	155,152	1/4	166,376	1/4	177,571	1/4	188,760	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,386	1/2	166,610	1/2	177,804	1/2	188,995	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,619	3/4	166,844	3/4	178,037	3/4	189,229	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,853	8	167,077	8	178,270	8	189,464	8		8		8		8		8		8	
1/4	156,087	1/4	167,311	1/4	178,503	1/4	189,703	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,321	1/2	167,545	1/2	178,736	1/2	189,942	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,555	3/4	167,779	3/4	178,969	3/4	190,181	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,789	9	168,013	9	179,203	9	190,421	9		9		9		9		9		9	
1/4	157,022	1/4	168,246	1/4	179,436	1/4	190,660	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,256	1/2	168,480	1/2	179,669	1/2	190,899	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,490	3/4	168,714	3/4	179,902	3/4	191,138	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,724	10	168,947	10	180,135	10	191,377	10		10		10		10		10		10	
1/4	157,958	1/4	169,180	1/4	180,368	1/4	191,616	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,192	1/2	169,413	1/2	180,601	1/2	191,855	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,425	3/4	169,646	3/4	180,834	3/4	192,094	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,659	11	169,880	11	181,067	11	192,333	11		11		11		11		11		11	
1/4	158,893	1/4	170,113	1/4	181,300	1/4	192,571	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,127	1/2	170,346	1/2	181,533	1/2	192,809	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,361	3/4	170,579	3/4	181,766	3/4	193,047	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HSM 4105"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	833	0	15,335	0	30,353	0	45,356	0	60,373	0	75,392	0	90,411	0	105,430	0	120,432	0	135,431
1/4	1,048	1/4	15,648	1/4	30,666	1/4	45,668	1/4	60,686	1/4	75,705	1/4	90,724	1/4	105,743	1/4	120,745	1/4	135,744
1/2	1,263	1/2	15,960	1/2	30,979	1/2	45,981	1/2	60,999	1/2	76,018	1/2	91,036	1/2	106,055	1/2	121,057	1/2	136,056
3/4	1,478	3/4	16,273	3/4	31,292	3/4	46,294	3/4	61,312	3/4	76,330	3/4	91,349	3/4	106,368	3/4	121,370	3/4	136,369
1	1,693	1	16,586	1	31,605	1	46,606	1	61,624	1	76,643	1	91,662	1	106,681	1	121,682	1	136,681
1/4	1,976	1/4	16,899	1/4	31,918	1/4	46,919	1/4	61,937	1/4	76,956	1/4	91,975	1/4	106,994	1/4	121,995	1/4	136,992
1/2	2,260	1/2	17,212	1/2	32,230	1/2	47,232	1/2	62,250	1/2	77,269	1/2	92,288	1/2	107,307	1/2	122,307	1/2	137,303
3/4	2,543	3/4	17,525	3/4	32,543	3/4	47,544	3/4	62,563	3/4	77,582	3/4	92,601	3/4	107,620	3/4	122,620	3/4	137,614
2	2,826	2	17,838	2	32,856	2	47,857	2	62,876	2	77,895	2	92,914	2	107,932	2	122,932	2	137,925
1/4	3,137	1/4	18,151	1/4	33,169	1/4	48,170	1/4	63,189	1/4	78,208	1/4	93,227	1/4	108,245	1/4	123,245	1/4	138,232
1/2	3,449	1/2	18,464	1/2	33,482	1/2	48,483	1/2	63,502	1/2	78,521	1/2	93,540	1/2	108,558	1/2	123,557	1/2	138,538
3/4	3,761	3/4	18,776	3/4	33,795	3/4	48,796	3/4	63,815	3/4	78,834	3/4	93,853	3/4	108,870	3/4	123,870	3/4	138,845
3	4,072	3	19,089	3	34,108	3	49,109	3	64,128	3	79,146	3	94,165	3	109,183	3	124,182	3	139,151
1/4	4,385	1/4	19,402	1/4	34,421	1/4	49,422	1/4	64,440	1/4	79,459	1/4	94,478	1/4	109,495	1/4	124,495	1/4	139,458
1/2	4,697	1/2	19,715	1/2	34,733	1/2	49,734	1/2	64,753	1/2	79,772	1/2	94,791	1/2	109,808	1/2	124,807	1/2	139,764
3/4	5,010	3/4	20,028	3/4	35,046	3/4	50,047	3/4	65,066	3/4	80,085	3/4	95,104	3/4	110,121	3/4	125,119	3/4	140,070
4	5,323	4	20,341	4	35,359	4	50,360	4	65,379	4	80,398	4	95,417	4	110,433	4	125,432	4	140,377
1/4	5,635	1/4	20,654	1/4	35,671	1/4	50,673	1/4	65,692	1/4	80,711	1/4	95,730	1/4	110,746	1/4	125,744	1/4	140,683
1/2	5,948	1/2	20,967	1/2	35,984	1/2	50,986	1/2	66,005	1/2	81,024	1/2	96,043	1/2	111,058	1/2	126,057	1/2	140,990
3/4	6,261	3/4	21,279	3/4	36,296	3/4	51,299	3/4	66,318	3/4	81,337	3/4	96,356	3/4	111,371	3/4	126,369	3/4	141,296
5	6,574	5	21,592	5	36,608	5	51,612	5	66,631	5	81,650	5	96,669	5	111,683	5	126,682	5	141,603
1/4	6,887	1/4	21,905	1/4	36,921	1/4	51,925	1/4	66,944	1/4	81,963	1/4	96,981	1/4	111,995	1/4	126,994	1/4	141,909
1/2	7,200	1/2	22,218	1/2	37,233	1/2	52,238	1/2	67,257	1/2	82,275	1/2	97,294	1/2	112,308	1/2	127,307	1/2	142,216
3/4	7,513	3/4	22,531	3/4	37,546	3/4	52,550	3/4	67,569	3/4	82,588	3/4	97,607	3/4	112,620	3/4	127,619	3/4	142,522
6	7,825	6	22,844	6	37,858	6	52,863	6	67,882	6	82,901	6	97,920	6	112,933	6	127,932	6	142,829
1/4	8,138	1/4	23,157	1/4	38,170	1/4	53,176	1/4	68,195	1/4	83,214	1/4	98,233	1/4	113,245	1/4	128,244	1/4	143,135
1/2	8,451	1/2	23,470	1/2	38,483	1/2	53,489	1/2	68,508	1/2	83,527	1/2	98,546	1/2	113,558	1/2	128,557	1/2	143,441
3/4	8,764	3/4	23,783	3/4	38,795	3/4	53,802	3/4	68,821	3/4	83,840	3/4	98,859	3/4	113,870	3/4	128,869	3/4	143,748
7	9,077	7	24,095	7	39,108	7	54,115	7	69,134	7	84,153	7	99,172	7	114,183	7	129,182	7	144,054
1/4	9,390	1/4	24,408	1/4	39,420	1/4	54,428	1/4	69,447	1/4	84,466	1/4	99,485	1/4	114,495	1/4	129,494	1/4	144,359
1/2	9,703	1/2	24,721	1/2	39,732	1/2	54,741	1/2	69,760	1/2	84,779	1/2	99,798	1/2	114,808	1/2	129,807	1/2	144,665
3/4	10,016	3/4	25,034	3/4	40,045	3/4	55,054	3/4	70,073	3/4	85,091	3/4	100,110	3/4	115,120	3/4	130,119	3/4	144,971
8	10,329	8	25,347	8	40,357	8	55,367	8	70,385	8	85,404	8	100,423	8	115,433	8	130,432	8	145,276
1/4	10,641	1/4	25,660	1/4	40,670	1/4	55,679	1/4	70,698	1/4	85,717	1/4	100,736	1/4	115,745	1/4	130,744	1/4	145,582
1/2	10,954	1/2	25,973	1/2	40,982	1/2	55,992	1/2	71,011	1/2	86,030	1/2	101,049	1/2	116,058	1/2	131,057	1/2	145,887
3/4	11,267	3/4	26,286	3/4	41,294	3/4	56,305	3/4	71,324	3/4	86,343	3/4	101,362	3/4	116,370	3/4	131,369	3/4	146,193
9	11,580	9	26,599	9	41,607	9	56,618	9	71,637	9	86,656	9	101,675	9	116,683	9	131,682	9	146,498
1/4	11,893	1/4	26,911	1/4	41,919	1/4	56,931	1/4	71,950	1/4	86,969	1/4	101,988	1/4	116,995	1/4	131,994	1/4	146,786
1/2	12,206	1/2	27,224	1/2	42,232	1/2	57,244	1/2	72,263	1/2	87,282	1/2	102,301	1/2	117,308	1/2	132,306	1/2	147,073
3/4	12,519	3/4	27,537	3/4	42,544	3/4	57,557	3/4	72,576	3/4	87,595	3/4	102,614	3/4	117,620	3/4	132,619	3/4	147,361
10	12,832	10	27,850	10	42,856	10	57,870	10	72,889	10	87,908	10	102,926	10	117,933	10	132,931	10	147,648
1/4	13,144	1/4	28,163	1/4	43,169	1/4	58,183	1/4	73,202	1/4	88,220	1/4	103,239	1/4	118,245	1/4	133,244	1/4	147,881
1/2	13,457	1/2	28,476	1/2	43,481	1/2	58,495	1/2	73,514	1/2	88,533	1/2	103,552	1/2	118,557	1/2	133,556	1/2	148,114
3/4	13,770	3/4	28,789	3/4	43,794	3/4	58,808	3/4	73,827	3/4	88,846	3/4	103,865	3/4	118,870	3/4	133,869	3/4	148,347
11	14,083	11	29,102	11	44,106	11	59,121	11	74,140	11	89,159	11	104,178	11	119,182	11	134,181	11	148,580
1/4	14,396	1/4	29,414	1/4	44,418	1/4	59,434	1/4	74,453	1/4	89,472	1/4	104,491	1/4	119,495	1/4	134,494	1/4	148,813
1/2	14,709	1/2	29,727	1/2	44,731	1/2	59,747	1/2	74,766	1/2	89,785	1/2	104,804	1/2	119,807	1/2	134,806	1/2	149,046
3/4	15,022	3/4	30,040	3/4	45,043	3/4	60,060	3/4	75,079	3/4	90,098	3/4	105,117	3/4	120,120	3/4	135,119	3/4	149,279

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 LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" 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 "HSM 4105"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	149,513	0	160,743	0	171,970	0	183,167	0	194,463	0		0		0		0		0	
1/4	149,746	1/4	160,977	1/4	172,203	1/4	183,400	1/4	194,693	1/4		1/4		1/4		1/4		1/4	
1/2	149,979	1/2	161,211	1/2	172,436	1/2	183,634	1/2	194,923	1/2		1/2		1/2		1/2		1/2	
3/4	150,212	3/4	161,445	3/4	172,670	3/4	183,867	3/4	195,153	3/4		3/4		3/4		3/4		3/4	
1	150,446	1	161,679	1	172,903	1	184,100	1	195,383	1		1		1		1		1	
1/4	150,680	1/4	161,913	1/4	173,136	1/4	184,333	1/4	195,581	1/4		1/4		1/4		1/4		1/4	
1/2	150,914	1/2	162,147	1/2	173,370	1/2	184,567	1/2	195,780	1/2		1/2		1/2		1/2		1/2	
3/4	151,148	3/4	162,381	3/4	173,603	3/4	184,800	3/4	195,978	3/4		3/4		3/4		3/4		3/4	
2	151,382	2	162,615	2	173,836	2	185,033	2	196,177	2		2		2		2		2	
1/4	151,616	1/4	162,850	1/4	174,069	1/4	185,266	1/4	196,323	1/4		1/4		1/4		1/4		1/4	
1/2	151,850	1/2	163,084	1/2	174,303	1/2	185,500	1/2	196,470	1/2		1/2		1/2		1/2		1/2	
3/4	152,084	3/4	163,318	3/4	174,536	3/4	185,733	3/4	196,616	3/4		3/4		3/4		3/4		3/4	
3	152,318	3	163,552	3	174,769	3	185,966	3	196,763	3		3		3		3		3	
1/4	152,552	1/4	163,786	1/4	175,002	1/4	186,200	1/4	196,857	1/4		1/4		1/4		1/4		1/4	
1/2	152,786	1/2	164,020	1/2	175,236	1/2	186,433	1/2	196,951	1/2		1/2		1/2		1/2		1/2	
3/4	153,020	3/4	164,254	3/4	175,469	3/4	186,666	3/4	197,046	3/4		3/4		3/4		3/4		3/4	
4	153,254	4	164,488	4	175,702	4	186,899	4	197,140	4		4		4		4		4	
1/4	153,488	1/4	164,722	1/4	175,936	1/4	187,133	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,722	1/2	164,956	1/2	176,169	1/2	187,366	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,956	3/4	165,190	3/4	176,402	3/4	187,599	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,190	5	165,424	5	176,635	5	187,832	5		5		5		5		5		5	
1/4	154,424	1/4	165,658	1/4	176,869	1/4	188,066	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,658	1/2	165,892	1/2	177,102	1/2	188,299	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,892	3/4	166,126	3/4	177,335	3/4	188,532	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,126	6	166,360	6	177,568	6	188,766	6		6		6		6		6		6	
1/4	155,360	1/4	166,594	1/4	177,802	1/4	188,999	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,595	1/2	166,828	1/2	178,035	1/2	189,232	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,829	3/4	167,062	3/4	178,268	3/4	189,465	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,063	7	167,296	7	178,502	7	189,699	7		7		7		7		7		7	
1/4	156,297	1/4	167,530	1/4	178,735	1/4	189,933	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,531	1/2	167,764	1/2	178,968	1/2	190,168	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,765	3/4	167,998	3/4	179,201	3/4	190,403	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,999	8	168,232	8	179,435	8	190,638	8		8		8		8		8		8	
1/4	157,233	1/4	168,466	1/4	179,668	1/4	190,877	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,467	1/2	168,700	1/2	179,901	1/2	191,117	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,701	3/4	168,934	3/4	180,134	3/4	191,356	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,935	9	169,168	9	180,368	9	191,595	9		9		9		9		9		9	
1/4	158,169	1/4	169,402	1/4	180,601	1/4	191,835	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,403	1/2	169,636	1/2	180,834	1/2	192,074	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,637	3/4	169,870	3/4	181,068	3/4	192,313	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,871	10	170,104	10	181,301	10	192,553	10		10		10		10		10		10	
1/4	159,105	1/4	170,337	1/4	181,534	1/4	192,792	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,339	1/2	170,570	1/2	181,767	1/2	193,031	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,573	3/4	170,804	3/4	182,001	3/4	193,270	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,807	11	171,037	11	182,234	11	193,510	11		11		11		11		11		11	
1/4	160,041	1/4	171,270	1/4	182,467	1/4	193,748	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,275	1/2	171,503	1/2	182,700	1/2	193,986	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,509	3/4	171,737	3/4	182,934	3/4	194,224	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/07/2024 CL  
CALCULATED: 11/08/2024 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2024

PRECISION MEASUREMENT  
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# BARGE "HSM 4105"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	84	0	212	0	327	0		0		0		0		0		0	
1/4	1	1/4	87	1/4	214	1/4	329	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1	1/2	89	1/2	217	1/2	331	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	92	3/4	220	3/4	332	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2	1	94	1	222	1	334	1	1	1	1	1	1	1	1	1	1	1	1
1/4	3	1/4	97	1/4	225	1/4	336	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	4	1/2	99	1/2	228	1/2	338	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	5	3/4	102	3/4	230	3/4	339	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	6	2	105	2	233	2	341	2	2	2	2	2	2	2	2	2	2	2	2
1/4	8	1/4	107	1/4	236	1/4	342	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	9	1/2	110	1/2	238	1/2	344	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	10	3/4	112	3/4	241	3/4	345	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	11	3	115	3	243	3	347	3	3	3	3	3	3	3	3	3	3	3	3
1/4	13	1/4	118	1/4	246	1/4	348	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	14	1/2	120	1/2	249	1/2	350	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	16	3/4	123	3/4	251	3/4	351	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	17	4	125	4	254	4	352	4	4	4	4	4	4	4	4	4	4	4	4
1/4	19	1/4	128	1/4	256	1/4	353	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	21	1/2	131	1/2	259	1/2	354	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	22	3/4	133	3/4	261	3/4	355	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	24	5	136	5	264	5	356	5	5	5	5	5	5	5	5	5	5	5	5
1/4	26	1/4	139	1/4	266	1/4	357	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	28	1/2	141	1/2	269	1/2	357	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	30	3/4	144	3/4	271	3/4	358	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	31	6	147	6	274	6	358	6	6	6	6	6	6	6	6	6	6	6	6
1/4	33	1/4	149	1/4	276	1/4	=====	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	35	1/2	152	1/2	279	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	37	3/4	155	3/4	281	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	39	7	157	7	284	7		7	7	7	7	7	7	7	7	7	7	7	7
1/4	41	1/4	160	1/4	286	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	43	1/2	163	1/2	288	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	45	3/4	166	3/4	291	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	48	8	168	8	293	8		8	8	8	8	8	8	8	8	8	8	8	8
1/4	50	1/4	171	1/4	295	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52	1/2	174	1/2	298	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54	3/4	176	3/4	300	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	56	9	179	9	302	9		9	9	9	9	9	9	9	9	9	9	9	9
1/4	59	1/4	182	1/4	304	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61	1/2	185	1/2	306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63	3/4	187	3/4	309	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	65	10	190	10	311	10		10	10	10	10	10	10	10	10	10	10	10	10
1/4	68	1/4	193	1/4	313	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70	1/2	195	1/2	315	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72	3/4	198	3/4	317	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	75	11	201	11	319	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	77	1/4	204	1/4	321	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80	1/2	206	1/2	323	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	82	3/4	209	3/4	325	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 AT GAUGE POINT.

STRAPPED: 11/07/2024 CL  
 CALCULATED: 11/08/2024 CL  
 PRINTED: 11/08/2024 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 11/2024

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

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



# BARGE "HSM 4105"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

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	9	0	299	0	589	0	879	0	1,170	0		0		0		0		0	
1/4	15	1/4	305	1/4	595	1/4	885	1/4	1,176	1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	311	1/2	601	1/2	892	1/2	1,182	1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	317	3/4	607	3/4	898	3/4	1,188	3/4		3/4		3/4		3/4		3/4	
1	33	1	323	1	613	1	904	1	1,194	1		1		1		1		1	
1/4	39	1/4	329	1/4	620	1/4	910	1/4	1,200	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	335	1/2	626	1/2	916	1/2	1,206	1/2		1/2		1/2		1/2		1/2	
3/4	51	3/4	341	3/4	632	3/4	922	3/4	1,212	3/4		3/4		3/4		3/4		3/4	
2	57	2	348	2	638	2	928	2	1,218	2		2		2		2		2	
1/4	63	1/4	354	1/4	644	1/4	934	1/4	1,224	1/4		1/4		1/4		1/4		1/4	
1/2	70	1/2	360	1/2	650	1/2	940	1/2	1,230	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	366	3/4	656	3/4	946	3/4	1,236	3/4		3/4		3/4		3/4		3/4	
3	82	3	372	3	662	3	952	3	1,242	3		3		3		3		3	
1/4	88	1/4	378	1/4	668	1/4	958	1/4	1,248	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	384	1/2	674	1/2	964	1/2	1,254	1/2		1/2		1/2		1/2		1/2	
3/4	100	3/4	390	3/4	680	3/4	970	3/4	1,260	3/4		3/4		3/4		3/4		3/4	
4	106	4	396	4	686	4	976	4	1,266	4		4		4		4		4	
1/4	112	1/4	402	1/4	692	1/4	982	1/4	1,272	1/4		1/4		1/4		1/4		1/4	
1/2	118	1/2	408	1/2	698	1/2	988	1/2	1,278	1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	414	3/4	704	3/4	994	3/4	1,284	3/4		3/4		3/4		3/4		3/4	
5	130	5	420	5	710	5	1,000	5	1,290	5		5		5		5		5	
1/4	136	1/4	426	1/4	716	1/4	1,006	1/4	1,296	1/4		1/4		1/4		1/4		1/4	
1/2	142	1/2	432	1/2	722	1/2	1,012	1/2	1,300	1/2		1/2		1/2		1/2		1/2	
3/4	148	3/4	438	3/4	728	3/4	1,018	3/4	=====	3/4		3/4		3/4		3/4		3/4	
6	154	6	444	6	734	6	1,024	6		6		6		6		6		6	
1/4	160	1/4	450	1/4	740	1/4	1,031	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166	1/2	456	1/2	746	1/2	1,037	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	462	3/4	753	3/4	1,043	3/4		3/4		3/4		3/4		3/4		3/4	
7	178	7	468	7	759	7	1,049	7		7		7		7		7		7	
1/4	184	1/4	474	1/4	765	1/4	1,055	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	190	1/2	481	1/2	771	1/2	1,061	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	196	3/4	487	3/4	777	3/4	1,067	3/4		3/4		3/4		3/4		3/4		3/4	
8	202	8	493	8	783	8	1,073	8		8		8		8		8		8	
1/4	209	1/4	499	1/4	789	1/4	1,079	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	215	1/2	505	1/2	795	1/2	1,085	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	221	3/4	511	3/4	801	3/4	1,091	3/4		3/4		3/4		3/4		3/4		3/4	
9	227	9	517	9	807	9	1,097	9		9		9		9		9		9	
1/4	233	1/4	523	1/4	813	1/4	1,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	239	1/2	529	1/2	819	1/2	1,109	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	245	3/4	535	3/4	825	3/4	1,115	3/4		3/4		3/4		3/4		3/4		3/4	
10	251	10	541	10	831	10	1,121	10		10		10		10		10		10	
1/4	257	1/4	547	1/4	837	1/4	1,127	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	263	1/2	553	1/2	843	1/2	1,133	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	269	3/4	559	3/4	849	3/4	1,139	3/4		3/4		3/4		3/4		3/4		3/4	
11	275	11	565	11	855	11	1,145	11		11		11		11		11		11	
1/4	281	1/4	571	1/4	861	1/4	1,151	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	577	1/2	867	1/2	1,157	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	293	3/4	583	3/4	873	3/4	1,164	3/4		3/4		3/4		3/4		3/4		3/4	

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 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE

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 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "HSM 4105"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

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	9	0	299	0	589	0	879	0	1,170	0		0		0		0		0	
1/4	15	1/4	305	1/4	595	1/4	885	1/4	1,176	1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	311	1/2	601	1/2	892	1/2	1,182	1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	317	3/4	607	3/4	898	3/4	1,188	3/4		3/4		3/4		3/4		3/4	
1	33	1	323	1	613	1	904	1	1,194	1		1		1		1		1	
1/4	39	1/4	329	1/4	620	1/4	910	1/4	1,200	1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	335	1/2	626	1/2	916	1/2	1,206	1/2		1/2		1/2		1/2		1/2	
3/4	51	3/4	341	3/4	632	3/4	922	3/4	1,212	3/4		3/4		3/4		3/4		3/4	
2	57	2	348	2	638	2	928	2	1,218	2		2		2		2		2	
1/4	63	1/4	354	1/4	644	1/4	934	1/4	1,224	1/4		1/4		1/4		1/4		1/4	
1/2	70	1/2	360	1/2	650	1/2	940	1/2	1,230	1/2		1/2		1/2		1/2		1/2	
3/4	76	3/4	366	3/4	656	3/4	946	3/4	1,236	3/4		3/4		3/4		3/4		3/4	
3	82	3	372	3	662	3	952	3	1,242	3		3		3		3		3	
1/4	88	1/4	378	1/4	668	1/4	958	1/4	1,248	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	384	1/2	674	1/2	964	1/2	1,254	1/2		1/2		1/2		1/2		1/2	
3/4	100	3/4	390	3/4	680	3/4	970	3/4	1,260	3/4		3/4		3/4		3/4		3/4	
4	106	4	396	4	686	4	976	4	1,266	4		4		4		4		4	
1/4	112	1/4	402	1/4	692	1/4	982	1/4	1,272	1/4		1/4		1/4		1/4		1/4	
1/2	118	1/2	408	1/2	698	1/2	988	1/2	1,278	1/2		1/2		1/2		1/2		1/2	
3/4	124	3/4	414	3/4	704	3/4	994	3/4	1,284	3/4		3/4		3/4		3/4		3/4	
5	130	5	420	5	710	5	1,000	5	1,290	5		5		5		5		5	
1/4	136	1/4	426	1/4	716	1/4	1,006	1/4	1,296	1/4		1/4		1/4		1/4		1/4	
1/2	142	1/2	432	1/2	722	1/2	1,012	1/2	1,300	1/2		1/2		1/2		1/2		1/2	
3/4	148	3/4	438	3/4	728	3/4	1,018	3/4	=====	3/4		3/4		3/4		3/4		3/4	
6	154	6	444	6	734	6	1,024	6		6		6		6		6		6	
1/4	160	1/4	450	1/4	740	1/4	1,031	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166	1/2	456	1/2	746	1/2	1,037	1/2		1/2		1/2		1/2		1/2		1/2	
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7	178	7	468	7	759	7	1,049	7		7		7		7		7		7	
1/4	184	1/4	474	1/4	765	1/4	1,055	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	190	1/2	481	1/2	771	1/2	1,061	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	196	3/4	487	3/4	777	3/4	1,067	3/4		3/4		3/4		3/4		3/4		3/4	
8	202	8	493	8	783	8	1,073	8		8		8		8		8		8	
1/4	209	1/4	499	1/4	789	1/4	1,079	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	215	1/2	505	1/2	795	1/2	1,085	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	221	3/4	511	3/4	801	3/4	1,091	3/4		3/4		3/4		3/4		3/4		3/4	
9	227	9	517	9	807	9	1,097	9		9		9		9		9		9	
1/4	233	1/4	523	1/4	813	1/4	1,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	239	1/2	529	1/2	819	1/2	1,109	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	245	3/4	535	3/4	825	3/4	1,115	3/4		3/4		3/4		3/4		3/4		3/4	
10	251	10	541	10	831	10	1,121	10		10		10		10		10		10	
1/4	257	1/4	547	1/4	837	1/4	1,127	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	263	1/2	553	1/2	843	1/2	1,133	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	269	3/4	559	3/4	849	3/4	1,139	3/4		3/4		3/4		3/4		3/4		3/4	
11	275	11	565	11	855	11	1,145	11		11		11		11		11		11	
1/4	281	1/4	571	1/4	861	1/4	1,151	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	577	1/2	867	1/2	1,157	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	293	3/4	583	3/4	873	3/4	1,164	3/4		3/4		3/4		3/4		3/4		3/4	

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