



# BARGE "HSM 3002"

## 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	- 00-0/8	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
1 STBD	- 00-0/8	00-0/8	- 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
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 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 = 4'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 2, 2016

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

<http://www.pmacorp.net>



# BARGE "HSM 3002"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	200,478	0	185,503	0	170,512	0	155,490	0	140,468	0	125,446	0	110,424	0	95,397
1/4		1/4		1/4	200,167	1/4	185,191	1/4	170,199	1/4	155,177	1/4	140,155	1/4	125,133	1/4	110,111	1/4	95,084
1/2		1/2		1/2	199,856	1/2	184,879	1/2	169,886	1/2	154,864	1/2	139,842	1/2	124,820	1/2	109,798	1/2	94,771
3/4		3/4		3/4	199,545	3/4	184,567	3/4	169,573	3/4	154,551	3/4	139,529	3/4	124,507	3/4	109,485	3/4	94,458
1		1		1	199,233	1	184,255	1	169,260	1	154,238	1	139,216	1	124,194	1	109,172	1	94,145
1/4		1/4		1/4	198,921	1/4	183,943	1/4	168,947	1/4	153,925	1/4	138,903	1/4	123,881	1/4	108,859	1/4	93,831
1/2		1/2		1/2	198,609	1/2	183,631	1/2	168,634	1/2	153,612	1/2	138,590	1/2	123,568	1/2	108,546	1/2	93,518
3/4		3/4		3/4	198,297	3/4	183,319	3/4	168,321	3/4	153,299	3/4	138,277	3/4	123,255	3/4	108,233	3/4	93,205
2		2		2	197,985	2	183,007	2	168,008	2	152,986	2	137,964	2	122,942	2	107,920	2	92,892
1/4		1/4		1/4	197,673	1/4	182,695	1/4	167,695	1/4	152,673	1/4	137,651	1/4	122,629	1/4	107,607	1/4	92,579
1/2		1/2		1/2	197,361	1/2	182,383	1/2	167,382	1/2	152,360	1/2	137,338	1/2	122,316	1/2	107,294	1/2	92,266
3/4		3/4	210,976	3/4	197,049	3/4	182,071	3/4	167,069	3/4	152,047	3/4	137,025	3/4	122,003	3/4	106,981	3/4	91,953
3		3	210,796	3	196,737	3	181,759	3	166,756	3	151,734	3	136,712	3	121,690	3	106,668	3	91,640
1/4		1/4	210,617	1/4	196,425	1/4	181,447	1/4	166,443	1/4	151,421	1/4	136,399	1/4	121,378	1/4	106,355	1/4	91,327
1/2		1/2	210,437	1/2	196,113	1/2	181,135	1/2	166,130	1/2	151,108	1/2	136,086	1/2	121,065	1/2	106,042	1/2	91,014
3/4		3/4	210,258	3/4	195,801	3/4	180,823	3/4	165,817	3/4	150,795	3/4	135,773	3/4	120,752	3/4	105,729	3/4	90,701
4		4	210,026	4	195,489	4	180,511	4	165,504	4	150,482	4	135,461	4	120,439	4	105,416	4	90,387
1/4		1/4	209,794	1/4	195,177	1/4	180,199	1/4	165,191	1/4	150,169	1/4	135,148	1/4	120,126	1/4	105,103	1/4	90,074
1/2		1/2	209,562	1/2	194,865	1/2	179,886	1/2	164,878	1/2	149,856	1/2	134,835	1/2	119,813	1/2	104,790	1/2	89,761
3/4		3/4	209,331	3/4	194,552	3/4	179,574	3/4	164,565	3/4	149,543	3/4	134,522	3/4	119,500	3/4	104,477	3/4	89,448
5		5	209,050	5	194,240	5	179,262	5	164,252	5	149,231	5	134,209	5	119,187	5	104,163	5	89,135
1/4		1/4	208,770	1/4	193,928	1/4	178,950	1/4	163,939	1/4	148,918	1/4	133,896	1/4	118,874	1/4	103,850	1/4	88,822
1/2		1/2	208,490	1/2	193,616	1/2	178,638	1/2	163,626	1/2	148,605	1/2	133,583	1/2	118,561	1/2	103,537	1/2	88,509
3/4		3/4	208,210	3/4	193,304	3/4	178,326	3/4	163,314	3/4	148,292	3/4	133,270	3/4	118,248	3/4	103,224	3/4	88,196
6		6	207,904	6	192,992	6	178,014	6	163,001	6	147,979	6	132,957	6	117,935	6	102,911	6	87,883
1/4		1/4	207,598	1/4	192,680	1/4	177,702	1/4	162,688	1/4	147,666	1/4	132,644	1/4	117,622	1/4	102,598	1/4	87,570
1/2		1/2	207,292	1/2	192,368	1/2	177,390	1/2	162,375	1/2	147,353	1/2	132,331	1/2	117,309	1/2	102,285	1/2	87,257
3/4		3/4	206,987	3/4	192,056	3/4	177,078	3/4	162,062	3/4	147,040	3/4	132,018	3/4	116,996	3/4	101,972	3/4	86,943
7		7	206,677	7	191,744	7	176,766	7	161,749	7	146,727	7	131,705	7	116,683	7	101,659	7	86,630
1/4		1/4	206,367	1/4	191,432	1/4	176,454	1/4	161,436	1/4	146,414	1/4	131,392	1/4	116,370	1/4	101,346	1/4	86,317
1/2		1/2	206,058	1/2	191,120	1/2	176,142	1/2	161,123	1/2	146,101	1/2	131,079	1/2	116,057	1/2	101,033	1/2	86,004
3/4		3/4	205,748	3/4	190,808	3/4	175,830	3/4	160,810	3/4	145,788	3/4	130,766	3/4	115,744	3/4	100,719	3/4	85,691
8		8	205,438	8	190,496	8	175,517	8	160,497	8	145,475	8	130,453	8	115,431	8	100,406	8	85,378
1/4		1/4	205,129	1/4	190,184	1/4	175,205	1/4	160,184	1/4	145,162	1/4	130,140	1/4	115,118	1/4	100,093	1/4	85,065
1/2		1/2	204,819	1/2	189,872	1/2	174,892	1/2	159,871	1/2	144,849	1/2	129,827	1/2	114,805	1/2	99,780	1/2	84,752
3/4		3/4	204,509	3/4	189,560	3/4	174,580	3/4	159,558	3/4	144,536	3/4	129,514	3/4	114,493	3/4	99,467	3/4	84,439
9		9	204,199	9	189,248	9	174,267	9	159,245	9	144,223	9	129,201	9	114,180	9	99,154	9	84,126
1/4		1/4	203,889	1/4	188,936	1/4	173,954	1/4	158,932	1/4	143,910	1/4	128,888	1/4	113,867	1/4	98,841	1/4	83,813
1/2		1/2	203,579	1/2	188,624	1/2	173,641	1/2	158,619	1/2	143,597	1/2	128,575	1/2	113,554	1/2	98,528	1/2	83,499
3/4		3/4	203,269	3/4	188,312	3/4	173,328	3/4	158,306	3/4	143,284	3/4	128,263	3/4	113,241	3/4	98,215	3/4	83,186
10		10	202,959	10	188,000	10	173,015	10	157,993	10	142,971	10	127,950	10	112,928	10	97,902	10	82,873
1/4		1/4	202,649	1/4	187,688	1/4	172,702	1/4	157,680	1/4	142,658	1/4	127,637	1/4	112,615	1/4	97,589	1/4	82,560
1/2		1/2	202,339	1/2	187,375	1/2	172,389	1/2	157,367	1/2	142,346	1/2	127,324	1/2	112,302	1/2	97,275	1/2	82,247
3/4		3/4	202,029	3/4	187,063	3/4	172,076	3/4	157,054	3/4	142,033	3/4	127,011	3/4	111,989	3/4	96,962	3/4	81,934
11		11	201,719	11	186,751	11	171,763	11	156,741	11	141,720	11	126,698	11	111,676	11	96,649	11	81,621
1/4		1/4	201,409	1/4	186,439	1/4	171,450	1/4	156,429	1/4	141,407	1/4	126,385	1/4	111,363	1/4	96,336	1/4	81,308
1/2		1/2	201,099	1/2	186,127	1/2	171,137	1/2	156,116	1/2	141,094	1/2	126,072	1/2	111,050	1/2	96,023	1/2	80,995
3/4		3/4	200,789	3/4	185,815	3/4	170,824	3/4	155,803	3/4	140,781	3/4	125,759	3/4	110,737	3/4	95,710	3/4	80,682

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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# BARGE "HSM 3002"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	80,369	0	65,340	0	50,409	0	35,389	0	20,361	0	6,069	0		0		0		0	
1/4	80,055	1/4	65,027	1/4	50,098	1/4	35,076	1/4	20,048	1/4	5,794	1/4		1/4		1/4		1/4	
1/2	79,742	1/2	64,715	1/2	49,786	1/2	34,762	1/2	19,735	1/2	5,520	1/2		1/2		1/2		1/2	
3/4	79,429	3/4	64,402	3/4	49,474	3/4	34,449	3/4	19,421	3/4	5,245	3/4		3/4		3/4		3/4	
1	79,116	1	64,090	1	49,162	1	34,136	1	19,108	1	4,975	1		1		1		1	
1/4	78,803	1/4	63,778	1/4	48,850	1/4	33,823	1/4	18,795	1/4	4,704	1/4		1/4		1/4		1/4	
1/2	78,490	1/2	63,466	1/2	48,537	1/2	33,510	1/2	18,482	1/2	4,433	1/2		1/2		1/2		1/2	
3/4	78,177	3/4	63,154	3/4	48,225	3/4	33,197	3/4	18,169	3/4	4,163	3/4		3/4		3/4		3/4	
2	77,864	2	62,843	2	47,912	2	32,884	2	17,857	2	3,896	2		2		2		2	
1/4	77,551	1/4	62,533	1/4	47,599	1/4	32,571	1/4	17,545	1/4	3,629	1/4		1/4		1/4		1/4	
1/2	77,238	1/2	62,222	1/2	47,286	1/2	32,258	1/2	17,233	1/2	3,363	1/2		1/2		1/2		1/2	
3/4	76,925	3/4	61,911	3/4	46,973	3/4	31,945	3/4	16,921	3/4	3,096	3/4		3/4		3/4		3/4	
3	76,611	3	61,600	3	46,660	3	31,632	3	16,611	3	2,834	3		3		3		3	
1/4	76,298	1/4	61,289	1/4	46,346	1/4	31,319	1/4	16,303	1/4	2,572	1/4		1/4		1/4		1/4	
1/2	75,985	1/2	60,978	1/2	46,033	1/2	31,005	1/2	15,992	1/2	2,310	1/2		1/2		1/2		1/2	
3/4	75,672	3/4	60,668	3/4	45,720	3/4	30,692	3/4	15,684	3/4	2,048	3/4		3/4		3/4		3/4	
4	75,359	4	60,357	4	45,407	4	30,379	4	15,378	4	1,810	4		4		4		4	
1/4	75,046	1/4	60,046	1/4	45,094	1/4	30,066	1/4	15,073	1/4	1,571	1/4		1/4		1/4		1/4	
1/2	74,733	1/2	59,735	1/2	44,781	1/2	29,753	1/2	14,768	1/2	1,332	1/2		1/2		1/2		1/2	
3/4	74,420	3/4	59,425	3/4	44,468	3/4	29,440	3/4	14,462	3/4	1,093	3/4		3/4		3/4		3/4	
5	74,107	5	59,114	5	44,155	5	29,127	5	14,161	5	916	5		5		5		5	
1/4	73,794	1/4	58,803	1/4	43,842	1/4	28,814	1/4	13,859	1/4	739	1/4		1/4		1/4		1/4	
1/2	73,481	1/2	58,493	1/2	43,529	1/2	28,501	1/2	13,558	1/2	562	1/2		1/2		1/2		1/2	
3/4	73,167	3/4	58,182	3/4	43,216	3/4	28,188	3/4	13,256	3/4	385	3/4		3/4		3/4		3/4	
6	72,854	6	57,871	6	42,903	6	27,875	6	12,959	6		6		6		6		6	
1/4	72,541	1/4	57,560	1/4	42,589	1/4	27,562	1/4	12,661	1/4		1/4		1/4		1/4		1/4	
1/2	72,228	1/2	57,250	1/2	42,276	1/2	27,248	1/2	12,363	1/2		1/2		1/2		1/2		1/2	
3/4	71,915	3/4	56,939	3/4	41,963	3/4	26,935	3/4	12,066	3/4		3/4		3/4		3/4		3/4	
7	71,602	7	56,628	7	41,650	7	26,622	7	11,772	7		7		7		7		7	
1/4	71,289	1/4	56,318	1/4	41,337	1/4	26,309	1/4	11,478	1/4		1/4		1/4		1/4		1/4	
1/2	70,976	1/2	56,007	1/2	41,024	1/2	25,996	1/2	11,184	1/2		1/2		1/2		1/2		1/2	
3/4	70,663	3/4	55,696	3/4	40,711	3/4	25,683	3/4	10,890	3/4		3/4		3/4		3/4		3/4	
8	70,350	8	55,385	8	40,398	8	25,370	8	10,600	8		8		8		8		8	
1/4	70,037	1/4	55,075	1/4	40,085	1/4	25,057	1/4	10,310	1/4		1/4		1/4		1/4		1/4	
1/2	69,723	1/2	54,764	1/2	39,772	1/2	24,744	1/2	10,020	1/2		1/2		1/2		1/2		1/2	
3/4	69,410	3/4	54,453	3/4	39,459	3/4	24,431	3/4	9,730	3/4		3/4		3/4		3/4		3/4	
9	69,097	9	54,143	9	39,146	9	24,118	9	9,444	9		9		9		9		9	
1/4	68,784	1/4	53,832	1/4	38,832	1/4	23,805	1/4	9,158	1/4		1/4		1/4		1/4		1/4	
1/2	68,471	1/2	53,521	1/2	38,519	1/2	23,492	1/2	8,872	1/2		1/2		1/2		1/2		1/2	
3/4	68,158	3/4	53,210	3/4	38,206	3/4	23,178	3/4	8,586	3/4		3/4		3/4		3/4		3/4	
10	67,845	10	52,899	10	37,893	10	22,865	10	8,304	10		10		10		10		10	
1/4	67,532	1/4	52,588	1/4	37,580	1/4	22,552	1/4	8,022	1/4		1/4		1/4		1/4		1/4	
1/2	67,219	1/2	52,278	1/2	37,267	1/2	22,239	1/2	7,739	1/2		1/2		1/2		1/2		1/2	
3/4	66,906	3/4	51,967	3/4	36,954	3/4	21,926	3/4	7,457	3/4		3/4		3/4		3/4		3/4	
11	66,593	11	51,655	11	36,641	11	21,613	11	7,179	11		11		11		11		11	
1/4	66,280	1/4	51,344	1/4	36,328	1/4	21,300	1/4	6,900	1/4		1/4		1/4		1/4		1/4	
1/2	65,966	1/2	51,032	1/2	36,015	1/2	20,987	1/2	6,622	1/2		1/2		1/2		1/2		1/2	
3/4	65,653	3/4	50,721	3/4	35,702	3/4	20,674	3/4	6,343	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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



# BARGE "HSM 3002"

# 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	200,107	0	185,143	0	170,162	0	155,152	0	140,141	0	125,131	0	110,121	0	95,106
1/4		1/4		1/4	199,797	1/4	184,831	1/4	169,849	1/4	154,839	1/4	139,829	1/4	124,819	1/4	109,809	1/4	94,793
1/2		1/2		1/2	199,486	1/2	184,519	1/2	169,537	1/2	154,526	1/2	139,516	1/2	124,506	1/2	109,496	1/2	94,480
3/4		3/4		3/4	199,174	3/4	184,208	3/4	169,224	3/4	154,214	3/4	139,203	3/4	124,193	3/4	109,183	3/4	94,167
1		1		1	198,862	1	183,896	1	168,911	1	153,901	1	138,891	1	123,881	1	108,870	1	93,855
1/4		1/4		1/4	198,551	1/4	183,584	1/4	168,598	1/4	153,588	1/4	138,578	1/4	123,568	1/4	108,558	1/4	93,542
1/2		1/2		1/2	198,239	1/2	183,272	1/2	168,286	1/2	153,275	1/2	138,265	1/2	123,255	1/2	108,245	1/2	93,229
3/4		3/4		3/4	197,927	3/4	182,960	3/4	167,973	3/4	152,963	3/4	137,952	3/4	122,942	3/4	107,932	3/4	92,916
2		2		2	197,615	2	182,649	2	167,660	2	152,650	2	137,640	2	122,630	2	107,620	2	92,603
1/4		1/4		1/4	197,303	1/4	182,337	1/4	167,348	1/4	152,337	1/4	137,327	1/4	122,317	1/4	107,307	1/4	92,290
1/2		1/2	210,908	1/2	196,992	1/2	182,025	1/2	167,035	1/2	152,025	1/2	137,014	1/2	122,004	1/2	106,994	1/2	91,977
3/4		3/4	210,729	3/4	196,680	3/4	181,713	3/4	166,722	3/4	151,712	3/4	136,702	3/4	121,692	3/4	106,681	3/4	91,665
3		3	210,549	3	196,368	3	181,401	3	166,409	3	151,399	3	136,389	3	121,379	3	106,368	3	91,352
1/4		1/4	210,370	1/4	196,056	1/4	181,090	1/4	166,097	1/4	151,086	1/4	136,076	1/4	121,066	1/4	106,055	1/4	91,039
1/2		1/2	210,190	1/2	195,744	1/2	180,778	1/2	165,784	1/2	150,774	1/2	135,763	1/2	120,753	1/2	105,743	1/2	90,726
3/4		3/4	209,959	3/4	195,433	3/4	180,466	3/4	165,471	3/4	150,461	3/4	135,451	3/4	120,441	3/4	105,430	3/4	90,413
4		4	209,727	4	195,121	4	180,154	4	165,159	4	150,148	4	135,138	4	120,128	4	105,117	4	90,100
1/4		1/4	209,495	1/4	194,809	1/4	179,842	1/4	164,846	1/4	149,836	1/4	134,825	1/4	119,815	1/4	104,804	1/4	89,788
1/2		1/2	209,264	1/2	194,497	1/2	179,531	1/2	164,533	1/2	149,523	1/2	134,513	1/2	119,503	1/2	104,491	1/2	89,475
3/4		3/4	208,984	3/4	194,185	3/4	179,219	3/4	164,220	3/4	149,210	3/4	134,200	3/4	119,190	3/4	104,178	3/4	89,162
5		5	208,704	5	193,874	5	178,907	5	163,908	5	148,897	5	133,887	5	118,877	5	103,866	5	88,849
1/4		1/4	208,424	1/4	193,562	1/4	178,595	1/4	163,595	1/4	148,585	1/4	133,574	1/4	118,864	1/4	103,853	1/4	88,836
1/2		1/2	208,144	1/2	193,250	1/2	178,283	1/2	163,282	1/2	148,272	1/2	133,262	1/2	118,852	1/2	103,840	1/2	88,823
3/4		3/4	207,838	3/4	192,938	3/4	177,972	3/4	162,970	3/4	147,959	3/4	132,949	3/4	117,939	3/4	102,927	3/4	87,910
6		6	207,533	6	192,626	6	177,660	6	162,657	6	147,647	6	132,636	6	117,626	6	102,614	6	87,598
1/4		1/4	207,227	1/4	192,315	1/4	177,348	1/4	162,344	1/4	147,334	1/4	132,324	1/4	117,314	1/4	102,301	1/4	87,285
1/2		1/2	206,922	1/2	192,003	1/2	177,036	1/2	162,031	1/2	147,021	1/2	132,011	1/2	117,001	1/2	101,988	1/2	86,972
3/4		3/4	206,612	3/4	191,691	3/4	176,724	3/4	161,719	3/4	146,708	3/4	131,698	3/4	116,688	3/4	101,676	3/4	86,659
7		7	206,303	7	191,379	7	176,413	7	161,406	7	146,396	7	131,386	7	116,375	7	101,363	7	86,346
1/4		1/4	205,994	1/4	191,067	1/4	176,101	1/4	161,093	1/4	146,083	1/4	131,073	1/4	116,063	1/4	101,050	1/4	86,033
1/2		1/2	205,684	1/2	190,755	1/2	175,789	1/2	160,781	1/2	145,770	1/2	130,760	1/2	115,750	1/2	100,737	1/2	85,721
3/4		3/4	205,375	3/4	190,444	3/4	175,477	3/4	160,468	3/4	145,458	3/4	130,447	3/4	115,437	3/4	100,424	3/4	85,408
8		8	205,065	8	190,132	8	175,164	8	160,155	8	145,145	8	130,135	8	115,125	8	100,111	8	85,095
1/4		1/4	204,755	1/4	189,820	1/4	174,852	1/4	159,842	1/4	144,832	1/4	129,822	1/4	114,812	1/4	99,799	1/4	84,782
1/2		1/2	204,446	1/2	189,508	1/2	174,540	1/2	159,530	1/2	144,519	1/2	129,509	1/2	114,499	1/2	99,486	1/2	84,469
3/4		3/4	204,136	3/4	189,196	3/4	174,227	3/4	159,217	3/4	144,207	3/4	129,197	3/4	114,187	3/4	99,173	3/4	84,156
9		9	203,826	9	188,885	9	173,915	9	158,904	9	143,894	9	128,884	9	113,874	9	98,860	9	83,843
1/4		1/4	203,516	1/4	188,573	1/4	173,602	1/4	158,592	1/4	143,581	1/4	128,571	1/4	113,561	1/4	98,547	1/4	83,531
1/2		1/2	203,206	1/2	188,261	1/2	173,289	1/2	158,279	1/2	143,269	1/2	128,258	1/2	113,248	1/2	98,234	1/2	83,218
3/4		3/4	202,897	3/4	187,949	3/4	172,976	3/4	157,966	3/4	142,956	3/4	127,946	3/4	112,936	3/4	97,921	3/4	82,905
10		10	202,587	10	187,637	10	172,664	10	157,653	10	142,643	10	127,633	10	112,623	10	97,609	10	82,592
1/4		1/4	202,277	1/4	187,326	1/4	172,351	1/4	157,341	1/4	142,330	1/4	127,320	1/4	112,310	1/4	97,296	1/4	82,279
1/2		1/2	201,968	1/2	187,014	1/2	172,038	1/2	157,028	1/2	142,018	1/2	127,008	1/2	111,998	1/2	96,983	1/2	81,966
3/4		3/4	201,658	3/4	186,702	3/4	171,726	3/4	156,715	3/4	141,705	3/4	126,695	3/4	111,685	3/4	96,670	3/4	81,654
11		11	201,348	11	186,390	11	171,413	11	156,403	11	141,392	11	126,382	11	111,372	11	96,357	11	81,341
1/4		1/4	201,039	1/4	186,078	1/4	171,100	1/4	156,090	1/4	141,080	1/4	126,069	1/4	111,059	1/4	96,044	1/4	81,028
1/2		1/2	200,729	1/2	185,767	1/2	170,787	1/2	155,777	1/2	140,767	1/2	125,757	1/2	110,747	1/2	95,732	1/2	80,715
3/4		3/4	200,418	3/4	185,455	3/4	170,475	3/4	155,464	3/4	140,454	3/4	125,444	3/4	110,434	3/4	95,419	3/4	80,402

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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





# BARGE "HSM 3002"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	80,089	0	65,073	0	50,064	0	35,048	0	20,032	0	5,790	0		0		0		0	
1/4	79,777	1/4	64,760	1/4	49,751	1/4	34,735	1/4	19,719	1/4	5,515	1/4		1/4		1/4		1/4	
1/2	79,464	1/2	64,447	1/2	49,438	1/2	34,422	1/2	19,406	1/2	5,241	1/2		1/2		1/2		1/2	
3/4	79,151	3/4	64,134	3/4	49,125	3/4	34,109	3/4	19,093	3/4	4,970	3/4		3/4		3/4		3/4	
1	78,838	1	63,821	1	48,812	1	33,796	1	18,780	1	4,700	1		1		1		1	
1/4	78,525	1/4	63,509	1/4	48,500	1/4	33,483	1/4	18,467	1/4	4,430	1/4		1/4		1/4		1/4	
1/2	78,212	1/2	63,196	1/2	48,187	1/2	33,171	1/2	18,155	1/2	4,159	1/2		1/2		1/2		1/2	
3/4	77,899	3/4	62,883	3/4	47,874	3/4	32,858	3/4	17,843	3/4	3,893	3/4		3/4		3/4		3/4	
2	77,587	2	62,570	2	47,561	2	32,545	2	17,531	2	3,626	2		2		2		2	
1/4	77,274	1/4	62,257	1/4	47,248	1/4	32,232	1/4	17,219	1/4	3,360	1/4		1/4		1/4		1/4	
1/2	76,961	1/2	61,945	1/2	46,935	1/2	31,919	1/2	16,907	1/2	3,094	1/2		1/2		1/2		1/2	
3/4	76,648	3/4	61,632	3/4	46,623	3/4	31,606	3/4	16,598	3/4	2,832	3/4		3/4		3/4		3/4	
3	76,335	3	61,319	3	46,310	3	31,294	3	16,289	3	2,570	3		3		3		3	
1/4	76,022	1/4	61,007	1/4	45,997	1/4	30,981	1/4	15,980	1/4	2,308	1/4		1/4		1/4		1/4	
1/2	75,710	1/2	60,694	1/2	45,684	1/2	30,668	1/2	15,671	1/2	2,046	1/2		1/2		1/2		1/2	
3/4	75,397	3/4	60,381	3/4	45,371	3/4	30,355	3/4	15,366	3/4	1,808	3/4		3/4		3/4		3/4	
4	75,084	4	60,069	4	45,058	4	30,042	4	15,061	4	1,569	4		4		4		4	
1/4	74,771	1/4	59,756	1/4	44,746	1/4	29,729	1/4	14,756	1/4	1,331	1/4		1/4		1/4		1/4	
1/2	74,458	1/2	59,443	1/2	44,433	1/2	29,417	1/2	14,451	1/2	1,092	1/2		1/2		1/2		1/2	
3/4	74,145	3/4	59,131	3/4	44,120	3/4	29,104	3/4	14,149	3/4	915	3/4		3/4		3/4		3/4	
5	73,832	5	58,818	5	43,807	5	28,791	5	13,848	5	739	5		5		5		5	
1/4	73,520	1/4	58,506	1/4	43,494	1/4	28,478	1/4	13,547	1/4	562	1/4		1/4		1/4		1/4	
1/2	73,207	1/2	58,193	1/2	43,181	1/2	28,165	1/2	13,245	1/2	385	1/2		1/2		1/2		1/2	
3/4	72,894	3/4	57,880	3/4	42,869	3/4	27,852	3/4	12,948	3/4		3/4		3/4		3/4		3/4	
6	72,581	6	57,568	6	42,556	6	27,540	6	12,651	6		6		6		6		6	
1/4	72,268	1/4	57,255	1/4	42,243	1/4	27,227	1/4	12,353	1/4		1/4		1/4		1/4		1/4	
1/2	71,955	1/2	56,943	1/2	41,930	1/2	26,914	1/2	12,056	1/2		1/2		1/2		1/2		1/2	
3/4	71,643	3/4	56,630	3/4	41,617	3/4	26,601	3/4	11,762	3/4		3/4		3/4		3/4		3/4	
7	71,330	7	56,317	7	41,304	7	26,288	7	11,469	7		7		7		7		7	
1/4	71,017	1/4	56,005	1/4	40,992	1/4	25,975	1/4	11,175	1/4		1/4		1/4		1/4		1/4	
1/2	70,704	1/2	55,692	1/2	40,679	1/2	25,663	1/2	10,881	1/2		1/2		1/2		1/2		1/2	
3/4	70,391	3/4	55,379	3/4	40,366	3/4	25,350	3/4	10,592	3/4		3/4		3/4		3/4		3/4	
8	70,078	8	55,067	8	40,053	8	25,037	8	10,302	8		8		8		8		8	
1/4	69,765	1/4	54,754	1/4	39,740	1/4	24,724	1/4	10,012	1/4		1/4		1/4		1/4		1/4	
1/2	69,453	1/2	54,442	1/2	39,427	1/2	24,411	1/2	9,723	1/2		1/2		1/2		1/2		1/2	
3/4	69,140	3/4	54,129	3/4	39,114	3/4	24,098	3/4	9,437	3/4		3/4		3/4		3/4		3/4	
9	68,827	9	53,816	9	38,802	9	23,786	9	9,151	9		9		9		9		9	
1/4	68,514	1/4	53,504	1/4	38,489	1/4	23,473	1/4	8,865	1/4		1/4		1/4		1/4		1/4	
1/2	68,201	1/2	53,191	1/2	38,176	1/2	23,160	1/2	8,579	1/2		1/2		1/2		1/2		1/2	
3/4	67,888	3/4	52,879	3/4	37,863	3/4	22,847	3/4	8,297	3/4		3/4		3/4		3/4		3/4	
10	67,576	10	52,566	10	37,550	10	22,534	10	8,015	10		10		10		10		10	
1/4	67,263	1/4	52,253	1/4	37,237	1/4	22,221	1/4	7,733	1/4		1/4		1/4		1/4		1/4	
1/2	66,950	1/2	51,941	1/2	36,925	1/2	21,909	1/2	7,451	1/2		1/2		1/2		1/2		1/2	
3/4	66,637	3/4	51,628	3/4	36,612	3/4	21,596	3/4	7,173	3/4		3/4		3/4		3/4		3/4	
11	66,324	11	51,315	11	36,299	11	21,283	11	6,895	11		11		11		11		11	
1/4	66,011	1/4	51,002	1/4	35,986	1/4	20,970	1/4	6,616	1/4		1/4		1/4		1/4		1/4	
1/2	65,699	1/2	50,689	1/2	35,673	1/2	20,657	1/2	6,338	1/2		1/2		1/2		1/2		1/2	
3/4	65,386	3/4	50,377	3/4	35,360	3/4	20,344	3/4	6,064	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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



# BARGE "HSM 3002"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	202,148	0	187,139	0	172,111	0	157,048	0	141,985	0	126,923	0	111,860	0	96,791
1/4		1/4		1/4	201,837	1/4	186,827	1/4	171,797	1/4	156,734	1/4	141,671	1/4	126,609	1/4	111,546	1/4	96,477
1/2		1/2		1/2	201,526	1/2	186,514	1/2	171,483	1/2	156,420	1/2	141,358	1/2	126,295	1/2	111,232	1/2	96,163
3/4		3/4		3/4	201,213	3/4	186,201	3/4	171,169	3/4	156,107	3/4	141,044	3/4	125,981	3/4	110,918	3/4	95,849
1		1		1	200,900	1	185,888	1	170,856	1	155,793	1	140,730	1	125,667	1	110,605	1	95,535
1/4		1/4		1/4	200,587	1/4	185,576	1/4	170,542	1/4	155,479	1/4	140,416	1/4	125,353	1/4	110,291	1/4	95,221
1/2		1/2		1/2	200,275	1/2	185,263	1/2	170,228	1/2	155,165	1/2	140,102	1/2	125,040	1/2	109,977	1/2	94,907
3/4		3/4		3/4	199,962	3/4	184,950	3/4	169,914	3/4	154,851	3/4	139,789	3/4	124,726	3/4	109,663	3/4	94,593
2		2		2	199,649	2	184,637	2	169,600	2	154,538	2	139,475	2	124,412	2	109,349	2	94,279
1/4		1/4		1/4	199,336	1/4	184,325	1/4	169,286	1/4	154,224	1/4	139,161	1/4	124,098	1/4	109,035	1/4	93,965
1/2		1/2		1/2	212,946	1/2	184,012	1/2	168,973	1/2	153,910	1/2	138,847	1/2	123,784	1/2	108,721	1/2	93,651
3/4		3/4		3/4	212,767	3/4	198,711	3/4	183,699	3/4	168,659	3/4	153,596	3/4	138,533	3/4	123,471	3/4	93,337
3		3		3	212,588	3	198,398	3	183,387	3	168,345	3	153,282	3	138,220	3	123,157	3	93,023
1/4		1/4		1/4	212,409	1/4	198,085	1/4	183,074	1/4	168,031	1/4	152,969	1/4	137,906	1/4	122,843	1/4	92,709
1/2		1/2		1/2	212,230	1/2	197,773	1/2	182,761	1/2	167,717	1/2	152,655	1/2	137,592	1/2	122,529	1/2	92,395
3/4		3/4		3/4	211,999	3/4	197,460	3/4	182,448	3/4	167,404	3/4	152,341	3/4	137,278	3/4	122,215	3/4	92,081
4		4		4	211,767	4	197,147	4	182,136	4	167,090	4	152,027	4	136,964	4	121,902	4	91,767
1/4		1/4		1/4	211,536	1/4	196,834	1/4	181,823	1/4	166,776	1/4	151,713	1/4	136,651	1/4	121,588	1/4	91,453
1/2		1/2		1/2	211,305	1/2	196,522	1/2	181,510	1/2	166,462	1/2	151,399	1/2	136,337	1/2	121,274	1/2	91,139
3/4		3/4		3/4	211,025	3/4	196,209	3/4	181,197	3/4	166,148	3/4	151,086	3/4	136,023	3/4	120,960	3/4	90,825
5		5		5	210,745	5	195,896	5	180,885	5	165,835	5	150,772	5	135,709	5	120,646	5	90,511
1/4		1/4		1/4	210,465	1/4	195,583	1/4	180,572	1/4	165,521	1/4	150,458	1/4	135,395	1/4	120,333	1/4	90,197
1/2		1/2		1/2	210,185	1/2	195,271	1/2	180,259	1/2	165,207	1/2	150,144	1/2	135,081	1/2	120,019	1/2	89,883
3/4		3/4		3/4	209,880	3/4	194,958	3/4	179,946	3/4	164,893	3/4	149,830	3/4	134,768	3/4	119,705	3/4	89,570
6		6		6	209,574	6	194,645	6	179,634	6	164,579	6	149,517	6	134,454	6	119,391	6	89,256
1/4		1/4		1/4	209,269	1/4	194,332	1/4	179,321	1/4	164,266	1/4	149,203	1/4	134,140	1/4	119,077	1/4	88,942
1/2		1/2		1/2	208,963	1/2	194,020	1/2	179,008	1/2	163,952	1/2	148,889	1/2	133,826	1/2	118,764	1/2	88,628
3/4		3/4		3/4	208,654	3/4	193,707	3/4	178,695	3/4	163,638	3/4	148,575	3/4	133,512	3/4	118,450	3/4	88,314
7		7		7	208,344	7	193,394	7	178,383	7	163,324	7	148,261	7	133,199	7	118,136	7	88,000
1/4		1/4		1/4	208,035	1/4	193,082	1/4	178,070	1/4	163,010	1/4	147,948	1/4	132,885	1/4	117,822	1/4	87,686
1/2		1/2		1/2	207,726	1/2	192,769	1/2	177,757	1/2	162,697	1/2	147,634	1/2	132,571	1/2	117,508	1/2	87,372
3/4		3/4		3/4	207,416	3/4	192,456	3/4	177,444	3/4	162,383	3/4	147,320	3/4	132,257	3/4	117,194	3/4	87,058
8		8		8	207,106	8	192,143	8	177,131	8	162,069	8	147,006	8	131,943	8	116,881	8	86,744
1/4		1/4		1/4	206,797	1/4	191,831	1/4	176,817	1/4	161,755	1/4	146,692	1/4	131,630	1/4	116,567	1/4	86,430
1/2		1/2		1/2	206,487	1/2	191,518	1/2	176,504	1/2	161,441	1/2	146,379	1/2	131,316	1/2	116,253	1/2	86,116
3/4		3/4		3/4	206,177	3/4	191,205	3/4	176,190	3/4	161,127	3/4	146,065	3/4	131,002	3/4	115,939	3/4	85,802
9		9		9	205,867	9	190,892	9	175,876	9	160,814	9	145,751	9	130,688	9	115,625	9	85,488
1/4		1/4		1/4	205,558	1/4	190,580	1/4	175,563	1/4	160,500	1/4	145,437	1/4	130,374	1/4	115,312	1/4	85,174
1/2		1/2		1/2	205,248	1/2	190,267	1/2	175,249	1/2	160,186	1/2	145,123	1/2	130,061	1/2	114,998	1/2	84,860
3/4		3/4		3/4	204,938	3/4	189,954	3/4	174,935	3/4	159,872	3/4	144,810	3/4	129,747	3/4	114,684	3/4	84,546
10		10		10	204,628	10	189,641	10	174,621	10	159,558	10	144,496	10	129,433	10	114,370	10	84,232
1/4		1/4		1/4	204,319	1/4	189,329	1/4	174,307	1/4	159,245	1/4	144,182	1/4	129,119	1/4	114,056	1/4	83,918
1/2		1/2		1/2	204,009	1/2	189,016	1/2	173,994	1/2	158,931	1/2	143,868	1/2	128,805	1/2	113,743	1/2	83,604
3/4		3/4		3/4	203,699	3/4	188,703	3/4	173,680	3/4	158,617	3/4	143,554	3/4	128,492	3/4	113,429	3/4	83,290
11		11		11	203,390	11	188,390	11	173,366	11	158,303	11	143,240	11	128,178	11	113,115	11	82,976
1/4		1/4		1/4	203,080	1/4	188,078	1/4	173,052	1/4	157,989	1/4	142,927	1/4	127,864	1/4	112,801	1/4	82,662
1/2		1/2		1/2	202,770	1/2	187,765	1/2	172,738	1/2	157,676	1/2	142,613	1/2	127,550	1/2	112,487	1/2	82,348
3/4		3/4		3/4	202,459	3/4	187,452	3/4	172,425	3/4	157,362	3/4	142,299	3/4	127,236	3/4	112,174	3/4	82,034

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



# BARGE "HSM 3002"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	81,720	0	66,650	0	52,098	0	37,628	0	22,608	0	7,538	0		0		0		0	
1/4	81,406	1/4	66,336	1/4	51,795	1/4	37,326	1/4	22,294	1/4	7,224	1/4		1/4		1/4		1/4	
1/2	81,092	1/2	66,022	1/2	51,493	1/2	37,024	1/2	21,980	1/2	6,910	1/2		1/2		1/2		1/2	
3/4	80,778	3/4	65,714	3/4	51,191	3/4	36,716	3/4	21,666	3/4	6,596	3/4		3/4		3/4		3/4	
1	80,465	1	65,406	1	50,890	1	36,407	1	21,352	1	6,282	1		1		1		1	
1/4	80,151	1/4	65,098	1/4	50,588	1/4	36,099	1/4	21,038	1/4	5,968	1/4		1/4		1/4		1/4	
1/2	79,837	1/2	64,790	1/2	50,286	1/2	35,791	1/2	20,724	1/2	5,654	1/2		1/2		1/2		1/2	
3/4	79,523	3/4	64,488	3/4	49,984	3/4	35,477	3/4	20,410	3/4	5,340	3/4		3/4		3/4		3/4	
2	79,209	2	64,185	2	49,683	2	35,163	2	20,096	2	5,027	2		2		2		2	
1/4	78,895	1/4	63,883	1/4	49,381	1/4	34,849	1/4	19,782	1/4	4,713	1/4		1/4		1/4		1/4	
1/2	78,581	1/2	63,581	1/2	49,080	1/2	34,536	1/2	19,468	1/2	4,399	1/2		1/2		1/2		1/2	
3/4	78,267	3/4	63,279	3/4	48,779	3/4	34,222	3/4	19,154	3/4	4,086	3/4		3/4		3/4		3/4	
3	77,953	3	62,977	3	48,477	3	33,908	3	18,840	3	3,773	3		3		3		3	
1/4	77,639	1/4	62,674	1/4	48,176	1/4	33,594	1/4	18,526	1/4	3,460	1/4		1/4		1/4		1/4	
1/2	77,325	1/2	62,372	1/2	47,874	1/2	33,280	1/2	18,212	1/2	3,147	1/2		1/2		1/2		1/2	
3/4	77,011	3/4	62,070	3/4	47,573	3/4	32,966	3/4	17,898	3/4	2,834	3/4		3/4		3/4		3/4	
4	76,697	4	61,768	4	47,272	4	32,652	4	17,584	4	2,560	4		4		4		4	
1/4	76,383	1/4	61,466	1/4	46,971	1/4	32,338	1/4	17,270	1/4	2,267	1/4		1/4		1/4		1/4	
1/2	76,069	1/2	61,163	1/2	46,669	1/2	32,024	1/2	16,956	1/2	1,973	1/2		1/2		1/2		1/2	
3/4	75,755	3/4	60,861	3/4	46,368	3/4	31,710	3/4	16,642	3/4	1,738	3/4		3/4		3/4		3/4	
5	75,441	5	60,559	5	46,067	5	31,396	5	16,328	5	1,502	5		5		5		5	
1/4	75,127	1/4	60,257	1/4	45,766	1/4	31,082	1/4	16,014	1/4	1,267	1/4		1/4		1/4		1/4	
1/2	74,813	1/2	59,955	1/2	45,464	1/2	30,768	1/2	15,701	1/2	1,031	1/2		1/2		1/2		1/2	
3/4	74,499	3/4	59,653	3/4	45,163	3/4	30,454	3/4	15,387	3/4		3/4		3/4		3/4		3/4	
6	74,185	6	59,350	6	44,862	6	30,140	6	15,073	6		6		6		6		6	
1/4	73,871	1/4	59,048	1/4	44,561	1/4	29,826	1/4	14,759	1/4		1/4		1/4		1/4		1/4	
1/2	73,557	1/2	58,746	1/2	44,259	1/2	29,513	1/2	14,445	1/2		1/2		1/2		1/2		1/2	
3/4	73,243	3/4	58,444	3/4	43,958	3/4	29,199	3/4	14,131	3/4		3/4		3/4		3/4		3/4	
7	72,929	7	58,142	7	43,657	7	28,885	7	13,817	7		7		7		7		7	
1/4	72,615	1/4	57,839	1/4	43,356	1/4	28,571	1/4	13,503	1/4		1/4		1/4		1/4		1/4	
1/2	72,301	1/2	57,537	1/2	43,054	1/2	28,258	1/2	13,189	1/2		1/2		1/2		1/2		1/2	
3/4	71,987	3/4	57,235	3/4	42,753	3/4	27,944	3/4	12,875	3/4		3/4		3/4		3/4		3/4	
8	71,674	8	56,933	8	42,452	8	27,630	8	12,561	8		8		8		8		8	
1/4	71,360	1/4	56,631	1/4	42,151	1/4	27,316	1/4	12,247	1/4		1/4		1/4		1/4		1/4	
1/2	71,046	1/2	56,328	1/2	41,849	1/2	27,003	1/2	11,933	1/2		1/2		1/2		1/2		1/2	
3/4	70,732	3/4	56,026	3/4	41,548	3/4	26,689	3/4	11,619	3/4		3/4		3/4		3/4		3/4	
9	70,418	9	55,724	9	41,247	9	26,375	9	11,305	9		9		9		9		9	
1/4	70,104	1/4	55,422	1/4	40,946	1/4	26,061	1/4	10,991	1/4		1/4		1/4		1/4		1/4	
1/2	69,790	1/2	55,120	1/2	40,644	1/2	25,747	1/2	10,677	1/2		1/2		1/2		1/2		1/2	
3/4	69,476	3/4	54,817	3/4	40,343	3/4	25,433	3/4	10,363	3/4		3/4		3/4		3/4		3/4	
10	69,162	10	54,515	10	40,042	10	25,119	10	10,049	10		10		10		10		10	
1/4	68,848	1/4	54,213	1/4	39,741	1/4	24,805	1/4	9,735	1/4		1/4		1/4		1/4		1/4	
1/2	68,534	1/2	53,911	1/2	39,439	1/2	24,491	1/2	9,421	1/2		1/2		1/2		1/2		1/2	
3/4	68,220	3/4	53,609	3/4	39,138	3/4	24,177	3/4	9,107	3/4		3/4		3/4		3/4		3/4	
11	67,906	11	53,306	11	38,836	11	23,863	11	8,793	11		11		11		11		11	
1/4	67,592	1/4	53,004	1/4	38,534	1/4	23,549	1/4	8,480	1/4		1/4		1/4		1/4		1/4	
1/2	67,278	1/2	52,702	1/2	38,232	1/2	23,235	1/2	8,166	1/2		1/2		1/2		1/2		1/2	
3/4	66,964	3/4	52,400	3/4	37,930	3/4	22,921	3/4	7,852	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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





# BARGE "HSM 3002"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	203,099	0	188,104	0	173,089	0	158,040	0	142,990	0	127,941	0	112,891	0	97,836
1/4		1/4		1/4	202,789	1/4	187,792	1/4	172,775	1/4	157,726	1/4	142,677	1/4	127,627	1/4	112,578	1/4	97,522
1/2		1/2		1/2	202,478	1/2	187,479	1/2	172,462	1/2	157,412	1/2	142,363	1/2	127,314	1/2	112,264	1/2	97,208
3/4		3/4		3/4	202,165	3/4	187,167	3/4	172,148	3/4	157,099	3/4	142,050	3/4	127,000	3/4	111,951	3/4	96,895
1		1		1	201,853	1	186,854	1	171,835	1	156,785	1	141,736	1	126,687	1	111,637	1	96,581
1/4		1/4		1/4	201,540	1/4	186,542	1/4	171,521	1/4	156,472	1/4	141,423	1/4	126,373	1/4	111,324	1/4	96,267
1/2		1/2		1/2	201,228	1/2	186,229	1/2	171,208	1/2	156,158	1/2	141,109	1/2	126,060	1/2	111,010	1/2	95,954
3/4		3/4		3/4	200,915	3/4	185,917	3/4	170,894	3/4	155,845	3/4	140,795	3/4	125,746	3/4	110,697	3/4	95,640
2		2		2	200,603	2	185,605	2	170,581	2	155,531	2	140,482	2	125,433	2	110,383	2	95,326
1/4		1/4		1/4	200,290	1/4	185,292	1/4	170,267	1/4	155,218	1/4	140,168	1/4	125,119	1/4	110,069	1/4	95,013
1/2		1/2		1/2	213,888	1/2	199,978	1/2	184,980	1/2	169,954	1/2	154,904	1/2	139,855	1/2	124,806	1/2	94,699
3/4		3/4		3/4	213,709	3/4	199,665	3/4	184,667	3/4	169,640	3/4	154,591	3/4	139,541	3/4	124,492	3/4	94,385
3		3		3	213,530	3	199,353	3	184,355	3	169,327	3	154,277	3	139,228	3	124,178	3	94,072
1/4		1/4		1/4	213,352	1/4	199,040	1/4	184,042	1/4	169,013	1/4	153,964	1/4	138,914	1/4	123,865	1/4	93,758
1/2		1/2		1/2	213,173	1/2	198,728	1/2	183,730	1/2	168,700	1/2	153,650	1/2	138,601	1/2	123,551	1/2	93,444
3/4		3/4		3/4	212,942	3/4	198,416	3/4	183,417	3/4	168,386	3/4	153,337	3/4	138,287	3/4	123,238	3/4	93,130
4		4		4	212,710	4	198,103	4	183,105	4	168,072	4	153,023	4	137,974	4	122,924	4	92,817
1/4		1/4		1/4	212,479	1/4	197,791	1/4	182,792	1/4	167,759	1/4	152,710	1/4	137,660	1/4	122,611	1/4	92,503
1/2		1/2		1/2	212,248	1/2	197,478	1/2	182,480	1/2	167,445	1/2	152,396	1/2	137,347	1/2	122,297	1/2	92,189
3/4		3/4		3/4	211,969	3/4	197,166	3/4	182,167	3/4	167,132	3/4	152,082	3/4	137,033	3/4	121,984	3/4	91,876
5		5		5	211,689	5	196,853	5	181,855	5	166,818	5	151,769	5	136,720	5	121,670	5	91,562
1/4		1/4		1/4	211,409	1/4	196,541	1/4	181,542	1/4	166,505	1/4	151,455	1/4	136,406	1/4	121,357	1/4	91,248
1/2		1/2		1/2	211,130	1/2	196,228	1/2	181,230	1/2	166,191	1/2	151,142	1/2	136,093	1/2	121,043	1/2	90,935
3/4		3/4		3/4	210,825	3/4	195,916	3/4	180,918	3/4	165,878	3/4	150,828	3/4	135,779	3/4	120,730	3/4	90,621
6		6		6	210,519	6	195,603	6	180,605	6	165,564	6	150,515	6	135,465	6	120,416	6	90,307
1/4		1/4		1/4	210,214	1/4	195,291	1/4	180,293	1/4	165,251	1/4	150,201	1/4	135,152	1/4	120,103	1/4	89,994
1/2		1/2		1/2	209,909	1/2	194,978	1/2	179,980	1/2	164,937	1/2	149,888	1/2	134,838	1/2	119,789	1/2	89,680
3/4		3/4		3/4	209,599	3/4	194,666	3/4	179,668	3/4	164,624	3/4	149,574	3/4	134,525	3/4	119,476	3/4	89,366
7		7		7	209,290	7	194,354	7	179,355	7	164,310	7	149,261	7	134,211	7	119,162	7	89,053
1/4		1/4		1/4	208,981	1/4	194,041	1/4	179,043	1/4	163,997	1/4	148,947	1/4	133,898	1/4	118,848	1/4	88,739
1/2		1/2		1/2	208,672	1/2	193,729	1/2	178,730	1/2	163,683	1/2	148,634	1/2	133,584	1/2	118,535	1/2	88,425
3/4		3/4		3/4	208,363	3/4	193,416	3/4	178,417	3/4	163,370	3/4	148,320	3/4	133,271	3/4	118,221	3/4	88,112
8		8		8	208,054	8	193,104	8	178,104	8	163,056	8	148,007	8	132,957	8	117,908	8	87,798
1/4		1/4		1/4	207,744	1/4	192,791	1/4	177,791	1/4	162,742	1/4	147,693	1/4	132,644	1/4	117,594	1/4	87,484
1/2		1/2		1/2	207,435	1/2	192,479	1/2	177,478	1/2	162,429	1/2	147,380	1/2	132,330	1/2	117,281	1/2	87,170
3/4		3/4		3/4	207,125	3/4	192,166	3/4	177,165	3/4	162,115	3/4	147,066	3/4	132,017	3/4	116,967	3/4	86,857
9		9		9	206,816	9	191,854	9	176,851	9	161,802	9	146,753	9	131,703	9	116,654	9	86,543
1/4		1/4		1/4	206,506	1/4	191,541	1/4	176,538	1/4	161,488	1/4	146,439	1/4	131,390	1/4	116,340	1/4	86,229
1/2		1/2		1/2	206,197	1/2	191,229	1/2	176,224	1/2	161,175	1/2	146,125	1/2	131,076	1/2	116,027	1/2	85,916
3/4		3/4		3/4	205,887	3/4	190,916	3/4	175,911	3/4	160,861	3/4	145,812	3/4	130,763	3/4	115,713	3/4	85,602
10		10		10	205,578	10	190,604	10	175,597	10	160,548	10	145,498	10	130,449	10	115,400	10	85,288
1/4		1/4		1/4	205,268	1/4	190,291	1/4	175,284	1/4	160,234	1/4	145,185	1/4	130,135	1/4	115,086	1/4	84,975
1/2		1/2		1/2	204,959	1/2	189,979	1/2	174,970	1/2	159,921	1/2	144,871	1/2	129,822	1/2	114,773	1/2	84,661
3/4		3/4		3/4	204,649	3/4	189,667	3/4	174,657	3/4	159,607	3/4	144,558	3/4	129,508	3/4	114,459	3/4	84,347
11		11		11	204,340	11	189,354	11	174,343	11	159,294	11	144,244	11	129,195	11	114,146	11	84,034
1/4		1/4		1/4	204,031	1/4	189,042	1/4	174,029	1/4	158,980	1/4	143,931	1/4	128,881	1/4	113,832	1/4	83,720
1/2		1/2		1/2	203,721	1/2	188,729	1/2	173,716	1/2	158,667	1/2	143,617	1/2	128,568	1/2	113,518	1/2	83,406
3/4		3/4		3/4	203,410	3/4	188,417	3/4	173,402	3/4	158,353	3/4	143,304	3/4	128,254	3/4	113,205	3/4	83,093

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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





# BARGE "HSM 3002"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	82,779	0	67,722	0	52,665	0	37,643	0	22,589	0	7,532	0		0		0		0	
1/4	82,465	1/4	67,408	1/4	52,351	1/4	37,330	1/4	22,275	1/4	7,218	1/4		1/4		1/4		1/4	
1/2	82,151	1/2	67,095	1/2	52,038	1/2	37,016	1/2	21,962	1/2	6,905	1/2		1/2		1/2		1/2	
3/4	81,838	3/4	66,781	3/4	51,724	3/4	36,702	3/4	21,648	3/4	6,591	3/4		3/4		3/4		3/4	
1	81,524	1	66,467	1	51,411	1	36,389	1	21,334	1	6,277	1		1		1		1	
1/4	81,210	1/4	66,154	1/4	51,098	1/4	36,075	1/4	21,020	1/4	5,964	1/4		1/4		1/4		1/4	
1/2	80,897	1/2	65,840	1/2	50,784	1/2	35,761	1/2	20,707	1/2	5,650	1/2		1/2		1/2		1/2	
3/4	80,583	3/4	65,526	3/4	50,471	3/4	35,448	3/4	20,393	3/4	5,337	3/4		3/4		3/4		3/4	
2	80,269	2	65,212	2	50,158	2	35,134	2	20,079	2	5,023	2		2		2		2	
1/4	79,956	1/4	64,899	1/4	49,845	1/4	34,820	1/4	19,766	1/4	4,710	1/4		1/4		1/4		1/4	
1/2	79,642	1/2	64,585	1/2	49,532	1/2	34,507	1/2	19,452	1/2	4,396	1/2		1/2		1/2		1/2	
3/4	79,328	3/4	64,271	3/4	49,220	3/4	34,193	3/4	19,138	3/4	4,084	3/4		3/4		3/4		3/4	
3	79,015	3	63,958	3	48,907	3	33,879	3	18,825	3	3,771	3		3		3		3	
1/4	78,701	1/4	63,644	1/4	48,594	1/4	33,566	1/4	18,511	1/4	3,458	1/4		1/4		1/4		1/4	
1/2	78,387	1/2	63,330	1/2	48,281	1/2	33,252	1/2	18,197	1/2	3,145	1/2		1/2		1/2		1/2	
3/4	78,074	3/4	63,017	3/4	47,968	3/4	32,938	3/4	17,884	3/4	2,852	3/4		3/4		3/4		3/4	
4	77,760	4	62,703	4	47,655	4	32,625	4	17,570	4	2,559	4		4		4		4	
1/4	77,446	1/4	62,389	1/4	47,343	1/4	32,311	1/4	17,256	1/4	2,266	1/4		1/4		1/4		1/4	
1/2	77,133	1/2	62,076	1/2	47,030	1/2	31,997	1/2	16,943	1/2	1,972	1/2		1/2		1/2		1/2	
3/4	76,819	3/4	61,762	3/4	46,717	3/4	31,683	3/4	16,629	3/4	1,737	3/4		3/4		3/4		3/4	
5	76,505	5	61,448	5	46,404	5	31,370	5	16,315	5	1,502	5		5		5		5	
1/4	76,191	1/4	61,135	1/4	46,092	1/4	31,056	1/4	16,002	1/4	1,267	1/4		1/4		1/4		1/4	
1/2	75,878	1/2	60,821	1/2	45,779	1/2	30,742	1/2	15,688	1/2	1,031	1/2		1/2		1/2		1/2	
3/4	75,564	3/4	60,507	3/4	45,466	3/4	30,429	3/4	15,374	3/4		3/4		3/4		3/4		3/4	
6	75,250	6	60,193	6	45,153	6	30,115	6	15,060	6		6		6		6		6	
1/4	74,937	1/4	59,880	1/4	44,841	1/4	29,802	1/4	14,747	1/4		1/4		1/4		1/4		1/4	
1/2	74,623	1/2	59,566	1/2	44,528	1/2	29,488	1/2	14,433	1/2		1/2		1/2		1/2		1/2	
3/4	74,309	3/4	59,252	3/4	44,215	3/4	29,174	3/4	14,119	3/4		3/4		3/4		3/4		3/4	
7	73,996	7	58,939	7	43,902	7	28,861	7	13,806	7		7		7		7		7	
1/4	73,682	1/4	58,625	1/4	43,590	1/4	28,548	1/4	13,492	1/4		1/4		1/4		1/4		1/4	
1/2	73,368	1/2	58,311	1/2	43,277	1/2	28,234	1/2	13,178	1/2		1/2		1/2		1/2		1/2	
3/4	73,055	3/4	57,998	3/4	42,964	3/4	27,921	3/4	12,865	3/4		3/4		3/4		3/4		3/4	
8	72,741	8	57,684	8	42,651	8	27,607	8	12,551	8		8		8		8		8	
1/4	72,427	1/4	57,370	1/4	42,339	1/4	27,294	1/4	12,237	1/4		1/4		1/4		1/4		1/4	
1/2	72,114	1/2	57,057	1/2	42,026	1/2	26,980	1/2	11,924	1/2		1/2		1/2		1/2		1/2	
3/4	71,800	3/4	56,743	3/4	41,713	3/4	26,667	3/4	11,610	3/4		3/4		3/4		3/4		3/4	
9	71,486	9	56,429	9	41,400	9	26,353	9	11,296	9		9		9		9		9	
1/4	71,172	1/4	56,116	1/4	41,088	1/4	26,039	1/4	10,983	1/4		1/4		1/4		1/4		1/4	
1/2	70,859	1/2	55,802	1/2	40,775	1/2	25,726	1/2	10,669	1/2		1/2		1/2		1/2		1/2	
3/4	70,545	3/4	55,488	3/4	40,462	3/4	25,412	3/4	10,355	3/4		3/4		3/4		3/4		3/4	
10	70,231	10	55,175	10	40,149	10	25,098	10	10,041	10		10		10		10		10	
1/4	69,918	1/4	54,861	1/4	39,836	1/4	24,785	1/4	9,728	1/4		1/4		1/4		1/4		1/4	
1/2	69,604	1/2	54,547	1/2	39,524	1/2	24,471	1/2	9,414	1/2		1/2		1/2		1/2		1/2	
3/4	69,290	3/4	54,233	3/4	39,210	3/4	24,157	3/4	9,100	3/4		3/4		3/4		3/4		3/4	
11	68,977	11	53,920	11	38,897	11	23,844	11	8,787	11		11		11		11		11	
1/4	68,663	1/4	53,606	1/4	38,584	1/4	23,530	1/4	8,473	1/4		1/4		1/4		1/4		1/4	
1/2	68,349	1/2	53,292	1/2	38,271	1/2	23,216	1/2	8,159	1/2		1/2		1/2		1/2		1/2	
3/4	68,036	3/4	52,979	3/4	37,957	3/4	22,903	3/4	7,846	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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



# BARGE "HSM 3002"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	184,062	0	173,743	0	163,412	0	153,056	0	141,101	0	126,155	0	111,208	0	96,248
1/4		1/4		1/4	183,847	1/4	173,528	1/4	163,196	1/4	152,841	1/4	140,790	1/4	125,843	1/4	110,897	1/4	95,937
1/2		1/2		1/2	183,632	1/2	173,313	1/2	162,980	1/2	152,625	1/2	140,478	1/2	125,532	1/2	110,586	1/2	95,625
3/4		3/4		3/4	183,417	3/4	173,098	3/4	162,764	3/4	152,409	3/4	140,167	3/4	125,221	3/4	110,274	3/4	95,314
1		1		1	183,202	1	172,883	1	162,549	1	152,193	1	139,856	1	124,909	1	109,963	1	95,002
1/4		1/4		1/4	182,987	1/4	172,668	1/4	162,333	1/4	151,978	1/4	139,544	1/4	124,598	1/4	109,651	1/4	94,691
1/2		1/2		1/2	182,772	1/2	172,453	1/2	162,117	1/2	151,762	1/2	139,233	1/2	124,286	1/2	109,340	1/2	94,379
3/4		3/4		3/4	182,557	3/4	172,238	3/4	161,901	3/4	151,546	3/4	138,922	3/4	123,975	3/4	109,028	3/4	94,068
2		2		2	182,342	2	172,024	2	161,686	2	151,331	2	138,610	2	123,664	2	108,717	2	93,756
1/4		1/4		1/4	191,755	1/4	182,127	1/4	171,809	1/4	161,470	1/4	151,115	1/4	138,299	1/4	123,352	1/4	108,406
1/2		1/2		1/2	191,632	1/2	181,912	1/2	171,594	1/2	161,254	1/2	150,899	1/2	137,987	1/2	123,041	1/2	108,094
3/4		3/4		3/4	191,508	3/4	181,697	3/4	171,379	3/4	161,039	3/4	150,683	3/4	137,676	3/4	122,730	3/4	107,783
3		3		3	191,385	3	181,482	3	171,164	3	160,823	3	150,468	3	137,365	3	122,418	3	107,471
1/4		1/4		1/4	191,261	1/4	181,267	1/4	170,949	1/4	160,607	1/4	150,252	1/4	137,053	1/4	122,107	1/4	107,160
1/2		1/2		1/2	191,102	1/2	181,052	1/2	170,734	1/2	160,391	1/2	150,036	1/2	136,742	1/2	121,795	1/2	106,848
3/4		3/4		3/4	190,942	3/4	180,837	3/4	170,519	3/4	160,176	3/4	149,820	3/4	136,430	3/4	121,484	3/4	106,536
4		4		4	190,783	4	180,623	4	170,304	4	159,960	4	149,605	4	136,119	4	121,173	4	106,225
1/4		1/4		1/4	190,623	1/4	180,408	1/4	170,089	1/4	159,744	1/4	149,389	1/4	135,808	1/4	120,861	1/4	105,913
1/2		1/2		1/2	190,430	1/2	180,193	1/2	169,874	1/2	159,528	1/2	149,170	1/2	135,496	1/2	120,550	1/2	105,601
3/4		3/4		3/4	190,238	3/4	179,978	3/4	169,659	3/4	159,313	3/4	148,950	3/4	135,185	3/4	120,238	3/4	105,289
5		5		5	190,045	5	179,763	5	169,444	5	159,097	5	148,731	5	134,874	5	119,927	5	104,978
1/4		1/4		1/4	189,852	1/4	179,548	1/4	169,229	1/4	158,881	1/4	148,512	1/4	134,562	1/4	119,616	1/4	104,666
1/2		1/2		1/2	189,641	1/2	179,333	1/2	169,014	1/2	158,665	1/2	148,281	1/2	134,251	1/2	119,304	1/2	104,354
3/4		3/4		3/4	189,429	3/4	179,118	3/4	168,799	3/4	158,450	3/4	148,050	3/4	133,939	3/4	118,993	3/4	104,042
6		6		6	189,218	6	178,903	6	168,584	6	158,234	6	147,820	6	133,628	6	118,682	6	103,730
1/4		1/4		1/4	189,006	1/4	178,688	1/4	168,369	1/4	158,018	1/4	147,589	1/4	133,317	1/4	118,370	1/4	103,419
1/2		1/2		1/2	188,792	1/2	178,473	1/2	168,154	1/2	157,803	1/2	147,342	1/2	133,005	1/2	118,059	1/2	103,107
3/4		3/4		3/4	188,577	3/4	178,258	3/4	167,939	3/4	157,587	3/4	147,095	3/4	132,694	3/4	117,747	3/4	102,795
7		7		7	188,362	7	178,043	7	167,724	7	157,371	7	146,848	7	132,382	7	117,436	7	102,483
1/4		1/4		1/4	188,147	1/4	177,828	1/4	167,509	1/4	157,155	1/4	146,601	1/4	132,071	1/4	117,125	1/4	102,171
1/2		1/2		1/2	187,932	1/2	177,613	1/2	167,294	1/2	156,940	1/2	146,339	1/2	131,760	1/2	116,813	1/2	101,860
3/4		3/4		3/4	187,717	3/4	177,398	3/4	167,078	3/4	156,724	3/4	146,076	3/4	131,448	3/4	116,502	3/4	101,548
8		8		8	187,502	8	177,183	8	166,863	8	156,508	8	145,813	8	131,137	8	116,190	8	101,236
1/4		1/4		1/4	187,287	1/4	176,968	1/4	166,648	1/4	156,292	1/4	145,551	1/4	130,826	1/4	115,879	1/4	100,924
1/2		1/2		1/2	187,072	1/2	176,753	1/2	166,432	1/2	156,077	1/2	145,273	1/2	130,514	1/2	115,568	1/2	100,612
3/4		3/4		3/4	186,857	3/4	176,538	3/4	166,216	3/4	155,861	3/4	144,994	3/4	130,203	3/4	115,256	3/4	100,301
9		9		9	186,642	9	176,323	9	166,000	9	155,645	9	144,716	9	129,891	9	114,945	9	99,989
1/4		1/4		1/4	186,427	1/4	176,108	1/4	165,785	1/4	155,429	1/4	144,438	1/4	129,580	1/4	114,634	1/4	99,677
1/2		1/2		1/2	186,212	1/2	175,893	1/2	165,569	1/2	155,214	1/2	144,143	1/2	129,269	1/2	114,322	1/2	99,365
3/4		3/4		3/4	185,997	3/4	175,678	3/4	165,353	3/4	154,998	3/4	143,849	3/4	128,957	3/4	114,011	3/4	99,053
10		10		10	185,782	10	175,463	10	165,137	10	154,782	10	143,555	10	128,646	10	113,699	10	98,742
1/4		1/4		1/4	185,567	1/4	175,248	1/4	164,922	1/4	154,567	1/4	143,261	1/4	128,334	1/4	113,388	1/4	98,430
1/2		1/2		1/2	185,352	1/2	175,033	1/2	164,706	1/2	154,351	1/2	142,954	1/2	128,023	1/2	113,077	1/2	98,118
3/4		3/4		3/4	185,137	3/4	174,818	3/4	164,490	3/4	154,135	3/4	142,647	3/4	127,712	3/4	112,765	3/4	97,806
11		11		11	184,922	11	174,603	11	164,275	11	153,919	11	142,341	11	127,400	11	112,454	11	97,495
1/4		1/4		1/4	184,707	1/4	174,388	1/4	164,059	1/4	153,704	1/4	142,034	1/4	127,089	1/4	112,142	1/4	97,183
1/2		1/2		1/2	184,492	1/2	174,173	1/2	163,843	1/2	153,488	1/2	141,723	1/2	126,778	1/2	111,831	1/2	96,872
3/4		3/4		3/4	184,277	3/4	173,958	3/4	163,627	3/4	153,272	3/4	141,412	3/4	126,466	3/4	111,520	3/4	96,560

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "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 3002"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 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	81,288	0	66,391	0	51,666	0	37,109	0	22,165	0	7,187	0		0		0		0	
1/4	80,976	1/4	66,081	1/4	51,364	1/4	36,804	1/4	21,853	1/4	6,875	1/4		1/4		1/4		1/4	
1/2	80,664	1/2	65,771	1/2	51,062	1/2	36,497	1/2	21,541	1/2	6,563	1/2		1/2		1/2		1/2	
3/4	80,352	3/4	65,461	3/4	50,759	3/4	36,189	3/4	21,229	3/4	6,251	3/4		3/4		3/4		3/4	
1	80,040	1	65,151	1	50,457	1	35,881	1	20,917	1	5,939	1		1		1		1	
1/4	79,728	1/4	64,841	1/4	50,155	1/4	35,573	1/4	20,605	1/4	5,626	1/4		1/4		1/4		1/4	
1/2	79,416	1/2	64,531	1/2	49,853	1/2	35,262	1/2	20,293	1/2	5,314	1/2		1/2		1/2		1/2	
3/4	79,104	3/4	64,221	3/4	49,551	3/4	34,951	3/4	19,981	3/4	5,002	3/4		3/4		3/4		3/4	
2	78,793	2	63,911	2	49,249	2	34,639	2	19,669	2	4,690	2		2		2		2	
1/4	78,481	1/4	63,602	1/4	48,947	1/4	34,328	1/4	19,357	1/4	4,378	1/4		1/4		1/4		1/4	
1/2	78,170	1/2	63,291	1/2	48,645	1/2	34,016	1/2	19,045	1/2	4,067	1/2		1/2		1/2		1/2	
3/4	77,859	3/4	62,980	3/4	48,343	3/4	33,704	3/4	18,733	3/4	3,755	3/4		3/4		3/4		3/4	
3	77,548	3	62,669	3	48,041	3	33,392	3	18,422	3	3,444	3		3		3		3	
1/4	77,237	1/4	62,359	1/4	47,739	1/4	33,080	1/4	18,110	1/4	3,132	1/4		1/4		1/4		1/4	
1/2	76,927	1/2	62,047	1/2	47,437	1/2	32,768	1/2	17,798	1/2	2,840	1/2		1/2		1/2		1/2	
3/4	76,617	3/4	61,735	3/4	47,135	3/4	32,456	3/4	17,486	3/4	2,548	3/4		3/4		3/4		3/4	
4	76,307	4	61,424	4	46,834	4	32,144	4	17,174	4	2,256	4		4		4		4	
1/4	75,998	1/4	61,112	1/4	46,532	1/4	31,832	1/4	16,862	1/4	1,964	1/4		1/4		1/4		1/4	
1/2	75,688	1/2	60,801	1/2	46,231	1/2	31,520	1/2	16,550	1/2	1,730	1/2		1/2		1/2		1/2	
3/4	75,378	3/4	60,489	3/4	45,929	3/4	31,209	3/4	16,238	3/4	1,495	3/4		3/4		3/4		3/4	
5	75,068	5	60,178	5	45,628	5	30,897	5	15,926	5	1,261	5		5		5		5	
1/4	74,758	1/4	59,866	1/4	45,327	1/4	30,585	1/4	15,614	1/4	1,027	1/4		1/4		1/4		1/4	
1/2	74,448	1/2	59,558	1/2	45,024	1/2	30,273	1/2	15,302	1/2		1/2		1/2		1/2		1/2	
3/4	74,138	3/4	59,249	3/4	44,721	3/4	29,961	3/4	14,990	3/4		3/4		3/4		3/4		3/4	
6	73,828	6	58,941	6	44,418	6	29,649	6	14,678	6		6		6		6		6	
1/4	73,518	1/4	58,633	1/4	44,115	1/4	29,337	1/4	14,366	1/4		1/4		1/4		1/4		1/4	
1/2	73,208	1/2	58,327	1/2	43,810	1/2	29,026	1/2	14,055	1/2		1/2		1/2		1/2		1/2	
3/4	72,899	3/4	58,022	3/4	43,506	3/4	28,714	3/4	13,743	3/4		3/4		3/4		3/4		3/4	
7	72,589	7	57,717	7	43,201	7	28,402	7	13,431	7		7		7		7		7	
1/4	72,279	1/4	57,411	1/4	42,897	1/4	28,090	1/4	13,119	1/4		1/4		1/4		1/4		1/4	
1/2	71,969	1/2	57,108	1/2	42,592	1/2	27,779	1/2	12,807	1/2		1/2		1/2		1/2		1/2	
3/4	71,659	3/4	56,804	3/4	42,287	3/4	27,467	3/4	12,495	3/4		3/4		3/4		3/4		3/4	
8	71,349	8	56,501	8	41,983	8	27,155	8	12,183	8		8		8		8		8	
1/4	71,039	1/4	56,197	1/4	41,678	1/4	26,843	1/4	11,871	1/4		1/4		1/4		1/4		1/4	
1/2	70,729	1/2	55,895	1/2	41,374	1/2	26,531	1/2	11,559	1/2		1/2		1/2		1/2		1/2	
3/4	70,419	3/4	55,593	3/4	41,069	3/4	26,220	3/4	11,247	3/4		3/4		3/4		3/4		3/4	
9	70,109	9	55,291	9	40,764	9	25,908	9	10,935	9		9		9		9		9	
1/4	69,800	1/4	54,989	1/4	40,460	1/4	25,596	1/4	10,622	1/4		1/4		1/4		1/4		1/4	
1/2	69,490	1/2	54,686	1/2	40,155	1/2	25,284	1/2	10,310	1/2		1/2		1/2		1/2		1/2	
3/4	69,180	3/4	54,384	3/4	39,851	3/4	24,972	3/4	9,998	3/4		3/4		3/4		3/4		3/4	
10	68,870	10	54,082	10	39,546	10	24,660	10	9,685	10		10		10		10		10	
1/4	68,560	1/4	53,780	1/4	39,241	1/4	24,348	1/4	9,373	1/4		1/4		1/4		1/4		1/4	
1/2	68,250	1/2	53,478	1/2	38,937	1/2	24,036	1/2	9,060	1/2		1/2		1/2		1/2		1/2	
3/4	67,940	3/4	53,176	3/4	38,632	3/4	23,724	3/4	8,748	3/4		3/4		3/4		3/4		3/4	
11	67,630	11	52,874	11	38,327	11	23,412	11	8,436	11		11		11		11		11	
1/4	67,320	1/4	52,572	1/4	38,023	1/4	23,100	1/4	8,123	1/4		1/4		1/4		1/4		1/4	
1/2	67,010	1/2	52,270	1/2	37,718	1/2	22,789	1/2	7,811	1/2		1/2		1/2		1/2		1/2	
3/4	66,701	3/4	51,968	3/4	37,414	3/4	22,477	3/4	7,499	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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



# BARGE "HSM 3002"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 04 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	184,967	0	174,631	0	164,281	0	153,909	0	141,728	0	126,724	0	111,720	0	96,701
1/4		1/4		1/4	184,751	1/4	174,416	1/4	164,065	1/4	153,692	1/4	141,415	1/4	126,412	1/4	111,408	1/4	96,388
1/2		1/2		1/2	184,536	1/2	174,200	1/2	163,849	1/2	153,476	1/2	141,103	1/2	126,099	1/2	111,095	1/2	96,075
3/4		3/4		3/4	184,321	3/4	173,985	3/4	163,633	3/4	153,260	3/4	140,790	3/4	125,787	3/4	110,783	3/4	95,762
1		1		1	184,105	1	173,770	1	163,416	1	153,044	1	140,478	1	125,474	1	110,470	1	95,449
1/4		1/4		1/4	183,890	1/4	173,554	1/4	163,200	1/4	152,828	1/4	140,165	1/4	125,161	1/4	110,157	1/4	95,136
1/2		1/2		1/2	183,675	1/2	173,339	1/2	162,984	1/2	152,612	1/2	139,853	1/2	124,849	1/2	109,845	1/2	94,823
3/4		3/4		3/4	193,103	3/4	183,459	3/4	173,124	3/4	162,768	3/4	152,396	3/4	139,540	3/4	124,536	3/4	109,532
2		2		2	192,979	2	183,244	2	172,908	2	162,552	2	152,180	2	139,228	2	124,224	2	109,219
1/4		1/4		1/4	192,856	1/4	183,029	1/4	172,693	1/4	162,336	1/4	151,964	1/4	138,915	1/4	123,911	1/4	108,907
1/2		1/2		1/2	192,732	1/2	182,813	1/2	172,478	1/2	162,120	1/2	151,748	1/2	138,602	1/2	123,598	1/2	108,594
3/4		3/4		3/4	192,608	3/4	182,598	3/4	172,262	3/4	161,904	3/4	151,532	3/4	138,290	3/4	123,286	3/4	108,281
3		3		3	192,449	3	182,383	3	172,047	3	161,688	3	151,315	3	137,977	3	122,973	3	107,968
1/4		1/4		1/4	192,289	1/4	182,168	1/4	171,832	1/4	161,472	1/4	151,099	1/4	137,665	1/4	122,661	1/4	107,656
1/2		1/2		1/2	192,129	1/2	181,952	1/2	171,616	1/2	161,256	1/2	150,883	1/2	137,352	1/2	122,348	1/2	107,343
3/4		3/4		3/4	191,969	3/4	181,737	3/4	171,401	3/4	161,039	3/4	150,667	3/4	137,039	3/4	122,036	3/4	107,030
4		4		4	191,776	4	181,522	4	171,186	4	160,823	4	150,448	4	136,727	4	121,723	4	106,717
1/4		1/4		1/4	191,583	1/4	181,306	1/4	170,970	1/4	160,607	1/4	150,228	1/4	136,414	1/4	121,410	1/4	106,404
1/2		1/2		1/2	191,390	1/2	181,091	1/2	170,755	1/2	160,391	1/2	150,008	1/2	136,102	1/2	121,098	1/2	106,091
3/4		3/4		3/4	191,197	3/4	180,876	3/4	170,540	3/4	160,175	3/4	149,789	3/4	135,789	3/4	120,785	3/4	105,778
5		5		5	190,985	5	180,660	5	170,324	5	159,959	5	149,557	5	135,477	5	120,473	5	105,465
1/4		1/4		1/4	190,773	1/4	180,445	1/4	170,109	1/4	159,743	1/4	149,326	1/4	135,164	1/4	120,160	1/4	105,152
1/2		1/2		1/2	190,562	1/2	180,230	1/2	169,894	1/2	159,527	1/2	149,095	1/2	134,851	1/2	119,847	1/2	104,839
3/4		3/4		3/4	190,350	3/4	180,014	3/4	169,678	3/4	159,311	3/4	148,864	3/4	134,539	3/4	119,535	3/4	104,526
6		6		6	190,135	6	179,799	6	169,463	6	159,095	6	148,616	6	134,226	6	119,222	6	104,213
1/4		1/4		1/4	189,920	1/4	179,584	1/4	169,248	1/4	158,879	1/4	148,369	1/4	133,914	1/4	118,910	1/4	103,900
1/2		1/2		1/2	189,705	1/2	179,368	1/2	169,032	1/2	158,662	1/2	148,121	1/2	133,601	1/2	118,597	1/2	103,587
3/4		3/4		3/4	189,490	3/4	179,153	3/4	168,817	3/4	158,446	3/4	147,874	3/4	133,288	3/4	118,285	3/4	103,274
7		7		7	189,274	7	178,938	7	168,601	7	158,230	7	147,611	7	132,976	7	117,972	7	102,961
1/4		1/4		1/4	189,059	1/4	178,722	1/4	168,386	1/4	158,014	1/4	147,347	1/4	132,663	1/4	117,659	1/4	102,648
1/2		1/2		1/2	188,843	1/2	178,507	1/2	168,170	1/2	157,798	1/2	147,084	1/2	132,351	1/2	117,347	1/2	102,335
3/4		3/4		3/4	188,628	3/4	178,292	3/4	167,954	3/4	157,582	3/4	146,820	3/4	132,038	3/4	117,034	3/4	102,022
8		8		8	188,413	8	178,076	8	167,738	8	157,366	8	146,541	8	131,726	8	116,722	8	101,709
1/4		1/4		1/4	188,197	1/4	177,861	1/4	167,522	1/4	157,150	1/4	146,262	1/4	131,413	1/4	116,409	1/4	101,396
1/2		1/2		1/2	187,982	1/2	177,646	1/2	167,306	1/2	156,934	1/2	145,982	1/2	131,100	1/2	116,096	1/2	101,083
3/4		3/4		3/4	187,766	3/4	177,430	3/4	167,090	3/4	156,718	3/4	145,703	3/4	130,788	3/4	115,784	3/4	100,770
9		9		9	187,551	9	177,215	9	166,874	9	156,502	9	145,407	9	130,475	9	115,471	9	100,457
1/4		1/4		1/4	187,336	1/4	177,000	1/4	166,658	1/4	156,285	1/4	145,112	1/4	130,163	1/4	115,159	1/4	100,144
1/2		1/2		1/2	187,120	1/2	176,784	1/2	166,442	1/2	156,069	1/2	144,816	1/2	129,850	1/2	114,846	1/2	99,831
3/4		3/4		3/4	186,905	3/4	176,569	3/4	166,226	3/4	155,853	3/4	144,521	3/4	129,537	3/4	114,534	3/4	99,518
10		10		10	186,689	10	176,354	10	166,010	10	155,637	10	144,213	10	129,225	10	114,221	10	99,205
1/4		1/4		1/4	186,474	1/4	176,138	1/4	165,793	1/4	155,421	1/4	143,905	1/4	128,912	1/4	113,908	1/4	98,892
1/2		1/2		1/2	186,259	1/2	175,923	1/2	165,577	1/2	155,205	1/2	143,598	1/2	128,600	1/2	113,596	1/2	98,579
3/4		3/4		3/4	186,043	3/4	175,708	3/4	165,361	3/4	154,989	3/4	143,290	3/4	128,287	3/4	113,283	3/4	98,266
11		11		11	185,828	11	175,492	11	165,145	11	154,773	11	142,977	11	127,975	11	112,971	11	97,953
1/4		1/4		1/4	185,613	1/4	175,277	1/4	164,929	1/4	154,557	1/4	142,665	1/4	127,662	1/4	112,658	1/4	97,640
1/2		1/2		1/2	185,397	1/2	175,062	1/2	164,713	1/2	154,341	1/2	142,353	1/2	127,349	1/2	112,345	1/2	97,327
3/4		3/4		3/4	185,182	3/4	174,846	3/4	164,497	3/4	154,125	3/4	142,041	3/4	127,037	3/4	112,033	3/4	97,014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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# BARGE "HSM 3002"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 04 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	81,677	0	66,653	0	51,629	0	36,621	0	21,599	0	6,576	0		0		0		0	
1/4	81,364	1/4	66,340	1/4	51,316	1/4	36,308	1/4	21,286	1/4	6,263	1/4		1/4		1/4		1/4	
1/2	81,051	1/2	66,027	1/2	51,003	1/2	35,996	1/2	20,973	1/2	5,950	1/2		1/2		1/2		1/2	
3/4	80,738	3/4	65,714	3/4	50,690	3/4	35,683	3/4	20,660	3/4	5,637	3/4		3/4		3/4		3/4	
1	80,425	1	65,401	1	50,377	1	35,370	1	20,347	1	5,324	1		1		1		1	
1/4	80,112	1/4	65,088	1/4	50,064	1/4	35,058	1/4	20,035	1/4	5,012	1/4		1/4		1/4		1/4	
1/2	79,799	1/2	64,775	1/2	49,751	1/2	34,745	1/2	19,722	1/2	4,699	1/2		1/2		1/2		1/2	
3/4	79,486	3/4	64,462	3/4	49,438	3/4	34,432	3/4	19,409	3/4	4,386	3/4		3/4		3/4		3/4	
2	79,173	2	64,149	2	49,125	2	34,119	2	19,096	2	4,074	2		2		2		2	
1/4	78,860	1/4	63,836	1/4	48,812	1/4	33,806	1/4	18,783	1/4	3,762	1/4		1/4		1/4		1/4	
1/2	78,547	1/2	63,523	1/2	48,499	1/2	33,493	1/2	18,470	1/2	3,450	1/2		1/2		1/2		1/2	
3/4	78,234	3/4	63,210	3/4	48,186	3/4	33,180	3/4	18,157	3/4	3,138	3/4		3/4		3/4		3/4	
3	77,921	3	62,897	3	47,873	3	32,867	3	17,844	3	2,845	3		3		3		3	
1/4	77,608	1/4	62,584	1/4	47,560	1/4	32,554	1/4	17,531	1/4	2,553	1/4		1/4		1/4		1/4	
1/2	77,295	1/2	62,271	1/2	47,247	1/2	32,241	1/2	17,218	1/2	2,260	1/2		1/2		1/2		1/2	
3/4	76,982	3/4	61,958	3/4	46,935	3/4	31,928	3/4	16,905	3/4	1,967	3/4		3/4		3/4		3/4	
4	76,669	4	61,645	4	46,622	4	31,615	4	16,592	4	1,733	4		4		4		4	
1/4	76,356	1/4	61,332	1/4	46,309	1/4	31,302	1/4	16,279	1/4	1,498	1/4		1/4		1/4		1/4	
1/2	76,043	1/2	61,019	1/2	45,996	1/2	30,989	1/2	15,966	1/2	1,263	1/2		1/2		1/2		1/2	
3/4	75,730	3/4	60,706	3/4	45,684	3/4	30,676	3/4	15,653	3/4	1,029	3/4		3/4		3/4		3/4	
5	75,417	5	60,393	5	45,371	5	30,363	5	15,340	5		5		5		5		5	
1/4	75,104	1/4	60,080	1/4	45,058	1/4	30,050	1/4	15,027	1/4		1/4		1/4		1/4		1/4	
1/2	74,791	1/2	59,767	1/2	44,746	1/2	29,737	1/2	14,714	1/2		1/2		1/2		1/2		1/2	
3/4	74,478	3/4	59,454	3/4	44,433	3/4	29,424	3/4	14,401	3/4		3/4		3/4		3/4		3/4	
6	74,165	6	59,141	6	44,121	6	29,111	6	14,088	6		6		6		6		6	
1/4	73,852	1/4	58,828	1/4	43,808	1/4	28,798	1/4	13,775	1/4		1/4		1/4		1/4		1/4	
1/2	73,539	1/2	58,515	1/2	43,496	1/2	28,485	1/2	13,462	1/2		1/2		1/2		1/2		1/2	
3/4	73,226	3/4	58,202	3/4	43,183	3/4	28,172	3/4	13,149	3/4		3/4		3/4		3/4		3/4	
7	72,913	7	57,889	7	42,871	7	27,859	7	12,836	7		7		7		7		7	
1/4	72,600	1/4	57,576	1/4	42,558	1/4	27,546	1/4	12,523	1/4		1/4		1/4		1/4		1/4	
1/2	72,287	1/2	57,263	1/2	42,246	1/2	27,233	1/2	12,210	1/2		1/2		1/2		1/2		1/2	
3/4	71,974	3/4	56,950	3/4	41,933	3/4	26,920	3/4	11,897	3/4		3/4		3/4		3/4		3/4	
8	71,661	8	56,637	8	41,621	8	26,607	8	11,584	8		8		8		8		8	
1/4	71,348	1/4	56,324	1/4	41,308	1/4	26,294	1/4	11,271	1/4		1/4		1/4		1/4		1/4	
1/2	71,035	1/2	56,011	1/2	40,996	1/2	25,981	1/2	10,958	1/2		1/2		1/2		1/2		1/2	
3/4	70,722	3/4	55,698	3/4	40,683	3/4	25,668	3/4	10,645	3/4		3/4		3/4		3/4		3/4	
9	70,409	9	55,385	9	40,371	9	25,355	9	10,332	9		9		9		9		9	
1/4	70,096	1/4	55,072	1/4	40,058	1/4	25,042	1/4	10,019	1/4		1/4		1/4		1/4		1/4	
1/2	69,783	1/2	54,759	1/2	39,746	1/2	24,729	1/2	9,706	1/2		1/2		1/2		1/2		1/2	
3/4	69,470	3/4	54,446	3/4	39,433	3/4	24,416	3/4	9,393	3/4		3/4		3/4		3/4		3/4	
10	69,157	10	54,133	10	39,121	10	24,103	10	9,080	10		10		10		10		10	
1/4	68,844	1/4	53,820	1/4	38,808	1/4	23,790	1/4	8,767	1/4		1/4		1/4		1/4		1/4	
1/2	68,531	1/2	53,507	1/2	38,496	1/2	23,477	1/2	8,454	1/2		1/2		1/2		1/2		1/2	
3/4	68,218	3/4	53,194	3/4	38,183	3/4	23,164	3/4	8,141	3/4		3/4		3/4		3/4		3/4	
11	67,905	11	52,881	11	37,871	11	22,851	11	7,828	11		11		11		11		11	
1/4	67,592	1/4	52,568	1/4	37,558	1/4	22,538	1/4	7,515	1/4		1/4		1/4		1/4		1/4	
1/2	67,279	1/2	52,255	1/2	37,246	1/2	22,225	1/2	7,202	1/2		1/2		1/2		1/2		1/2	
3/4	66,966	3/4	51,942	3/4	36,933	3/4	21,912	3/4	6,889	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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



# BARGE "HSM 3002"

# PORT SLOP TANK

## ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 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	4,113	0	2,958	0	1,804	0	650	0		0		0		0	
1/4		1/4		1/4	4,089	1/4	2,934	1/4	1,780	1/4	626	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,065	1/2	2,910	1/2	1,756	1/2	602	1/2		1/2		1/2		1/2	
3/4		3/4	5,140	3/4	4,041	3/4	2,886	3/4	1,732	3/4	577	3/4		3/4		3/4		3/4	
1		1	5,128	1	4,017	1	2,862	1	1,708	1	553	1		1		1		1	
1/4		1/4	5,117	1/4	3,993	1/4	2,838	1/4	1,684	1/4	529	1/4		1/4		1/4		1/4	
1/2		1/2	5,105	1/2	3,969	1/2	2,814	1/2	1,660	1/2	505	1/2		1/2		1/2		1/2	
3/4		3/4	5,093	3/4	3,945	3/4	2,790	3/4	1,636	3/4	481	3/4		3/4		3/4		3/4	
2		2	5,070	2	3,921	2	2,766	2	1,612	2	457	2		2		2		2	
1/4		1/4	5,046	1/4	3,897	1/4	2,742	1/4	1,588	1/4	433	1/4		1/4		1/4		1/4	
1/2		1/2	5,023	1/2	3,873	1/2	2,718	1/2	1,564	1/2	409	1/2		1/2		1/2		1/2	
3/4		3/4	4,999	3/4	3,849	3/4	2,693	3/4	1,540	3/4	385	3/4		3/4		3/4		3/4	
3		3	4,975	3	3,824	3	2,669	3	1,516	3	361	3		3		3		3	
1/4		1/4	4,952	1/4	3,800	1/4	2,645	1/4	1,492	1/4	337	1/4		1/4		1/4		1/4	
1/2		1/2	4,928	1/2	3,776	1/2	2,621	1/2	1,468	1/2	313	1/2		1/2		1/2		1/2	
3/4		3/4	4,904	3/4	3,752	3/4	2,597	3/4	1,444	3/4	289	3/4		3/4		3/4		3/4	
4		4	4,881	4	3,728	4	2,573	4	1,419	4	265	4		4		4		4	
1/4		1/4	4,857	1/4	3,704	1/4	2,550	1/4	1,395	1/4	241	1/4		1/4		1/4		1/4	
1/2		1/2	4,833	1/2	3,680	1/2	2,526	1/2	1,371	1/2	217	1/2		1/2		1/2		1/2	
3/4		3/4	4,810	3/4	3,656	3/4	2,502	3/4	1,347	3/4	192	3/4		3/4		3/4		3/4	
5		5	4,786	5	3,632	5	2,478	5	1,323	5	168	5		5		5		5	
1/4		1/4	4,762	1/4	3,608	1/4	2,454	1/4	1,299	1/4	144	1/4		1/4		1/4		1/4	
1/2		1/2	4,739	1/2	3,584	1/2	2,430	1/2	1,275	1/2	120	1/2		1/2		1/2		1/2	
3/4		3/4	4,715	3/4	3,560	3/4	2,406	3/4	1,251	3/4	96	3/4		3/4		3/4		3/4	
6		6	4,691	6	3,536	6	2,382	6	1,227	6		6		6		6		6	
1/4		1/4	4,667	1/4	3,512	1/4	2,358	1/4	1,203	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,643	1/2	3,488	1/2	2,334	1/2	1,179	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,619	3/4	3,464	3/4	2,310	3/4	1,155	3/4		3/4		3/4		3/4		3/4	
7		7	4,594	7	3,439	7	2,286	7	1,131	7		7		7		7		7	
1/4		1/4	4,570	1/4	3,415	1/4	2,262	1/4	1,107	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,546	1/2	3,391	1/2	2,238	1/2	1,083	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,522	3/4	3,367	3/4	2,214	3/4	1,059	3/4		3/4		3/4		3/4		3/4	
8		8	4,498	8	3,343	8	2,189	8	1,035	8		8		8		8		8	
1/4		1/4	4,474	1/4	3,319	1/4	2,165	1/4	1,011	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,450	1/2	3,295	1/2	2,141	1/2	987	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,426	3/4	3,271	3/4	2,117	3/4	962	3/4		3/4		3/4		3/4		3/4	
9		9	4,402	9	3,247	9	2,093	9	938	9		9		9		9		9	
1/4		1/4	4,378	1/4	3,223	1/4	2,069	1/4	914	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,354	1/2	3,199	1/2	2,045	1/2	890	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,330	3/4	3,175	3/4	2,021	3/4	866	3/4		3/4		3/4		3/4		3/4	
10		10	4,306	10	3,151	10	1,997	10	842	10		10		10		10		10	
1/4		1/4	4,282	1/4	3,127	1/4	1,973	1/4	818	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,258	1/2	3,103	1/2	1,949	1/2	794	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,234	3/4	3,078	3/4	1,925	3/4	770	3/4		3/4		3/4		3/4		3/4	
11		11	4,209	11	3,054	11	1,901	11	746	11		11		11		11		11	
1/4		1/4	4,185	1/4	3,030	1/4	1,877	1/4	722	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,161	1/2	3,006	1/2	1,853	1/2	698	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,137	3/4	2,982	3/4	1,829	3/4	674	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

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 3002"

# STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-05 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	4,089	0	2,934	0	1,780	0	626	0		0		0		0	
1/4		1/4		1/4	4,065	1/4	2,910	1/4	1,756	1/4	602	1/4		1/4		1/4		1/4	
1/2		1/2	5,140	1/2	4,041	1/2	2,886	1/2	1,732	1/2	577	1/2		1/2		1/2		1/2	
3/4		3/4	5,128	3/4	4,017	3/4	2,862	3/4	1,708	3/4	553	3/4		3/4		3/4		3/4	
1		1	5,117	1	3,993	1	2,838	1	1,684	1	529	1		1		1		1	
1/4		1/4	5,105	1/4	3,969	1/4	2,814	1/4	1,660	1/4	505	1/4		1/4		1/4		1/4	
1/2		1/2	5,093	1/2	3,945	1/2	2,790	1/2	1,636	1/2	481	1/2		1/2		1/2		1/2	
3/4		3/4	5,070	3/4	3,921	3/4	2,766	3/4	1,612	3/4	457	3/4		3/4		3/4		3/4	
2		2	5,046	2	3,897	2	2,742	2	1,588	2	433	2		2		2		2	
1/4		1/4	5,023	1/4	3,873	1/4	2,718	1/4	1,564	1/4	409	1/4		1/4		1/4		1/4	
1/2		1/2	4,999	1/2	3,849	1/2	2,693	1/2	1,540	1/2	385	1/2		1/2		1/2		1/2	
3/4		3/4	4,975	3/4	3,824	3/4	2,669	3/4	1,516	3/4	361	3/4		3/4		3/4		3/4	
3		3	4,952	3	3,800	3	2,645	3	1,492	3	337	3		3		3		3	
1/4		1/4	4,928	1/4	3,776	1/4	2,621	1/4	1,468	1/4	313	1/4		1/4		1/4		1/4	
1/2		1/2	4,904	1/2	3,752	1/2	2,597	1/2	1,444	1/2	289	1/2		1/2		1/2		1/2	
3/4		3/4	4,881	3/4	3,728	3/4	2,573	3/4	1,419	3/4	265	3/4		3/4		3/4		3/4	
4		4	4,857	4	3,704	4	2,550	4	1,395	4	241	4		4		4		4	
1/4		1/4	4,833	1/4	3,680	1/4	2,526	1/4	1,371	1/4	217	1/4		1/4		1/4		1/4	
1/2		1/2	4,810	1/2	3,656	1/2	2,502	1/2	1,347	1/2	192	1/2		1/2		1/2		1/2	
3/4		3/4	4,786	3/4	3,632	3/4	2,478	3/4	1,323	3/4	168	3/4		3/4		3/4		3/4	
5		5	4,762	5	3,608	5	2,454	5	1,299	5	144	5		5		5		5	
1/4		1/4	4,739	1/4	3,584	1/4	2,430	1/4	1,275	1/4	120	1/4		1/4		1/4		1/4	
1/2		1/2	4,715	1/2	3,560	1/2	2,406	1/2	1,251	1/2	96	1/2		1/2		1/2		1/2	
3/4		3/4	4,691	3/4	3,536	3/4	2,382	3/4	1,227	3/4		3/4		3/4		3/4		3/4	
6		6	4,667	6	3,512	6	2,358	6	1,203	6		6		6		6		6	
1/4		1/4	4,643	1/4	3,488	1/4	2,334	1/4	1,179	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,619	1/2	3,464	1/2	2,310	1/2	1,155	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,594	3/4	3,439	3/4	2,286	3/4	1,131	3/4		3/4		3/4		3/4		3/4	
7		7	4,570	7	3,415	7	2,262	7	1,107	7		7		7		7		7	
1/4		1/4	4,546	1/4	3,391	1/4	2,238	1/4	1,083	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,522	1/2	3,367	1/2	2,214	1/2	1,059	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,498	3/4	3,343	3/4	2,189	3/4	1,035	3/4		3/4		3/4		3/4		3/4	
8		8	4,474	8	3,319	8	2,165	8	1,011	8		8		8		8		8	
1/4		1/4	4,450	1/4	3,295	1/4	2,141	1/4	987	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,426	1/2	3,271	1/2	2,117	1/2	962	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,402	3/4	3,247	3/4	2,093	3/4	938	3/4		3/4		3/4		3/4		3/4	
9		9	4,378	9	3,223	9	2,069	9	914	9		9		9		9		9	
1/4		1/4	4,354	1/4	3,199	1/4	2,045	1/4	890	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,330	1/2	3,175	1/2	2,021	1/2	866	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,306	3/4	3,151	3/4	1,997	3/4	842	3/4		3/4		3/4		3/4		3/4	
10		10	4,282	10	3,127	10	1,973	10	818	10		10		10		10		10	
1/4		1/4	4,258	1/4	3,103	1/4	1,949	1/4	794	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,234	1/2	3,078	1/2	1,925	1/2	770	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,209	3/4	3,054	3/4	1,901	3/4	746	3/4		3/4		3/4		3/4		3/4	
11		11	4,185	11	3,030	11	1,877	11	722	11		11		11		11		11	
1/4		1/4	4,161	1/4	3,006	1/4	1,853	1/4	698	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,137	1/2	2,982	1/2	1,829	1/2	674	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,113	3/4	2,958	3/4	1,804	3/4	650	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 11/01/2016 CL  
CALCULATED: 11/01/2016 CL  
PRINTED: 11/02/2016 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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