



# BARGE "HSM 4105"

## ULLAGE TRIM TABLE

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

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 ULLAGE 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		0		0	207,788	0	192,839	0	177,838	0	162,801	0	147,756	0	132,711	0	117,666	0	102,618
1/4		1/4		1/4	207,478	1/4	192,527	1/4	177,526	1/4	162,487	1/4	147,442	1/4	132,397	1/4	117,352	1/4	102,305
1/2		1/2		1/2	207,169	1/2	192,214	1/2	177,213	1/2	162,174	1/2	147,129	1/2	132,084	1/2	117,039	1/2	101,991
3/4		3/4		3/4	206,859	3/4	191,902	3/4	176,901	3/4	161,860	3/4	146,815	3/4	131,770	3/4	116,725	3/4	101,678
1		1		1	206,548	1	191,589	1	176,588	1	161,547	1	146,502	1	131,457	1	116,412	1	101,364
1/4		1/4		1/4	206,238	1/4	191,277	1/4	176,276	1/4	161,233	1/4	146,188	1/4	131,143	1/4	116,098	1/4	101,051
1/2		1/2		1/2	205,928	1/2	190,964	1/2	175,963	1/2	160,920	1/2	145,875	1/2	130,830	1/2	115,785	1/2	100,737
3/4		3/4		3/4	205,617	3/4	190,652	3/4	175,651	3/4	160,606	3/4	145,562	3/4	130,517	3/4	115,472	3/4	100,423
2		2		2	205,307	2	190,339	2	175,337	2	160,293	2	145,248	2	130,203	2	115,158	2	100,110
1/4		1/4		1/4	204,996	1/4	190,027	1/4	175,024	1/4	159,980	1/4	144,935	1/4	129,890	1/4	114,845	1/4	99,796
1/2		1/2		1/2	204,686	1/2	189,714	1/2	174,711	1/2	159,666	1/2	144,621	1/2	129,576	1/2	114,531	1/2	99,483
3/4		3/4		3/4	204,375	3/4	189,402	3/4	174,398	3/4	159,353	3/4	144,308	3/4	129,263	3/4	114,218	3/4	99,169
3		3		3	204,065	3	189,089	3	174,084	3	159,039	3	143,994	3	128,949	3	113,904	3	98,856
1/4		1/4		1/4	203,754	1/4	188,776	1/4	173,771	1/4	158,726	1/4	143,681	1/4	128,636	1/4	113,591	1/4	98,542
1/2		1/2		1/2	203,444	1/2	188,464	1/2	173,457	1/2	158,412	1/2	143,367	1/2	128,322	1/2	113,278	1/2	98,228
3/4		3/4		3/4	203,133	3/4	188,151	3/4	173,144	3/4	158,099	3/4	143,054	3/4	128,009	3/4	112,964	3/4	97,915
4		4		4	202,823	4	187,839	4	172,831	4	157,786	4	142,741	4	127,696	4	112,651	4	97,601
1/4		1/4		1/4	202,513	1/4	187,526	1/4	172,517	1/4	157,472	1/4	142,427	1/4	127,382	1/4	112,337	1/4	97,288
1/2		1/2		1/2	202,202	1/2	187,214	1/2	172,204	1/2	157,159	1/2	142,114	1/2	127,069	1/2	112,024	1/2	96,974
3/4		3/4		3/4	201,892	3/4	186,901	3/4	171,890	3/4	156,845	3/4	141,800	3/4	126,755	3/4	111,710	3/4	96,661
5		5		5	201,581	5	186,589	5	171,577	5	156,532	5	141,487	5	126,442	5	111,397	5	96,347
1/4		1/4		1/4	201,271	1/4	186,276	1/4	171,263	1/4	156,218	1/4	141,173	1/4	126,128	1/4	111,083	1/4	96,033
1/2		1/2		1/2	200,961	1/2	185,964	1/2	170,950	1/2	155,905	1/2	140,860	1/2	125,815	1/2	110,770	1/2	95,720
3/4		3/4		3/4	200,650	3/4	185,651	3/4	170,636	3/4	155,591	3/4	140,547	3/4	125,502	3/4	110,457	3/4	95,406
6		6		6	200,338	6	185,339	6	170,323	6	155,278	6	140,233	6	125,188	6	110,143	6	95,093
1/4		1/4		1/4	200,026	1/4	185,026	1/4	170,010	1/4	154,965	1/4	139,920	1/4	124,875	1/4	109,830	1/4	94,779
1/2		1/2		1/2	199,714	1/2	184,714	1/2	169,696	1/2	154,651	1/2	139,606	1/2	124,561	1/2	109,516	1/2	94,466
3/4		3/4		3/4	199,402	3/4	184,401	3/4	169,383	3/4	154,338	3/4	139,293	3/4	124,248	3/4	109,203	3/4	94,152
7		7		7	199,090	7	184,089	7	169,069	7	154,024	7	138,979	7	123,934	7	108,889	7	93,838
1/4		1/4		1/4	198,777	1/4	183,776	1/4	168,756	1/4	153,711	1/4	138,666	1/4	123,621	1/4	108,576	1/4	93,525
1/2		1/2		1/2	198,465	1/2	183,464	1/2	168,442	1/2	153,397	1/2	138,352	1/2	123,308	1/2	108,263	1/2	93,211
3/4		3/4		3/4	211,938	3/4	198,152	3/4	183,151	3/4	168,129	3/4	153,084	3/4	138,039	3/4	107,949	3/4	92,898
8		8		8	211,771	8	197,840	8	182,839	8	167,816	8	152,771	8	137,726	8	107,636	8	92,584
1/4		1/4		1/4	211,604	1/4	197,527	1/4	182,526	1/4	167,502	1/4	152,457	1/4	137,412	1/4	107,322	1/4	92,271
1/2		1/2		1/2	211,438	1/2	197,215	1/2	182,214	1/2	167,189	1/2	152,144	1/2	137,099	1/2	107,008	1/2	91,957
3/4		3/4		3/4	211,271	3/4	196,902	3/4	181,901	3/4	166,875	3/4	151,830	3/4	136,785	3/4	106,695	3/4	91,643
9		9		9	211,052	9	196,590	9	181,588	9	166,562	9	151,517	9	136,472	9	106,381	9	91,330
1/4		1/4		1/4	210,833	1/4	196,277	1/4	181,276	1/4	166,248	1/4	151,203	1/4	136,158	1/4	106,068	1/4	91,016
1/2		1/2		1/2	210,614	1/2	195,964	1/2	180,963	1/2	165,935	1/2	150,890	1/2	135,845	1/2	105,754	1/2	90,703
3/4		3/4		3/4	210,395	3/4	195,652	3/4	180,651	3/4	165,621	3/4	150,577	3/4	135,532	3/4	105,441	3/4	90,389
10		10		10	210,123	10	195,339	10	180,338	10	165,308	10	150,263	10	135,218	10	105,127	10	90,076
1/4		1/4		1/4	209,852	1/4	195,027	1/4	180,026	1/4	164,995	1/4	149,950	1/4	134,905	1/4	104,814	1/4	89,762
1/2		1/2		1/2	209,581	1/2	194,714	1/2	179,713	1/2	164,681	1/2	149,636	1/2	134,591	1/2	104,500	1/2	89,448
3/4		3/4		3/4	209,309	3/4	194,402	3/4	179,401	3/4	164,368	3/4	149,323	3/4	134,278	3/4	104,186	3/4	89,135
11		11		11	209,007	11	194,089	11	179,088	11	164,054	11	149,009	11	133,964	11	103,873	11	88,821
1/4		1/4		1/4	208,704	1/4	193,777	1/4	178,776	1/4	163,741	1/4	148,696	1/4	133,651	1/4	103,559	1/4	88,508
1/2		1/2		1/2	208,401	1/2	193,464	1/2	178,463	1/2	163,427	1/2	148,382	1/2	133,337	1/2	103,246	1/2	88,194
3/4		3/4		3/4	208,098	3/4	193,152	3/4	178,151	3/4	163,114	3/4	148,069	3/4	133,024	3/4	102,932	3/4	87,881

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "HSM 4105"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	87,567	0	72,516	0	57,512	0	42,518	0	27,467	0	12,601	0		0		0		0	
1/4	87,253	1/4	72,202	1/4	57,200	1/4	42,204	1/4	27,153	1/4	12,307	1/4		1/4		1/4		1/4	
1/2	86,940	1/2	71,888	1/2	56,889	1/2	41,890	1/2	26,839	1/2	12,012	1/2		1/2		1/2		1/2	
3/4	86,626	3/4	71,575	3/4	56,578	3/4	41,577	3/4	26,526	3/4	11,718	3/4		3/4		3/4		3/4	
1	86,313	1	71,261	1	56,267	1	41,263	1	26,212	1	11,427	1		1		1		1	
1/4	85,999	1/4	70,948	1/4	55,956	1/4	40,950	1/4	25,899	1/4	11,136	1/4		1/4		1/4		1/4	
1/2	85,686	1/2	70,634	1/2	55,644	1/2	40,636	1/2	25,585	1/2	10,846	1/2		1/2		1/2		1/2	
3/4	85,372	3/4	70,321	3/4	55,333	3/4	40,323	3/4	25,272	3/4	10,555	3/4		3/4		3/4		3/4	
2	85,058	2	70,007	2	55,022	2	40,009	2	24,958	2	10,268	2		2		2		2	
1/4	84,745	1/4	69,693	1/4	54,711	1/4	39,696	1/4	24,645	1/4	9,981	1/4		1/4		1/4		1/4	
1/2	84,431	1/2	69,380	1/2	54,400	1/2	39,382	1/2	24,331	1/2	9,694	1/2		1/2		1/2		1/2	
3/4	84,118	3/4	69,066	3/4	54,088	3/4	39,068	3/4	24,017	3/4	9,407	3/4		3/4		3/4		3/4	
3	83,804	3	68,753	3	53,777	3	38,755	3	23,704	3	9,123	3		3		3		3	
1/4	83,491	1/4	68,439	1/4	53,466	1/4	38,441	1/4	23,390	1/4	8,840	1/4		1/4		1/4		1/4	
1/2	83,177	1/2	68,126	1/2	53,155	1/2	38,128	1/2	23,077	1/2	8,557	1/2		1/2		1/2		1/2	
3/4	82,863	3/4	67,812	3/4	52,844	3/4	37,814	3/4	22,763	3/4	8,273	3/4		3/4		3/4		3/4	
4	82,550	4	67,498	4	52,532	4	37,501	4	22,450	4	7,993	4		4		4		4	
1/4	82,236	1/4	67,185	1/4	52,221	1/4	37,187	1/4	22,136	1/4	7,714	1/4		1/4		1/4		1/4	
1/2	81,923	1/2	66,871	1/2	51,909	1/2	36,873	1/2	21,822	1/2	7,434	1/2		1/2		1/2		1/2	
3/4	81,609	3/4	66,558	3/4	51,598	3/4	36,560	3/4	21,509	3/4	7,154	3/4		3/4		3/4		3/4	
5	81,296	5	66,244	5	51,286	5	36,246	5	21,195	5	6,878	5		5		5		5	
1/4	80,982	1/4	65,931	1/4	50,973	1/4	35,933	1/4	20,882	1/4	6,602	1/4		1/4		1/4		1/4	
1/2	80,668	1/2	65,617	1/2	50,661	1/2	35,619	1/2	20,568	1/2	6,326	1/2		1/2		1/2		1/2	
3/4	80,355	3/4	65,303	3/4	50,349	3/4	35,306	3/4	20,255	3/4	6,050	3/4		3/4		3/4		3/4	
6	80,041	6	64,990	6	50,037	6	34,992	6	19,941	6	5,777	6		6		6		6	
1/4	79,728	1/4	64,677	1/4	49,725	1/4	34,679	1/4	19,628	1/4	5,505	1/4		1/4		1/4		1/4	
1/2	79,414	1/2	64,363	1/2	49,413	1/2	34,365	1/2	19,314	1/2	5,232	1/2		1/2		1/2		1/2	
3/4	79,101	3/4	64,050	3/4	49,101	3/4	34,051	3/4	19,000	3/4	4,960	3/4		3/4		3/4		3/4	
7	78,787	7	63,738	7	48,788	7	33,738	7	18,688	7	4,691	7		7		7		7	
1/4	78,473	1/4	63,426	1/4	48,475	1/4	33,424	1/4	18,376	1/4	4,422	1/4		1/4		1/4		1/4	
1/2	78,160	1/2	63,115	1/2	48,161	1/2	33,111	1/2	18,064	1/2	4,154	1/2		1/2		1/2		1/2	
3/4	77,846	3/4	62,803	3/4	47,848	3/4	32,797	3/4	17,752	3/4	3,885	3/4		3/4		3/4		3/4	
8	77,533	8	62,491	8	47,535	8	32,484	8	17,443	8	3,620	8		8		8		8	
1/4	77,219	1/4	62,180	1/4	47,221	1/4	32,170	1/4	17,134	1/4	3,355	1/4		1/4		1/4		1/4	
1/2	76,906	1/2	61,869	1/2	46,908	1/2	31,856	1/2	16,825	1/2	3,090	1/2		1/2		1/2		1/2	
3/4	76,592	3/4	61,557	3/4	46,594	3/4	31,543	3/4	16,516	3/4	2,826	3/4		3/4		3/4		3/4	
9	76,278	9	61,246	9	46,280	9	31,229	9	16,210	9	2,565	9		9		9		9	
1/4	75,965	1/4	60,935	1/4	45,967	1/4	30,916	1/4	15,905	1/4	2,305	1/4		1/4		1/4		1/4	
1/2	75,651	1/2	60,624	1/2	45,653	1/2	30,602	1/2	15,600	1/2	2,045	1/2		1/2		1/2		1/2	
3/4	75,338	3/4	60,312	3/4	45,340	3/4	30,289	3/4	15,294	3/4	1,785	3/4		3/4		3/4		3/4	
10	75,024	10	60,001	10	45,026	10	29,975	10	14,993	10	1,557	10		10		10		10	
1/4	74,711	1/4	59,690	1/4	44,713	1/4	29,662	1/4	14,691	1/4	1,329	1/4		1/4		1/4		1/4	
1/2	74,397	1/2	59,379	1/2	44,399	1/2	29,348	1/2	14,389	1/2	1,101	1/2		1/2		1/2		1/2	
3/4	74,083	3/4	59,068	3/4	44,085	3/4	29,034	3/4	14,088	3/4	873	3/4		3/4		3/4		3/4	
11	73,770	11	58,756	11	43,772	11	28,721	11	13,790	11	717	11		11		11		11	
1/4	73,456	1/4	58,445	1/4	43,458	1/4	28,407	1/4	13,491	1/4	560	1/4		1/4		1/4		1/4	
1/2	73,143	1/2	58,134	1/2	43,145	1/2	28,094	1/2	13,193	1/2	404	1/2		1/2		1/2		1/2	
3/4	72,829	3/4	57,823	3/4	42,831	3/4	27,780	3/4	12,895	3/4	248	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"

## 1 STBD ULLAGE 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		0		0	206,763	0	191,845	0	176,880	0	161,877	0	146,869	0	131,860	0	116,852	0	101,842
1/4	1/4	1/4	1/4	1/4	206,454	1/4	191,533	1/4	176,568	1/4	161,565	1/4	146,556	1/4	131,548	1/4	116,540	1/4	101,529
1/2	1/2	1/2	1/2	1/2	206,144	1/2	191,221	1/2	176,257	1/2	161,252	1/2	146,243	1/2	131,235	1/2	116,227	1/2	101,216
3/4	3/4	3/4	3/4	3/4	205,835	3/4	190,910	3/4	175,945	3/4	160,939	3/4	145,931	3/4	130,922	3/4	115,914	3/4	100,903
1	1	1	1	1	205,525	1	190,598	1	175,633	1	160,627	1	145,618	1	130,610	1	115,601	1	100,590
1/4	1/4	1/4	1/4	1/4	205,216	1/4	190,286	1/4	175,321	1/4	160,314	1/4	145,305	1/4	130,297	1/4	115,289	1/4	100,278
1/2	1/2	1/2	1/2	1/2	204,906	1/2	189,974	1/2	175,009	1/2	160,001	1/2	144,993	1/2	129,984	1/2	114,976	1/2	99,965
3/4	3/4	3/4	3/4	3/4	204,596	3/4	189,663	3/4	174,697	3/4	159,689	3/4	144,680	3/4	129,672	3/4	114,663	3/4	99,652
2	2	2	2	2	204,286	2	189,351	2	174,384	2	159,376	2	144,367	2	129,359	2	114,351	2	99,339
1/4	1/4	1/4	1/4	1/4	203,977	1/4	189,039	1/4	174,072	1/4	159,063	1/4	144,055	1/4	129,046	1/4	114,038	1/4	99,026
1/2	1/2	1/2	1/2	1/2	203,667	1/2	188,727	1/2	173,759	1/2	158,750	1/2	143,742	1/2	128,734	1/2	113,725	1/2	98,713
3/4	3/4	3/4	3/4	3/4	203,357	3/4	188,416	3/4	173,446	3/4	158,438	3/4	143,429	3/4	128,421	3/4	113,413	3/4	98,401
3	3	3	3	3	203,047	3	188,104	3	173,134	3	158,125	3	143,117	3	128,108	3	113,100	3	98,088
1/4	1/4	1/4	1/4	1/4	202,738	1/4	187,792	1/4	172,821	1/4	157,812	1/4	142,804	1/4	127,796	1/4	112,787	1/4	97,775
1/2	1/2	1/2	1/2	1/2	202,428	1/2	187,480	1/2	172,508	1/2	157,500	1/2	142,491	1/2	127,483	1/2	112,475	1/2	97,462
3/4	3/4	3/4	3/4	3/4	202,118	3/4	187,168	3/4	172,196	3/4	157,187	3/4	142,179	3/4	127,170	3/4	112,162	3/4	97,149
4	4	4	4	4	201,809	4	186,857	4	171,883	4	156,874	4	141,866	4	126,858	4	111,849	4	96,837
1/4	1/4	1/4	1/4	1/4	201,499	1/4	186,545	1/4	171,570	1/4	156,562	1/4	141,553	1/4	126,545	1/4	111,537	1/4	96,524
1/2	1/2	1/2	1/2	1/2	201,189	1/2	186,233	1/2	171,258	1/2	156,249	1/2	141,241	1/2	126,232	1/2	111,224	1/2	96,211
3/4	3/4	3/4	3/4	3/4	200,880	3/4	185,921	3/4	170,945	3/4	155,936	3/4	140,928	3/4	125,920	3/4	110,911	3/4	95,898
5	5	5	5	5	200,570	5	185,610	5	170,632	5	155,624	5	140,615	5	125,607	5	110,599	5	95,585
1/4	1/4	1/4	1/4	1/4	200,260	1/4	185,298	1/4	170,320	1/4	155,311	1/4	140,303	1/4	125,294	1/4	110,286	1/4	95,273
1/2	1/2	1/2	1/2	1/2	199,949	1/2	184,986	1/2	170,007	1/2	154,998	1/2	139,990	1/2	124,982	1/2	109,973	1/2	94,960
3/4	3/4	3/4	3/4	3/4	199,638	3/4	184,674	3/4	169,694	3/4	154,686	3/4	139,677	3/4	124,669	3/4	109,661	3/4	94,647
6	6	6	6	6	199,327	6	184,363	6	169,381	6	154,373	6	139,365	6	124,356	6	109,348	6	94,334
1/4	1/4	1/4	1/4	1/4	199,016	1/4	184,051	1/4	169,069	1/4	154,060	1/4	139,052	1/4	124,044	1/4	109,035	1/4	94,021
1/2	1/2	1/2	1/2	1/2	198,704	1/2	183,739	1/2	168,756	1/2	153,748	1/2	138,739	1/2	123,731	1/2	108,723	1/2	93,709
3/4	3/4	3/4	3/4	3/4	198,392	3/4	183,427	3/4	168,443	3/4	153,435	3/4	138,427	3/4	123,418	3/4	108,410	3/4	93,396
7	7	7	7	7	198,080	7	183,116	7	168,131	7	153,122	7	138,114	7	123,106	7	108,097	7	93,083
1/4	1/4	211,521	1/4	197,768	1/4	182,804	1/4	167,818	1/4	152,810	1/4	137,801	1/4	122,793	1/4	107,785	1/4	92,770	
1/2	1/2	211,354	1/2	197,457	1/2	182,492	1/2	167,505	1/2	152,497	1/2	137,488	1/2	122,480	1/2	107,472	1/2	92,457	
3/4	3/4	211,188	3/4	197,145	3/4	182,180	3/4	167,193	3/4	152,184	3/4	137,176	3/4	122,168	3/4	107,159	3/4	92,145	
8	8	211,022	8	196,833	8	181,868	8	166,880	8	151,872	8	136,863	8	121,855	8	106,846	8	91,832	
1/4	1/4	210,855	1/4	196,521	1/4	181,557	1/4	166,567	1/4	151,559	1/4	136,550	1/4	121,542	1/4	106,534	1/4	91,519	
1/2	1/2	210,637	1/2	196,210	1/2	181,245	1/2	166,255	1/2	151,246	1/2	136,238	1/2	121,230	1/2	106,221	1/2	91,206	
3/4	3/4	210,418	3/4	195,898	3/4	180,933	3/4	165,942	3/4	150,934	3/4	135,925	3/4	120,917	3/4	105,908	3/4	90,893	
9	9	210,200	9	195,586	9	180,621	9	165,629	9	150,621	9	135,612	9	120,604	9	105,595	9	90,581	
1/4	1/4	209,981	1/4	195,274	1/4	180,310	1/4	165,317	1/4	150,308	1/4	135,300	1/4	120,292	1/4	105,282	1/4	90,268	
1/2	1/2	209,711	1/2	194,963	1/2	179,998	1/2	165,004	1/2	149,996	1/2	134,987	1/2	119,979	1/2	104,970	1/2	89,955	
3/4	3/4	209,440	3/4	194,651	3/4	179,686	3/4	164,691	3/4	149,683	3/4	134,674	3/4	119,666	3/4	104,657	3/4	89,642	
10	10	209,169	10	194,339	10	179,374	10	164,379	10	149,370	10	134,362	10	119,354	10	104,344	10	89,329	
1/4	1/4	208,899	1/4	194,027	1/4	179,063	1/4	164,066	1/4	149,058	1/4	134,049	1/4	119,041	1/4	104,031	1/4	89,016	
1/2	1/2	208,597	1/2	193,716	1/2	178,751	1/2	163,753	1/2	148,745	1/2	133,736	1/2	118,728	1/2	103,718	1/2	88,704	
3/4	3/4	208,295	3/4	193,404	3/4	178,439	3/4	163,441	3/4	148,432	3/4	133,424	3/4	118,416	3/4	103,406	3/4	88,391	
11	11	207,992	11	193,092	11	178,127	11	163,128	11	148,119	11	133,111	11	118,103	11	103,093	11	88,078	
1/4	1/4	207,690	1/4	192,780	1/4	177,816	1/4	162,815	1/4	147,807	1/4	132,798	1/4	117,790	1/4	102,780	1/4	87,765	
1/2	1/2	207,381	1/2	192,468	1/2	177,504	1/2	162,503	1/2	147,494	1/2	132,486	1/2	117,478	1/2	102,467	1/2	87,452	
3/4	3/4	207,072	3/4	192,157	3/4	177,192	3/4	162,190	3/4	147,181	3/4	132,173	3/4	117,165	3/4	102,154	3/4	87,140	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "HSM 4105"

## 1 STBD ULLAGE 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	86,827	0	71,812	0	56,801	0	41,790	0	26,776	0	11,985	0		0		0		0	
1/4	86,514	1/4	71,499	1/4	56,489	1/4	41,478	1/4	26,463	1/4	11,691	1/4		1/4		1/4		1/4	
1/2	86,201	1/2	71,187	1/2	56,176	1/2	41,165	1/2	26,151	1/2	11,401	1/2		1/2		1/2		1/2	
3/4	85,888	3/4	70,874	3/4	55,863	3/4	40,852	3/4	25,838	3/4	11,111	3/4		3/4		3/4		3/4	
1	85,576	1	70,561	1	55,551	1	40,539	1	25,525	1	10,821	1		1		1		1	
1/4	85,263	1/4	70,248	1/4	55,238	1/4	40,226	1/4	25,212	1/4	10,531	1/4		1/4		1/4		1/4	
1/2	84,950	1/2	69,935	1/2	54,926	1/2	39,914	1/2	24,899	1/2	10,245	1/2		1/2		1/2		1/2	
3/4	84,637	3/4	69,622	3/4	54,613	3/4	39,601	3/4	24,587	3/4	9,958	3/4		3/4		3/4		3/4	
2	84,324	2	69,310	2	54,300	2	39,288	2	24,274	2	9,672	2		2		2		2	
1/4	84,012	1/4	68,997	1/4	53,988	1/4	38,975	1/4	23,961	1/4	9,386	1/4		1/4		1/4		1/4	
1/2	83,699	1/2	68,684	1/2	53,675	1/2	38,662	1/2	23,648	1/2	9,103	1/2		1/2		1/2		1/2	
3/4	83,386	3/4	68,371	3/4	53,363	3/4	38,350	3/4	23,335	3/4	8,820	3/4		3/4		3/4		3/4	
3	83,073	3	68,058	3	53,050	3	38,037	3	23,023	3	8,537	3		3		3		3	
1/4	82,760	1/4	67,746	1/4	52,738	1/4	37,724	1/4	22,710	1/4	8,255	1/4		1/4		1/4		1/4	
1/2	82,448	1/2	67,433	1/2	52,425	1/2	37,411	1/2	22,397	1/2	7,976	1/2		1/2		1/2		1/2	
3/4	82,135	3/4	67,120	3/4	52,112	3/4	37,098	3/4	22,084	3/4	7,696	3/4		3/4		3/4		3/4	
4	81,822	4	66,807	4	51,800	4	36,786	4	21,771	4	7,417	4		4		4		4	
1/4	81,509	1/4	66,494	1/4	51,487	1/4	36,473	1/4	21,459	1/4	7,138	1/4		1/4		1/4		1/4	
1/2	81,196	1/2	66,182	1/2	51,174	1/2	36,160	1/2	21,146	1/2	6,863	1/2		1/2		1/2		1/2	
3/4	80,884	3/4	65,869	3/4	50,861	3/4	35,847	3/4	20,833	3/4	6,587	3/4		3/4		3/4		3/4	
5	80,571	5	65,556	5	50,549	5	35,534	5	20,520	5	6,312	5		5		5		5	
1/4	80,258	1/4	65,243	1/4	50,236	1/4	35,222	1/4	20,207	1/4	6,036	1/4		1/4		1/4		1/4	
1/2	79,945	1/2	64,930	1/2	49,923	1/2	34,909	1/2	19,895	1/2	5,765	1/2		1/2		1/2		1/2	
3/4	79,632	3/4	64,618	3/4	49,610	3/4	34,596	3/4	19,582	3/4	5,493	3/4		3/4		3/4		3/4	
6	79,319	6	64,305	6	49,297	6	34,283	6	19,269	6	5,221	6		6		6		6	
1/4	79,007	1/4	63,992	1/4	48,985	1/4	33,970	1/4	18,956	1/4	4,949	1/4		1/4		1/4		1/4	
1/2	78,694	1/2	63,679	1/2	48,672	1/2	33,658	1/2	18,645	1/2	4,681	1/2		1/2		1/2		1/2	
3/4	78,381	3/4	63,366	3/4	48,359	3/4	33,345	3/4	18,333	3/4	4,413	3/4		3/4		3/4		3/4	
7	78,068	7	63,054	7	48,046	7	33,032	7	18,022	7	4,145	7		7		7		7	
1/4	77,755	1/4	62,741	1/4	47,734	1/4	32,719	1/4	17,710	1/4	3,877	1/4		1/4		1/4		1/4	
1/2	77,443	1/2	62,428	1/2	47,421	1/2	32,406	1/2	17,402	1/2	3,612	1/2		1/2		1/2		1/2	
3/4	77,130	3/4	62,115	3/4	47,108	3/4	32,094	3/4	17,094	3/4	3,348	3/4		3/4		3/4		3/4	
8	76,817	8	61,803	8	46,795	8	31,781	8	16,786	8	3,084	8		8		8		8	
1/4	76,504	1/4	61,490	1/4	46,482	1/4	31,468	1/4	16,478	1/4	2,820	1/4		1/4		1/4		1/4	
1/2	76,191	1/2	61,177	1/2	46,170	1/2	31,155	1/2	16,173	1/2	2,560	1/2		1/2		1/2		1/2	
3/4	75,879	3/4	60,865	3/4	45,857	3/4	30,842	3/4	15,868	3/4	2,301	3/4		3/4		3/4		3/4	
9	75,566	9	60,552	9	45,544	9	30,530	9	15,564	9	2,041	9		9		9		9	
1/4	75,253	1/4	60,239	1/4	45,231	1/4	30,217	1/4	15,259	1/4	1,781	1/4		1/4		1/4		1/4	
1/2	74,940	1/2	59,927	1/2	44,918	1/2	29,904	1/2	14,958	1/2	1,554	1/2		1/2		1/2		1/2	
3/4	74,627	3/4	59,614	3/4	44,606	3/4	29,591	3/4	14,657	3/4	1,326	3/4		3/4		3/4		3/4	
10	74,315	10	59,302	10	44,293	10	29,278	10	14,356	10	1,099	10		10		10		10	
1/4	74,002	1/4	58,989	1/4	43,980	1/4	28,966	1/4	14,055	1/4	871	1/4		1/4		1/4		1/4	
1/2	73,689	1/2	58,677	1/2	43,667	1/2	28,653	1/2	13,758	1/2	716	1/2		1/2		1/2		1/2	
3/4	73,376	3/4	58,364	3/4	43,354	3/4	28,340	3/4	13,461	3/4	560	3/4		3/4		3/4		3/4	
11	73,063	11	58,051	11	43,042	11	28,027	11	13,163	11	404	11		11		11		11	
1/4	72,751	1/4	57,739	1/4	42,729	1/4	27,715	1/4	12,866	1/4	248	1/4		1/4		1/4		1/4	
1/2	72,438	1/2	57,426	1/2	42,416	1/2	27,402	1/2	12,572	1/2		1/2		1/2		1/2		1/2	
3/4	72,125	3/4	57,114	3/4	42,103	3/4	27,089	3/4	12,279	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 ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	209,825	0	194,885	0	179,874	0	164,819	0	149,757	0	134,695	0	119,633	0	104,568	
1/4	1/4	1/4	1/4	209,516	1/4	194,572	1/4	179,561	1/4	164,505	1/4	149,443	1/4	134,381	1/4	119,319	1/4	104,254	
1/2	1/2	1/2	1/2	209,207	1/2	194,259	1/2	179,248	1/2	164,192	1/2	149,130	1/2	134,067	1/2	119,005	1/2	103,940	
3/4	3/4	3/4	3/4	208,897	3/4	193,947	3/4	178,936	3/4	163,878	3/4	148,816	3/4	133,754	3/4	118,691	3/4	103,626	
1	1	1	1	208,587	1	193,634	1	178,623	1	163,564	1	148,502	1	133,440	1	118,378	1	103,312	
1/4	1/4	1/4	1/4	208,278	1/4	193,321	1/4	178,310	1/4	163,250	1/4	148,188	1/4	133,126	1/4	118,064	1/4	102,998	
1/2	1/2	1/2	1/2	207,968	1/2	193,008	1/2	177,998	1/2	162,936	1/2	147,874	1/2	132,812	1/2	117,750	1/2	102,684	
3/4	3/4	3/4	3/4	207,658	3/4	192,696	3/4	177,684	3/4	162,623	3/4	147,561	3/4	132,498	3/4	117,436	3/4	102,370	
2	2	2	2	207,349	2	192,383	2	177,370	2	162,309	2	147,247	2	132,185	2	117,123	2	102,056	
1/4	1/4	1/4	1/4	207,039	1/4	192,070	1/4	177,057	1/4	161,995	1/4	146,933	1/4	131,871	1/4	116,809	1/4	101,742	
1/2	1/2	1/2	1/2	206,729	1/2	191,758	1/2	176,743	1/2	161,681	1/2	146,619	1/2	131,557	1/2	116,495	1/2	101,429	
3/4	3/4	3/4	3/4	206,419	3/4	191,445	3/4	176,430	3/4	161,368	3/4	146,305	3/4	131,243	3/4	116,181	3/4	101,115	
3	3	3	3	206,109	3	191,132	3	176,116	3	161,054	3	145,992	3	130,929	3	115,867	3	100,801	
1/4	1/4	1/4	1/4	205,800	1/4	190,819	1/4	175,802	1/4	160,740	1/4	145,678	1/4	130,616	1/4	115,554	1/4	100,487	
1/2	1/2	1/2	1/2	205,490	1/2	190,507	1/2	175,488	1/2	160,426	1/2	145,364	1/2	130,302	1/2	115,240	1/2	100,173	
3/4	3/4	3/4	3/4	205,180	3/4	190,194	3/4	175,174	3/4	160,112	3/4	145,050	3/4	129,988	3/4	114,926	3/4	99,859	
4	4	4	4	204,871	4	189,881	4	174,861	4	159,799	4	144,736	4	129,674	4	114,612	4	99,545	
1/4	1/4	1/4	1/4	204,561	1/4	189,568	1/4	174,547	1/4	159,485	1/4	144,423	1/4	129,360	1/4	114,298	1/4	99,231	
1/2	1/2	1/2	1/2	204,251	1/2	189,256	1/2	174,233	1/2	159,171	1/2	144,109	1/2	129,047	1/2	113,985	1/2	98,917	
3/4	3/4	3/4	3/4	203,942	3/4	188,943	3/4	173,919	3/4	158,857	3/4	143,795	3/4	128,733	3/4	113,671	3/4	98,603	
5	5	5	5	203,632	5	188,630	5	173,605	5	158,543	5	143,481	5	128,419	5	113,357	5	98,289	
1/4	1/4	1/4	1/4	203,322	1/4	188,318	1/4	173,292	1/4	158,230	1/4	143,167	1/4	128,105	1/4	113,043	1/4	97,975	
1/2	1/2	1/2	1/2	203,013	1/2	188,005	1/2	172,978	1/2	157,916	1/2	142,854	1/2	127,792	1/2	112,729	1/2	97,661	
3/4	3/4	3/4	3/4	202,701	3/4	187,692	3/4	172,664	3/4	157,602	3/4	142,540	3/4	127,478	3/4	112,416	3/4	97,347	
6	6	6	6	202,389	6	187,379	6	172,350	6	157,288	6	142,226	6	127,164	6	112,102	6	97,033	
1/4	1/4	1/4	1/4	202,077	1/4	187,067	1/4	172,037	1/4	156,974	1/4	141,912	1/4	126,850	1/4	111,788	1/4	96,719	
1/2	1/2	1/2	1/2	201,765	1/2	186,754	1/2	171,723	1/2	156,661	1/2	141,598	1/2	126,536	1/2	111,474	1/2	96,405	
3/4	3/4	3/4	3/4	201,452	3/4	186,441	3/4	171,409	3/4	156,347	3/4	141,285	3/4	126,223	3/4	111,160	3/4	96,091	
7	7	7	7	201,139	7	186,128	7	171,095	7	156,033	7	140,971	7	125,909	7	110,847	7	95,777	
1/4	1/4	1/4	1/4	200,827	1/4	185,816	1/4	170,781	1/4	155,719	1/4	140,657	1/4	125,595	1/4	110,533	1/4	95,463	
1/2	1/2	214,270	1/2	200,514	1/2	185,503	1/2	170,468	1/2	155,405	1/2	140,343	1/2	125,281	1/2	110,219	1/2	95,149	
3/4	3/4	214,104	3/4	200,201	3/4	185,190	3/4	170,154	3/4	155,092	3/4	140,029	3/4	124,967	3/4	109,905	3/4	94,836	
8	8	213,938	8	199,889	8	184,878	8	169,840	8	154,778	8	139,716	8	124,654	8	109,591	8	94,522	
1/4	1/4	213,772	1/4	199,576	1/4	184,565	1/4	169,526	1/4	154,464	1/4	139,402	1/4	124,340	1/4	109,277	1/4	94,208	
1/2	1/2	213,606	1/2	199,263	1/2	184,252	1/2	169,212	1/2	154,150	1/2	139,088	1/2	124,026	1/2	108,963	1/2	93,894	
3/4	3/4	213,388	3/4	198,950	3/4	183,939	3/4	168,899	3/4	153,836	3/4	138,774	3/4	123,712	3/4	108,649	3/4	93,580	
9	9	213,170	9	198,638	9	183,627	9	168,585	9	153,523	9	138,461	9	123,398	9	108,335	9	93,266	
1/4	1/4	212,952	1/4	198,325	1/4	183,314	1/4	168,271	1/4	153,209	1/4	138,147	1/4	123,085	1/4	108,022	1/4	92,952	
1/2	1/2	212,733	1/2	198,012	1/2	183,001	1/2	167,957	1/2	152,895	1/2	137,833	1/2	122,771	1/2	107,708	1/2	92,638	
3/4	3/4	212,463	3/4	197,699	3/4	182,688	3/4	167,643	3/4	152,581	3/4	137,519	3/4	122,457	3/4	107,394	3/4	92,324	
10	10	212,192	10	197,387	10	182,376	10	167,330	10	152,267	10	137,205	10	122,143	10	107,080	10	92,010	
1/4	1/4	211,922	1/4	197,074	1/4	182,063	1/4	167,016	1/4	151,954	1/4	136,892	1/4	121,829	1/4	106,766	1/4	91,696	
1/2	1/2	211,651	1/2	196,761	1/2	181,750	1/2	166,702	1/2	151,640	1/2	136,578	1/2	121,516	1/2	106,452	1/2	91,382	
3/4	3/4	211,349	3/4	196,449	3/4	181,438	3/4	166,388	3/4	151,326	3/4	136,264	3/4	121,202	3/4	106,138	3/4	91,068	
11	11	211,047	11	196,136	11	181,125	11	166,074	11	151,012	11	135,950	11	120,888	11	105,824	11	90,754	
1/4	1/4	210,745	1/4	195,823	1/4	180,812	1/4	165,761	1/4	150,698	1/4	135,636	1/4	120,574	1/4	105,510	1/4	90,440	
1/2	1/2	210,443	1/2	195,510	1/2	180,499	1/2	165,447	1/2	150,385	1/2	135,323	1/2	120,260	1/2	105,196	1/2	90,126	
3/4	3/4	210,134	3/4	195,198	3/4	180,187	3/4	165,133	3/4	150,071	3/4	135,009	3/4	119,947	3/4	104,882	3/4	89,812	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP 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 PORT ULLAGE 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	89,498	0	74,429	0	59,359	0	44,602	0	29,826	0	14,758	0		0		0		0	
1/4	89,184	1/4	74,115	1/4	59,045	1/4	44,299	1/4	29,512	1/4	14,445	1/4		1/4		1/4		1/4	
1/2	88,870	1/2	73,801	1/2	58,731	1/2	43,997	1/2	29,198	1/2	14,131	1/2		1/2		1/2		1/2	
3/4	88,557	3/4	73,487	3/4	58,417	3/4	43,694	3/4	28,884	3/4	13,817	3/4		3/4		3/4		3/4	
1	88,243	1	73,173	1	58,103	1	43,391	1	28,571	1	13,503	1		1		1		1	
1/4	87,929	1/4	72,859	1/4	57,789	1/4	43,088	1/4	28,257	1/4	13,189	1/4		1/4		1/4		1/4	
1/2	87,615	1/2	72,545	1/2	57,475	1/2	42,785	1/2	27,943	1/2	12,875	1/2		1/2		1/2		1/2	
3/4	87,301	3/4	72,231	3/4	57,161	3/4	42,482	3/4	27,629	3/4	12,561	3/4		3/4		3/4		3/4	
2	86,987	2	71,917	2	56,847	2	42,180	2	27,316	2	12,247	2		2		2		2	
1/4	86,673	1/4	71,603	1/4	56,533	1/4	41,877	1/4	27,002	1/4	11,933	1/4		1/4		1/4		1/4	
1/2	86,359	1/2	71,289	1/2	56,219	1/2	41,574	1/2	26,688	1/2	11,619	1/2		1/2		1/2		1/2	
3/4	86,045	3/4	70,975	3/4	55,906	3/4	41,271	3/4	26,374	3/4	11,305	3/4		3/4		3/4		3/4	
3	85,731	3	70,661	3	55,592	3	40,968	3	26,060	3	10,991	3		3		3		3	
1/4	85,417	1/4	70,347	1/4	55,278	1/4	40,665	1/4	25,746	1/4	10,677	1/4		1/4		1/4		1/4	
1/2	85,103	1/2	70,033	1/2	54,964	1/2	40,363	1/2	25,433	1/2	10,363	1/2		1/2		1/2		1/2	
3/4	84,789	3/4	69,719	3/4	54,650	3/4	40,060	3/4	25,119	3/4	10,049	3/4		3/4		3/4		3/4	
4	84,475	4	69,405	4	54,336	4	39,757	4	24,805	4	9,735	4		4		4		4	
1/4	84,161	1/4	69,091	1/4	54,022	1/4	39,454	1/4	24,491	1/4	9,421	1/4		1/4		1/4		1/4	
1/2	83,847	1/2	68,778	1/2	53,708	1/2	39,151	1/2	24,177	1/2	9,108	1/2		1/2		1/2		1/2	
3/4	83,533	3/4	68,464	3/4	53,402	3/4	38,848	3/4	23,863	3/4	8,794	3/4		3/4		3/4		3/4	
5	83,219	5	68,150	5	53,095	5	38,544	5	23,549	5	8,480	5		5		5		5	
1/4	82,905	1/4	67,836	1/4	52,789	1/4	38,241	1/4	23,235	1/4	8,166	1/4		1/4		1/4		1/4	
1/2	82,591	1/2	67,522	1/2	52,483	1/2	37,937	1/2	22,921	1/2	7,852	1/2		1/2		1/2		1/2	
3/4	82,277	3/4	67,208	3/4	52,179	3/4	37,633	3/4	22,607	3/4	7,538	3/4		3/4		3/4		3/4	
6	81,964	6	66,894	6	51,875	6	37,329	6	22,293	6	7,224	6		6		6		6	
1/4	81,650	1/4	66,580	1/4	51,571	1/4	37,026	1/4	21,979	1/4	6,910	1/4		1/4		1/4		1/4	
1/2	81,336	1/2	66,266	1/2	51,267	1/2	36,722	1/2	21,665	1/2	6,596	1/2		1/2		1/2		1/2	
3/4	81,022	3/4	65,952	3/4	50,964	3/4	36,411	3/4	21,351	3/4	6,282	3/4		3/4		3/4		3/4	
7	80,708	7	65,638	7	50,661	7	36,099	7	21,037	7	5,968	7		7		7		7	
1/4	80,394	1/4	65,324	1/4	50,358	1/4	35,788	1/4	20,723	1/4	5,654	1/4		1/4		1/4		1/4	
1/2	80,080	1/2	65,010	1/2	50,054	1/2	35,476	1/2	20,409	1/2	5,340	1/2		1/2		1/2		1/2	
3/4	79,766	3/4	64,696	3/4	49,751	3/4	35,162	3/4	20,095	3/4	5,027	3/4		3/4		3/4		3/4	
8	79,452	8	64,382	8	49,448	8	34,848	8	19,782	8	4,713	8		8		8		8	
1/4	79,138	1/4	64,068	1/4	49,145	1/4	34,535	1/4	19,468	1/4	4,400	1/4		1/4		1/4		1/4	
1/2	78,824	1/2	63,754	1/2	48,842	1/2	34,221	1/2	19,154	1/2	4,086	1/2		1/2		1/2		1/2	
3/4	78,510	3/4	63,440	3/4	48,539	3/4	33,907	3/4	18,840	3/4	3,773	3/4		3/4		3/4		3/4	
9	78,196	9	63,126	9	48,236	9	33,593	9	18,526	9	3,461	9		9		9		9	
1/4	77,882	1/4	62,812	1/4	47,934	1/4	33,279	1/4	18,212	1/4	3,148	1/4		1/4		1/4		1/4	
1/2	77,568	1/2	62,499	1/2	47,631	1/2	32,965	1/2	17,898	1/2	2,835	1/2		1/2		1/2		1/2	
3/4	77,254	3/4	62,185	3/4	47,328	3/4	32,651	3/4	17,584	3/4	2,551	3/4		3/4		3/4		3/4	
10	76,940	10	61,871	10	47,025	10	32,337	10	17,270	10	2,267	10		10		10		10	
1/4	76,626	1/4	61,557	1/4	46,722	1/4	32,023	1/4	16,956	1/4	1,983	1/4		1/4		1/4		1/4	
1/2	76,312	1/2	61,243	1/2	46,419	1/2	31,709	1/2	16,642	1/2	1,699	1/2		1/2		1/2		1/2	
3/4	75,998	3/4	60,929	3/4	46,116	3/4	31,395	3/4	16,328	3/4	1,483	3/4		3/4		3/4		3/4	
11	75,684	11	60,615	11	45,814	11	31,081	11	16,014	11	1,267	11		11		11		11	
1/4	75,371	1/4	60,301	1/4	45,511	1/4	30,767	1/4	15,700	1/4	1,051	1/4		1/4		1/4		1/4	
1/2	75,057	1/2	59,987	1/2	45,208	1/2	30,453	1/2	15,386	1/2	836	1/2		1/2		1/2		1/2	
3/4	74,743	3/4	59,673	3/4	44,905	3/4	30,139	3/4	15,072	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 STBD ULLAGE 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		0		0	210,918	0	195,967	0	180,941	0	165,872	0	150,794	0	135,717	0	120,640	0	105,560
1/4		1/4		1/4	210,609	1/4	195,654	1/4	180,628	1/4	165,558	1/4	150,480	1/4	135,403	1/4	120,326	1/4	105,246
1/2		1/2		1/2	210,299	1/2	195,341	1/2	180,315	1/2	165,244	1/2	150,166	1/2	135,089	1/2	120,012	1/2	104,931
3/4		3/4		3/4	209,990	3/4	195,028	3/4	180,002	3/4	164,930	3/4	149,852	3/4	134,775	3/4	119,697	3/4	104,617
1		1		1	209,680	1	194,715	1	179,688	1	164,615	1	149,538	1	134,461	1	119,383	1	104,303
1/4		1/4		1/4	209,370	1/4	194,402	1/4	179,375	1/4	164,301	1/4	149,224	1/4	134,147	1/4	119,069	1/4	103,989
1/2		1/2		1/2	209,060	1/2	194,088	1/2	179,062	1/2	163,987	1/2	148,910	1/2	133,832	1/2	118,755	1/2	103,674
3/4		3/4		3/4	208,750	3/4	193,775	3/4	178,749	3/4	163,673	3/4	148,596	3/4	133,518	3/4	118,441	3/4	103,360
2		2		2	208,440	2	193,462	2	178,435	2	163,359	2	148,282	2	133,204	2	118,127	2	103,046
1/4		1/4		1/4	208,130	1/4	193,149	1/4	178,122	1/4	163,045	1/4	147,967	1/4	132,890	1/4	117,813	1/4	102,732
1/2		1/2		1/2	207,820	1/2	192,836	1/2	177,808	1/2	162,731	1/2	147,653	1/2	132,576	1/2	117,499	1/2	102,417
3/4		3/4		3/4	207,510	3/4	192,523	3/4	177,494	3/4	162,417	3/4	147,339	3/4	132,262	3/4	117,185	3/4	102,103
3		3		3	207,200	3	192,210	3	177,180	3	162,103	3	147,025	3	131,948	3	116,870	3	101,789
1/4		1/4		1/4	206,890	1/4	191,897	1/4	176,866	1/4	161,788	1/4	146,711	1/4	131,634	1/4	116,556	1/4	101,474
1/2		1/2		1/2	206,580	1/2	191,584	1/2	176,552	1/2	161,474	1/2	146,397	1/2	131,320	1/2	116,242	1/2	101,160
3/4		3/4		3/4	206,269	3/4	191,271	3/4	176,238	3/4	161,160	3/4	146,083	3/4	131,005	3/4	115,928	3/4	100,846
4		4		4	205,959	4	190,958	4	175,923	4	160,846	4	145,769	4	130,691	4	115,614	4	100,532
1/4		1/4		1/4	205,649	1/4	190,645	1/4	175,609	1/4	160,532	1/4	145,455	1/4	130,377	1/4	115,300	1/4	100,217
1/2		1/2		1/2	205,339	1/2	190,332	1/2	175,295	1/2	160,218	1/2	145,140	1/2	130,063	1/2	114,986	1/2	99,903
3/4		3/4		3/4	205,030	3/4	190,019	3/4	174,981	3/4	159,904	3/4	144,826	3/4	129,749	3/4	114,672	3/4	99,589
5		5		5	204,720	5	189,706	5	174,667	5	159,590	5	144,512	5	129,435	5	114,358	5	99,275
1/4		1/4		1/4	204,410	1/4	189,393	1/4	174,353	1/4	159,275	1/4	144,198	1/4	129,121	1/4	114,043	1/4	98,960
1/2		1/2		1/2	204,100	1/2	189,080	1/2	174,039	1/2	158,961	1/2	143,884	1/2	128,807	1/2	113,729	1/2	98,646
3/4		3/4		3/4	203,790	3/4	188,767	3/4	173,725	3/4	158,647	3/4	143,570	3/4	128,493	3/4	113,415	3/4	98,332
6		6		6	203,477	6	188,454	6	173,411	6	158,333	6	143,256	6	128,178	6	113,101	6	98,017
1/4		1/4		1/4	203,165	1/4	188,141	1/4	173,096	1/4	158,019	1/4	142,942	1/4	127,864	1/4	112,787	1/4	97,703
1/2		1/2		1/2	202,853	1/2	187,828	1/2	172,782	1/2	157,705	1/2	142,628	1/2	127,550	1/2	112,473	1/2	97,389
3/4		3/4		3/4	202,541	3/4	187,515	3/4	172,468	3/4	157,391	3/4	142,313	3/4	127,236	3/4	112,159	3/4	97,075
7		7		7	202,228	7	187,202	7	172,154	7	157,077	7	141,999	7	126,922	7	111,845	7	96,760
1/4		1/4		1/4	201,915	1/4	186,888	1/4	171,840	1/4	156,763	1/4	141,685	1/4	126,608	1/4	111,531	1/4	96,446
1/2		1/2		1/2	201,602	1/2	186,575	1/2	171,526	1/2	156,448	1/2	141,371	1/2	126,294	1/2	111,216	1/2	96,132
3/4		3/4		3/4	215,058	3/4	201,289	3/4	186,262	3/4	171,212	3/4	156,134	3/4	141,057	3/4	125,980	3/4	95,818
8		8		8	214,892	8	200,975	8	185,949	8	170,898	8	155,820	8	140,743	8	125,666	8	110,588
1/4		1/4		1/4	214,726	1/4	200,662	1/4	185,636	1/4	170,584	1/4	155,506	1/4	140,429	1/4	125,351	1/4	110,274
1/2		1/2		1/2	214,560	1/2	200,349	1/2	185,323	1/2	170,269	1/2	155,192	1/2	140,115	1/2	125,037	1/2	109,960
3/4		3/4		3/4	214,394	3/4	200,036	3/4	185,010	3/4	169,955	3/4	154,878	3/4	139,801	3/4	124,723	3/4	109,645
9		9		9	214,176	9	199,723	9	184,697	9	169,641	9	154,564	9	139,486	9	124,409	9	99,331
1/4		1/4		1/4	213,957	1/4	199,410	1/4	184,384	1/4	169,327	1/4	154,250	1/4	139,172	1/4	124,095	1/4	99,017
1/2		1/2		1/2	213,739	1/2	199,097	1/2	184,071	1/2	169,013	1/2	153,936	1/2	138,858	1/2	123,781	1/2	98,703
3/4		3/4		3/4	213,520	3/4	198,784	3/4	183,758	3/4	168,699	3/4	153,621	3/4	138,544	3/4	123,467	3/4	98,389
10		10		10	213,249	10	198,471	10	183,445	10	168,385	10	153,307	10	138,230	10	123,153	10	98,074
1/4		1/4		1/4	212,979	1/4	198,158	1/4	183,132	1/4	168,071	1/4	152,993	1/4	137,916	1/4	122,839	1/4	97,760
1/2		1/2		1/2	212,708	1/2	197,845	1/2	182,819	1/2	167,757	1/2	152,679	1/2	137,602	1/2	122,524	1/2	97,446
3/4		3/4		3/4	212,437	3/4	197,532	3/4	182,506	3/4	167,442	3/4	152,365	3/4	137,288	3/4	122,210	3/4	97,131
11		11		11	212,135	11	197,219	11	182,193	11	167,128	11	152,051	11	136,974	11	121,896	11	96,817
1/4		1/4		1/4	211,832	1/4	196,906	1/4	181,880	1/4	166,814	1/4	151,737	1/4	136,659	1/4	121,582	1/4	96,503
1/2		1/2		1/2	211,530	1/2	196,593	1/2	181,567	1/2	166,500	1/2	151,423	1/2	136,345	1/2	121,268	1/2	96,188
3/4		3/4		3/4	211,228	3/4	196,280	3/4	181,254	3/4	166,186	3/4	151,109	3/4	136,031	3/4	120,954	3/4	95,874

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP 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 ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	90,475	0	75,390	0	60,305	0	45,237	0	30,171	0	15,088	0		0		0		0	
1/4	90,161	1/4	75,076	1/4	59,991	1/4	44,924	1/4	29,857	1/4	14,774	1/4		1/4		1/4		1/4	
1/2	89,846	1/2	74,762	1/2	59,677	1/2	44,610	1/2	29,543	1/2	14,460	1/2		1/2		1/2		1/2	
3/4	89,532	3/4	74,447	3/4	59,362	3/4	44,297	3/4	29,228	3/4	14,145	3/4		3/4		3/4		3/4	
1	89,218	1	74,133	1	59,048	1	43,984	1	28,914	1	13,831	1		1		1		1	
1/4	88,904	1/4	73,819	1/4	58,734	1/4	43,670	1/4	28,600	1/4	13,517	1/4		1/4		1/4		1/4	
1/2	88,589	1/2	73,504	1/2	58,420	1/2	43,357	1/2	28,286	1/2	13,203	1/2		1/2		1/2		1/2	
3/4	88,275	3/4	73,190	3/4	58,105	3/4	43,044	3/4	27,972	3/4	12,888	3/4		3/4		3/4		3/4	
2	87,961	2	72,876	2	57,791	2	42,730	2	27,658	2	12,574	2		2		2		2	
1/4	87,647	1/4	72,562	1/4	57,477	1/4	42,417	1/4	27,344	1/4	12,260	1/4		1/4		1/4		1/4	
1/2	87,332	1/2	72,247	1/2	57,162	1/2	42,104	1/2	27,030	1/2	11,946	1/2		1/2		1/2		1/2	
3/4	87,018	3/4	71,933	3/4	56,848	3/4	41,790	3/4	26,716	3/4	11,631	3/4		3/4		3/4		3/4	
3	86,704	3	71,619	3	56,534	3	41,477	3	26,402	3	11,317	3		3		3		3	
1/4	86,390	1/4	71,305	1/4	56,220	1/4	41,164	1/4	26,088	1/4	11,003	1/4		1/4		1/4		1/4	
1/2	86,075	1/2	70,990	1/2	55,905	1/2	40,850	1/2	25,773	1/2	10,688	1/2		1/2		1/2		1/2	
3/4	85,761	3/4	70,676	3/4	55,591	3/4	40,537	3/4	25,459	3/4	10,374	3/4		3/4		3/4		3/4	
4	85,447	4	70,362	4	55,277	4	40,224	4	25,145	4	10,060	4		4		4		4	
1/4	85,132	1/4	70,047	1/4	54,963	1/4	39,910	1/4	24,831	1/4	9,746	1/4		1/4		1/4		1/4	
1/2	84,818	1/2	69,733	1/2	54,648	1/2	39,597	1/2	24,516	1/2	9,431	1/2		1/2		1/2		1/2	
3/4	84,504	3/4	69,419	3/4	54,334	3/4	39,284	3/4	24,202	3/4	9,117	3/4		3/4		3/4		3/4	
5	84,190	5	69,105	5	54,020	5	38,970	5	23,888	5	8,803	5		5		5		5	
1/4	83,875	1/4	68,790	1/4	53,705	1/4	38,656	1/4	23,573	1/4	8,489	1/4		1/4		1/4		1/4	
1/2	83,561	1/2	68,476	1/2	53,391	1/2	38,342	1/2	23,259	1/2	8,174	1/2		1/2		1/2		1/2	
3/4	83,247	3/4	68,162	3/4	53,077	3/4	38,028	3/4	22,945	3/4	7,860	3/4		3/4		3/4		3/4	
6	82,933	6	67,848	6	52,763	6	37,713	6	22,631	6	7,546	6		6		6		6	
1/4	82,618	1/4	67,533	1/4	52,448	1/4	37,399	1/4	22,316	1/4	7,232	1/4		1/4		1/4		1/4	
1/2	82,304	1/2	67,219	1/2	52,134	1/2	37,085	1/2	22,002	1/2	6,917	1/2		1/2		1/2		1/2	
3/4	81,990	3/4	66,905	3/4	51,820	3/4	36,770	3/4	21,688	3/4	6,603	3/4		3/4		3/4		3/4	
7	81,675	7	66,591	7	51,506	7	36,456	7	21,374	7	6,289	7		7		7		7	
1/4	81,361	1/4	66,276	1/4	51,192	1/4	36,142	1/4	21,059	1/4	5,975	1/4		1/4		1/4		1/4	
1/2	81,047	1/2	65,962	1/2	50,879	1/2	35,828	1/2	20,745	1/2	5,660	1/2		1/2		1/2		1/2	
3/4	80,733	3/4	65,648	3/4	50,565	3/4	35,513	3/4	20,431	3/4	5,346	3/4		3/4		3/4		3/4	
8	80,418	8	65,333	8	50,251	8	35,199	8	20,117	8	5,032	8		8		8		8	
1/4	80,104	1/4	65,019	1/4	49,938	1/4	34,885	1/4	19,802	1/4	4,718	1/4		1/4		1/4		1/4	
1/2	79,790	1/2	64,705	1/2	49,624	1/2	34,571	1/2	19,488	1/2	4,404	1/2		1/2		1/2		1/2	
3/4	79,476	3/4	64,391	3/4	49,311	3/4	34,256	3/4	19,174	3/4	4,090	3/4		3/4		3/4		3/4	
9	79,161	9	64,076	9	48,997	9	33,942	9	18,859	9	3,777	9		9		9		9	
1/4	78,847	1/4	63,762	1/4	48,684	1/4	33,628	1/4	18,545	1/4	3,464	1/4		1/4		1/4		1/4	
1/2	78,533	1/2	63,448	1/2	48,371	1/2	33,313	1/2	18,231	1/2	3,151	1/2		1/2		1/2		1/2	
3/4	78,218	3/4	63,134	3/4	48,057	3/4	32,999	3/4	17,917	3/4	2,838	3/4		3/4		3/4		3/4	
10	77,904	10	62,819	10	47,744	10	32,685	10	17,602	10	2,554	10		10		10		10	
1/4	77,590	1/4	62,505	1/4	47,430	1/4	32,371	1/4	17,288	1/4	2,270	1/4		1/4		1/4		1/4	
1/2	77,276	1/2	62,191	1/2	47,117	1/2	32,056	1/2	16,974	1/2	1,985	1/2		1/2		1/2		1/2	
3/4	76,961	3/4	61,876	3/4	46,804	3/4	31,742	3/4	16,660	3/4	1,701	3/4		3/4		3/4		3/4	
11	76,647	11	61,562	11	46,490	11	31,428	11	16,345	11	1,485	11		11		11		11	
1/4	76,333	1/4	61,248	1/4	46,177	1/4	31,114	1/4	16,031	1/4	1,269	1/4		1/4		1/4		1/4	
1/2	76,019	1/2	60,934	1/2	45,864	1/2	30,799	1/2	15,717	1/2	1,053	1/2		1/2		1/2		1/2	
3/4	75,704	3/4	60,619	3/4	45,550	3/4	30,485	3/4	15,403	3/4	837	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 ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	192,571	0	181,300	0	170,113	0	158,893	0	147,675	0	133,395	0	118,440	0	103,480	
1/4	1/4	1/4	1/4	192,333	1/4	181,067	1/4	169,880	1/4	158,659	1/4	147,442	1/4	133,084	1/4	118,128	1/4	103,168	
1/2	1/2	1/2	1/2	192,094	1/2	180,834	1/2	169,646	1/2	158,425	1/2	147,210	1/2	132,772	1/2	117,817	1/2	102,856	
3/4	3/4	3/4	3/4	191,855	3/4	180,601	3/4	169,413	3/4	158,192	3/4	146,977	3/4	132,461	3/4	117,505	3/4	102,544	
1	1	1	1	191,616	1	180,368	1	169,180	1	157,958	1	146,744	1	132,149	1	117,194	1	102,232	
1/4	1/4	1/4	1/4	191,377	1/4	180,135	1/4	168,947	1/4	157,724	1/4	146,511	1/4	131,837	1/4	116,882	1/4	101,920	
1/2	1/2	1/2	1/2	191,138	1/2	179,902	1/2	168,714	1/2	157,490	1/2	146,225	1/2	131,526	1/2	116,570	1/2	101,608	
3/4	3/4	3/4	3/4	190,899	3/4	179,669	3/4	168,480	3/4	157,256	3/4	145,938	3/4	131,214	3/4	116,259	3/4	101,296	
2	2	2	2	190,660	2	179,436	2	168,246	2	157,022	2	145,651	2	130,903	2	115,947	2	100,984	
1/4	1/4	1/4	1/4	190,421	1/4	179,203	1/4	168,013	1/4	156,789	1/4	145,364	1/4	130,591	1/4	115,636	1/4	100,672	
1/2	1/2	1/2	1/2	190,181	1/2	178,969	1/2	167,779	1/2	156,555	1/2	145,060	1/2	130,280	1/2	115,324	1/2	100,360	
3/4	3/4	3/4	3/4	189,942	3/4	178,736	3/4	167,545	3/4	156,321	3/4	144,755	3/4	129,968	3/4	115,013	3/4	100,048	
3	3	3	3	189,703	3	178,503	3	167,311	3	156,087	3	144,451	3	129,656	3	114,701	3	99,736	
1/4	1/4	1/4	1/4	189,464	1/4	178,270	1/4	167,077	1/4	155,853	1/4	144,146	1/4	129,345	1/4	114,390	1/4	99,424	
1/2	1/2	1/2	1/2	189,229	1/2	178,037	1/2	166,844	1/2	155,619	1/2	143,841	1/2	129,033	1/2	114,078	1/2	99,112	
3/4	3/4	3/4	3/4	188,995	3/4	177,804	3/4	166,610	3/4	155,386	3/4	143,537	3/4	128,722	3/4	113,766	3/4	98,800	
4	4	4	4	188,760	4	177,571	4	166,376	4	155,152	4	143,232	4	128,410	4	113,455	4	98,488	
1/4	1/4	1/4	1/4	188,525	1/4	177,338	1/4	166,142	1/4	154,918	1/4	142,927	1/4	128,099	1/4	113,143	1/4	98,176	
1/2	1/2	1/2	1/2	188,292	1/2	177,105	1/2	165,908	1/2	154,684	1/2	142,622	1/2	127,787	1/2	112,832	1/2	97,864	
3/4	3/4	3/4	3/4	188,059	3/4	176,872	3/4	165,674	3/4	154,450	3/4	142,317	3/4	127,475	3/4	112,520	3/4	97,552	
5	5	5	5	187,826	5	176,639	5	165,441	5	154,216	5	142,011	5	127,164	5	112,209	5	97,240	
1/4	1/4	1/4	1/4	187,593	1/4	176,406	1/4	165,207	1/4	153,983	1/4	141,706	1/4	126,852	1/4	111,897	1/4	96,929	
1/2	1/2	1/2	1/2	187,360	1/2	176,173	1/2	164,973	1/2	153,749	1/2	141,400	1/2	126,541	1/2	111,585	1/2	96,617	
3/4	3/4	3/4	3/4	187,127	3/4	175,939	3/4	164,739	3/4	153,515	3/4	141,095	3/4	126,229	3/4	111,274	3/4	96,305	
6	6	6	6	186,894	6	175,706	6	164,505	6	153,281	6	140,789	6	125,918	6	110,962	6	95,993	
1/4	1/4	1/4	1/4	186,661	1/4	175,473	1/4	164,271	1/4	153,047	1/4	140,484	1/4	125,606	1/4	110,651	1/4	95,682	
1/2	1/2	1/2	1/2	186,428	1/2	175,240	1/2	164,038	1/2	152,813	1/2	140,178	1/2	125,294	1/2	110,339	1/2	95,370	
3/4	3/4	3/4	3/4	186,195	3/4	175,007	3/4	163,804	3/4	152,580	3/4	139,872	3/4	124,983	3/4	110,028	3/4	95,058	
7	7	7	7	185,962	7	174,774	7	163,570	7	152,346	7	139,567	7	124,671	7	109,716	7	94,746	
1/4	1/4	195,961	1/4	185,729	1/4	174,541	1/4	163,336	1/4	152,112	1/4	139,261	1/4	124,360	1/4	109,404	1/4	94,435	
1/2	1/2	195,866	1/2	185,496	1/2	174,308	1/2	163,102	1/2	151,878	1/2	138,956	1/2	124,048	1/2	109,093	1/2	94,123	
3/4	3/4	195,772	3/4	185,262	3/4	174,075	3/4	162,868	3/4	151,644	3/4	138,650	3/4	123,737	3/4	108,781	3/4	93,811	
8	8	195,678	8	185,029	8	173,842	8	162,635	8	151,410	8	138,344	8	123,425	8	108,469	8	93,499	
1/4	1/4	195,584	1/4	184,796	1/4	173,609	1/4	162,401	1/4	151,177	1/4	138,039	1/4	123,113	1/4	108,158	1/4	93,188	
1/2	1/2	195,437	1/2	184,563	1/2	173,376	1/2	162,167	1/2	150,943	1/2	137,733	1/2	122,802	1/2	107,846	1/2	92,876	
3/4	3/4	195,291	3/4	184,330	3/4	173,143	3/4	161,933	3/4	150,709	3/4	137,428	3/4	122,490	3/4	107,534	3/4	92,564	
9	9	195,145	9	184,097	9	172,910	9	161,699	9	150,475	9	137,122	9	122,179	9	107,223	9	92,253	
1/4	1/4	194,998	1/4	183,864	1/4	172,676	1/4	161,465	1/4	150,241	1/4	136,817	1/4	121,867	1/4	106,911	1/4	91,941	
1/2	1/2	194,800	1/2	183,631	1/2	172,443	1/2	161,231	1/2	150,007	1/2	136,506	1/2	121,556	1/2	106,599	1/2	91,629	
3/4	3/4	194,602	3/4	183,398	3/4	172,210	3/4	160,998	3/4	149,774	3/4	136,196	3/4	121,244	3/4	106,287	3/4	91,317	
10	10	194,403	10	183,165	10	171,977	10	160,764	10	149,540	10	135,886	10	120,932	10	105,975	10	91,006	
1/4	1/4	194,205	1/4	182,932	1/4	171,744	1/4	160,530	1/4	149,306	1/4	135,576	1/4	120,621	1/4	105,663	1/4	90,694	
1/2	1/2	193,975	1/2	182,699	1/2	171,511	1/2	160,296	1/2	149,073	1/2	135,265	1/2	120,309	1/2	105,351	1/2	90,382	
3/4	3/4	193,745	3/4	182,466	3/4	171,278	3/4	160,062	3/4	148,840	3/4	134,953	3/4	119,998	3/4	105,039	3/4	90,070	
11	11	193,515	11	182,232	11	171,045	11	159,828	11	148,607	11	134,642	11	119,686	11	104,727	11	89,759	
1/4	1/4	193,286	1/4	181,999	1/4	170,812	1/4	159,595	1/4	148,374	1/4	134,330	1/4	119,375	1/4	104,415	1/4	89,447	
1/2	1/2	193,047	1/2	181,766	1/2	170,579	1/2	159,361	1/2	148,141	1/2	134,018	1/2	119,063	1/2	104,103	1/2	89,135	
3/4	3/4	192,809	3/4	181,533	3/4	170,346	3/4	159,127	3/4	147,908	3/4	133,707	3/4	118,751	3/4	103,791	3/4	88,823	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP 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 ULLAGE 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	88,512	0	73,562	0	58,668	0	44,140	0	29,355	0	14,375	0		0		0		0	
1/4	88,200	1/4	73,251	1/4	58,361	1/4	43,836	1/4	29,043	1/4	14,063	1/4		1/4		1/4		1/4	
1/2	87,888	1/2	72,941	1/2	58,056	1/2	43,532	1/2	28,731	1/2	13,751	1/2		1/2		1/2		1/2	
3/4	87,576	3/4	72,631	3/4	57,751	3/4	43,227	3/4	28,419	3/4	13,439	3/4		3/4		3/4		3/4	
1	87,264	1	72,321	1	57,445	1	42,922	1	28,107	1	13,127	1		1		1		1	
1/4	86,952	1/4	72,011	1/4	57,140	1/4	42,617	1/4	27,795	1/4	12,814	1/4		1/4		1/4		1/4	
1/2	86,640	1/2	71,701	1/2	56,837	1/2	42,312	1/2	27,483	1/2	12,502	1/2		1/2		1/2		1/2	
3/4	86,328	3/4	71,391	3/4	56,534	3/4	42,008	3/4	27,171	3/4	12,190	3/4		3/4		3/4		3/4	
2	86,016	2	71,081	2	56,231	2	41,703	2	26,859	2	11,878	2		2		2		2	
1/4	85,704	1/4	70,771	1/4	55,928	1/4	41,398	1/4	26,547	1/4	11,566	1/4		1/4		1/4		1/4	
1/2	85,392	1/2	70,461	1/2	55,625	1/2	41,093	1/2	26,235	1/2	11,254	1/2		1/2		1/2		1/2	
3/4	85,080	3/4	70,151	3/4	55,323	3/4	40,789	3/4	25,923	3/4	10,941	3/4		3/4		3/4		3/4	
3	84,768	3	69,841	3	55,021	3	40,484	3	25,611	3	10,629	3		3		3		3	
1/4	84,456	1/4	69,530	1/4	54,719	1/4	40,179	1/4	25,299	1/4	10,316	1/4		1/4		1/4		1/4	
1/2	84,144	1/2	69,220	1/2	54,416	1/2	39,874	1/2	24,987	1/2	10,004	1/2		1/2		1/2		1/2	
3/4	83,832	3/4	68,910	3/4	54,114	3/4	39,569	3/4	24,675	3/4	9,691	3/4		3/4		3/4		3/4	
4	83,520	4	68,600	4	53,812	4	39,265	4	24,363	4	9,378	4		4		4		4	
1/4	83,208	1/4	68,290	1/4	53,510	1/4	38,960	1/4	24,051	1/4	9,066	1/4		1/4		1/4		1/4	
1/2	82,896	1/2	67,980	1/2	53,207	1/2	38,655	1/2	23,738	1/2	8,753	1/2		1/2		1/2		1/2	
3/4	82,583	3/4	67,670	3/4	52,905	3/4	38,350	3/4	23,426	3/4	8,441	3/4		3/4		3/4		3/4	
5	82,271	5	67,360	5	52,603	5	38,045	5	23,114	5	8,128	5		5		5		5	
1/4	81,959	1/4	67,050	1/4	52,301	1/4	37,741	1/4	22,802	1/4	7,816	1/4		1/4		1/4		1/4	
1/2	81,647	1/2	66,740	1/2	51,998	1/2	37,436	1/2	22,490	1/2	7,504	1/2		1/2		1/2		1/2	
3/4	81,335	3/4	66,430	3/4	51,696	3/4	37,131	3/4	22,178	3/4	7,191	3/4		3/4		3/4		3/4	
6	81,023	6	66,120	6	51,394	6	36,826	6	21,866	6	6,879	6		6		6		6	
1/4	80,711	1/4	65,809	1/4	51,092	1/4	36,522	1/4	21,554	1/4	6,567	1/4		1/4		1/4		1/4	
1/2	80,399	1/2	65,499	1/2	50,789	1/2	36,212	1/2	21,242	1/2	6,254	1/2		1/2		1/2		1/2	
3/4	80,087	3/4	65,189	3/4	50,487	3/4	35,902	3/4	20,929	3/4	5,942	3/4		3/4		3/4		3/4	
7	79,775	7	64,879	7	50,185	7	35,593	7	20,617	7	5,630	7		7		7		7	
1/4	79,463	1/4	64,569	1/4	49,883	1/4	35,283	1/4	20,305	1/4	5,317	1/4		1/4		1/4		1/4	
1/2	79,151	1/2	64,259	1/2	49,580	1/2	34,972	1/2	19,993	1/2	5,005	1/2		1/2		1/2		1/2	
3/4	78,839	3/4	63,949	3/4	49,278	3/4	34,660	3/4	19,681	3/4	4,693	3/4		3/4		3/4		3/4	
8	78,527	8	63,639	8	48,976	8	34,348	8	19,369	8	4,381	8		8		8		8	
1/4	78,215	1/4	63,329	1/4	48,674	1/4	34,036	1/4	19,057	1/4	4,069	1/4		1/4		1/4		1/4	
1/2	77,904	1/2	63,017	1/2	48,371	1/2	33,724	1/2	18,745	1/2	3,757	1/2		1/2		1/2		1/2	
3/4	77,594	3/4	62,706	3/4	48,069	3/4	33,412	3/4	18,433	3/4	3,446	3/4		3/4		3/4		3/4	
9	77,283	9	62,395	9	47,767	9	33,100	9	18,120	9	3,135	9		9		9		9	
1/4	76,972	1/4	62,083	1/4	47,465	1/4	32,788	1/4	17,808	1/4	2,823	1/4		1/4		1/4		1/4	
1/2	76,662	1/2	61,772	1/2	47,163	1/2	32,476	1/2	17,496	1/2	2,510	1/2		1/2		1/2		1/2	
3/4	76,352	3/4	61,460	3/4	46,861	3/4	32,163	3/4	17,184	3/4	2,257	3/4		3/4		3/4		3/4	
10	76,042	10	61,148	10	46,560	10	31,851	10	16,872	10	1,975	10		10		10		10	
1/4	75,732	1/4	60,836	1/4	46,258	1/4	31,539	1/4	16,560	1/4	1,692	1/4		1/4		1/4		1/4	
1/2	75,422	1/2	60,525	1/2	45,957	1/2	31,227	1/2	16,248	1/2	1,477	1/2		1/2		1/2		1/2	
3/4	75,112	3/4	60,213	3/4	45,655	3/4	30,915	3/4	15,936	3/4	1,262	3/4		3/4		3/4		3/4	
11	74,802	11	59,901	11	45,354	11	30,603	11	15,623	11	1,047	11		11		11		11	
1/4	74,492	1/4	59,589	1/4	45,052	1/4	30,291	1/4	15,311	1/4	832	1/4		1/4		1/4		1/4	
1/2	74,182	1/2	59,282	1/2	44,748	1/2	29,979	1/2	14,999	1/2		1/2		1/2		1/2		1/2	
3/4	73,872	3/4	58,975	3/4	44,444	3/4	29,667	3/4	14,687	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 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	193,986	0	182,700	0	171,503	0	160,275	0	149,046	0	134,806	0	119,807	0	104,804
1/4		1/4		1/4	193,748	1/4	182,467	1/4	171,270	1/4	160,041	1/4	148,813	1/4	134,494	1/4	119,495	1/4	104,491
1/2		1/2		1/2	193,510	1/2	182,234	1/2	171,037	1/2	159,807	1/2	148,580	1/2	134,181	1/2	119,182	1/2	104,178
3/4		3/4		3/4	193,270	3/4	182,001	3/4	170,804	3/4	159,573	3/4	148,347	3/4	133,869	3/4	118,870	3/4	103,865
1		1		1	193,031	1	181,767	1	170,570	1	159,339	1	148,114	1	133,556	1	118,557	1	103,552
1/4		1/4		1/4	192,792	1/4	181,534	1/4	170,337	1/4	159,105	1/4	147,881	1/4	133,244	1/4	118,245	1/4	103,239
1/2		1/2		1/2	192,553	1/2	181,301	1/2	170,104	1/2	158,871	1/2	147,648	1/2	132,931	1/2	117,933	1/2	102,926
3/4		3/4		3/4	192,313	3/4	181,068	3/4	169,870	3/4	158,637	3/4	147,361	3/4	132,619	3/4	117,620	3/4	102,614
2		2		2	192,074	2	180,834	2	169,636	2	158,403	2	147,073	2	132,306	2	117,308	2	102,301
1/4		1/4		1/4	191,835	1/4	180,601	1/4	169,402	1/4	158,169	1/4	146,786	1/4	131,994	1/4	116,995	1/4	101,988
1/2		1/2		1/2	191,595	1/2	180,368	1/2	169,168	1/2	157,935	1/2	146,498	1/2	131,682	1/2	116,683	1/2	101,675
3/4		3/4		3/4	191,356	3/4	180,134	3/4	168,934	3/4	157,701	3/4	146,193	3/4	131,369	3/4	116,370	3/4	101,362
3		3		3	191,117	3	179,901	3	168,700	3	157,467	3	145,887	3	131,057	3	116,058	3	101,049
1/4		1/4		1/4	190,877	1/4	179,668	1/4	168,466	1/4	157,233	1/4	145,582	1/4	130,744	1/4	115,745	1/4	100,736
1/2		1/2		1/2	190,638	1/2	179,435	1/2	168,232	1/2	156,999	1/2	145,276	1/2	130,432	1/2	115,433	1/2	100,423
3/4		3/4		3/4	190,403	3/4	179,201	3/4	167,998	3/4	156,765	3/4	144,971	3/4	130,119	3/4	115,120	3/4	100,110
4		4		4	190,168	4	178,968	4	167,764	4	156,531	4	144,665	4	129,807	4	114,808	4	99,798
1/4		1/4		1/4	189,933	1/4	178,735	1/4	167,530	1/4	156,297	1/4	144,359	1/4	129,494	1/4	114,495	1/4	99,485
1/2		1/2		1/2	189,699	1/2	178,502	1/2	167,296	1/2	156,063	1/2	144,054	1/2	129,182	1/2	114,183	1/2	99,172
3/4		3/4		3/4	189,465	3/4	178,268	3/4	167,062	3/4	155,829	3/4	143,748	3/4	128,869	3/4	113,870	3/4	98,859
5		5		5	189,232	5	178,035	5	166,828	5	155,595	5	143,441	5	128,557	5	113,558	5	98,546
1/4		1/4		1/4	188,999	1/4	177,802	1/4	166,594	1/4	155,360	1/4	143,135	1/4	128,244	1/4	113,245	1/4	98,233
1/2		1/2		1/2	188,766	1/2	177,568	1/2	166,360	1/2	155,126	1/2	142,829	1/2	127,932	1/2	112,933	1/2	97,920
3/4		3/4		3/4	188,532	3/4	177,335	3/4	166,126	3/4	154,892	3/4	142,522	3/4	127,619	3/4	112,620	3/4	97,607
6		6		6	188,299	6	177,102	6	165,892	6	154,658	6	142,216	6	127,307	6	112,308	6	97,294
1/4		1/4		1/4	188,066	1/4	176,869	1/4	165,658	1/4	154,424	1/4	141,909	1/4	126,994	1/4	111,995	1/4	96,981
1/2		1/2		1/2	187,832	1/2	176,635	1/2	165,424	1/2	154,190	1/2	141,603	1/2	126,682	1/2	111,683	1/2	96,669
3/4		3/4		3/4	187,599	3/4	176,402	3/4	165,190	3/4	153,956	3/4	141,296	3/4	126,369	3/4	111,371	3/4	96,356
7		7		7	187,366	7	176,169	7	164,956	7	153,722	7	140,990	7	126,057	7	111,058	7	96,043
1/4		1/4		1/4	187,133	1/4	175,936	1/4	164,722	1/4	153,488	1/4	140,683	1/4	125,744	1/4	110,746	1/4	95,730
1/2		1/2		1/2	197,140	1/2	186,899	1/2	175,702	1/2	164,488	1/2	153,254	1/2	140,377	1/2	125,432	1/2	110,433
3/4		3/4		3/4	197,046	3/4	186,666	3/4	175,469	3/4	164,254	3/4	153,020	3/4	140,070	3/4	125,119	3/4	110,121
8		8		8	196,951	8	186,433	8	175,236	8	164,020	8	152,786	8	139,764	8	124,807	8	109,808
1/4		1/4		1/4	196,857	1/4	186,200	1/4	175,002	1/4	163,786	1/4	152,552	1/4	139,458	1/4	124,495	1/4	109,495
1/2		1/2		1/2	196,763	1/2	185,966	1/2	174,769	1/2	163,552	1/2	152,318	1/2	139,151	1/2	124,182	1/2	109,183
3/4		3/4		3/4	196,616	3/4	185,733	3/4	174,536	3/4	163,318	3/4	152,084	3/4	138,845	3/4	123,870	3/4	108,870
9		9		9	196,470	9	185,500	9	174,303	9	163,084	9	151,850	9	138,538	9	123,557	9	108,558
1/4		1/4		1/4	196,323	1/4	185,266	1/4	174,069	1/4	162,850	1/4	151,616	1/4	138,232	1/4	123,245	1/4	108,245
1/2		1/2		1/2	196,177	1/2	185,033	1/2	173,836	1/2	162,615	1/2	151,382	1/2	137,925	1/2	122,932	1/2	107,932
3/4		3/4		3/4	195,978	3/4	184,800	3/4	173,603	3/4	162,381	3/4	151,148	3/4	137,614	3/4	122,620	3/4	107,620
10		10		10	195,780	10	184,567	10	173,370	10	162,147	10	150,914	10	137,303	10	122,307	10	107,307
1/4		1/4		1/4	195,581	1/4	184,333	1/4	173,136	1/4	161,913	1/4	150,680	1/4	136,992	1/4	121,995	1/4	106,994
1/2		1/2		1/2	195,383	1/2	184,100	1/2	172,903	1/2	161,679	1/2	150,446	1/2	136,681	1/2	121,682	1/2	106,681
3/4		3/4		3/4	195,153	3/4	183,867	3/4	172,670	3/4	161,445	3/4	150,212	3/4	136,369	3/4	121,370	3/4	106,368
11		11		11	194,923	11	183,634	11	172,436	11	161,211	11	149,979	11	136,056	11	121,057	11	106,055
1/4		1/4		1/4	194,693	1/4	183,400	1/4	172,203	1/4	160,977	1/4	149,746	1/4	135,744	1/4	120,745	1/4	105,743
1/2		1/2		1/2	194,463	1/2	183,167	1/2	171,970	1/2	160,743	1/2	149,513	1/2	135,431	1/2	120,432	1/2	105,430
3/4		3/4		3/4	194,224	3/4	182,934	3/4	171,737	3/4	160,509	3/4	149,279	3/4	135,119	3/4	120,120	3/4	105,117

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP 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 STBD ULLAGE 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	89,785	0	74,766	0	59,747	0	44,731	0	29,727	0	14,709	0		0		0		0	
1/4	89,472	1/4	74,453	1/4	59,434	1/4	44,418	1/4	29,414	1/4	14,396	1/4		1/4		1/4		1/4	
1/2	89,159	1/2	74,140	1/2	59,121	1/2	44,106	1/2	29,102	1/2	14,083	1/2		1/2		1/2		1/2	
3/4	88,846	3/4	73,827	3/4	58,808	3/4	43,794	3/4	28,789	3/4	13,770	3/4		3/4		3/4		3/4	
1	88,533	1	73,514	1	58,495	1	43,481	1	28,476	1	13,457	1		1		1		1	
1/4	88,220	1/4	73,202	1/4	58,183	1/4	43,169	1/4	28,163	1/4	13,144	1/4		1/4		1/4		1/4	
1/2	87,908	1/2	72,889	1/2	57,870	1/2	42,856	1/2	27,850	1/2	12,832	1/2		1/2		1/2		1/2	
3/4	87,595	3/4	72,576	3/4	57,557	3/4	42,544	3/4	27,537	3/4	12,519	3/4		3/4		3/4		3/4	
2	87,282	2	72,263	2	57,244	2	42,232	2	27,224	2	12,206	2		2		2		2	
1/4	86,969	1/4	71,950	1/4	56,931	1/4	41,919	1/4	26,911	1/4	11,893	1/4		1/4		1/4		1/4	
1/2	86,656	1/2	71,637	1/2	56,618	1/2	41,607	1/2	26,599	1/2	11,580	1/2		1/2		1/2		1/2	
3/4	86,343	3/4	71,324	3/4	56,305	3/4	41,294	3/4	26,286	3/4	11,267	3/4		3/4		3/4		3/4	
3	86,030	3	71,011	3	55,992	3	40,982	3	25,973	3	10,954	3		3		3		3	
1/4	85,717	1/4	70,698	1/4	55,679	1/4	40,670	1/4	25,660	1/4	10,641	1/4		1/4		1/4		1/4	
1/2	85,404	1/2	70,385	1/2	55,367	1/2	40,357	1/2	25,347	1/2	10,329	1/2		1/2		1/2		1/2	
3/4	85,091	3/4	70,073	3/4	55,054	3/4	40,045	3/4	25,034	3/4	10,016	3/4		3/4		3/4		3/4	
4	84,779	4	69,760	4	54,741	4	39,732	4	24,721	4	9,703	4		4		4		4	
1/4	84,466	1/4	69,447	1/4	54,428	1/4	39,420	1/4	24,408	1/4	9,390	1/4		1/4		1/4		1/4	
1/2	84,153	1/2	69,134	1/2	54,115	1/2	39,108	1/2	24,095	1/2	9,077	1/2		1/2		1/2		1/2	
3/4	83,840	3/4	68,821	3/4	53,802	3/4	38,795	3/4	23,783	3/4	8,764	3/4		3/4		3/4		3/4	
5	83,527	5	68,508	5	53,489	5	38,483	5	23,470	5	8,451	5		5		5		5	
1/4	83,214	1/4	68,195	1/4	53,176	1/4	38,170	1/4	23,157	1/4	8,138	1/4		1/4		1/4		1/4	
1/2	82,901	1/2	67,882	1/2	52,863	1/2	37,858	1/2	22,844	1/2	7,825	1/2		1/2		1/2		1/2	
3/4	82,588	3/4	67,569	3/4	52,550	3/4	37,546	3/4	22,531	3/4	7,513	3/4		3/4		3/4		3/4	
6	82,275	6	67,257	6	52,238	6	37,233	6	22,218	6	7,200	6		6		6		6	
1/4	81,963	1/4	66,944	1/4	51,925	1/4	36,921	1/4	21,905	1/4	6,887	1/4		1/4		1/4		1/4	
1/2	81,650	1/2	66,631	1/2	51,612	1/2	36,608	1/2	21,592	1/2	6,574	1/2		1/2		1/2		1/2	
3/4	81,337	3/4	66,318	3/4	51,299	3/4	36,296	3/4	21,279	3/4	6,261	3/4		3/4		3/4		3/4	
7	81,024	7	66,005	7	50,986	7	35,984	7	20,967	7	5,948	7		7		7		7	
1/4	80,711	1/4	65,692	1/4	50,673	1/4	35,671	1/4	20,654	1/4	5,635	1/4		1/4		1/4		1/4	
1/2	80,398	1/2	65,379	1/2	50,360	1/2	35,359	1/2	20,341	1/2	5,323	1/2		1/2		1/2		1/2	
3/4	80,085	3/4	65,066	3/4	50,047	3/4	35,046	3/4	20,028	3/4	5,010	3/4		3/4		3/4		3/4	
8	79,772	8	64,753	8	49,734	8	34,733	8	19,715	8	4,697	8		8		8		8	
1/4	79,459	1/4	64,440	1/4	49,422	1/4	34,421	1/4	19,402	1/4	4,385	1/4		1/4		1/4		1/4	
1/2	79,146	1/2	64,128	1/2	49,109	1/2	34,108	1/2	19,089	1/2	4,072	1/2		1/2		1/2		1/2	
3/4	78,834	3/4	63,815	3/4	48,796	3/4	33,795	3/4	18,776	3/4	3,761	3/4		3/4		3/4		3/4	
9	78,521	9	63,502	9	48,483	9	33,482	9	18,464	9	3,449	9		9		9		9	
1/4	78,208	1/4	63,189	1/4	48,170	1/4	33,169	1/4	18,151	1/4	3,137	1/4		1/4		1/4		1/4	
1/2	77,895	1/2	62,876	1/2	47,857	1/2	32,856	1/2	17,838	1/2	2,826	1/2		1/2		1/2		1/2	
3/4	77,582	3/4	62,563	3/4	47,544	3/4	32,543	3/4	17,525	3/4	2,513	3/4		3/4		3/4		3/4	
10	77,269	10	62,250	10	47,232	10	32,230	10	17,212	10	2,200	10		10		10		10	
1/4	76,956	1/4	61,937	1/4	46,919	1/4	31,918	1/4	16,899	1/4	1,976	1/4		1/4		1/4		1/4	
1/2	76,643	1/2	61,624	1/2	46,606	1/2	31,605	1/2	16,586	1/2	1,693	1/2		1/2		1/2		1/2	
3/4	76,330	3/4	61,312	3/4	46,294	3/4	31,292	3/4	16,273	3/4	1,478	3/4		3/4		3/4		3/4	
11	76,018	11	60,999	11	45,981	11	30,979	11	15,960	11	1,263	11		11		11		11	
1/4	75,705	1/4	60,686	1/4	45,668	1/4	30,666	1/4	15,648	1/4	1,048	1/4		1/4		1/4		1/4	
1/2	75,392	1/2	60,373	1/2	45,356	1/2	30,353	1/2	15,335	1/2	833	1/2		1/2		1/2		1/2	
3/4	75,079	3/4	60,060	3/4	45,043	3/4	30,040	3/4	15,022	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

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