



# BARGE "HSM 4102"

## 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	- 00-1/8	00-1/8
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	- 00-1/8	00-1/8

(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"

October 2, 2024

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "HSM 4102"

## 1 PORT 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	206,474	0	191,570	0	176,619	0	161,630	0	146,636	0	131,641	0	116,646	0	101,649
1/4		1/4		1/4	206,165	1/4	191,258	1/4	176,308	1/4	161,318	1/4	146,323	1/4	131,329	1/4	116,334	1/4	101,337
1/2		1/2		1/2	205,856	1/2	190,947	1/2	175,996	1/2	161,005	1/2	146,011	1/2	131,016	1/2	116,022	1/2	101,024
3/4		3/4		3/4	205,547	3/4	190,636	3/4	175,685	3/4	160,693	3/4	145,698	3/4	130,704	3/4	115,709	3/4	100,712
1		1		1	205,237	1	190,324	1	175,373	1	160,381	1	145,386	1	130,391	1	115,397	1	100,399
1/4		1/4		1/4	204,928	1/4	190,013	1/4	175,062	1/4	160,068	1/4	145,074	1/4	130,079	1/4	115,085	1/4	100,087
1/2		1/2		1/2	204,619	1/2	189,701	1/2	174,750	1/2	159,756	1/2	144,761	1/2	129,767	1/2	114,772	1/2	99,774
3/4		3/4		3/4	204,309	3/4	189,390	3/4	174,437	3/4	159,443	3/4	144,449	3/4	129,454	3/4	114,460	3/4	99,462
2		2		2	204,000	2	189,078	2	174,125	2	159,131	2	144,136	2	129,142	2	114,147	2	99,149
1/4		1/4		1/4	203,690	1/4	188,767	1/4	173,813	1/4	158,819	1/4	143,824	1/4	128,830	1/4	113,835	1/4	98,837
1/2		1/2		1/2	203,381	1/2	188,455	1/2	173,501	1/2	158,506	1/2	143,512	1/2	128,517	1/2	113,523	1/2	98,524
3/4		3/4		3/4	203,071	3/4	188,144	3/4	173,188	3/4	158,194	3/4	143,199	3/4	128,205	3/4	113,210	3/4	98,212
3		3		3	202,762	3	187,832	3	172,876	3	157,881	3	142,887	3	127,892	3	112,898	3	97,899
1/4		1/4		1/4	202,452	1/4	187,521	1/4	172,564	1/4	157,569	1/4	142,575	1/4	127,580	1/4	112,585	1/4	97,587
1/2		1/2		1/2	202,143	1/2	187,209	1/2	172,251	1/2	157,257	1/2	142,262	1/2	127,268	1/2	112,273	1/2	97,274
3/4		3/4		3/4	201,834	3/4	186,898	3/4	171,939	3/4	156,944	3/4	141,950	3/4	126,955	3/4	111,961	3/4	96,962
4		4		4	201,524	4	186,586	4	171,626	4	156,632	4	141,637	4	126,643	4	111,648	4	96,649
1/4		1/4		1/4	201,215	1/4	186,275	1/4	171,314	1/4	156,320	1/4	141,325	1/4	126,330	1/4	111,336	1/4	96,337
1/2		1/2		1/2	200,906	1/2	185,963	1/2	171,002	1/2	156,007	1/2	141,013	1/2	126,018	1/2	111,024	1/2	96,024
3/4		3/4		3/4	200,596	3/4	185,652	3/4	170,689	3/4	155,695	3/4	140,700	3/4	125,706	3/4	110,711	3/4	95,712
5		5		5	200,287	5	185,340	5	170,377	5	155,382	5	140,388	5	125,393	5	110,399	5	95,399
1/4		1/4		1/4	199,978	1/4	185,029	1/4	170,065	1/4	155,070	1/4	140,075	1/4	125,081	1/4	110,086	1/4	95,087
1/2		1/2		1/2	199,667	1/2	184,717	1/2	169,752	1/2	154,758	1/2	139,763	1/2	124,769	1/2	109,774	1/2	94,774
3/4		3/4		3/4	199,356	3/4	184,406	3/4	169,440	3/4	154,445	3/4	139,451	3/4	124,456	3/4	109,462	3/4	94,461
6		6		6	199,045	6	184,095	6	169,127	6	154,133	6	139,138	6	124,144	6	109,149	6	94,149
1/4		1/4		1/4	198,734	1/4	183,783	1/4	168,815	1/4	153,820	1/4	138,826	1/4	123,831	1/4	108,837	1/4	93,836
1/2		1/2		1/2	198,422	1/2	183,472	1/2	168,503	1/2	153,508	1/2	138,513	1/2	123,519	1/2	108,524	1/2	93,524
3/4		3/4		3/4	198,111	3/4	183,160	3/4	168,190	3/4	153,196	3/4	138,201	3/4	123,207	3/4	108,212	3/4	93,211
7		7		7	197,799	7	182,849	7	167,878	7	152,883	7	137,889	7	122,894	7	107,900	7	92,899
1/4		1/4		1/4	211,227	1/4	197,488	1/4	182,537	1/4	167,565	1/4	152,571	1/4	137,576	1/4	122,582	1/4	92,586
1/2		1/2		1/2	211,061	1/2	197,176	1/2	182,226	1/2	167,253	1/2	152,258	1/2	137,264	1/2	122,269	1/2	92,274
3/4		3/4		3/4	210,895	3/4	196,865	3/4	181,914	3/4	166,941	3/4	151,946	3/4	136,952	3/4	121,957	3/4	91,961
8		8		8	210,729	8	196,554	8	181,603	8	166,628	8	151,634	8	136,639	8	121,645	8	91,649
1/4		1/4		1/4	210,563	1/4	196,242	1/4	181,291	1/4	166,316	1/4	151,321	1/4	136,327	1/4	121,332	1/4	91,336
1/2		1/2		1/2	210,344	1/2	195,931	1/2	180,980	1/2	166,003	1/2	151,009	1/2	136,014	1/2	121,020	1/2	91,024
3/4		3/4		3/4	210,126	3/4	195,619	3/4	180,668	3/4	165,691	3/4	150,697	3/4	135,702	3/4	120,707	3/4	90,711
9		9		9	209,908	9	195,308	9	180,357	9	165,379	9	150,384	9	135,390	9	120,395	9	90,399
1/4		1/4		1/4	209,689	1/4	194,996	1/4	180,045	1/4	165,066	1/4	150,072	1/4	135,077	1/4	120,083	1/4	90,086
1/2		1/2		1/2	209,419	1/2	194,685	1/2	179,734	1/2	164,754	1/2	149,759	1/2	134,765	1/2	119,770	1/2	89,774
3/4		3/4		3/4	209,149	3/4	194,373	3/4	179,422	3/4	164,442	3/4	149,447	3/4	134,452	3/4	119,458	3/4	89,461
10		10		10	208,878	10	194,062	10	179,111	10	164,129	10	149,135	10	134,140	10	119,146	10	89,149
1/4		1/4		1/4	208,608	1/4	193,750	1/4	178,799	1/4	163,817	1/4	148,822	1/4	133,828	1/4	118,833	1/4	88,836
1/2		1/2		1/2	208,306	1/2	193,439	1/2	178,488	1/2	163,504	1/2	148,510	1/2	133,515	1/2	118,521	1/2	88,524
3/4		3/4		3/4	208,004	3/4	193,127	3/4	178,177	3/4	163,192	3/4	148,197	3/4	133,203	3/4	118,208	3/4	88,211
11		11		11	207,702	11	192,816	11	177,865	11	162,880	11	147,885	11	132,891	11	117,896	11	87,899
1/4		1/4		1/4	207,401	1/4	192,504	1/4	177,554	1/4	162,567	1/4	147,573	1/4	132,578	1/4	117,584	1/4	87,586
1/2		1/2		1/2	207,092	1/2	192,193	1/2	177,242	1/2	162,255	1/2	147,260	1/2	132,266	1/2	117,271	1/2	87,273
3/4		3/4		3/4	206,783	3/4	191,881	3/4	176,931	3/4	161,942	3/4	146,948	3/4	131,953	3/4	116,959	3/4	86,961

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.

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# BARGE "HSM 4102"

## 1 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	86,648	0	71,647	0	56,699	0	41,750	0	26,750	0	11,972	0		0		0		0	
1/4	86,336	1/4	71,335	1/4	56,388	1/4	41,438	1/4	26,437	1/4	11,679	1/4		1/4		1/4		1/4	
1/2	86,023	1/2	71,022	1/2	56,078	1/2	41,125	1/2	26,124	1/2	11,389	1/2		1/2		1/2		1/2	
3/4	85,711	3/4	70,710	3/4	55,768	3/4	40,813	3/4	25,812	3/4	11,099	3/4		3/4		3/4		3/4	
1	85,398	1	70,397	1	55,458	1	40,500	1	25,499	1	10,809	1		1		1		1	
1/4	85,086	1/4	70,085	1/4	55,148	1/4	40,188	1/4	25,187	1/4	10,520	1/4		1/4		1/4		1/4	
1/2	84,773	1/2	69,772	1/2	54,838	1/2	39,875	1/2	24,874	1/2	10,234	1/2		1/2		1/2		1/2	
3/4	84,461	3/4	69,460	3/4	54,527	3/4	39,563	3/4	24,562	3/4	9,947	3/4		3/4		3/4		3/4	
2	84,148	2	69,147	2	54,217	2	39,250	2	24,249	2	9,661	2		2		2		2	
1/4	83,836	1/4	68,835	1/4	53,907	1/4	38,937	1/4	23,937	1/4	9,375	1/4		1/4		1/4		1/4	
1/2	83,523	1/2	68,522	1/2	53,597	1/2	38,625	1/2	23,624	1/2	9,093	1/2		1/2		1/2		1/2	
3/4	83,211	3/4	68,210	3/4	53,287	3/4	38,312	3/4	23,312	3/4	8,810	3/4		3/4		3/4		3/4	
3	82,898	3	67,897	3	52,977	3	38,000	3	22,999	3	8,528	3		3		3		3	
1/4	82,586	1/4	67,585	1/4	52,667	1/4	37,687	1/4	22,687	1/4	8,245	1/4		1/4		1/4		1/4	
1/2	82,273	1/2	67,272	1/2	52,356	1/2	37,375	1/2	22,374	1/2	7,967	1/2		1/2		1/2		1/2	
3/4	81,961	3/4	66,960	3/4	52,046	3/4	37,062	3/4	22,062	3/4	7,688	3/4		3/4		3/4		3/4	
4	81,648	4	66,647	4	51,735	4	36,750	4	21,749	4	7,409	4		4		4		4	
1/4	81,336	1/4	66,335	1/4	51,425	1/4	36,437	1/4	21,437	1/4	7,130	1/4		1/4		1/4		1/4	
1/2	81,023	1/2	66,022	1/2	51,114	1/2	36,125	1/2	21,124	1/2	6,855	1/2		1/2		1/2		1/2	
3/4	80,711	3/4	65,710	3/4	50,803	3/4	35,812	3/4	20,812	3/4	6,580	3/4		3/4		3/4		3/4	
5	80,398	5	65,397	5	50,492	5	35,500	5	20,499	5	6,305	5		5		5		5	
1/4	80,086	1/4	65,084	1/4	50,181	1/4	35,187	1/4	20,187	1/4	6,029	1/4		1/4		1/4		1/4	
1/2	79,773	1/2	64,772	1/2	49,870	1/2	34,875	1/2	19,874	1/2	5,758	1/2		1/2		1/2		1/2	
3/4	79,460	3/4	64,460	3/4	49,559	3/4	34,562	3/4	19,562	3/4	5,486	3/4		3/4		3/4		3/4	
6	79,148	6	64,148	6	49,247	6	34,250	6	19,249	6	5,215	6		6		6		6	
1/4	78,835	1/4	63,835	1/4	48,936	1/4	33,937	1/4	18,937	1/4	4,943	1/4		1/4		1/4		1/4	
1/2	78,523	1/2	63,525	1/2	48,624	1/2	33,625	1/2	18,626	1/2	4,675	1/2		1/2		1/2		1/2	
3/4	78,210	3/4	63,214	3/4	48,312	3/4	33,312	3/4	18,314	3/4	4,408	3/4		3/4		3/4		3/4	
7	77,898	7	62,903	7	48,000	7	33,000	7	18,003	7	4,140	7		7		7		7	
1/4	77,585	1/4	62,592	1/4	47,688	1/4	32,687	1/4	17,692	1/4	3,872	1/4		1/4		1/4		1/4	
1/2	77,273	1/2	62,282	1/2	47,375	1/2	32,375	1/2	17,384	1/2	3,608	1/2		1/2		1/2		1/2	
3/4	76,960	3/4	61,972	3/4	47,063	3/4	32,062	3/4	17,076	3/4	3,344	3/4		3/4		3/4		3/4	
8	76,648	8	61,661	8	46,750	8	31,750	8	16,768	8	3,080	8		8		8		8	
1/4	76,335	1/4	61,351	1/4	46,438	1/4	31,437	1/4	16,460	1/4	2,816	1/4		1/4		1/4		1/4	
1/2	76,023	1/2	61,041	1/2	46,125	1/2	31,125	1/2	16,156	1/2	2,557	1/2		1/2		1/2		1/2	
3/4	75,710	3/4	60,731	3/4	45,813	3/4	30,812	3/4	15,852	3/4	2,298	3/4		3/4		3/4		3/4	
9	75,398	9	60,420	9	45,500	9	30,500	9	15,547	9	2,038	9		9		9		9	
1/4	75,085	1/4	60,110	1/4	45,188	1/4	30,187	1/4	15,243	1/4	1,779	1/4		1/4		1/4		1/4	
1/2	74,773	1/2	59,800	1/2	44,875	1/2	29,875	1/2	14,942	1/2	1,552	1/2		1/2		1/2		1/2	
3/4	74,460	3/4	59,490	3/4	44,563	3/4	29,562	3/4	14,642	3/4	1,324	3/4		3/4		3/4		3/4	
10	74,148	10	59,180	10	44,250	10	29,250	10	14,341	10	1,097	10		10		10		10	
1/4	73,835	1/4	58,870	1/4	43,938	1/4	28,937	1/4	14,040	1/4	870	1/4		1/4		1/4		1/4	
1/2	73,523	1/2	58,559	1/2	43,625	1/2	28,625	1/2	13,743	1/2	714	1/2		1/2		1/2		1/2	
3/4	73,210	3/4	58,249	3/4	43,313	3/4	28,312	3/4	13,446	3/4	559	3/4		3/4		3/4		3/4	
11	72,898	11	57,939	11	43,000	11	28,000	11	13,149	11	403	11		11		11		11	
1/4	72,585	1/4	57,629	1/4	42,688	1/4	27,687	1/4	12,852	1/4	247	1/4		1/4		1/4		1/4	
1/2	72,272	1/2	57,319	1/2	42,375	1/2	27,375	1/2	12,559	1/2		1/2		1/2		1/2		1/2	
3/4	71,960	3/4	57,009	3/4	42,063	3/4	27,062	3/4	12,265	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
CALCULATED: 10/02/2024 CL  
PRINTED: 10/02/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2024

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



# BARGE "HSM 4102"

## 1 STBD ULLAGE 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		0		0	207,349	0	192,413	0	177,429	0	162,407	0	147,378	0	132,350	0	117,321	0	102,291
1/4		1/4		1/4	207,039	1/4	192,101	1/4	177,117	1/4	162,094	1/4	147,065	1/4	132,037	1/4	117,008	1/4	101,978
1/2		1/2		1/2	206,730	1/2	191,789	1/2	176,804	1/2	161,780	1/2	146,752	1/2	131,724	1/2	116,695	1/2	101,664
3/4		3/4		3/4	206,420	3/4	191,477	3/4	176,492	3/4	161,467	3/4	146,439	3/4	131,410	3/4	116,382	3/4	101,351
1		1		1	206,110	1	191,165	1	176,180	1	161,154	1	146,126	1	131,097	1	116,069	1	101,038
1/4		1/4		1/4	205,800	1/4	190,853	1/4	175,868	1/4	160,841	1/4	145,813	1/4	130,784	1/4	115,756	1/4	100,725
1/2		1/2		1/2	205,490	1/2	190,540	1/2	175,556	1/2	160,528	1/2	145,500	1/2	130,471	1/2	115,443	1/2	100,412
3/4		3/4		3/4	205,180	3/4	190,228	3/4	175,243	3/4	160,215	3/4	145,186	3/4	130,158	3/4	115,130	3/4	100,098
2		2		2	204,870	2	189,916	2	174,930	2	159,902	2	144,873	2	129,845	2	114,817	2	99,785
1/4		1/4		1/4	204,559	1/4	189,604	1/4	174,617	1/4	159,589	1/4	144,560	1/4	129,532	1/4	114,504	1/4	99,472
1/2		1/2		1/2	204,249	1/2	189,292	1/2	174,304	1/2	159,276	1/2	144,247	1/2	129,219	1/2	114,191	1/2	99,159
3/4		3/4		3/4	203,939	3/4	188,979	3/4	173,991	3/4	158,963	3/4	143,934	3/4	128,906	3/4	113,877	3/4	98,845
3		3		3	203,629	3	188,667	3	173,678	3	158,650	3	143,621	3	128,593	3	113,564	3	98,532
1/4		1/4		1/4	203,319	1/4	188,355	1/4	173,365	1/4	158,336	1/4	143,308	1/4	128,280	1/4	113,251	1/4	98,219
1/2		1/2		1/2	203,009	1/2	188,043	1/2	173,052	1/2	158,023	1/2	142,995	1/2	127,966	1/2	112,938	1/2	97,906
3/4		3/4		3/4	202,698	3/4	187,731	3/4	172,739	3/4	157,710	3/4	142,682	3/4	127,653	3/4	112,625	3/4	97,592
4		4		4	202,388	4	187,419	4	172,426	4	157,397	4	142,369	4	127,340	4	112,312	4	97,279
1/4		1/4		1/4	202,078	1/4	187,106	1/4	172,113	1/4	157,084	1/4	142,056	1/4	127,027	1/4	111,999	1/4	96,966
1/2		1/2		1/2	201,768	1/2	186,794	1/2	171,799	1/2	156,771	1/2	141,742	1/2	126,714	1/2	111,686	1/2	96,653
3/4		3/4		3/4	201,458	3/4	186,482	3/4	171,486	3/4	156,458	3/4	141,429	3/4	126,401	3/4	111,373	3/4	96,340
5		5		5	201,148	5	186,170	5	171,173	5	156,145	5	141,116	5	126,088	5	111,060	5	96,026
1/4		1/4		1/4	200,838	1/4	185,858	1/4	170,860	1/4	155,832	1/4	140,803	1/4	125,775	1/4	110,747	1/4	95,713
1/2		1/2		1/2	200,528	1/2	185,546	1/2	170,547	1/2	155,519	1/2	140,490	1/2	125,462	1/2	110,433	1/2	95,400
3/4		3/4		3/4	200,216	3/4	185,233	3/4	170,234	3/4	155,206	3/4	140,177	3/4	125,149	3/4	110,120	3/4	95,087
6		6		6	199,905	6	184,921	6	169,921	6	154,892	6	139,864	6	124,836	6	109,807	6	94,773
1/4		1/4		1/4	199,593	1/4	184,609	1/4	169,608	1/4	154,579	1/4	139,551	1/4	124,522	1/4	109,494	1/4	94,460
1/2		1/2		1/2	199,281	1/2	184,297	1/2	169,295	1/2	154,266	1/2	139,238	1/2	124,209	1/2	109,181	1/2	94,147
3/4		3/4		3/4	198,969	3/4	183,985	3/4	168,982	3/4	153,953	3/4	138,925	3/4	123,896	3/4	108,868	3/4	93,834
7		7		7	198,657	7	183,672	7	168,669	7	153,640	7	138,612	7	123,583	7	108,555	7	93,521
1/4		1/4		1/4	198,345	1/4	183,360	1/4	168,355	1/4	153,327	1/4	138,298	1/4	123,270	1/4	108,242	1/4	93,207
1/2		1/2		1/2	211,804	1/2	198,033	1/2	183,048	1/2	168,042	1/2	153,014	1/2	137,985	1/2	122,957	1/2	107,929
3/4		3/4		3/4	211,637	3/4	197,721	3/4	182,736	3/4	167,729	3/4	152,701	3/4	137,672	3/4	122,644	3/4	107,616
8		8		8	211,470	8	197,408	8	182,424	8	167,416	8	152,388	8	137,359	8	122,331	8	107,302
1/4		1/4		1/4	211,304	1/4	197,096	1/4	182,112	1/4	167,103	1/4	152,075	1/4	137,046	1/4	122,018	1/4	106,989
1/2		1/2		1/2	211,137	1/2	196,784	1/2	181,799	1/2	166,790	1/2	151,761	1/2	136,733	1/2	121,705	1/2	106,676
3/4		3/4		3/4	210,918	3/4	196,472	3/4	181,487	3/4	166,477	3/4	151,448	3/4	136,420	3/4	121,392	3/4	106,363
9		9		9	210,699	9	196,160	9	181,175	9	166,164	9	151,135	9	136,107	9	121,078	9	106,050
1/4		1/4		1/4	210,481	1/4	195,847	1/4	180,863	1/4	165,851	1/4	150,822	1/4	135,794	1/4	120,765	1/4	105,736
1/2		1/2		1/2	210,262	1/2	195,535	1/2	180,551	1/2	165,538	1/2	150,509	1/2	135,481	1/2	120,452	1/2	105,423
3/4		3/4		3/4	209,991	3/4	195,223	3/4	180,238	3/4	165,225	3/4	150,196	3/4	135,167	3/4	120,139	3/4	105,110
10		10		10	209,720	10	194,911	10	179,926	10	164,911	10	149,883	10	134,854	10	119,826	10	104,797
1/4		1/4		1/4	209,449	1/4	194,599	1/4	179,614	1/4	164,598	1/4	149,570	1/4	134,541	1/4	119,513	1/4	104,483
1/2		1/2		1/2	209,178	1/2	194,287	1/2	179,302	1/2	164,285	1/2	149,257	1/2	134,228	1/2	119,200	1/2	104,170
3/4		3/4		3/4	208,875	3/4	193,974	3/4	178,990	3/4	163,972	3/4	148,944	3/4	133,915	3/4	118,887	3/4	103,857
11		11		11	208,573	11	193,662	11	178,678	11	163,659	11	148,631	11	133,602	11	118,574	11	103,544
1/4		1/4		1/4	208,270	1/4	193,350	1/4	178,365	1/4	163,346	1/4	148,317	1/4	133,289	1/4	118,261	1/4	103,231
1/2		1/2		1/2	207,968	1/2	193,038	1/2	178,053	1/2	163,033	1/2	148,004	1/2	132,976	1/2	117,948	1/2	102,917
3/4		3/4		3/4	207,658	3/4	192,726	3/4	177,741	3/4	162,720	3/4	147,691	3/4	132,663	3/4	117,635	3/4	102,604

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 4102"

## 1 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	87,256	0	72,221	0	57,190	0	42,159	0	27,125	0	12,295	0		0		0		0	
1/4	86,943	1/4	71,908	1/4	56,877	1/4	41,846	1/4	26,812	1/4	12,001	1/4		1/4		1/4		1/4	
1/2	86,630	1/2	71,595	1/2	56,564	1/2	41,533	1/2	26,499	1/2	11,707	1/2		1/2		1/2		1/2	
3/4	86,316	3/4	71,282	3/4	56,251	3/4	41,220	3/4	26,185	3/4	11,417	3/4		3/4		3/4		3/4	
1	86,003	1	70,968	1	55,938	1	40,907	1	25,872	1	11,126	1		1		1		1	
1/4	85,690	1/4	70,655	1/4	55,625	1/4	40,593	1/4	25,559	1/4	10,836	1/4		1/4		1/4		1/4	
1/2	85,377	1/2	70,342	1/2	55,312	1/2	40,280	1/2	25,246	1/2	10,545	1/2		1/2		1/2		1/2	
3/4	85,064	3/4	70,029	3/4	54,999	3/4	39,967	3/4	24,933	3/4	10,259	3/4		3/4		3/4		3/4	
2	84,750	2	69,716	2	54,686	2	39,654	2	24,619	2	9,972	2		2		2		2	
1/4	84,437	1/4	69,402	1/4	54,373	1/4	39,341	1/4	24,306	1/4	9,685	1/4		1/4		1/4		1/4	
1/2	84,124	1/2	69,089	1/2	54,060	1/2	39,027	1/2	23,993	1/2	9,398	1/2		1/2		1/2		1/2	
3/4	83,811	3/4	68,776	3/4	53,747	3/4	38,714	3/4	23,680	3/4	9,115	3/4		3/4		3/4		3/4	
3	83,497	3	68,463	3	53,434	3	38,401	3	23,367	3	8,832	3		3		3		3	
1/4	83,184	1/4	68,149	1/4	53,121	1/4	38,088	1/4	23,053	1/4	8,549	1/4		1/4		1/4		1/4	
1/2	82,871	1/2	67,836	1/2	52,808	1/2	37,774	1/2	22,740	1/2	8,266	1/2		1/2		1/2		1/2	
3/4	82,558	3/4	67,523	3/4	52,495	3/4	37,461	3/4	22,427	3/4	7,986	3/4		3/4		3/4		3/4	
4	82,244	4	67,210	4	52,182	4	37,148	4	22,114	4	7,707	4		4		4		4	
1/4	81,931	1/4	66,897	1/4	51,869	1/4	36,835	1/4	21,800	1/4	7,427	1/4		1/4		1/4		1/4	
1/2	81,618	1/2	66,583	1/2	51,556	1/2	36,522	1/2	21,487	1/2	7,148	1/2		1/2		1/2		1/2	
3/4	81,305	3/4	66,270	3/4	51,243	3/4	36,208	3/4	21,174	3/4	6,872	3/4		3/4		3/4		3/4	
5	80,992	5	65,957	5	50,929	5	35,895	5	20,861	5	6,596	5		5		5		5	
1/4	80,678	1/4	65,644	1/4	50,616	1/4	35,582	1/4	20,548	1/4	6,320	1/4		1/4		1/4		1/4	
1/2	80,365	1/2	65,330	1/2	50,303	1/2	35,269	1/2	20,234	1/2	6,045	1/2		1/2		1/2		1/2	
3/4	80,052	3/4	65,017	3/4	49,990	3/4	34,955	3/4	19,921	3/4	5,772	3/4		3/4		3/4		3/4	
6	79,739	6	64,704	6	49,677	6	34,642	6	19,608	6	5,500	6		6		6		6	
1/4	79,425	1/4	64,391	1/4	49,363	1/4	34,329	1/4	19,295	1/4	5,228	1/4		1/4		1/4		1/4	
1/2	79,112	1/2	64,077	1/2	49,050	1/2	34,016	1/2	18,982	1/2	4,956	1/2		1/2		1/2		1/2	
3/4	78,799	3/4	63,764	3/4	48,737	3/4	33,703	3/4	18,670	3/4	4,687	3/4		3/4		3/4		3/4	
7	78,486	7	63,451	7	48,424	7	33,389	7	18,358	7	4,419	7		7		7		7	
1/4	78,173	1/4	63,138	1/4	48,111	1/4	33,076	1/4	18,046	1/4	4,150	1/4		1/4		1/4		1/4	
1/2	77,859	1/2	62,825	1/2	47,797	1/2	32,763	1/2	17,734	1/2	3,882	1/2		1/2		1/2		1/2	
3/4	77,546	3/4	62,511	3/4	47,484	3/4	32,450	3/4	17,425	3/4	3,617	3/4		3/4		3/4		3/4	
8	77,233	8	62,198	8	47,171	8	32,137	8	17,117	8	3,353	8		8		8		8	
1/4	76,920	1/4	61,885	1/4	46,858	1/4	31,823	1/4	16,808	1/4	3,088	1/4		1/4		1/4		1/4	
1/2	76,606	1/2	61,572	1/2	46,544	1/2	31,510	1/2	16,500	1/2	2,824	1/2		1/2		1/2		1/2	
3/4	76,293	3/4	61,259	3/4	46,231	3/4	31,197	3/4	16,195	3/4	2,564	3/4		3/4		3/4		3/4	
9	75,980	9	60,946	9	45,918	9	30,884	9	15,890	9	2,304	9		9		9		9	
1/4	75,667	1/4	60,633	1/4	45,605	1/4	30,570	1/4	15,585	1/4	2,044	1/4		1/4		1/4		1/4	
1/2	75,354	1/2	60,320	1/2	45,292	1/2	30,257	1/2	15,279	1/2	1,784	1/2		1/2		1/2		1/2	
3/4	75,040	3/4	60,007	3/4	44,978	3/4	29,944	3/4	14,978	3/4	1,556	3/4		3/4		3/4		3/4	
10	74,727	10	59,694	10	44,665	10	29,631	10	14,677	10	1,328	10		10		10		10	
1/4	74,414	1/4	59,381	1/4	44,352	1/4	29,318	1/4	14,375	1/4	1,100	1/4		1/4		1/4		1/4	
1/2	74,101	1/2	59,068	1/2	44,039	1/2	29,004	1/2	14,074	1/2	873	1/2		1/2		1/2		1/2	
3/4	73,787	3/4	58,755	3/4	43,726	3/4	28,691	3/4	13,776	3/4	716	3/4		3/4		3/4		3/4	
11	73,474	11	58,442	11	43,412	11	28,378	11	13,479	11	560	11		11		11		11	
1/4	73,161	1/4	58,129	1/4	43,099	1/4	28,065	1/4	13,181	1/4	404	1/4		1/4		1/4		1/4	
1/2	72,848	1/2	57,816	1/2	42,786	1/2	27,752	1/2	12,883	1/2	248	1/2		1/2		1/2		1/2	
3/4	72,535	3/4	57,503	3/4	42,473	3/4	27,438	3/4	12,589	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
CALCULATED: 10/02/2024 CL  
PRINTED: 10/02/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2024

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



# BARGE "HSM 4102"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 3/4"

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	210,117	0	195,182	0	180,172	0	165,120	0	150,059	0	134,998	0	119,937	0	104,873	
1/4	1/4	1/4	1/4	209,808	1/4	194,869	1/4	179,859	1/4	164,806	1/4	149,745	1/4	134,684	1/4	119,623	1/4	104,559	
1/2	1/2	1/2	1/2	209,499	1/2	194,556	1/2	179,546	1/2	164,492	1/2	149,431	1/2	134,370	1/2	119,309	1/2	104,246	
3/4	3/4	3/4	3/4	209,190	3/4	194,244	3/4	179,234	3/4	164,178	3/4	149,117	3/4	134,056	3/4	118,996	3/4	103,932	
1	1	1	1	208,880	1	193,931	1	178,921	1	163,864	1	148,804	1	133,743	1	118,682	1	103,618	
1/4	1/4	1/4	1/4	208,570	1/4	193,618	1/4	178,608	1/4	163,551	1/4	148,490	1/4	133,429	1/4	118,368	1/4	103,304	
1/2	1/2	1/2	1/2	208,261	1/2	193,305	1/2	178,296	1/2	163,237	1/2	148,176	1/2	133,115	1/2	118,054	1/2	102,990	
3/4	3/4	3/4	3/4	207,951	3/4	192,993	3/4	177,983	3/4	162,923	3/4	147,862	3/4	132,801	3/4	117,740	3/4	102,676	
2	2	2	2	207,641	2	192,680	2	177,669	2	162,609	2	147,548	2	132,488	2	117,427	2	102,362	
1/4	1/4	1/4	1/4	207,332	1/4	192,367	1/4	177,356	1/4	162,296	1/4	147,235	1/4	132,174	1/4	117,113	1/4	102,048	
1/2	1/2	1/2	1/2	207,022	1/2	192,055	1/2	177,042	1/2	161,982	1/2	146,921	1/2	131,860	1/2	116,799	1/2	101,734	
3/4	3/4	3/4	3/4	206,712	3/4	191,742	3/4	176,729	3/4	161,668	3/4	146,607	3/4	131,546	3/4	116,485	3/4	101,420	
3	3	3	3	206,402	3	191,429	3	176,415	3	161,354	3	146,293	3	131,233	3	116,172	3	101,106	
1/4	1/4	1/4	1/4	206,093	1/4	191,116	1/4	176,101	1/4	161,041	1/4	145,980	1/4	130,919	1/4	115,858	1/4	100,792	
1/2	1/2	1/2	1/2	205,783	1/2	190,804	1/2	175,788	1/2	160,727	1/2	145,666	1/2	130,605	1/2	115,544	1/2	100,478	
3/4	3/4	3/4	3/4	205,473	3/4	190,491	3/4	175,474	3/4	160,413	3/4	145,352	3/4	130,291	3/4	115,230	3/4	100,165	
4	4	4	4	205,163	4	190,178	4	175,160	4	160,099	4	145,038	4	129,977	4	114,917	4	99,851	
1/4	1/4	1/4	1/4	204,854	1/4	189,866	1/4	174,846	1/4	159,785	1/4	144,725	1/4	129,664	1/4	114,603	1/4	99,537	
1/2	1/2	1/2	1/2	204,544	1/2	189,553	1/2	174,533	1/2	159,472	1/2	144,411	1/2	129,350	1/2	114,289	1/2	99,223	
3/4	3/4	3/4	3/4	204,235	3/4	189,240	3/4	174,219	3/4	159,158	3/4	144,097	3/4	129,036	3/4	113,975	3/4	98,909	
5	5	5	5	203,925	5	188,928	5	173,905	5	158,844	5	143,783	5	128,722	5	113,661	5	98,595	
1/4	1/4	1/4	1/4	203,615	1/4	188,615	1/4	173,591	1/4	158,530	1/4	143,469	1/4	128,409	1/4	113,348	1/4	98,281	
1/2	1/2	1/2	1/2	203,306	1/2	188,302	1/2	173,278	1/2	158,217	1/2	143,156	1/2	128,095	1/2	113,034	1/2	97,967	
3/4	3/4	3/4	3/4	202,996	3/4	187,989	3/4	172,964	3/4	157,903	3/4	142,842	3/4	127,781	3/4	112,720	3/4	97,653	
6	6	6	6	202,684	6	187,677	6	172,650	6	157,589	6	142,528	6	127,467	6	112,406	6	97,339	
1/4	1/4	1/4	1/4	202,372	1/4	187,364	1/4	172,336	1/4	157,275	1/4	142,214	1/4	127,154	1/4	112,093	1/4	97,025	
1/2	1/2	1/2	1/2	202,060	1/2	187,051	1/2	172,022	1/2	156,962	1/2	141,901	1/2	126,840	1/2	111,779	1/2	96,711	
3/4	3/4	3/4	3/4	201,748	3/4	186,739	3/4	171,709	3/4	156,648	3/4	141,587	3/4	126,526	3/4	111,465	3/4	96,397	
7	7	7	7	201,436	7	186,426	7	171,395	7	156,334	7	141,273	7	126,212	7	111,151	7	96,083	
1/4	1/4	1/4	1/4	201,123	1/4	186,113	1/4	171,081	1/4	156,020	1/4	140,959	1/4	125,898	1/4	110,838	1/4	95,770	
1/2	1/2	1/2	1/2	200,810	1/2	185,801	1/2	170,767	1/2	155,706	1/2	140,646	1/2	125,585	1/2	110,524	1/2	95,456	
3/4	3/4	3/4	3/4	214,252	3/4	200,498	3/4	185,488	3/4	170,454	3/4	155,393	3/4	140,332	3/4	110,210	3/4	95,142	
8	8	8	8	214,086	8	200,185	8	185,175	8	170,140	8	155,079	8	140,018	8	109,896	8	94,828	
1/4	1/4	1/4	1/4	213,921	1/4	199,872	1/4	184,862	1/4	169,826	1/4	154,765	1/4	139,704	1/4	109,582	1/4	94,514	
1/2	1/2	1/2	1/2	213,755	1/2	199,559	1/2	184,550	1/2	169,512	1/2	154,451	1/2	139,390	1/2	109,268	1/2	94,200	
3/4	3/4	3/4	3/4	213,589	3/4	199,247	3/4	184,237	3/4	169,199	3/4	154,138	3/4	139,077	3/4	108,954	3/4	93,886	
9	9	9	9	213,371	9	198,934	9	183,924	9	168,885	9	153,824	9	138,763	9	108,641	9	93,572	
1/4	1/4	1/4	1/4	213,152	1/4	198,621	1/4	183,612	1/4	168,571	1/4	153,510	1/4	138,449	1/4	108,327	1/4	93,258	
1/2	1/2	1/2	1/2	212,934	1/2	198,309	1/2	183,299	1/2	168,257	1/2	153,196	1/2	138,135	1/2	108,013	1/2	92,944	
3/4	3/4	3/4	3/4	212,716	3/4	197,996	3/4	182,986	3/4	167,943	3/4	152,883	3/4	137,822	3/4	107,699	3/4	92,630	
10	10	10	10	212,446	10	197,683	10	182,674	10	167,630	10	152,569	10	137,508	10	107,385	10	92,316	
1/4	1/4	1/4	1/4	212,175	1/4	197,371	1/4	182,361	1/4	167,316	1/4	152,255	1/4	137,194	1/4	107,071	1/4	92,002	
1/2	1/2	1/2	1/2	211,905	1/2	197,058	1/2	182,048	1/2	167,002	1/2	151,941	1/2	136,880	1/2	106,757	1/2	91,689	
3/4	3/4	3/4	3/4	211,634	3/4	196,745	3/4	181,735	3/4	166,688	3/4	151,627	3/4	136,567	3/4	106,443	3/4	91,375	
11	11	11	11	211,332	11	196,432	11	181,423	11	166,375	11	151,314	11	136,253	11	106,129	11	91,061	
1/4	1/4	1/4	1/4	211,030	1/4	196,120	1/4	181,110	1/4	166,061	1/4	151,000	1/4	135,939	1/4	105,815	1/4	90,747	
1/2	1/2	1/2	1/2	210,728	1/2	195,807	1/2	180,797	1/2	165,747	1/2	150,686	1/2	135,625	1/2	105,501	1/2	90,433	
3/4	3/4	3/4	3/4	210,426	3/4	195,494	3/4	180,485	3/4	165,433	3/4	150,372	3/4	135,312	3/4	105,187	3/4	90,119	

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 4102"

## 2 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	89,805	0	74,737	0	59,668	0	44,901	0	30,137	0	15,071	0		0		0		0	
1/4	89,491	1/4	74,423	1/4	59,354	1/4	44,599	1/4	29,823	1/4	14,757	1/4		1/4		1/4		1/4	
1/2	89,177	1/2	74,109	1/2	59,040	1/2	44,296	1/2	29,509	1/2	14,443	1/2		1/2		1/2		1/2	
3/4	88,863	3/4	73,795	3/4	58,726	3/4	43,993	3/4	29,196	3/4	14,129	3/4		3/4		3/4		3/4	
1	88,549	1	73,481	1	58,412	1	43,690	1	28,882	1	13,816	1		1		1		1	
1/4	88,235	1/4	73,167	1/4	58,098	1/4	43,387	1/4	28,568	1/4	13,502	1/4		1/4		1/4		1/4	
1/2	87,921	1/2	72,853	1/2	57,785	1/2	43,085	1/2	28,255	1/2	13,188	1/2		1/2		1/2		1/2	
3/4	87,607	3/4	72,539	3/4	57,471	3/4	42,782	3/4	27,941	3/4	12,874	3/4		3/4		3/4		3/4	
2	87,294	2	72,225	2	57,157	2	42,479	2	27,627	2	12,560	2		2		2		2	
1/4	86,980	1/4	71,911	1/4	56,843	1/4	42,176	1/4	27,313	1/4	12,246	1/4		1/4		1/4		1/4	
1/2	86,666	1/2	71,597	1/2	56,529	1/2	41,873	1/2	27,000	1/2	11,932	1/2		1/2		1/2		1/2	
3/4	86,352	3/4	71,283	3/4	56,215	3/4	41,570	3/4	26,686	3/4	11,618	3/4		3/4		3/4		3/4	
3	86,038	3	70,969	3	55,901	3	41,268	3	26,372	3	11,304	3		3		3		3	
1/4	85,724	1/4	70,655	1/4	55,587	1/4	40,965	1/4	26,058	1/4	10,990	1/4		1/4		1/4		1/4	
1/2	85,410	1/2	70,342	1/2	55,273	1/2	40,662	1/2	25,744	1/2	10,676	1/2		1/2		1/2		1/2	
3/4	85,096	3/4	70,028	3/4	54,959	3/4	40,359	3/4	25,430	3/4	10,362	3/4		3/4		3/4		3/4	
4	84,782	4	69,714	4	54,645	4	40,056	4	25,117	4	10,049	4		4		4		4	
1/4	84,468	1/4	69,400	1/4	54,331	1/4	39,754	1/4	24,803	1/4	9,735	1/4		1/4		1/4		1/4	
1/2	84,154	1/2	69,086	1/2	54,017	1/2	39,451	1/2	24,489	1/2	9,421	1/2		1/2		1/2		1/2	
3/4	83,840	3/4	68,772	3/4	53,703	3/4	39,148	3/4	24,175	3/4	9,107	3/4		3/4		3/4		3/4	
5	83,526	5	68,458	5	53,397	5	38,844	5	23,861	5	8,793	5		5		5		5	
1/4	83,213	1/4	68,144	1/4	53,091	1/4	38,541	1/4	23,547	1/4	8,479	1/4		1/4		1/4		1/4	
1/2	82,899	1/2	67,830	1/2	52,785	1/2	38,237	1/2	23,233	1/2	8,165	1/2		1/2		1/2		1/2	
3/4	82,585	3/4	67,516	3/4	52,478	3/4	37,934	3/4	22,919	3/4	7,851	3/4		3/4		3/4		3/4	
6	82,271	6	67,202	6	52,175	6	37,630	6	22,605	6	7,537	6		6		6		6	
1/4	81,957	1/4	66,888	1/4	51,871	1/4	37,326	1/4	22,291	1/4	7,223	1/4		1/4		1/4		1/4	
1/2	81,643	1/2	66,574	1/2	51,567	1/2	37,023	1/2	21,977	1/2	6,909	1/2		1/2		1/2		1/2	
3/4	81,329	3/4	66,260	3/4	51,263	3/4	36,719	3/4	21,663	3/4	6,595	3/4		3/4		3/4		3/4	
7	81,015	7	65,947	7	50,960	7	36,408	7	21,350	7	6,282	7		7		7		7	
1/4	80,701	1/4	65,633	1/4	50,657	1/4	36,096	1/4	21,036	1/4	5,968	1/4		1/4		1/4		1/4	
1/2	80,387	1/2	65,319	1/2	50,354	1/2	35,785	1/2	20,722	1/2	5,654	1/2		1/2		1/2		1/2	
3/4	80,073	3/4	65,005	3/4	50,050	3/4	35,473	3/4	20,408	3/4	5,340	3/4		3/4		3/4		3/4	
8	79,759	8	64,691	8	49,747	8	35,160	8	20,094	8	5,026	8		8		8		8	
1/4	79,445	1/4	64,377	1/4	49,444	1/4	34,846	1/4	19,780	1/4	4,713	1/4		1/4		1/4		1/4	
1/2	79,131	1/2	64,063	1/2	49,141	1/2	34,532	1/2	19,466	1/2	4,399	1/2		1/2		1/2		1/2	
3/4	78,818	3/4	63,749	3/4	48,838	3/4	34,218	3/4	19,152	3/4	4,086	3/4		3/4		3/4		3/4	
9	78,504	9	63,435	9	48,535	9	33,904	9	18,838	9	3,773	9		9		9		9	
1/4	78,190	1/4	63,121	1/4	48,232	1/4	33,590	1/4	18,524	1/4	3,460	1/4		1/4		1/4		1/4	
1/2	77,876	1/2	62,807	1/2	47,930	1/2	33,276	1/2	18,210	1/2	3,148	1/2		1/2		1/2		1/2	
3/4	77,562	3/4	62,493	3/4	47,627	3/4	32,962	3/4	17,896	3/4	2,835	3/4		3/4		3/4		3/4	
10	77,248	10	62,179	10	47,324	10	32,648	10	17,583	10	2,551	10		10		10		10	
1/4	76,934	1/4	61,866	1/4	47,021	1/4	32,334	1/4	17,269	1/4	2,267	1/4		1/4		1/4		1/4	
1/2	76,620	1/2	61,552	1/2	46,718	1/2	32,020	1/2	16,955	1/2	1,983	1/2		1/2		1/2		1/2	
3/4	76,306	3/4	61,238	3/4	46,415	3/4	31,706	3/4	16,641	3/4	1,699	3/4		3/4		3/4		3/4	
11	75,992	11	60,924	11	46,113	11	31,393	11	16,327	11	1,483	11		11		11		11	
1/4	75,678	1/4	60,610	1/4	45,810	1/4	31,079	1/4	16,013	1/4	1,267	1/4		1/4		1/4		1/4	
1/2	75,364	1/2	60,296	1/2	45,507	1/2	30,765	1/2	15,699	1/2	1,051	1/2		1/2		1/2		1/2	
3/4	75,050	3/4	59,982	3/4	45,204	3/4	30,451	3/4	15,385	3/4	836	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
CALCULATED: 10/02/2024 CL  
PRINTED: 10/02/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2024

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





# BARGE "HSM 4102"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 3/4"

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	210,416	0	195,500	0	180,510	0	165,477	0	150,435	0	135,394	0	120,352	0	105,308
1/4		1/4		1/4	210,107	1/4	195,188	1/4	180,197	1/4	165,163	1/4	150,122	1/4	135,080	1/4	120,039	1/4	104,995
1/2		1/2		1/2	209,798	1/2	194,875	1/2	179,885	1/2	164,850	1/2	149,809	1/2	134,767	1/2	119,726	1/2	104,681
3/4		3/4		3/4	209,490	3/4	194,563	3/4	179,573	3/4	164,537	3/4	149,495	3/4	134,454	3/4	119,412	3/4	104,368
1		1		1	209,181	1	194,251	1	179,260	1	164,223	1	149,182	1	134,140	1	119,099	1	104,054
1/4		1/4		1/4	208,871	1/4	193,938	1/4	178,948	1/4	163,910	1/4	148,868	1/4	133,827	1/4	118,786	1/4	103,741
1/2		1/2		1/2	208,562	1/2	193,626	1/2	178,636	1/2	163,597	1/2	148,555	1/2	133,514	1/2	118,472	1/2	103,427
3/4		3/4		3/4	208,253	3/4	193,314	3/4	178,324	3/4	163,283	3/4	148,242	3/4	133,200	3/4	118,159	3/4	103,114
2		2		2	207,944	2	193,002	2	178,010	2	162,970	2	147,928	2	132,887	2	117,846	2	102,800
1/4		1/4		1/4	207,634	1/4	192,689	1/4	177,697	1/4	162,656	1/4	147,615	1/4	132,574	1/4	117,532	1/4	102,487
1/2		1/2		1/2	207,325	1/2	192,377	1/2	177,384	1/2	162,343	1/2	147,302	1/2	132,260	1/2	117,219	1/2	102,173
3/4		3/4		3/4	207,016	3/4	192,065	3/4	177,071	3/4	162,030	3/4	146,988	3/4	131,947	3/4	116,905	3/4	101,860
3		3		3	206,706	3	191,752	3	176,758	3	161,716	3	146,675	3	131,633	3	116,592	3	101,546
1/4		1/4		1/4	206,397	1/4	191,440	1/4	176,444	1/4	161,403	1/4	146,362	1/4	131,320	1/4	116,279	1/4	101,233
1/2		1/2		1/2	206,087	1/2	191,128	1/2	176,131	1/2	161,090	1/2	146,048	1/2	131,007	1/2	115,965	1/2	100,919
3/4		3/4		3/4	205,778	3/4	190,815	3/4	175,818	3/4	160,776	3/4	145,735	3/4	130,693	3/4	115,652	3/4	100,606
4		4		4	205,469	4	190,503	4	175,504	4	160,463	4	145,421	4	130,380	4	115,339	4	100,292
1/4		1/4		1/4	205,160	1/4	190,191	1/4	175,191	1/4	160,150	1/4	145,108	1/4	130,067	1/4	115,025	1/4	99,979
1/2		1/2		1/2	204,850	1/2	189,879	1/2	174,878	1/2	159,836	1/2	144,795	1/2	129,753	1/2	114,712	1/2	99,665
3/4		3/4		3/4	204,541	3/4	189,566	3/4	174,564	3/4	159,523	3/4	144,481	3/4	129,440	3/4	114,399	3/4	99,352
5		5		5	204,232	5	189,254	5	174,251	5	159,209	5	144,168	5	129,127	5	114,085	5	99,038
1/4		1/4		1/4	203,923	1/4	188,942	1/4	173,938	1/4	158,896	1/4	143,855	1/4	128,813	1/4	113,772	1/4	98,725
1/2		1/2		1/2	203,613	1/2	188,629	1/2	173,624	1/2	158,583	1/2	143,541	1/2	128,500	1/2	113,458	1/2	98,411
3/4		3/4		3/4	203,304	3/4	188,317	3/4	173,311	3/4	158,269	3/4	143,228	3/4	128,186	3/4	113,145	3/4	98,097
6		6		6	202,993	6	188,005	6	172,997	6	157,956	6	142,915	6	127,873	6	112,832	6	97,784
1/4		1/4		1/4	202,681	1/4	187,692	1/4	172,684	1/4	157,643	1/4	142,601	1/4	127,560	1/4	112,518	1/4	97,470
1/2		1/2		1/2	202,370	1/2	187,380	1/2	172,371	1/2	157,329	1/2	142,288	1/2	127,246	1/2	112,205	1/2	97,157
3/4		3/4		3/4	202,058	3/4	187,068	3/4	172,057	3/4	157,016	3/4	141,974	3/4	126,933	3/4	111,892	3/4	96,843
7		7		7	201,746	7	186,756	7	171,744	7	156,703	7	141,661	7	126,620	7	111,578	7	96,530
1/4		1/4		1/4	201,434	1/4	186,443	1/4	171,431	1/4	156,389	1/4	141,348	1/4	126,306	1/4	111,265	1/4	96,216
1/2		1/2		1/2	201,121	1/2	186,131	1/2	171,117	1/2	156,076	1/2	141,034	1/2	125,993	1/2	110,952	1/2	95,903
3/4		3/4		3/4	214,546	3/4	200,809	3/4	185,819	3/4	170,804	3/4	155,762	3/4	140,721	3/4	125,680	3/4	110,638
8		8		8	214,380	8	200,497	8	185,506	8	170,491	8	155,449	8	140,408	8	125,366	8	110,325
1/4		1/4		1/4	214,215	1/4	200,184	1/4	185,194	1/4	170,177	1/4	155,136	1/4	140,094	1/4	125,053	1/4	110,011
1/2		1/2		1/2	214,049	1/2	199,872	1/2	184,882	1/2	169,864	1/2	154,822	1/2	139,781	1/2	124,740	1/2	109,698
3/4		3/4		3/4	213,883	3/4	199,560	3/4	184,569	3/4	169,550	3/4	154,509	3/4	139,468	3/4	124,426	3/4	109,384
9		9		9	213,665	9	199,248	9	184,257	9	169,237	9	154,196	9	139,154	9	124,113	9	109,071
1/4		1/4		1/4	213,447	1/4	198,935	1/4	183,945	1/4	168,924	1/4	153,882	1/4	138,841	1/4	123,799	1/4	108,757
1/2		1/2		1/2	213,230	1/2	198,623	1/2	183,633	1/2	168,610	1/2	153,569	1/2	138,527	1/2	123,486	1/2	108,444
3/4		3/4		3/4	213,012	3/4	198,311	3/4	183,320	3/4	168,297	3/4	153,256	3/4	138,214	3/4	123,173	3/4	108,130
10		10		10	212,741	10	197,998	10	183,008	10	167,984	10	152,942	10	137,901	10	122,859	10	107,817
1/4		1/4		1/4	212,471	1/4	197,686	1/4	182,696	1/4	167,670	1/4	152,629	1/4	137,587	1/4	122,546	1/4	107,503
1/2		1/2		1/2	212,201	1/2	197,374	1/2	182,383	1/2	167,357	1/2	152,315	1/2	137,274	1/2	122,233	1/2	107,190
3/4		3/4		3/4	211,931	3/4	197,061	3/4	182,071	3/4	167,044	3/4	152,002	3/4	136,961	3/4	121,919	3/4	106,876
11		11		11	211,629	11	196,749	11	181,759	11	166,730	11	151,689	11	136,647	11	121,606	11	106,563
1/4		1/4		1/4	211,328	1/4	196,437	1/4	181,447	1/4	166,417	1/4	151,375	1/4	136,334	1/4	121,293	1/4	106,249
1/2		1/2		1/2	211,026	1/2	196,125	1/2	181,134	1/2	166,103	1/2	151,062	1/2	136,021	1/2	120,979	1/2	105,936
3/4		3/4		3/4	210,724	3/4	195,812	3/4	180,822	3/4	165,790	3/4	150,749	3/4	135,707	3/4	120,666	3/4	105,622

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 4102"

## 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	90,259	0	75,210	0	60,161	0	45,129	0	30,099	0	15,052	0		0		0		0	
1/4	89,946	1/4	74,897	1/4	59,848	1/4	44,817	1/4	29,786	1/4	14,739	1/4		1/4		1/4		1/4	
1/2	89,632	1/2	74,583	1/2	59,534	1/2	44,504	1/2	29,472	1/2	14,425	1/2		1/2		1/2		1/2	
3/4	89,319	3/4	74,270	3/4	59,221	3/4	44,192	3/4	29,159	3/4	14,112	3/4		3/4		3/4		3/4	
1	89,005	1	73,956	1	58,907	1	43,879	1	28,846	1	13,798	1		1		1		1	
1/4	88,692	1/4	73,643	1/4	58,594	1/4	43,566	1/4	28,532	1/4	13,485	1/4		1/4		1/4		1/4	
1/2	88,378	1/2	73,329	1/2	58,280	1/2	43,254	1/2	28,219	1/2	13,171	1/2		1/2		1/2		1/2	
3/4	88,065	3/4	73,016	3/4	57,967	3/4	42,941	3/4	27,906	3/4	12,858	3/4		3/4		3/4		3/4	
2	87,751	2	72,702	2	57,653	2	42,629	2	27,592	2	12,544	2		2		2		2	
1/4	87,438	1/4	72,389	1/4	57,340	1/4	42,316	1/4	27,279	1/4	12,231	1/4		1/4		1/4		1/4	
1/2	87,124	1/2	72,075	1/2	57,026	1/2	42,003	1/2	26,966	1/2	11,917	1/2		1/2		1/2		1/2	
3/4	86,811	3/4	71,762	3/4	56,713	3/4	41,691	3/4	26,652	3/4	11,604	3/4		3/4		3/4		3/4	
3	86,497	3	71,448	3	56,399	3	41,378	3	26,339	3	11,290	3		3		3		3	
1/4	86,184	1/4	71,135	1/4	56,086	1/4	41,066	1/4	26,025	1/4	10,977	1/4		1/4		1/4		1/4	
1/2	85,870	1/2	70,821	1/2	55,772	1/2	40,753	1/2	25,712	1/2	10,663	1/2		1/2		1/2		1/2	
3/4	85,557	3/4	70,508	3/4	55,459	3/4	40,440	3/4	25,398	3/4	10,349	3/4		3/4		3/4		3/4	
4	85,243	4	70,194	4	55,145	4	40,128	4	25,085	4	10,036	4		4		4		4	
1/4	84,930	1/4	69,881	1/4	54,832	1/4	39,815	1/4	24,771	1/4	9,722	1/4		1/4		1/4		1/4	
1/2	84,616	1/2	69,567	1/2	54,518	1/2	39,503	1/2	24,458	1/2	9,409	1/2		1/2		1/2		1/2	
3/4	84,303	3/4	69,254	3/4	54,205	3/4	39,190	3/4	24,144	3/4	9,095	3/4		3/4		3/4		3/4	
5	83,989	5	68,940	5	53,891	5	38,877	5	23,831	5	8,782	5		5		5		5	
1/4	83,676	1/4	68,627	1/4	53,578	1/4	38,564	1/4	23,517	1/4	8,468	1/4		1/4		1/4		1/4	
1/2	83,362	1/2	68,313	1/2	53,264	1/2	38,250	1/2	23,204	1/2	8,155	1/2		1/2		1/2		1/2	
3/4	83,049	3/4	68,000	3/4	52,951	3/4	37,937	3/4	22,890	3/4	7,841	3/4		3/4		3/4		3/4	
6	82,735	6	67,686	6	52,637	6	37,623	6	22,577	6	7,528	6		6		6		6	
1/4	82,421	1/4	67,372	1/4	52,323	1/4	37,310	1/4	22,263	1/4	7,214	1/4		1/4		1/4		1/4	
1/2	82,108	1/2	67,059	1/2	52,010	1/2	36,996	1/2	21,950	1/2	6,901	1/2		1/2		1/2		1/2	
3/4	81,794	3/4	66,745	3/4	51,696	3/4	36,683	3/4	21,636	3/4	6,587	3/4		3/4		3/4		3/4	
7	81,481	7	66,432	7	51,383	7	36,369	7	21,323	7	6,274	7		7		7		7	
1/4	81,167	1/4	66,118	1/4	51,070	1/4	36,056	1/4	21,009	1/4	5,960	1/4		1/4		1/4		1/4	
1/2	80,854	1/2	65,805	1/2	50,757	1/2	35,742	1/2	20,696	1/2	5,647	1/2		1/2		1/2		1/2	
3/4	80,540	3/4	65,491	3/4	50,444	3/4	35,429	3/4	20,382	3/4	5,333	3/4		3/4		3/4		3/4	
8	80,227	8	65,178	8	50,132	8	35,115	8	20,069	8	5,020	8		8		8		8	
1/4	79,913	1/4	64,864	1/4	49,819	1/4	34,802	1/4	19,755	1/4	4,707	1/4		1/4		1/4		1/4	
1/2	79,600	1/2	64,551	1/2	49,506	1/2	34,488	1/2	19,442	1/2	4,394	1/2		1/2		1/2		1/2	
3/4	79,286	3/4	64,237	3/4	49,193	3/4	34,175	3/4	19,128	3/4	4,081	3/4		3/4		3/4		3/4	
9	78,973	9	63,924	9	48,881	9	33,861	9	18,815	9	3,768	9		9		9		9	
1/4	78,659	1/4	63,610	1/4	48,568	1/4	33,548	1/4	18,501	1/4	3,456	1/4		1/4		1/4		1/4	
1/2	78,346	1/2	63,297	1/2	48,255	1/2	33,234	1/2	18,187	1/2	3,144	1/2		1/2		1/2		1/2	
3/4	78,032	3/4	62,983	3/4	47,943	3/4	32,921	3/4	17,874	3/4	2,832	3/4		3/4		3/4		3/4	
10	77,719	10	62,670	10	47,630	10	32,607	10	17,560	10	2,548	10		10		10		10	
1/4	77,405	1/4	62,356	1/4	47,317	1/4	32,294	1/4	17,247	1/4	2,264	1/4		1/4		1/4		1/4	
1/2	77,092	1/2	62,043	1/2	47,005	1/2	31,980	1/2	16,933	1/2	1,981	1/2		1/2		1/2		1/2	
3/4	76,778	3/4	61,729	3/4	46,692	3/4	31,667	3/4	16,620	3/4	1,697	3/4		3/4		3/4		3/4	
11	76,465	11	61,416	11	46,380	11	31,353	11	16,306	11	1,481	11		11		11		11	
1/4	76,151	1/4	61,102	1/4	46,067	1/4	31,039	1/4	15,993	1/4	1,266	1/4		1/4		1/4		1/4	
1/2	75,838	1/2	60,789	1/2	45,754	1/2	30,726	1/2	15,679	1/2	1,050	1/2		1/2		1/2		1/2	
3/4	75,524	3/4	60,475	3/4	45,442	3/4	30,412	3/4	15,366	3/4	835	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
CALCULATED: 10/02/2024 CL  
PRINTED: 10/02/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2024

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



# BARGE "HSM 4102"

## 3 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	192,743	0	181,480	0	170,310	0	159,109	0	147,907	0	133,807	0	118,875	0	103,939
1/4		1/4		1/4	192,505	1/4	181,247	1/4	170,077	1/4	158,876	1/4	147,675	1/4	133,496	1/4	118,564	1/4	103,628
1/2		1/2		1/2	192,268	1/2	181,014	1/2	169,844	1/2	158,643	1/2	147,442	1/2	133,185	1/2	118,253	1/2	103,316
3/4		3/4		3/4	192,030	3/4	180,782	3/4	169,612	3/4	158,409	3/4	147,210	3/4	132,874	3/4	117,942	3/4	103,005
1		1		1	191,791	1	180,549	1	169,379	1	158,176	1	146,977	1	132,563	1	117,631	1	102,693
1/4		1/4		1/4	191,553	1/4	180,316	1/4	169,146	1/4	157,942	1/4	146,745	1/4	132,252	1/4	117,320	1/4	102,382
1/2		1/2		1/2	191,314	1/2	180,083	1/2	168,913	1/2	157,709	1/2	146,513	1/2	131,940	1/2	117,009	1/2	102,070
3/4		3/4		3/4	191,075	3/4	179,851	3/4	168,681	3/4	157,475	3/4	146,280	3/4	131,629	3/4	116,698	3/4	101,759
2		2		2	190,837	2	179,618	2	168,447	2	157,242	2	145,994	2	131,318	2	116,387	2	101,447
1/4		1/4		1/4	190,598	1/4	179,385	1/4	168,214	1/4	157,008	1/4	145,708	1/4	131,007	1/4	116,076	1/4	101,136
1/2		1/2		1/2	190,359	1/2	179,153	1/2	167,981	1/2	156,775	1/2	145,421	1/2	130,696	1/2	115,764	1/2	100,824
3/4		3/4		3/4	190,120	3/4	178,920	3/4	167,748	3/4	156,541	3/4	145,135	3/4	130,385	3/4	115,453	3/4	100,513
3		3		3	189,881	3	178,687	3	167,514	3	156,308	3	144,831	3	130,074	3	115,142	3	100,201
1/4		1/4		1/4	189,643	1/4	178,454	1/4	167,281	1/4	156,074	1/4	144,527	1/4	129,763	1/4	114,831	1/4	99,890
1/2		1/2		1/2	189,404	1/2	178,222	1/2	167,047	1/2	155,841	1/2	144,223	1/2	129,452	1/2	114,520	1/2	99,578
3/4		3/4		3/4	189,165	3/4	177,989	3/4	166,814	3/4	155,607	3/4	143,919	3/4	129,141	3/4	114,209	3/4	99,267
4		4		4	188,931	4	177,756	4	166,580	4	155,374	4	143,614	4	128,830	4	113,898	4	98,955
1/4		1/4		1/4	188,697	1/4	177,524	1/4	166,347	1/4	155,141	1/4	143,310	1/4	128,519	1/4	113,587	1/4	98,644
1/2		1/2		1/2	188,462	1/2	177,291	1/2	166,113	1/2	154,907	1/2	143,006	1/2	128,208	1/2	113,276	1/2	98,332
3/4		3/4		3/4	188,228	3/4	177,058	3/4	165,880	3/4	154,674	3/4	142,702	3/4	127,896	3/4	112,965	3/4	98,021
5		5		5	187,995	5	176,825	5	165,646	5	154,440	5	142,397	5	127,585	5	112,654	5	97,710
1/4		1/4		1/4	187,763	1/4	176,593	1/4	165,413	1/4	154,207	1/4	142,092	1/4	127,274	1/4	112,343	1/4	97,398
1/2		1/2		1/2	187,530	1/2	176,360	1/2	165,180	1/2	153,973	1/2	141,787	1/2	126,963	1/2	112,032	1/2	97,087
3/4		3/4		3/4	187,297	3/4	176,127	3/4	164,946	3/4	153,740	3/4	141,482	3/4	126,652	3/4	111,720	3/4	96,776
6		6		6	187,065	6	175,895	6	164,713	6	153,506	6	141,177	6	126,341	6	111,409	6	96,464
1/4		1/4		1/4	186,832	1/4	175,662	1/4	164,479	1/4	153,273	1/4	140,872	1/4	126,030	1/4	111,098	1/4	96,153
1/2		1/2		1/2	186,599	1/2	175,429	1/2	164,246	1/2	153,039	1/2	140,567	1/2	125,719	1/2	110,787	1/2	95,842
3/4		3/4		3/4	186,366	3/4	175,197	3/4	164,012	3/4	152,806	3/4	140,262	3/4	125,408	3/4	110,476	3/4	95,531
7		7		7	186,134	7	174,964	7	163,779	7	152,572	7	139,957	7	125,097	7	110,165	7	95,219
1/4		1/4		1/4	185,901	1/4	174,731	1/4	163,545	1/4	152,339	1/4	139,652	1/4	124,786	1/4	109,854	1/4	94,908
1/2		1/2		1/2	185,668	1/2	174,498	1/2	163,312	1/2	152,105	1/2	139,347	1/2	124,475	1/2	109,543	1/2	94,597
3/4		3/4		3/4	195,651	3/4	185,436	3/4	174,266	3/4	163,078	3/4	151,872	3/4	139,042	3/4	124,164	3/4	94,286
8		8		8	195,557	8	185,203	8	174,033	8	162,845	8	151,639	8	138,736	8	123,852	8	93,974
1/4		1/4		1/4	195,463	1/4	184,970	1/4	173,800	1/4	162,611	1/4	151,405	1/4	138,431	1/4	123,541	1/4	93,663
1/2		1/2		1/2	195,369	1/2	184,738	1/2	173,568	1/2	162,378	1/2	151,172	1/2	138,126	1/2	123,230	1/2	93,352
3/4		3/4		3/4	195,275	3/4	184,505	3/4	173,335	3/4	162,144	3/4	150,938	3/4	137,821	3/4	122,919	3/4	93,041
9		9		9	195,129	9	184,272	9	173,102	9	161,911	9	150,705	9	137,516	9	122,608	9	92,730
1/4		1/4		1/4	194,983	1/4	184,039	1/4	172,869	1/4	161,678	1/4	150,471	1/4	137,211	1/4	122,297	1/4	92,418
1/2		1/2		1/2	194,837	1/2	183,807	1/2	172,637	1/2	161,444	1/2	150,238	1/2	136,906	1/2	121,986	1/2	92,107
3/4		3/4		3/4	194,691	3/4	183,574	3/4	172,404	3/4	161,211	3/4	150,004	3/4	136,601	3/4	121,675	3/4	91,796
10		10		10	194,493	10	183,341	10	172,171	10	160,977	10	149,771	10	136,291	10	121,364	10	91,485
1/4		1/4		1/4	194,295	1/4	183,109	1/4	171,939	1/4	160,744	1/4	149,537	1/4	135,982	1/4	121,053	1/4	91,173
1/2		1/2		1/2	194,097	1/2	182,876	1/2	171,706	1/2	160,510	1/2	149,304	1/2	135,672	1/2	120,742	1/2	90,862
3/4		3/4		3/4	193,899	3/4	182,643	3/4	171,473	3/4	160,277	3/4	149,070	3/4	135,362	3/4	120,431	3/4	90,551
11		11		11	193,669	11	182,410	11	171,241	11	160,043	11	148,838	11	135,051	11	120,120	11	90,240
1/4		1/4		1/4	193,440	1/4	182,178	1/4	171,008	1/4	159,810	1/4	148,605	1/4	134,740	1/4	119,808	1/4	89,928
1/2		1/2		1/2	193,210	1/2	181,945	1/2	170,775	1/2	159,576	1/2	148,372	1/2	134,429	1/2	119,497	1/2	89,617
3/4		3/4		3/4	192,981	3/4	181,712	3/4	170,542	3/4	159,343	3/4	148,140	3/4	134,118	3/4	119,186	3/4	89,306

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  
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# BARGE "HSM 4102"

## 3 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	88,995	0	74,065	0	59,189	0	44,678	0	29,932	0	14,976	0		0		0		0	
1/4	88,683	1/4	73,755	1/4	58,882	1/4	44,374	1/4	29,620	1/4	14,664	1/4		1/4		1/4		1/4	
1/2	88,372	1/2	73,446	1/2	58,576	1/2	44,071	1/2	29,308	1/2	14,352	1/2		1/2		1/2		1/2	
3/4	88,061	3/4	73,136	3/4	58,269	3/4	43,767	3/4	28,997	3/4	14,041	3/4		3/4		3/4		3/4	
1	87,749	1	72,826	1	57,964	1	43,463	1	28,686	1	13,729	1		1		1		1	
1/4	87,438	1/4	72,517	1/4	57,660	1/4	43,159	1/4	28,374	1/4	13,418	1/4		1/4		1/4		1/4	
1/2	87,126	1/2	72,207	1/2	57,355	1/2	42,854	1/2	28,063	1/2	13,106	1/2		1/2		1/2		1/2	
3/4	86,815	3/4	71,898	3/4	57,050	3/4	42,550	3/4	27,751	3/4	12,794	3/4		3/4		3/4		3/4	
2	86,503	2	71,588	2	56,747	2	42,246	2	27,440	2	12,483	2		2		2		2	
1/4	86,192	1/4	71,278	1/4	56,444	1/4	41,941	1/4	27,128	1/4	12,171	1/4		1/4		1/4		1/4	
1/2	85,880	1/2	70,969	1/2	56,142	1/2	41,637	1/2	26,817	1/2	11,859	1/2		1/2		1/2		1/2	
3/4	85,569	3/4	70,659	3/4	55,839	3/4	41,333	3/4	26,505	3/4	11,548	3/4		3/4		3/4		3/4	
3	85,257	3	70,350	3	55,538	3	41,028	3	26,194	3	11,236	3		3		3		3	
1/4	84,946	1/4	70,040	1/4	55,236	1/4	40,724	1/4	25,882	1/4	10,924	1/4		1/4		1/4		1/4	
1/2	84,634	1/2	69,730	1/2	54,934	1/2	40,420	1/2	25,571	1/2	10,612	1/2		1/2		1/2		1/2	
3/4	84,323	3/4	69,421	3/4	54,632	3/4	40,116	3/4	25,259	3/4	10,300	3/4		3/4		3/4		3/4	
4	84,011	4	69,111	4	54,330	4	39,811	4	24,947	4	9,988	4		4		4		4	
1/4	83,699	1/4	68,802	1/4	54,029	1/4	39,507	1/4	24,636	1/4	9,676	1/4		1/4		1/4		1/4	
1/2	83,388	1/2	68,492	1/2	53,727	1/2	39,203	1/2	24,324	1/2	9,364	1/2		1/2		1/2		1/2	
3/4	83,076	3/4	68,182	3/4	53,425	3/4	38,898	3/4	24,013	3/4	9,051	3/4		3/4		3/4		3/4	
5	82,765	5	67,873	5	53,123	5	38,594	5	23,701	5	8,739	5		5		5		5	
1/4	82,453	1/4	67,563	1/4	52,822	1/4	38,290	1/4	23,389	1/4	8,427	1/4		1/4		1/4		1/4	
1/2	82,142	1/2	67,254	1/2	52,520	1/2	37,985	1/2	23,078	1/2	8,116	1/2		1/2		1/2		1/2	
3/4	81,830	3/4	66,944	3/4	52,218	3/4	37,681	3/4	22,766	3/4	7,804	3/4		3/4		3/4		3/4	
6	81,519	6	66,634	6	51,916	6	37,377	6	22,454	6	7,492	6		6		6		6	
1/4	81,207	1/4	66,325	1/4	51,615	1/4	37,073	1/4	22,143	1/4	7,180	1/4		1/4		1/4		1/4	
1/2	80,895	1/2	66,015	1/2	51,313	1/2	36,768	1/2	21,831	1/2	6,868	1/2		1/2		1/2		1/2	
3/4	80,584	3/4	65,706	3/4	51,011	3/4	36,464	3/4	21,520	3/4	6,556	3/4		3/4		3/4		3/4	
7	80,272	7	65,396	7	50,709	7	36,155	7	21,208	7	6,245	7		7		7		7	
1/4	79,961	1/4	65,086	1/4	50,407	1/4	35,846	1/4	20,896	1/4	5,933	1/4		1/4		1/4		1/4	
1/2	79,649	1/2	64,777	1/2	50,106	1/2	35,537	1/2	20,585	1/2	5,621	1/2		1/2		1/2		1/2	
3/4	79,338	3/4	64,467	3/4	49,804	3/4	35,228	3/4	20,273	3/4	5,309	3/4		3/4		3/4		3/4	
8	79,026	8	64,158	8	49,502	8	34,916	8	19,962	8	4,997	8		8		8		8	
1/4	78,715	1/4	63,848	1/4	49,200	1/4	34,605	1/4	19,650	1/4	4,686	1/4		1/4		1/4		1/4	
1/2	78,403	1/2	63,538	1/2	48,899	1/2	34,294	1/2	19,338	1/2	4,374	1/2		1/2		1/2		1/2	
3/4	78,091	3/4	63,229	3/4	48,597	3/4	33,982	3/4	19,027	3/4	4,062	3/4		3/4		3/4		3/4	
9	77,781	9	62,918	9	48,295	9	33,671	9	18,715	9	3,751	9		9		9		9	
1/4	77,471	1/4	62,607	1/4	47,993	1/4	33,359	1/4	18,403	1/4	3,440	1/4		1/4		1/4		1/4	
1/2	77,161	1/2	62,296	1/2	47,692	1/2	33,048	1/2	18,092	1/2	3,130	1/2		1/2		1/2		1/2	
3/4	76,851	3/4	61,986	3/4	47,390	3/4	32,736	3/4	17,780	3/4	2,819	3/4		3/4		3/4		3/4	
10	76,541	10	61,674	10	47,089	10	32,424	10	17,469	10	2,536	10		10		10		10	
1/4	76,232	1/4	61,363	1/4	46,787	1/4	32,113	1/4	17,157	1/4	2,254	1/4		1/4		1/4		1/4	
1/2	75,922	1/2	61,052	1/2	46,486	1/2	31,801	1/2	16,845	1/2	1,971	1/2		1/2		1/2		1/2	
3/4	75,613	3/4	60,741	3/4	46,185	3/4	31,489	3/4	16,534	3/4	1,689	3/4		3/4		3/4		3/4	
11	75,303	11	60,429	11	45,884	11	31,178	11	16,222	11	1,474	11		11		11		11	
1/4	74,993	1/4	60,118	1/4	45,583	1/4	30,866	1/4	15,910	1/4	1,260	1/4		1/4		1/4		1/4	
1/2	74,684	1/2	59,807	1/2	45,282	1/2	30,555	1/2	15,599	1/2	1,045	1/2		1/2		1/2		1/2	
3/4	74,374	3/4	59,496	3/4	44,981	3/4	30,243	3/4	15,287	3/4	831	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
CALCULATED: 10/02/2024 CL  
PRINTED: 10/02/2024 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2024

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HSM 4102"

## 3 STBD ULLAGE 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		0		0	193,947	0	182,664	0	171,469	0	160,243	0	149,016	0	134,779	0	119,783	0	104,783
1/4		1/4		1/4	193,709	1/4	182,430	1/4	171,236	1/4	160,009	1/4	148,783	1/4	134,467	1/4	119,471	1/4	104,470
1/2		1/2		1/2	193,471	1/2	182,197	1/2	171,002	1/2	159,775	1/2	148,550	1/2	134,154	1/2	119,158	1/2	104,157
3/4		3/4		3/4	193,231	3/4	181,964	3/4	170,769	3/4	159,541	3/4	148,317	3/4	133,842	3/4	118,846	3/4	103,844
1		1		1	192,992	1	181,731	1	170,536	1	159,307	1	148,084	1	133,529	1	118,534	1	103,531
1/4		1/4		1/4	192,753	1/4	181,498	1/4	170,303	1/4	159,073	1/4	147,851	1/4	133,217	1/4	118,221	1/4	103,219
1/2		1/2		1/2	192,514	1/2	181,264	1/2	170,070	1/2	158,839	1/2	147,618	1/2	132,905	1/2	117,909	1/2	102,906
3/4		3/4		3/4	192,275	3/4	181,031	3/4	169,836	3/4	158,605	3/4	147,331	3/4	132,592	3/4	117,596	3/4	102,593
2		2		2	192,035	2	180,798	2	169,602	2	158,371	2	147,043	2	132,280	2	117,284	2	102,280
1/4		1/4		1/4	191,796	1/4	180,565	1/4	169,368	1/4	158,137	1/4	146,756	1/4	131,967	1/4	116,972	1/4	101,967
1/2		1/2		1/2	191,557	1/2	180,331	1/2	169,134	1/2	157,903	1/2	146,469	1/2	131,655	1/2	116,659	1/2	101,654
3/4		3/4		3/4	191,317	3/4	180,098	3/4	168,900	3/4	157,669	3/4	146,163	3/4	131,343	3/4	116,347	3/4	101,342
3		3		3	191,078	3	179,865	3	168,666	3	157,435	3	145,858	3	131,030	3	116,034	3	101,029
1/4		1/4		1/4	190,839	1/4	179,632	1/4	168,432	1/4	157,201	1/4	145,552	1/4	130,718	1/4	115,722	1/4	100,716
1/2		1/2		1/2	190,599	1/2	179,399	1/2	168,198	1/2	156,967	1/2	145,247	1/2	130,405	1/2	115,409	1/2	100,403
3/4		3/4		3/4	190,365	3/4	179,165	3/4	167,964	3/4	156,733	3/4	144,941	3/4	130,093	3/4	115,097	3/4	100,090
4		4		4	190,130	4	178,932	4	167,730	4	156,499	4	144,636	4	129,781	4	114,785	4	99,777
1/4		1/4		1/4	189,895	1/4	178,699	1/4	167,496	1/4	156,265	1/4	144,330	1/4	129,468	1/4	114,472	1/4	99,465
1/2		1/2		1/2	189,660	1/2	178,466	1/2	167,262	1/2	156,031	1/2	144,025	1/2	129,156	1/2	114,160	1/2	99,152
3/4		3/4		3/4	189,427	3/4	178,232	3/4	167,028	3/4	155,797	3/4	143,719	3/4	128,843	3/4	113,847	3/4	98,839
5		5		5	189,194	5	177,999	5	166,794	5	155,563	5	143,413	5	128,531	5	113,535	5	98,526
1/4		1/4		1/4	188,961	1/4	177,766	1/4	166,560	1/4	155,329	1/4	143,106	1/4	128,218	1/4	113,223	1/4	98,213
1/2		1/2		1/2	188,727	1/2	177,533	1/2	166,327	1/2	155,095	1/2	142,800	1/2	127,906	1/2	112,910	1/2	97,900
3/4		3/4		3/4	188,494	3/4	177,299	3/4	166,093	3/4	154,861	3/4	142,494	3/4	127,594	3/4	112,598	3/4	97,588
6		6		6	188,261	6	177,066	6	165,859	6	154,627	6	142,187	6	127,281	6	112,285	6	97,275
1/4		1/4		1/4	188,028	1/4	176,833	1/4	165,625	1/4	154,393	1/4	141,881	1/4	126,969	1/4	111,973	1/4	96,962
1/2		1/2		1/2	187,795	1/2	176,600	1/2	165,391	1/2	154,159	1/2	141,574	1/2	126,656	1/2	111,660	1/2	96,649
3/4		3/4		3/4	187,561	3/4	176,367	3/4	165,157	3/4	153,925	3/4	141,268	3/4	126,344	3/4	111,348	3/4	96,336
7		7		7	187,328	7	176,133	7	164,923	7	153,691	7	140,962	7	126,032	7	111,036	7	96,023
1/4		1/4		1/4	187,095	1/4	175,900	1/4	164,689	1/4	153,457	1/4	140,655	1/4	125,719	1/4	110,723	1/4	95,711
1/2		1/2		1/2	197,100	1/2	186,862	1/2	175,667	1/2	164,455	1/2	153,223	1/2	140,349	1/2	125,407	1/2	110,411
3/4		3/4		3/4	197,006	3/4	186,628	3/4	175,434	3/4	164,221	3/4	152,989	3/4	140,042	3/4	125,094	3/4	110,098
8		8		8	196,912	8	186,395	8	175,200	8	163,987	8	152,755	8	139,736	8	124,782	8	109,786
1/4		1/4		1/4	196,817	1/4	186,162	1/4	174,967	1/4	163,753	1/4	152,521	1/4	139,429	1/4	124,469	1/4	94,459
1/2		1/2		1/2	196,723	1/2	185,929	1/2	174,734	1/2	163,519	1/2	152,287	1/2	139,123	1/2	124,157	1/2	94,146
3/4		3/4		3/4	196,577	3/4	185,696	3/4	174,501	3/4	163,285	3/4	152,053	3/4	138,817	3/4	123,845	3/4	93,834
9		9		9	196,430	9	185,462	9	174,268	9	163,051	9	151,819	9	138,510	9	123,532	9	93,521
1/4		1/4		1/4	196,284	1/4	185,229	1/4	174,034	1/4	162,817	1/4	151,585	1/4	138,204	1/4	123,220	1/4	93,208
1/2		1/2		1/2	196,138	1/2	184,996	1/2	173,801	1/2	162,583	1/2	151,351	1/2	137,897	1/2	122,907	1/2	92,895
3/4		3/4		3/4	195,939	3/4	184,763	3/4	173,568	3/4	162,349	3/4	151,117	3/4	137,586	3/4	122,595	3/4	92,582
10		10		10	195,741	10	184,529	10	173,335	10	162,115	10	150,883	10	137,275	10	122,283	10	92,269
1/4		1/4		1/4	195,542	1/4	184,296	1/4	173,101	1/4	161,881	1/4	150,649	1/4	136,965	1/4	121,970	1/4	91,957
1/2		1/2		1/2	195,344	1/2	184,063	1/2	172,868	1/2	161,647	1/2	150,415	1/2	136,654	1/2	121,658	1/2	91,644
3/4		3/4		3/4	195,114	3/4	183,830	3/4	172,635	3/4	161,413	3/4	150,182	3/4	136,341	3/4	121,345	3/4	91,331
11		11		11	194,884	11	183,597	11	172,402	11	161,179	11	149,949	11	136,029	11	121,033	11	91,018
1/4		1/4		1/4	194,654	1/4	183,363	1/4	172,169	1/4	160,945	1/4	149,716	1/4	135,716	1/4	120,720	1/4	90,705
1/2		1/2		1/2	194,424	1/2	183,130	1/2	171,935	1/2	160,711	1/2	149,482	1/2	135,404	1/2	120,408	1/2	90,392
3/4		3/4		3/4	194,185	3/4	182,897	3/4	171,702	3/4	160,477	3/4	149,249	3/4	135,092	3/4	120,096	3/4	90,080

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 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 4102"

## 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	89,767	0	74,751	0	59,735	0	44,722	0	29,721	0	14,706	0		0		0		0	
1/4	89,454	1/4	74,438	1/4	59,422	1/4	44,409	1/4	29,409	1/4	14,393	1/4		1/4		1/4		1/4	
1/2	89,141	1/2	74,125	1/2	59,109	1/2	44,097	1/2	29,096	1/2	14,080	1/2		1/2		1/2		1/2	
3/4	88,828	3/4	73,812	3/4	58,797	3/4	43,785	3/4	28,783	3/4	13,767	3/4		3/4		3/4		3/4	
1	88,515	1	73,500	1	58,484	1	43,472	1	28,470	1	13,455	1		1		1		1	
1/4	88,203	1/4	73,187	1/4	58,171	1/4	43,160	1/4	28,157	1/4	13,142	1/4		1/4		1/4		1/4	
1/2	87,890	1/2	72,874	1/2	57,858	1/2	42,848	1/2	27,844	1/2	12,829	1/2		1/2		1/2		1/2	
3/4	87,577	3/4	72,561	3/4	57,545	3/4	42,535	3/4	27,532	3/4	12,516	3/4		3/4		3/4		3/4	
2	87,264	2	72,248	2	57,232	2	42,223	2	27,219	2	12,203	2		2		2		2	
1/4	86,951	1/4	71,935	1/4	56,920	1/4	41,911	1/4	26,906	1/4	11,891	1/4		1/4		1/4		1/4	
1/2	86,638	1/2	71,623	1/2	56,607	1/2	41,598	1/2	26,593	1/2	11,578	1/2		1/2		1/2		1/2	
3/4	86,326	3/4	71,310	3/4	56,294	3/4	41,286	3/4	26,280	3/4	11,265	3/4		3/4		3/4		3/4	
3	86,013	3	70,997	3	55,981	3	40,974	3	25,968	3	10,952	3		3		3		3	
1/4	85,700	1/4	70,684	1/4	55,668	1/4	40,661	1/4	25,655	1/4	10,639	1/4		1/4		1/4		1/4	
1/2	85,387	1/2	70,371	1/2	55,355	1/2	40,349	1/2	25,342	1/2	10,326	1/2		1/2		1/2		1/2	
3/4	85,074	3/4	70,058	3/4	55,043	3/4	40,037	3/4	25,029	3/4	10,014	3/4		3/4		3/4		3/4	
4	84,762	4	69,746	4	54,730	4	39,724	4	24,716	4	9,701	4		4		4		4	
1/4	84,449	1/4	69,433	1/4	54,417	1/4	39,412	1/4	24,403	1/4	9,388	1/4		1/4		1/4		1/4	
1/2	84,136	1/2	69,120	1/2	54,104	1/2	39,100	1/2	24,091	1/2	9,075	1/2		1/2		1/2		1/2	
3/4	83,823	3/4	68,807	3/4	53,791	3/4	38,787	3/4	23,778	3/4	8,762	3/4		3/4		3/4		3/4	
5	83,510	5	68,494	5	53,478	5	38,475	5	23,465	5	8,449	5		5		5		5	
1/4	83,197	1/4	68,181	1/4	53,166	1/4	38,163	1/4	23,152	1/4	8,137	1/4		1/4		1/4		1/4	
1/2	82,885	1/2	67,869	1/2	52,853	1/2	37,850	1/2	22,839	1/2	7,824	1/2		1/2		1/2		1/2	
3/4	82,572	3/4	67,556	3/4	52,540	3/4	37,538	3/4	22,526	3/4	7,511	3/4		3/4		3/4		3/4	
6	82,259	6	67,243	6	52,227	6	37,226	6	22,214	6	7,198	6		6		6		6	
1/4	81,946	1/4	66,930	1/4	51,914	1/4	36,913	1/4	21,901	1/4	6,885	1/4		1/4		1/4		1/4	
1/2	81,633	1/2	66,617	1/2	51,601	1/2	36,601	1/2	21,588	1/2	6,573	1/2		1/2		1/2		1/2	
3/4	81,320	3/4	66,304	3/4	51,289	3/4	36,289	3/4	21,275	3/4	6,260	3/4		3/4		3/4		3/4	
7	81,008	7	65,992	7	50,976	7	35,976	7	20,962	7	5,947	7		7		7		7	
1/4	80,695	1/4	65,679	1/4	50,663	1/4	35,664	1/4	20,650	1/4	5,634	1/4		1/4		1/4		1/4	
1/2	80,382	1/2	65,366	1/2	50,350	1/2	35,352	1/2	20,337	1/2	5,321	1/2		1/2		1/2		1/2	
3/4	80,069	3/4	65,053	3/4	50,037	3/4	35,039	3/4	20,024	3/4	5,009	3/4		3/4		3/4		3/4	
8	79,756	8	64,740	8	49,724	8	34,726	8	19,711	8	4,696	8		8		8		8	
1/4	79,443	1/4	64,427	1/4	49,412	1/4	34,414	1/4	19,398	1/4	4,384	1/4		1/4		1/4		1/4	
1/2	79,131	1/2	64,115	1/2	49,099	1/2	34,101	1/2	19,085	1/2	4,072	1/2		1/2		1/2		1/2	
3/4	78,818	3/4	63,802	3/4	48,786	3/4	33,788	3/4	18,773	3/4	3,760	3/4		3/4		3/4		3/4	
9	78,505	9	63,489	9	48,473	9	33,475	9	18,460	9	3,448	9		9		9		9	
1/4	78,192	1/4	63,176	1/4	48,160	1/4	33,162	1/4	18,147	1/4	3,137	1/4		1/4		1/4		1/4	
1/2	77,879	1/2	62,863	1/2	47,847	1/2	32,850	1/2	17,834	1/2	2,825	1/2		1/2		1/2		1/2	
3/4	77,566	3/4	62,550	3/4	47,535	3/4	32,537	3/4	17,521	3/4	2,514	3/4		3/4		3/4		3/4	
10	77,254	10	62,238	10	47,222	10	32,224	10	17,209	10	2,259	10		10		10		10	
1/4	76,941	1/4	61,925	1/4	46,910	1/4	31,911	1/4	16,896	1/4	1,976	1/4		1/4		1/4		1/4	
1/2	76,628	1/2	61,612	1/2	46,597	1/2	31,598	1/2	16,583	1/2	1,693	1/2		1/2		1/2		1/2	
3/4	76,315	3/4	61,299	3/4	46,284	3/4	31,285	3/4	16,270	3/4	1,478	3/4		3/4		3/4		3/4	
11	76,002	11	60,986	11	45,972	11	30,973	11	15,957	11	1,263	11		11		11		11	
1/4	75,689	1/4	60,674	1/4	45,659	1/4	30,660	1/4	15,644	1/4	1,048	1/4		1/4		1/4		1/4	
1/2	75,377	1/2	60,361	1/2	45,347	1/2	30,347	1/2	15,332	1/2	833	1/2		1/2		1/2		1/2	
3/4	75,064	3/4	60,048	3/4	45,034	3/4	30,034	3/4	15,019	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/01/2024 CL  
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CANCELS AND SUPERCEDES  
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