



# BARGE "HSM 3019"

## ULLAGE TRIM TABLE "MMC" GAUGE

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

(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"

September 17, 2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3019"

## ULLAGE TRIM TABLE 8" GAUGE HATCH

	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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(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 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

September 17, 2019

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# BARGE "HSM 3019"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

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	200,265	0	185,282	0	170,282	0	155,253	0	140,223	0	125,194	0	110,165	0	95,131
1/4		1/4		1/4	199,954	1/4	184,969	1/4	169,969	1/4	154,939	1/4	139,910	1/4	124,881	1/4	109,852	1/4	94,817
1/2		1/2		1/2	199,642	1/2	184,657	1/2	169,656	1/2	154,626	1/2	139,597	1/2	124,568	1/2	109,539	1/2	94,504
3/4		3/4		3/4	199,330	3/4	184,345	3/4	169,342	3/4	154,313	3/4	139,284	3/4	124,255	3/4	109,226	3/4	94,191
1		1		1	199,018	1	184,033	1	169,029	1	154,000	1	138,971	1	123,942	1	108,913	1	93,878
1/4		1/4		1/4	198,706	1/4	183,721	1/4	168,716	1/4	153,687	1/4	138,658	1/4	123,629	1/4	108,600	1/4	93,564
1/2		1/2		1/2	198,394	1/2	183,408	1/2	168,403	1/2	153,374	1/2	138,345	1/2	123,316	1/2	108,286	1/2	93,251
3/4		3/4		3/4	198,082	3/4	183,096	3/4	168,090	3/4	153,061	3/4	138,032	3/4	123,003	3/4	107,973	3/4	92,938
2		2		2	197,769	2	182,784	2	167,777	2	152,748	2	137,719	2	122,689	2	107,660	2	92,625
1/4		1/4		1/4	197,457	1/4	182,472	1/4	167,464	1/4	152,435	1/4	137,405	1/4	122,376	1/4	107,347	1/4	92,311
1/2		1/2		1/2	211,079	1/2	197,145	1/2	182,160	1/2	167,151	1/2	152,122	1/2	137,092	1/2	122,063	1/2	107,034
3/4		3/4		3/4	210,899	3/4	196,833	3/4	181,848	3/4	166,838	3/4	151,808	3/4	136,779	3/4	121,750	3/4	106,721
3		3		3	210,720	3	196,521	3	181,535	3	166,524	3	151,495	3	136,466	3	121,437	3	91,372
1/4		1/4		1/4	210,540	1/4	196,208	1/4	181,223	1/4	166,211	1/4	151,182	1/4	136,153	1/4	121,124	1/4	91,058
1/2		1/2		1/2	210,347	1/2	195,896	1/2	180,911	1/2	165,898	1/2	150,869	1/2	135,840	1/2	120,811	1/2	90,745
3/4		3/4		3/4	210,128	3/4	195,584	3/4	180,599	3/4	165,585	3/4	150,556	3/4	135,527	3/4	120,498	3/4	90,432
4		4		4	209,897	4	195,272	4	180,287	4	165,272	4	150,243	4	135,214	4	120,185	4	90,119
1/4		1/4		1/4	209,665	1/4	194,960	1/4	179,974	1/4	164,959	1/4	149,930	1/4	134,901	1/4	119,871	1/4	89,805
1/2		1/2		1/2	209,421	1/2	194,647	1/2	179,662	1/2	164,646	1/2	149,617	1/2	134,587	1/2	119,558	1/2	89,492
3/4		3/4		3/4	209,153	3/4	194,335	3/4	179,350	3/4	164,333	3/4	149,304	3/4	134,274	3/4	119,245	3/4	89,179
5		5		5	208,872	5	194,023	5	179,038	5	164,020	5	148,990	5	133,961	5	118,932	5	88,866
1/4		1/4		1/4	208,592	1/4	193,711	1/4	178,726	1/4	163,706	1/4	148,677	1/4	133,648	1/4	118,619	1/4	88,552
1/2		1/2		1/2	208,305	1/2	193,399	1/2	178,413	1/2	163,393	1/2	148,364	1/2	133,335	1/2	118,306	1/2	88,239
3/4		3/4		3/4	208,006	3/4	193,087	3/4	178,101	3/4	163,080	3/4	148,051	3/4	133,022	3/4	117,993	3/4	87,926
6		6		6	207,700	6	192,774	6	177,789	6	162,767	6	147,738	6	132,709	6	117,680	6	87,613
1/4		1/4		1/4	207,394	1/4	192,462	1/4	177,477	1/4	162,454	1/4	147,425	1/4	132,396	1/4	117,367	1/4	87,299
1/2		1/2		1/2	207,087	1/2	192,150	1/2	177,165	1/2	162,141	1/2	147,112	1/2	132,083	1/2	117,053	1/2	86,986
3/4		3/4		3/4	206,778	3/4	191,838	3/4	176,852	3/4	161,828	3/4	146,799	3/4	131,770	3/4	116,740	3/4	86,673
7		7		7	206,468	7	191,526	7	176,540	7	161,515	7	146,486	7	131,456	7	116,427	7	86,360
1/4		1/4		1/4	206,159	1/4	191,213	1/4	176,228	1/4	161,202	1/4	146,172	1/4	131,143	1/4	116,114	1/4	86,046
1/2		1/2		1/2	205,849	1/2	190,901	1/2	175,916	1/2	160,889	1/2	145,859	1/2	130,830	1/2	115,801	1/2	85,733
3/4		3/4		3/4	205,539	3/4	190,589	3/4	175,603	3/4	160,575	3/4	145,546	3/4	130,517	3/4	115,488	3/4	85,420
8		8		8	205,229	8	190,277	8	175,291	8	160,262	8	145,233	8	130,204	8	115,175	8	85,107
1/4		1/4		1/4	204,919	1/4	189,965	1/4	174,978	1/4	159,949	1/4	144,920	1/4	129,891	1/4	114,862	1/4	84,793
1/2		1/2		1/2	204,608	1/2	189,652	1/2	174,665	1/2	159,636	1/2	144,607	1/2	129,578	1/2	114,549	1/2	84,480
3/4		3/4		3/4	204,298	3/4	189,340	3/4	174,352	3/4	159,323	3/4	144,294	3/4	129,265	3/4	114,235	3/4	84,167
9		9		9	203,988	9	189,028	9	174,039	9	159,010	9	143,981	9	128,952	9	113,922	9	83,854
1/4		1/4		1/4	203,678	1/4	188,716	1/4	173,726	1/4	158,697	1/4	143,668	1/4	128,638	1/4	113,609	1/4	83,541
1/2		1/2		1/2	203,368	1/2	188,404	1/2	173,413	1/2	158,384	1/2	143,354	1/2	128,325	1/2	113,296	1/2	83,227
3/4		3/4		3/4	203,058	3/4	188,091	3/4	173,100	3/4	158,071	3/4	143,041	3/4	128,012	3/4	112,983	3/4	82,914
10		10		10	202,748	10	187,779	10	172,787	10	157,757	10	142,728	10	127,699	10	112,670	10	82,601
1/4		1/4		1/4	202,437	1/4	187,467	1/4	172,473	1/4	157,444	1/4	142,415	1/4	127,386	1/4	112,357	1/4	82,288
1/2		1/2		1/2	202,127	1/2	187,155	1/2	172,160	1/2	157,131	1/2	142,102	1/2	127,073	1/2	112,044	1/2	81,974
3/4		3/4		3/4	201,817	3/4	186,843	3/4	171,847	3/4	156,818	3/4	141,789	3/4	126,760	3/4	111,731	3/4	81,661
11		11		11	201,507	11	186,530	11	171,534	11	156,505	11	141,476	11	126,447	11	111,418	11	81,348
1/4		1/4		1/4	201,197	1/4	186,218	1/4	171,221	1/4	156,192	1/4	141,163	1/4	126,134	1/4	111,104	1/4	81,035
1/2		1/2		1/2	200,887	1/2	185,906	1/2	170,908	1/2	155,879	1/2	140,850	1/2	125,820	1/2	110,791	1/2	80,721
3/4		3/4		3/4	200,576	3/4	185,594	3/4	170,595	3/4	155,566	3/4	140,537	3/4	125,507	3/4	110,478	3/4	80,408

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 THREADS ON "MMC" VALVE OR 8" HATCH.

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

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

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## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

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	80,095	0	65,060	0	50,122	0	35,093	0	20,058	0	5,798	0		0		0		0	
1/4	79,782	1/4	64,746	1/4	49,811	1/4	34,780	1/4	19,745	1/4	5,523	1/4		1/4		1/4		1/4	
1/2	79,468	1/2	64,434	1/2	49,499	1/2	34,467	1/2	19,431	1/2	5,249	1/2		1/2		1/2		1/2	
3/4	79,155	3/4	64,121	3/4	49,186	3/4	34,153	3/4	19,118	3/4	4,977	3/4		3/4		3/4		3/4	
1	78,842	1	63,809	1	48,874	1	33,840	1	18,805	1	4,707	1		1		1		1	
1/4	78,529	1/4	63,497	1/4	48,561	1/4	33,527	1/4	18,492	1/4	4,436	1/4		1/4		1/4		1/4	
1/2	78,215	1/2	63,186	1/2	48,249	1/2	33,214	1/2	18,179	1/2	4,166	1/2		1/2		1/2		1/2	
3/4	77,902	3/4	62,874	3/4	47,936	3/4	32,900	3/4	17,866	3/4	3,898	3/4		3/4		3/4		3/4	
2	77,589	2	62,563	2	47,622	2	32,587	2	17,554	2	3,632	2		2		2		2	
1/4	77,276	1/4	62,252	1/4	47,309	1/4	32,274	1/4	17,242	1/4	3,365	1/4		1/4		1/4		1/4	
1/2	76,962	1/2	61,941	1/2	46,996	1/2	31,961	1/2	16,930	1/2	3,099	1/2		1/2		1/2		1/2	
3/4	76,649	3/4	61,630	3/4	46,683	3/4	31,647	3/4	16,620	3/4	2,836	3/4		3/4		3/4		3/4	
3	76,336	3	61,319	3	46,369	3	31,334	3	16,311	3	2,574	3		3		3		3	
1/4	76,023	1/4	61,009	1/4	46,056	1/4	31,021	1/4	16,001	1/4	2,312	1/4		1/4		1/4		1/4	
1/2	75,709	1/2	60,698	1/2	45,743	1/2	30,708	1/2	15,693	1/2	2,056	1/2		1/2		1/2		1/2	
3/4	75,396	3/4	60,387	3/4	45,430	3/4	30,395	3/4	15,386	3/4	1,811	3/4		3/4		3/4		3/4	
4	75,083	4	60,076	4	45,116	4	30,081	4	15,081	4	1,572	4		4		4		4	
1/4	74,770	1/4	59,765	1/4	44,803	1/4	29,768	1/4	14,775	1/4	1,333	1/4		1/4		1/4		1/4	
1/2	74,456	1/2	59,454	1/2	44,490	1/2	29,455	1/2	14,471	1/2	1,110	1/2		1/2		1/2		1/2	
3/4	74,143	3/4	59,143	3/4	44,177	3/4	29,142	3/4	14,168	3/4	917	3/4		3/4		3/4		3/4	
5	73,830	5	58,832	5	43,864	5	28,828	5	13,866	5	740	5		5		5		5	
1/4	73,517	1/4	58,521	1/4	43,550	1/4	28,515	1/4	13,565	1/4	563	1/4		1/4		1/4		1/4	
1/2	73,204	1/2	58,211	1/2	43,237	1/2	28,202	1/2	13,264	3/8	474	1/2		1/2		1/2		1/2	
3/4	72,890	3/4	57,900	3/4	42,924	3/4	27,889	3/4	12,965	3/4		3/4		3/4		3/4		3/4	
6	72,577	6	57,589	6	42,611	6	27,575	6	12,667	6		6		6		6		6	
1/4	72,264	1/4	57,278	1/4	42,297	1/4	27,262	1/4	12,370	1/4		1/4		1/4		1/4		1/4	
1/2	71,951	1/2	56,967	1/2	41,984	1/2	26,949	1/2	12,073	1/2		1/2		1/2		1/2		1/2	
3/4	71,637	3/4	56,656	3/4	41,671	3/4	26,636	3/4	11,778	3/4		3/4		3/4		3/4		3/4	
7	71,324	7	56,345	7	41,358	7	26,322	7	11,484	7		7		7		7		7	
1/4	71,011	1/4	56,035	1/4	41,044	1/4	26,009	1/4	11,190	1/4		1/4		1/4		1/4		1/4	
1/2	70,698	1/2	55,724	1/2	40,731	1/2	25,696	1/2	10,897	1/2		1/2		1/2		1/2		1/2	
3/4	70,384	3/4	55,413	3/4	40,418	3/4	25,383	3/4	10,606	3/4		3/4		3/4		3/4		3/4	
8	70,071	8	55,102	8	40,105	8	25,070	8	10,316	8		8		8		8		8	
1/4	69,758	1/4	54,791	1/4	39,792	1/4	24,756	1/4	10,026	1/4		1/4		1/4		1/4		1/4	
1/2	69,445	1/2	54,480	1/2	39,478	1/2	24,443	1/2	9,737	1/2		1/2		1/2		1/2		1/2	
3/4	69,131	3/4	54,169	3/4	39,165	3/4	24,130	3/4	9,449	3/4		3/4		3/4		3/4		3/4	
9	68,818	9	53,858	9	38,852	9	23,817	9	9,163	9		9		9		9		9	
1/4	68,505	1/4	53,548	1/4	38,539	1/4	23,503	1/4	8,877	1/4		1/4		1/4		1/4		1/4	
1/2	68,192	1/2	53,237	1/2	38,225	1/2	23,190	1/2	8,592	1/2		1/2		1/2		1/2		1/2	
3/4	67,878	3/4	52,926	3/4	37,912	3/4	22,877	3/4	8,308	3/4		3/4		3/4		3/4		3/4	
10	67,565	10	52,614	10	37,599	10	22,564	10	8,026	10		10		10		10		10	
1/4	67,252	1/4	52,303	1/4	37,286	1/4	22,250	1/4	7,743	1/4		1/4		1/4		1/4		1/4	
1/2	66,939	1/2	51,992	1/2	36,972	1/2	21,937	1/2	7,462	1/2		1/2		1/2		1/2		1/2	
3/4	66,625	3/4	51,681	3/4	36,659	3/4	21,624	3/4	7,183	3/4		3/4		3/4		3/4		3/4	
11	66,312	11	51,369	11	36,346	11	21,311	11	6,904	11		11		11		11		11	
1/4	65,999	1/4	51,058	1/4	36,033	1/4	20,997	1/4	6,626	1/4		1/4		1/4		1/4		1/4	
1/2	65,686	1/2	50,746	1/2	35,719	1/2	20,684	1/2	6,348	1/2		1/2		1/2		1/2		1/2	
3/4	65,373	3/4	50,434	3/4	35,406	3/4	20,371	3/4	6,072	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2019 JS  
CALCULATED: 09/17/2019 CL  
REPRINTED: 10/10/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

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





# BARGE "HSM 3019"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	79,535	1/4	64,505	1/4	49,482	1/4	34,453	1/4	19,424	1/4	5,247	1/4		1/4		1/4		1/4			
1/2	79,222	1/2	64,192	1/2	49,169	1/2	34,140	1/2	19,110	1/2	4,975	1/2		1/2		1/2		1/2			
3/4	78,908	3/4	63,879	3/4	48,856	3/4	33,827	3/4	18,797	3/4	4,705	3/4		3/4		3/4		3/4			
1	78,595	1	63,565	1	48,543	1	33,514	1	18,484	1	4,434	1		1		1		1			
1/4	78,282	1/4	63,252	1/4	48,230	1/4	33,201	1/4	18,171	1/4	4,164	1/4		1/4		1/4		1/4			
1/2	77,969	1/2	62,939	1/2	47,917	1/2	32,887	1/2	17,859	1/2	3,897	1/2		1/2		1/2		1/2			
3/4	77,656	3/4	62,626	3/4	47,604	3/4	32,574	3/4	17,547	3/4	3,630	3/4		3/4		3/4		3/4			
2	77,343	2	62,313	2	47,291	2	32,261	2	17,235	2	3,363	2		2		2		2			
1/4	77,030	1/4	62,000	1/4	46,977	1/4	31,948	1/4	16,923	1/4	3,098	1/4		1/4		1/4		1/4			
1/2	76,717	1/2	61,687	1/2	46,664	1/2	31,635	1/2	16,613	1/2	2,835	1/2		1/2		1/2		1/2			
3/4	76,403	3/4	61,374	3/4	46,351	3/4	31,322	3/4	16,304	3/4	2,573	3/4		3/4		3/4		3/4			
3	76,090	3	61,061	3	46,038	3	31,009	3	15,995	3	2,311	3		3		3		3			
1/4	75,777	1/4	60,748	1/4	45,725	1/4	30,696	1/4	15,686	1/4	2,054	1/4		1/4		1/4		1/4			
1/2	75,464	1/2	60,435	1/2	45,412	1/2	30,382	1/2	15,380	1/2	1,810	1/2		1/2		1/2		1/2			
3/4	75,151	3/4	60,123	3/4	45,099	3/4	30,069	3/4	15,075	3/4	1,571	3/4		3/4		3/4		3/4			
4	74,838	4	59,810	4	44,786	4	29,756	4	14,769	4	1,332	4		4		4		4			
1/4	74,525	1/4	59,497	1/4	44,473	1/4	29,443	1/4	14,465	1/4	1,109	1/4		1/4		1/4		1/4			
1/2	74,212	1/2	59,184	1/2	44,159	1/2	29,130	1/2	14,162	1/2	917	1/2		1/2		1/2		1/2			
3/4	73,899	3/4	58,871	3/4	43,846	3/4	28,817	3/4	13,861	3/4	740	3/4		3/4		3/4		3/4			
5	73,585	5	58,558	5	43,533	5	28,504	5	13,559	5	563	5		5		5		5			
1/4	73,272	1/4	58,245	1/4	43,220	1/4	28,191	1/4	13,259	1/4	474	1/4		1/4		1/4		1/4			
1/2	72,959	1/2	57,932	1/2	42,907	1/2	27,878	1/2	12,960	1/2		1/2		1/2		1/2		1/2			
3/4	72,646	3/4	57,619	3/4	42,594	3/4	27,564	3/4	12,662	3/4		3/4		3/4		3/4		3/4			
6	72,333	6	57,306	6	42,281	6	27,251	6	12,365	6		6		6		6		6			
1/4	72,020	1/4	56,994	1/4	41,968	1/4	26,938	1/4	12,068	1/4		1/4		1/4		1/4		1/4			
1/2	71,707	1/2	56,681	1/2	41,655	1/2	26,625	1/2	11,773	1/2		1/2		1/2		1/2		1/2			
3/4	71,394	3/4	56,368	3/4	41,341	3/4	26,312	3/4	11,479	3/4		3/4		3/4		3/4		3/4			
7	71,080	7	56,055	7	41,028	7	25,999	7	11,185	7		7		7		7		7			
1/4	70,767	1/4	55,742	1/4	40,715	1/4	25,686	1/4	10,892	1/4		1/4		1/4		1/4		1/4			
1/2	70,454	1/2	55,429	1/2	40,402	1/2	25,373	1/2	10,602	1/2		1/2		1/2		1/2		1/2			
3/4	70,141	3/4	55,116	3/4	40,089	3/4	25,060	3/4	10,312	3/4		3/4		3/4		3/4		3/4			
8	69,828	8	54,803	8	39,776	8	24,746	8	10,022	8		8		8		8		8			
1/4	69,515	1/4	54,490	1/4	39,463	1/4	24,433	1/4	9,733	1/4		1/4		1/4		1/4		1/4			
1/2	69,202	1/2	54,178	1/2	39,150	1/2	24,120	1/2	9,445	1/2		1/2		1/2		1/2		1/2			
3/4	68,889	3/4	53,865	3/4	38,837	3/4	23,807	3/4	9,159	3/4		3/4		3/4		3/4		3/4			
9	68,575	9	53,552	9	38,523	9	23,494	9	8,873	9		9		9		9		9			
1/4	68,262	1/4	53,239	1/4	38,210	1/4	23,181	1/4	8,588	1/4		1/4		1/4		1/4		1/4			
1/2	67,949	1/2	52,926	1/2	37,897	1/2	22,868	1/2	8,305	1/2		1/2		1/2		1/2		1/2			
3/4	67,636	3/4	52,613	3/4	37,584	3/4	22,555	3/4	8,022	3/4		3/4		3/4		3/4		3/4			
10	67,323	10	52,300	10	37,271	10	22,242	10	7,740	10		10		10		10		10			
1/4	67,010	1/4	51,987	1/4	36,958	1/4	21,928	1/4	7,459	1/4		1/4		1/4		1/4		1/4			
1/2	66,697	1/2	51,674	1/2	36,645	1/2	21,615	1/2	7,179	1/2		1/2		1/2		1/2		1/2			
3/4	66,384	3/4	51,361	3/4	36,332	3/4	21,302	3/4	6,901	3/4		3/4		3/4		3/4		3/4			
11	66,070	11	51,048	11	36,019	11	20,989	11	6,623	11		11		11		11		11			
1/4	65,757	1/4	50,735	1/4	35,705	1/4	20,676	1/4	6,345	1/4		1/4		1/4		1/4		1/4			
1/2	65,444	1/2	50,422	1/2	35,392	1/2	20,363	1/2	6,070	1/2		1/2		1/2		1/2		1/2			
3/4	65,131	3/4	50,109	3/4	35,079	3/4	20,050	3/4	5,795	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "HSM 3019"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

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	202,344	0	187,321	0	172,278	0	157,201	0	142,123	0	127,046	0	111,969	0	96,885
1/4		1/4		1/4	202,033	1/4	187,008	1/4	171,964	1/4	156,887	1/4	141,809	1/4	126,732	1/4	111,655	1/4	96,571
1/2		1/2		1/2	201,721	1/2	186,695	1/2	171,650	1/2	156,573	1/2	141,495	1/2	126,418	1/2	111,341	1/2	96,257
3/4		3/4		3/4	201,408	3/4	186,382	3/4	171,336	3/4	156,258	3/4	141,181	3/4	126,104	3/4	111,026	3/4	95,942
1		1		1	201,095	1	186,069	1	171,022	1	155,944	1	140,867	1	125,790	1	110,712	1	95,628
1/4		1/4		1/4	200,782	1/4	185,756	1/4	170,708	1/4	155,630	1/4	140,553	1/4	125,476	1/4	110,398	1/4	95,314
1/2		1/2		1/2	200,469	1/2	185,443	1/2	170,393	1/2	155,316	1/2	140,239	1/2	125,161	1/2	110,084	1/2	94,999
3/4		3/4		3/4	200,156	3/4	185,130	3/4	170,079	3/4	155,002	3/4	139,925	3/4	124,847	3/4	109,770	3/4	94,685
2		2		2	199,843	2	184,817	2	169,765	2	154,688	2	139,611	2	124,533	2	109,456	2	94,371
1/4		1/4		1/4	199,530	1/4	184,504	1/4	169,451	1/4	154,374	1/4	139,296	1/4	124,219	1/4	109,141	1/4	94,057
1/2		1/2		1/2	213,153	1/2	199,217	1/2	184,191	1/2	169,137	1/2	138,982	1/2	123,905	1/2	108,827	1/2	93,742
3/4		3/4		3/4	212,974	3/4	198,904	3/4	183,878	3/4	168,823	3/4	138,668	3/4	123,591	3/4	108,513	3/4	93,428
3		3		3	212,795	3	198,591	3	183,565	3	168,509	3	153,431	3	138,354	3	108,199	3	93,114
1/4		1/4		1/4	212,616	1/4	198,278	1/4	183,252	1/4	168,195	1/4	138,040	1/4	122,963	1/4	107,884	1/4	92,800
1/2		1/2		1/2	212,423	1/2	197,965	1/2	182,939	1/2	167,881	1/2	137,726	1/2	122,649	1/2	107,570	1/2	92,485
3/4		3/4		3/4	212,205	3/4	197,652	3/4	182,626	3/4	167,566	3/4	137,412	3/4	122,334	3/4	107,256	3/4	92,171
4		4		4	211,973	4	197,339	4	182,313	4	167,252	4	152,175	4	137,098	4	106,942	4	91,857
1/4		1/4		1/4	211,742	1/4	197,026	1/4	182,000	1/4	166,938	1/4	136,784	1/4	121,706	1/4	106,627	1/4	91,543
1/2		1/2		1/2	211,498	1/2	196,713	1/2	181,687	1/2	166,624	1/2	136,469	1/2	121,392	1/2	106,313	1/2	91,228
3/4		3/4		3/4	211,230	3/4	196,400	3/4	181,374	3/4	166,310	3/4	136,155	3/4	121,078	3/4	105,999	3/4	90,914
5		5		5	210,950	5	196,087	5	181,060	5	165,996	5	150,919	5	135,841	5	105,685	5	90,600
1/4		1/4		1/4	210,670	1/4	195,774	1/4	180,747	1/4	165,682	1/4	135,527	1/4	120,450	1/4	105,370	1/4	90,285
1/2		1/2		1/2	210,383	1/2	195,461	1/2	180,434	1/2	165,368	1/2	135,213	1/2	120,136	1/2	105,056	1/2	89,971
3/4		3/4		3/4	210,084	3/4	195,148	3/4	180,121	3/4	165,054	3/4	134,899	3/4	119,822	3/4	104,742	3/4	89,657
6		6		6	209,778	6	194,834	6	179,808	6	164,739	6	149,662	6	134,585	6	104,428	6	89,343
1/4		1/4		1/4	209,472	1/4	194,521	1/4	179,495	1/4	164,425	1/4	149,348	1/4	134,271	1/4	104,113	1/4	89,028
1/2		1/2		1/2	209,165	1/2	194,208	1/2	179,182	1/2	164,111	1/2	149,034	1/2	133,957	1/2	103,799	1/2	88,714
3/4		3/4		3/4	208,857	3/4	193,895	3/4	178,869	3/4	163,797	3/4	148,720	3/4	133,642	3/4	103,485	3/4	88,400
7		7		7	208,547	7	193,582	7	178,556	7	163,483	7	148,406	7	133,328	7	103,170	7	88,086
1/4		1/4		1/4	208,237	1/4	193,269	1/4	178,243	1/4	163,169	1/4	148,092	1/4	133,014	1/4	102,856	1/4	87,771
1/2		1/2		1/2	207,928	1/2	192,956	1/2	177,930	1/2	162,855	1/2	147,777	1/2	132,700	1/2	102,542	1/2	87,457
3/4		3/4		3/4	207,618	3/4	192,643	3/4	177,616	3/4	162,541	3/4	147,463	3/4	132,386	3/4	102,228	3/4	87,143
8		8		8	207,308	8	192,330	8	177,303	8	162,227	8	147,149	8	132,072	8	101,913	8	86,828
1/4		1/4		1/4	206,998	1/4	192,017	1/4	176,989	1/4	161,912	1/4	146,835	1/4	131,758	1/4	101,599	1/4	86,514
1/2		1/2		1/2	206,688	1/2	191,704	1/2	176,676	1/2	161,598	1/2	146,521	1/2	131,444	1/2	101,285	1/2	86,200
3/4		3/4		3/4	206,378	3/4	191,391	3/4	176,362	3/4	161,284	3/4	146,207	3/4	131,130	3/4	100,971	3/4	85,886
9		9		9	206,068	9	191,078	9	176,047	9	160,970	9	145,893	9	130,815	9	100,656	9	85,571
1/4		1/4		1/4	205,757	1/4	190,765	1/4	175,733	1/4	160,656	1/4	145,579	1/4	130,501	1/4	100,342	1/4	85,257
1/2		1/2		1/2	205,447	1/2	190,452	1/2	175,419	1/2	160,342	1/2	145,265	1/2	130,187	1/2	100,028	1/2	84,943
3/4		3/4		3/4	205,137	3/4	190,139	3/4	175,105	3/4	160,028	3/4	144,950	3/4	129,873	3/4	99,713	3/4	84,629
10		10		10	204,827	10	189,826	10	174,791	10	159,714	10	144,636	10	129,559	10	99,399	10	84,314
1/4		1/4		1/4	204,517	1/4	189,513	1/4	174,477	1/4	159,400	1/4	144,322	1/4	129,245	1/4	99,085	1/4	84,000
1/2		1/2		1/2	204,207	1/2	189,200	1/2	174,163	1/2	159,085	1/2	144,008	1/2	128,931	1/2	98,771	1/2	83,686
3/4		3/4		3/4	203,897	3/4	188,887	3/4	173,849	3/4	158,771	3/4	143,694	3/4	128,617	3/4	98,456	3/4	83,372
11		11		11	203,587	11	188,574	11	173,535	11	158,457	11	143,380	11	128,303	11	98,142	11	83,057
1/4		1/4		1/4	203,277	1/4	188,261	1/4	173,220	1/4	158,143	1/4	143,066	1/4	127,988	1/4	97,828	1/4	82,743
1/2		1/2		1/2	202,967	1/2	187,947	1/2	172,906	1/2	157,829	1/2	142,752	1/2	127,674	1/2	97,514	1/2	82,429
3/4		3/4		3/4	202,656	3/4	187,634	3/4	172,592	3/4	157,515	3/4	142,438	3/4	127,360	3/4	97,199	3/4	82,114

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 THREADS ON "MMC" VALVE OR 8" HATCH.  
GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3019"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

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	81,800	0	66,715	0	52,149	0	37,665	0	22,630	0	7,546	0		0		0		0	
1/4	81,486	1/4	66,401	1/4	51,846	1/4	37,363	1/4	22,316	1/4	7,231	1/4		1/4		1/4		1/4	
1/2	81,172	1/2	66,088	1/2	51,544	1/2	37,059	1/2	22,001	1/2	6,917	1/2		1/2		1/2		1/2	
3/4	80,857	3/4	65,778	3/4	51,242	3/4	36,752	3/4	21,687	3/4	6,603	3/4		3/4		3/4		3/4	
1	80,543	1	65,470	1	50,939	1	36,443	1	21,373	1	6,289	1		1		1		1	
1/4	80,229	1/4	65,162	1/4	50,637	1/4	36,135	1/4	21,059	1/4	5,974	1/4		1/4		1/4		1/4	
1/2	79,915	1/2	64,855	1/2	50,335	1/2	35,825	1/2	20,744	1/2	5,660	1/2		1/2		1/2		1/2	
3/4	79,600	3/4	64,551	3/4	50,033	3/4	35,512	3/4	20,430	3/4	5,346	3/4		3/4		3/4		3/4	
2	79,286	2	64,248	2	49,732	2	35,198	2	20,116	2	5,032	2		2		2		2	
1/4	78,972	1/4	63,946	1/4	49,430	1/4	34,884	1/4	19,802	1/4	4,718	1/4		1/4		1/4		1/4	
1/2	78,657	1/2	63,643	1/2	49,128	1/2	34,570	1/2	19,487	1/2	4,404	1/2		1/2		1/2		1/2	
3/4	78,343	3/4	63,341	3/4	48,826	3/4	34,255	3/4	19,173	3/4	4,091	3/4		3/4		3/4		3/4	
3	78,029	3	63,038	3	48,525	3	33,941	3	18,859	3	3,777	3		3		3		3	
1/4	77,715	1/4	62,736	1/4	48,223	1/4	33,627	1/4	18,545	1/4	3,464	1/4		1/4		1/4		1/4	
1/2	77,400	1/2	62,433	1/2	47,921	1/2	33,313	1/2	18,230	1/2	3,156	1/2		1/2		1/2		1/2	
3/4	77,086	3/4	62,131	3/4	47,620	3/4	32,998	3/4	17,916	3/4	2,857	3/4		3/4		3/4		3/4	
4	76,772	4	61,828	4	47,318	4	32,684	4	17,602	4	2,563	4		4		4		4	
1/4	76,458	1/4	61,526	1/4	47,017	1/4	32,370	1/4	17,288	1/4	2,269	1/4		1/4		1/4		1/4	
1/2	76,143	1/2	61,223	1/2	46,715	1/2	32,055	1/2	16,973	1/2	1,990	1/2		1/2		1/2		1/2	
3/4	75,829	3/4	60,921	3/4	46,414	3/4	31,741	3/4	16,659	3/4	1,740	3/4		3/4		3/4		3/4	
5	75,515	5	60,618	5	46,112	5	31,427	5	16,345	5	1,504	5		5		5		5	
1/4	75,201	1/4	60,316	1/4	45,811	1/4	31,113	1/4	16,031	1/4	1,269	1/4		1/4		1/4		1/4	
1/2	74,886	1/2	60,013	1/2	45,509	1/2	30,798	1/2	15,716	1/2	1,151	1/2		1/2		1/2		1/2	
3/4	74,572	3/4	59,711	3/4	45,207	3/4	30,484	3/4	15,402	3/4		3/4		3/4		3/4		3/4	
6	74,258	6	59,408	6	44,906	6	30,170	6	15,088	6		6		6		6		6	
1/4	73,943	1/4	59,106	1/4	44,604	1/4	29,856	1/4	14,773	1/4		1/4		1/4		1/4		1/4	
1/2	73,629	1/2	58,803	1/2	44,303	1/2	29,542	1/2	14,459	1/2		1/2		1/2		1/2		1/2	
3/4	73,315	3/4	58,501	3/4	44,001	3/4	29,228	3/4	14,145	3/4		3/4		3/4		3/4		3/4	
7	73,001	7	58,198	7	43,700	7	28,914	7	13,831	7		7		7		7		7	
1/4	72,686	1/4	57,896	1/4	43,398	1/4	28,600	1/4	13,516	1/4		1/4		1/4		1/4		1/4	
1/2	72,372	1/2	57,593	1/2	43,097	1/2	28,286	1/2	13,202	1/2		1/2		1/2		1/2		1/2	
3/4	72,058	3/4	57,291	3/4	42,795	3/4	27,971	3/4	12,888	3/4		3/4		3/4		3/4		3/4	
8	71,744	8	56,988	8	42,494	8	27,657	8	12,574	8		8		8		8		8	
1/4	71,429	1/4	56,686	1/4	42,192	1/4	27,343	1/4	12,259	1/4		1/4		1/4		1/4		1/4	
1/2	71,115	1/2	56,384	1/2	41,890	1/2	27,029	1/2	11,945	1/2		1/2		1/2		1/2		1/2	
3/4	70,801	3/4	56,081	3/4	41,589	3/4	26,715	3/4	11,631	3/4		3/4		3/4		3/4		3/4	
9	70,486	9	55,779	9	41,287	9	26,401	9	11,317	9		9		9		9		9	
1/4	70,172	1/4	55,476	1/4	40,986	1/4	26,087	1/4	11,002	1/4		1/4		1/4		1/4		1/4	
1/2	69,858	1/2	55,174	1/2	40,684	1/2	25,773	1/2	10,688	1/2		1/2		1/2		1/2		1/2	
3/4	69,544	3/4	54,871	3/4	40,383	3/4	25,458	3/4	10,374	3/4		3/4		3/4		3/4		3/4	
10	69,229	10	54,569	10	40,081	10	25,144	10	10,060	10		10		10		10		10	
1/4	68,915	1/4	54,266	1/4	39,780	1/4	24,830	1/4	9,745	1/4		1/4		1/4		1/4		1/4	
1/2	68,601	1/2	53,964	1/2	39,478	1/2	24,516	1/2	9,431	1/2		1/2		1/2		1/2		1/2	
3/4	68,287	3/4	53,661	3/4	39,176	3/4	24,201	3/4	9,117	3/4		3/4		3/4		3/4		3/4	
11	67,972	11	53,359	11	38,874	11	23,887	11	8,803	11		11		11		11		11	
1/4	67,658	1/4	53,056	1/4	38,572	1/4	23,573	1/4	8,488	1/4		1/4		1/4		1/4		1/4	
1/2	67,344	1/2	52,754	1/2	38,270	1/2	23,259	1/2	8,174	1/2		1/2		1/2		1/2		1/2	
3/4	67,030	3/4	52,451	3/4	37,968	3/4	22,944	3/4	7,860	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2019 JS  
CALCULATED: 09/17/2019 CL  
REPRINTED: 10/10/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HSM 3019"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 5/8"

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	83,217	0	68,137	0	53,058	0	38,014	0	22,937	0	7,857	0		0		0		0	
1/4	82,903	1/4	67,823	1/4	52,744	1/4	37,700	1/4	22,623	1/4	7,543	1/4		1/4		1/4		1/4	
1/2	82,589	1/2	67,509	1/2	52,430	1/2	37,386	1/2	22,309	1/2	7,229	1/2		1/2		1/2		1/2	
3/4	82,274	3/4	67,195	3/4	52,116	3/4	37,071	3/4	21,994	3/4	6,915	3/4		3/4		3/4		3/4	
1	81,960	1	66,881	1	51,802	1	36,757	1	21,680	1	6,601	1		1		1		1	
1/4	81,646	1/4	66,567	1/4	51,488	1/4	36,443	1/4	21,366	1/4	6,287	1/4		1/4		1/4		1/4	
1/2	81,332	1/2	66,252	1/2	51,174	1/2	36,129	1/2	21,052	1/2	5,973	1/2		1/2		1/2		1/2	
3/4	81,018	3/4	65,938	3/4	50,860	3/4	35,815	3/4	20,738	3/4	5,659	3/4		3/4		3/4		3/4	
2	80,704	2	65,624	2	50,547	2	35,501	2	20,424	2	5,345	2		2		2		2	
1/4	80,389	1/4	65,310	1/4	50,233	1/4	35,187	1/4	20,109	1/4	5,031	1/4		1/4		1/4		1/4	
1/2	80,075	1/2	64,996	1/2	49,920	1/2	34,872	1/2	19,795	1/2	4,717	1/2		1/2		1/2		1/2	
3/4	79,761	3/4	64,682	3/4	49,607	3/4	34,558	3/4	19,481	3/4	4,403	3/4		3/4		3/4		3/4	
3	79,447	3	64,368	3	49,293	3	34,244	3	19,167	3	4,090	3		3		3		3	
1/4	79,133	1/4	64,053	1/4	48,980	1/4	33,930	1/4	18,853	1/4	3,777	1/4		1/4		1/4		1/4	
1/2	78,819	1/2	63,739	1/2	48,666	1/2	33,616	1/2	18,539	1/2	3,463	1/2		1/2		1/2		1/2	
3/4	78,505	3/4	63,425	3/4	48,353	3/4	33,302	3/4	18,225	3/4	3,155	3/4		3/4		3/4		3/4	
4	78,190	4	63,111	4	48,040	4	32,987	4	17,910	4	2,856	4		4		4		4	
1/4	77,876	1/4	62,797	1/4	47,727	1/4	32,673	1/4	17,596	1/4	2,563	1/4		1/4		1/4		1/4	
1/2	77,562	1/2	62,483	1/2	47,413	1/2	32,359	1/2	17,282	1/2	2,269	1/2		1/2		1/2		1/2	
3/4	77,248	3/4	62,168	3/4	47,100	3/4	32,045	3/4	16,968	3/4	1,990	3/4		3/4		3/4		3/4	
5	76,934	5	61,854	5	46,787	5	31,731	5	16,654	5	1,740	5		5		5		5	
1/4	76,620	1/4	61,540	1/4	46,474	1/4	31,417	1/4	16,340	1/4	1,504	1/4		1/4		1/4		1/4	
1/2	76,305	1/2	61,226	1/2	46,161	1/2	31,103	1/2	16,025	1/2	1,269	1/2		1/2		1/2		1/2	
3/4	75,991	3/4	60,912	3/4	45,847	3/4	30,788	3/4	15,711	3/4	1,150	3/4		3/4		3/4		3/4	
6	75,677	6	60,598	6	45,534	6	30,474	6	15,397	6		6		6		6		6	
1/4	75,363	1/4	60,284	1/4	45,221	1/4	30,160	1/4	15,083	1/4		1/4		1/4		1/4		1/4	
1/2	75,049	1/2	59,969	1/2	44,908	1/2	29,846	1/2	14,769	1/2		1/2		1/2		1/2		1/2	
3/4	74,735	3/4	59,655	3/4	44,594	3/4	29,532	3/4	14,455	3/4		3/4		3/4		3/4		3/4	
7	74,421	7	59,341	7	44,281	7	29,218	7	14,141	7		7		7		7		7	
1/4	74,106	1/4	59,027	1/4	43,968	1/4	28,904	1/4	13,826	1/4		1/4		1/4		1/4		1/4	
1/2	73,792	1/2	58,713	1/2	43,655	1/2	28,590	1/2	13,512	1/2		1/2		1/2		1/2		1/2	
3/4	73,478	3/4	58,399	3/4	43,342	3/4	28,276	3/4	13,198	3/4		3/4		3/4		3/4		3/4	
8	73,164	8	58,084	8	43,028	8	27,962	8	12,884	8		8		8		8		8	
1/4	72,850	1/4	57,770	1/4	42,715	1/4	27,648	1/4	12,570	1/4		1/4		1/4		1/4		1/4	
1/2	72,536	1/2	57,456	1/2	42,402	1/2	27,334	1/2	12,256	1/2		1/2		1/2		1/2		1/2	
3/4	72,221	3/4	57,142	3/4	42,089	3/4	27,021	3/4	11,941	3/4		3/4		3/4		3/4		3/4	
9	71,907	9	56,828	9	41,775	9	26,706	9	11,627	9		9		9		9		9	
1/4	71,593	1/4	56,514	1/4	41,462	1/4	26,392	1/4	11,313	1/4		1/4		1/4		1/4		1/4	
1/2	71,279	1/2	56,200	1/2	41,149	1/2	26,078	1/2	10,999	1/2		1/2		1/2		1/2		1/2	
3/4	70,965	3/4	55,885	3/4	40,836	3/4	25,764	3/4	10,685	3/4		3/4		3/4		3/4		3/4	
10	70,651	10	55,571	10	40,523	10	25,450	10	10,371	10		10		10		10		10	
1/4	70,336	1/4	55,257	1/4	40,209	1/4	25,136	1/4	10,057	1/4		1/4		1/4		1/4		1/4	
1/2	70,022	1/2	54,943	1/2	39,896	1/2	24,822	1/2	9,742	1/2		1/2		1/2		1/2		1/2	
3/4	69,708	3/4	54,629	3/4	39,583	3/4	24,508	3/4	9,428	3/4		3/4		3/4		3/4		3/4	
11	69,394	11	54,315	11	39,269	11	24,193	11	9,114	11		11		11		11		11	
1/4	69,080	1/4	54,000	1/4	38,955	1/4	23,879	1/4	8,800	1/4		1/4		1/4		1/4		1/4	
1/2	68,766	1/2	53,686	1/2	38,642	1/2	23,565	1/2	8,486	1/2		1/2		1/2		1/2		1/2	
3/4	68,452	3/4	53,372	3/4	38,328	3/4	23,251	3/4	8,172	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2019 JS  
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REPRINTED: 10/10/2019 SW

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019



# BARGE "HSM 3019"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

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	184,490	0	174,160	0	163,817	0	153,450	0	141,575	0	126,612	0	111,649	0	96,672
1/4		1/4		1/4	184,275	1/4	173,944	1/4	163,601	1/4	153,234	1/4	141,264	1/4	126,301	1/4	111,337	1/4	96,360
1/2		1/2		1/2	184,060	1/2	173,729	1/2	163,385	1/2	153,018	1/2	140,952	1/2	125,989	1/2	111,025	1/2	96,048
3/4		3/4		3/4	183,845	3/4	173,514	3/4	163,169	3/4	152,802	3/4	140,641	3/4	125,677	3/4	110,713	3/4	95,736
1		1		1	183,630	1	173,299	1	162,953	1	152,586	1	140,329	1	125,365	1	110,402	1	95,424
1/4		1/4		1/4	183,414	1/4	173,084	1/4	162,737	1/4	152,370	1/4	140,017	1/4	125,054	1/4	110,090	1/4	95,112
1/2		1/2		1/2	183,199	1/2	172,868	1/2	162,521	1/2	152,154	1/2	139,706	1/2	124,742	1/2	109,778	1/2	94,800
3/4		3/4		3/4	182,984	3/4	172,653	3/4	162,305	3/4	151,938	3/4	139,394	3/4	124,430	3/4	109,466	3/4	94,488
2		2		2	182,769	2	172,438	2	162,089	2	151,722	2	139,082	2	124,118	2	109,155	2	94,176
1/4		1/4		1/4	182,553	1/4	172,223	1/4	161,873	1/4	151,506	1/4	138,771	1/4	123,807	1/4	108,843	1/4	93,864
1/2		1/2		1/2	191,977	1/2	182,338	1/2	172,007	1/2	161,657	1/2	151,290	1/2	138,459	1/2	123,495	1/2	108,531
3/4		3/4		3/4	191,853	3/4	182,123	3/4	171,792	3/4	161,441	3/4	151,074	3/4	138,147	3/4	123,183	3/4	108,219
3		3		3	191,730	3	181,908	3	171,577	3	161,225	3	150,858	3	137,835	3	122,872	3	107,907
1/4		1/4		1/4	191,606	1/4	181,692	1/4	171,362	1/4	161,009	1/4	150,642	1/4	137,524	1/4	122,560	1/4	107,595
1/2		1/2		1/2	191,473	1/2	181,477	1/2	171,147	1/2	160,793	1/2	150,426	1/2	137,212	1/2	122,248	1/2	107,284
3/4		3/4		3/4	191,323	3/4	181,262	3/4	170,931	3/4	160,577	3/4	150,210	3/4	136,900	3/4	121,936	3/4	106,972
4		4		4	191,163	4	181,047	4	170,716	4	160,361	4	149,994	4	136,588	4	121,625	4	106,660
1/4		1/4		1/4	191,004	1/4	180,832	1/4	170,501	1/4	160,145	1/4	149,778	1/4	136,277	1/4	121,313	1/4	106,348
1/2		1/2		1/2	190,836	1/2	180,616	1/2	170,286	1/2	159,929	1/2	149,561	1/2	135,965	1/2	121,001	1/2	106,035
3/4		3/4		3/4	190,651	3/4	180,401	3/4	170,070	3/4	159,713	3/4	149,342	3/4	135,653	3/4	120,689	3/4	105,723
5		5		5	190,458	5	180,186	5	169,855	5	159,497	5	149,123	5	135,341	5	120,378	5	105,411
1/4		1/4		1/4	190,265	1/4	179,971	1/4	169,640	1/4	159,281	1/4	148,903	1/4	135,030	1/4	120,066	1/4	105,099
1/2		1/2		1/2	190,067	1/2	179,755	1/2	169,425	1/2	159,065	1/2	148,681	1/2	134,718	1/2	119,754	1/2	104,787
3/4		3/4		3/4	189,860	3/4	179,540	3/4	169,210	3/4	158,849	3/4	148,453	3/4	134,406	3/4	119,442	3/4	104,475
6		6		6	189,648	6	179,325	6	168,994	6	158,633	6	148,222	6	134,094	6	119,131	6	104,163
1/4		1/4		1/4	189,437	1/4	179,110	1/4	168,779	1/4	158,417	1/4	147,991	1/4	133,783	1/4	118,819	1/4	103,850
1/2		1/2		1/2	189,224	1/2	178,895	1/2	168,564	1/2	158,201	1/2	147,755	1/2	133,471	1/2	118,507	1/2	103,538
3/4		3/4		3/4	189,010	3/4	178,679	3/4	168,349	3/4	157,985	3/4	147,512	3/4	133,159	3/4	118,195	3/4	103,226
7		7		7	188,795	7	178,464	7	168,133	7	157,769	7	147,265	7	132,847	7	117,884	7	102,914
1/4		1/4		1/4	188,580	1/4	178,249	1/4	167,918	1/4	157,553	1/4	147,018	1/4	132,536	1/4	117,572	1/4	102,602
1/2		1/2		1/2	188,365	1/2	178,034	1/2	167,703	1/2	157,337	1/2	146,767	1/2	132,224	1/2	117,260	1/2	102,290
3/4		3/4		3/4	188,150	3/4	177,818	3/4	167,487	3/4	157,121	3/4	146,508	3/4	131,912	3/4	116,948	3/4	101,977
8		8		8	187,935	8	177,603	8	167,272	8	156,905	8	146,245	8	131,600	8	116,637	8	101,665
1/4		1/4		1/4	187,719	1/4	177,388	1/4	167,056	1/4	156,689	1/4	145,982	1/4	131,289	1/4	116,325	1/4	101,353
1/2		1/2		1/2	187,504	1/2	177,173	1/2	166,840	1/2	156,473	1/2	145,715	1/2	130,977	1/2	116,013	1/2	101,041
3/4		3/4		3/4	187,289	3/4	176,958	3/4	166,625	3/4	156,257	3/4	145,441	3/4	130,665	3/4	115,701	3/4	100,729
9		9		9	187,074	9	176,742	9	166,409	9	156,041	9	145,162	9	130,353	9	115,390	9	100,417
1/4		1/4		1/4	186,858	1/4	176,527	1/4	166,193	1/4	155,825	1/4	144,884	1/4	130,042	1/4	115,078	1/4	100,104
1/2		1/2		1/2	186,643	1/2	176,312	1/2	165,977	1/2	155,609	1/2	144,601	1/2	129,730	1/2	114,766	1/2	99,792
3/4		3/4		3/4	186,428	3/4	176,097	3/4	165,761	3/4	155,393	3/4	144,310	3/4	129,418	3/4	114,454	3/4	99,480
10		10		10	186,212	10	175,881	10	165,545	10	155,177	10	144,016	10	129,106	10	114,143	10	99,168
1/4		1/4		1/4	185,997	1/4	175,666	1/4	165,329	1/4	154,961	1/4	143,721	1/4	128,795	1/4	113,831	1/4	98,856
1/2		1/2		1/2	185,782	1/2	175,451	1/2	165,113	1/2	154,745	1/2	143,423	1/2	128,483	1/2	113,519	1/2	98,544
3/4		3/4		3/4	185,567	3/4	175,236	3/4	164,897	3/4	154,529	3/4	143,119	3/4	128,171	3/4	113,207	3/4	98,232
11		11		11	185,351	11	175,021	11	164,681	11	154,313	11	142,812	11	127,859	11	112,896	11	97,920
1/4		1/4		1/4	185,136	1/4	174,805	1/4	164,465	1/4	154,097	1/4	142,505	1/4	127,548	1/4	112,584	1/4	97,608
1/2		1/2		1/2	184,921	1/2	174,590	1/2	164,249	1/2	153,881	1/2	142,197	1/2	127,236	1/2	112,272	1/2	97,296
3/4		3/4		3/4	184,706	3/4	174,375	3/4	164,033	3/4	153,666	3/4	141,887	3/4	126,924	3/4	111,960	3/4	96,984

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 THREADS ON "MMC" VALVE OR 8" HATCH.

GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3019"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	81,381	1/4	66,467	1/4	51,725	1/4	37,152	1/4	22,190	1/4	7,195	1/4		1/4		1/4		1/4		1/4	
1/2	81,069	1/2	66,157	1/2	51,423	1/2	36,846	1/2	21,878	1/2	6,883	1/2		1/2		1/2		1/2		1/2	
3/4	80,757	3/4	65,847	3/4	51,120	3/4	36,539	3/4	21,566	3/4	6,570	3/4		3/4		3/4		3/4		3/4	
1	80,445	1	65,537	1	50,818	1	36,231	1	21,253	1	6,258	1		1		1		1		1	
1/4	80,133	1/4	65,226	1/4	50,516	1/4	35,923	1/4	20,941	1/4	5,945	1/4		1/4		1/4		1/4		1/4	
1/2	79,820	1/2	64,916	1/2	50,213	1/2	35,613	1/2	20,629	1/2	5,633	1/2		1/2		1/2		1/2		1/2	
3/4	79,508	3/4	64,606	3/4	49,911	3/4	35,303	3/4	20,316	3/4	5,320	3/4		3/4		3/4		3/4		3/4	
2	79,196	2	64,296	2	49,608	2	34,991	2	20,004	2	5,008	2		2		2		2		2	
1/4	78,884	1/4	63,985	1/4	49,306	1/4	34,679	1/4	19,692	1/4	4,695	1/4		1/4		1/4		1/4		1/4	
1/2	78,572	1/2	63,675	1/2	49,004	1/2	34,367	1/2	19,380	1/2	4,383	1/2		1/2		1/2		1/2		1/2	
3/4	78,260	3/4	63,364	3/4	48,701	3/4	34,055	3/4	19,067	3/4	4,071	3/4		3/4		3/4		3/4		3/4	
3	77,949	3	63,053	3	48,399	3	33,743	3	18,755	3	3,759	3		3		3		3		3	
1/4	77,638	1/4	62,742	1/4	48,096	1/4	33,430	1/4	18,443	1/4	3,448	1/4		1/4		1/4		1/4		1/4	
1/2	77,327	1/2	62,430	1/2	47,794	1/2	33,118	1/2	18,130	1/2	3,141	1/2		1/2		1/2		1/2		1/2	
3/4	77,016	3/4	62,119	3/4	47,492	3/4	32,806	3/4	17,818	3/4	2,843	3/4		3/4		3/4		3/4		3/4	
4	76,706	4	61,807	4	47,190	4	32,494	4	17,506	4	2,551	4		4		4		4		4	
1/4	76,396	1/4	61,495	1/4	46,888	1/4	32,181	1/4	17,193	1/4	2,258	1/4		1/4		1/4		1/4		1/4	
1/2	76,085	1/2	61,183	1/2	46,586	1/2	31,869	1/2	16,881	1/2	1,980	1/2		1/2		1/2		1/2		1/2	
3/4	75,775	3/4	60,871	3/4	46,284	3/4	31,557	3/4	16,569	3/4	1,731	3/4		3/4		3/4		3/4		3/4	
5	75,465	5	60,559	5	45,982	5	31,244	5	16,257	5	1,497	5		5		5		5		5	
1/4	75,155	1/4	60,247	1/4	45,681	1/4	30,932	1/4	15,944	1/4	1,262	1/4		1/4		1/4		1/4		1/4	
1/2	74,844	1/2	59,936	1/2	45,379	1/2	30,620	1/2	15,632	1/2	1,145	1/2		1/2		1/2		1/2		1/2	
3/4	74,534	3/4	59,627	3/4	45,076	3/4	30,308	3/4	15,320	3/4		3/4		3/4		3/4		3/4		3/4	
6	74,224	6	59,318	6	44,773	6	29,995	6	15,007	6		6		6		6		6		6	
1/4	73,914	1/4	59,009	1/4	44,469	1/4	29,683	1/4	14,695	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73,603	1/2	58,701	1/2	44,166	1/2	29,371	1/2	14,383	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	73,293	3/4	58,395	3/4	43,861	3/4	29,059	3/4	14,071	3/4		3/4		3/4		3/4		3/4		3/4	
7	72,983	7	58,089	7	43,556	7	28,747	7	13,758	7		7		7		7		7		7	
1/4	72,673	1/4	57,783	1/4	43,251	1/4	28,435	1/4	13,446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72,362	1/2	57,478	1/2	42,946	1/2	28,123	1/2	13,134	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	72,052	3/4	57,174	3/4	42,641	3/4	27,811	3/4	12,821	3/4		3/4		3/4		3/4		3/4		3/4	
8	71,742	8	56,870	8	42,336	8	27,498	8	12,509	8		8		8		8		8		8	
1/4	71,432	1/4	56,566	1/4	42,031	1/4	27,186	1/4	12,197	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71,121	1/2	56,262	1/2	41,726	1/2	26,874	1/2	11,885	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70,811	3/4	55,959	3/4	41,421	3/4	26,562	3/4	11,572	3/4		3/4		3/4		3/4		3/4		3/4	
9	70,501	9	55,657	9	41,116	9	26,250	9	11,260	9		9		9		9		9		9	
1/4	70,190	1/4	55,354	1/4	40,811	1/4	25,938	1/4	10,947	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	69,880	1/2	55,052	1/2	40,506	1/2	25,625	1/2	10,634	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	69,570	3/4	54,750	3/4	40,201	3/4	25,313	3/4	10,322	3/4		3/4		3/4		3/4		3/4		3/4	
10	69,260	10	54,447	10	39,896	10	25,001	10	10,009	10		10		10		10		10		10	
1/4	68,949	1/4	54,145	1/4	39,592	1/4	24,688	1/4	9,696	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	68,639	1/2	53,842	1/2	39,287	1/2	24,376	1/2	9,383	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	68,329	3/4	53,540	3/4	38,982	3/4	24,064	3/4	9,071	3/4		3/4		3/4		3/4		3/4		3/4	
11	68,019	11	53,237	11	38,677	11	23,752	11	8,758	11		11		11		11		11		11	
1/4	67,708	1/4	52,935	1/4	38,372	1/4	23,439	1/4	8,445	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67,398	1/2	52,633	1/2	38,067	1/2	23,127	1/2	8,133	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	67,088	3/4	52,330	3/4	37,762	3/4	22,815	3/4	7,820	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2019 JS  
CALCULATED: 09/17/2019 CL  
REPRINTED: 10/10/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3019"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	185,478	0	175,138	0	164,785	0	154,408	0	142,415	0	127,405	0	112,394	0	97,369
1/4		1/4		1/4	185,263	1/4	174,922	1/4	164,568	1/4	154,192	1/4	142,102	1/4	127,092	1/4	112,082	1/4	97,056
1/2		1/2		1/2	185,047	1/2	174,707	1/2	164,352	1/2	153,975	1/2	141,790	1/2	126,779	1/2	111,769	1/2	96,743
3/4		3/4		3/4	184,832	3/4	174,492	3/4	164,136	3/4	153,759	3/4	141,477	3/4	126,467	3/4	111,456	3/4	96,430
1		1		1	184,616	1	174,276	1	163,920	1	153,543	1	141,164	1	126,154	1	111,143	1	96,117
1/4		1/4		1/4	184,401	1/4	174,061	1/4	163,704	1/4	153,327	1/4	140,852	1/4	125,841	1/4	110,831	1/4	95,803
1/2		1/2		1/2	184,186	1/2	173,845	1/2	163,488	1/2	153,111	1/2	140,539	1/2	125,528	1/2	110,518	1/2	95,490
3/4		3/4		3/4	183,970	3/4	173,630	3/4	163,271	3/4	152,895	3/4	140,226	3/4	125,216	3/4	110,205	3/4	95,177
2		2		2	183,755	2	173,414	2	163,055	2	152,678	2	139,914	2	124,903	2	109,892	2	94,864
1/4		1/4		1/4	193,187	1/4	183,539	1/4	173,199	1/4	162,839	1/4	139,601	1/4	124,590	1/4	109,580	1/4	94,551
1/2		1/2		1/2	193,063	1/2	183,324	1/2	172,984	1/2	162,623	1/2	139,288	1/2	124,278	1/2	109,267	1/2	94,238
3/4		3/4		3/4	192,940	3/4	183,108	3/4	172,768	3/4	162,407	3/4	138,975	3/4	123,965	3/4	108,954	3/4	93,925
3		3		3	192,816	3	182,893	3	172,553	3	162,190	3	138,663	3	123,652	3	108,641	3	93,612
1/4		1/4		1/4	192,683	1/4	182,678	1/4	172,337	1/4	161,974	1/4	138,350	1/4	123,339	1/4	108,328	1/4	93,298
1/2		1/2		1/2	192,532	1/2	182,462	1/2	172,122	1/2	161,758	1/2	138,037	1/2	123,027	1/2	108,015	1/2	92,985
3/4		3/4		3/4	192,372	3/4	182,247	3/4	171,906	3/4	161,542	3/4	137,724	3/4	122,714	3/4	107,702	3/4	92,672
4		4		4	192,213	4	182,031	4	171,691	4	161,326	4	137,412	4	122,401	4	107,389	4	92,359
1/4		1/4		1/4	192,045	1/4	181,816	1/4	171,476	1/4	161,109	1/4	137,099	1/4	122,089	1/4	107,076	1/4	92,046
1/2		1/2		1/2	191,860	1/2	181,600	1/2	171,260	1/2	160,893	1/2	136,786	1/2	121,776	1/2	106,763	1/2	91,733
3/4		3/4		3/4	191,666	3/4	181,385	3/4	171,045	3/4	160,677	3/4	136,474	3/4	121,463	3/4	106,450	3/4	91,420
5		5		5	191,473	5	181,170	5	170,829	5	160,461	5	136,161	5	121,150	5	106,137	5	91,106
1/4		1/4		1/4	191,275	1/4	180,954	1/4	170,614	1/4	160,245	1/4	135,848	1/4	120,838	1/4	105,824	1/4	90,793
1/2		1/2		1/2	191,068	1/2	180,739	1/2	170,399	1/2	160,029	1/2	135,535	1/2	120,525	1/2	105,511	1/2	90,480
3/4		3/4		3/4	190,856	3/4	180,523	3/4	170,183	3/4	159,812	3/4	135,223	3/4	120,212	3/4	105,198	3/4	90,167
6		6		6	190,645	6	180,308	6	169,968	6	159,596	6	134,910	6	119,900	6	104,884	6	89,854
1/4		1/4		1/4	190,432	1/4	180,093	1/4	169,752	1/4	159,380	1/4	134,597	1/4	119,587	1/4	104,571	1/4	89,541
1/2		1/2		1/2	190,218	1/2	179,877	1/2	169,537	1/2	159,164	1/2	134,285	1/2	119,274	1/2	104,258	1/2	89,228
3/4		3/4		3/4	190,002	3/4	179,662	3/4	169,321	3/4	158,948	3/4	133,972	3/4	118,961	3/4	103,945	3/4	88,914
7		7		7	189,787	7	179,446	7	169,106	7	158,731	7	133,659	7	118,649	7	103,632	7	88,601
1/4		1/4		1/4	189,572	1/4	179,231	1/4	168,890	1/4	158,515	1/4	133,346	1/4	118,336	1/4	103,319	1/4	88,288
1/2		1/2		1/2	189,356	1/2	179,015	1/2	168,675	1/2	158,299	1/2	133,034	1/2	118,023	1/2	103,006	1/2	87,975
3/4		3/4		3/4	189,141	3/4	178,800	3/4	168,459	3/4	158,083	3/4	132,721	3/4	117,711	3/4	102,692	3/4	87,662
8		8		8	188,926	8	178,585	8	168,243	8	157,867	8	132,408	8	117,398	8	102,379	8	87,349
1/4		1/4		1/4	188,710	1/4	178,369	1/4	168,027	1/4	157,651	1/4	132,096	1/4	117,085	1/4	102,066	1/4	87,036
1/2		1/2		1/2	188,495	1/2	178,154	1/2	167,811	1/2	157,434	1/2	131,783	1/2	116,772	1/2	101,753	1/2	86,723
3/4		3/4		3/4	188,279	3/4	177,938	3/4	167,595	3/4	157,218	3/4	131,470	3/4	116,460	3/4	101,440	3/4	86,409
9		9		9	188,063	9	177,723	9	167,379	9	157,002	9	131,157	9	116,147	9	101,127	9	86,096
1/4		1/4		1/4	187,848	1/4	177,507	1/4	167,163	1/4	156,786	1/4	130,845	1/4	115,834	1/4	100,814	1/4	85,783
1/2		1/2		1/2	187,632	1/2	177,292	1/2	166,946	1/2	156,570	1/2	130,532	1/2	115,521	1/2	100,501	1/2	85,470
3/4		3/4		3/4	187,417	3/4	177,077	3/4	166,730	3/4	156,353	3/4	130,219	3/4	115,209	3/4	100,187	3/4	85,157
10		10		10	187,202	10	176,861	10	166,514	10	156,137	10	129,907	10	114,896	10	99,874	10	84,844
1/4		1/4		1/4	186,986	1/4	176,646	1/4	166,298	1/4	155,921	1/4	129,594	1/4	114,583	1/4	99,561	1/4	84,531
1/2		1/2		1/2	186,771	1/2	176,430	1/2	166,082	1/2	155,705	1/2	129,281	1/2	114,271	1/2	99,248	1/2	84,217
3/4		3/4		3/4	186,555	3/4	176,215	3/4	165,866	3/4	155,489	3/4	128,968	3/4	113,958	3/4	98,935	3/4	83,904
11		11		11	186,340	11	176,000	11	165,649	11	155,273	11	128,656	11	113,645	11	98,622	11	83,591
1/4		1/4		1/4	186,124	1/4	175,784	1/4	165,433	1/4	155,056	1/4	128,343	1/4	113,332	1/4	98,309	1/4	83,278
1/2		1/2		1/2	185,909	1/2	175,569	1/2	165,217	1/2	154,840	1/2	128,030	1/2	113,020	1/2	97,995	1/2	82,965
3/4		3/4		3/4	185,694	3/4	175,353	3/4	165,001	3/4	154,624	3/4	127,718	3/4	112,707	3/4	97,682	3/4	82,652

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 THREADS ON "MMC" VALVE OR 8" HATCH.

GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HSM 3019"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	82,339	0	67,308	0	52,278	0	37,262	0	22,235	0	7,205	0		0		0		0	
1/4	82,026	1/4	66,995	1/4	51,964	1/4	36,949	1/4	21,922	1/4	6,892	1/4		1/4		1/4		1/4	
1/2	81,712	1/2	66,682	1/2	51,651	1/2	36,636	1/2	21,609	1/2	6,579	1/2		1/2		1/2		1/2	
3/4	81,399	3/4	66,369	3/4	51,338	3/4	36,324	3/4	21,296	3/4	6,266	3/4		3/4		3/4		3/4	
1	81,086	1	66,056	1	51,025	1	36,011	1	20,983	1	5,953	1		1		1		1	
1/4	80,773	1/4	65,742	1/4	50,712	1/4	35,698	1/4	20,669	1/4	5,639	1/4		1/4		1/4		1/4	
1/2	80,460	1/2	65,429	1/2	50,399	1/2	35,386	1/2	20,356	1/2	5,327	1/2		1/2		1/2		1/2	
3/4	80,147	3/4	65,116	3/4	50,086	3/4	35,073	3/4	20,043	3/4	5,014	3/4		3/4		3/4		3/4	
2	79,834	2	64,803	2	49,773	2	34,760	2	19,730	2	4,701	2		2		2		2	
1/4	79,520	1/4	64,490	1/4	49,459	1/4	34,447	1/4	19,417	1/4	4,388	1/4		1/4		1/4		1/4	
1/2	79,207	1/2	64,177	1/2	49,146	1/2	34,134	1/2	19,104	1/2	4,076	1/2		1/2		1/2		1/2	
3/4	78,894	3/4	63,864	3/4	48,833	3/4	33,821	3/4	18,791	3/4	3,764	3/4		3/4		3/4		3/4	
3	78,581	3	63,551	3	48,520	3	33,508	3	18,477	3	3,451	3		3		3		3	
1/4	78,268	1/4	63,237	1/4	48,207	1/4	33,194	1/4	18,164	1/4	3,144	1/4		1/4		1/4		1/4	
1/2	77,955	1/2	62,924	1/2	47,894	1/2	32,881	1/2	17,851	1/2	2,847	1/2		1/2		1/2		1/2	
3/4	77,642	3/4	62,611	3/4	47,581	3/4	32,568	3/4	17,538	3/4	2,554	3/4		3/4		3/4		3/4	
4	77,328	4	62,298	4	47,268	4	32,255	4	17,225	4	2,261	4		4		4		4	
1/4	77,015	1/4	61,985	1/4	46,955	1/4	31,942	1/4	16,912	1/4	1,983	1/4		1/4		1/4		1/4	
1/2	76,702	1/2	61,672	1/2	46,642	1/2	31,629	1/2	16,599	1/2	1,733	1/2		1/2		1/2		1/2	
3/4	76,389	3/4	61,359	3/4	46,329	3/4	31,316	3/4	16,286	3/4	1,499	3/4		3/4		3/4		3/4	
5	76,076	5	61,045	5	46,016	5	31,003	5	15,972	5	1,264	5		5		5		5	
1/4	75,763	1/4	60,732	1/4	45,703	1/4	30,689	1/4	15,659	1/4	1,147	1/4		1/4		1/4		1/4	
1/2	75,450	1/2	60,419	1/2	45,391	1/2	30,376	1/2	15,346	1/2		1/2		1/2		1/2		1/2	
3/4	75,137	3/4	60,106	3/4	45,078	3/4	30,063	3/4	15,033	3/4		3/4		3/4		3/4		3/4	
6	74,823	6	59,793	6	44,765	6	29,750	6	14,720	6		6		6		6		6	
1/4	74,510	1/4	59,480	1/4	44,452	1/4	29,437	1/4	14,407	1/4		1/4		1/4		1/4		1/4	
1/2	74,197	1/2	59,167	1/2	44,140	1/2	29,124	1/2	14,094	1/2		1/2		1/2		1/2		1/2	
3/4	73,884	3/4	58,853	3/4	43,827	3/4	28,811	3/4	13,781	3/4		3/4		3/4		3/4		3/4	
7	73,571	7	58,540	7	43,514	7	28,498	7	13,467	7		7		7		7		7	
1/4	73,258	1/4	58,227	1/4	43,202	1/4	28,184	1/4	13,154	1/4		1/4		1/4		1/4		1/4	
1/2	72,945	1/2	57,914	1/2	42,889	1/2	27,871	1/2	12,841	1/2		1/2		1/2		1/2		1/2	
3/4	72,631	3/4	57,601	3/4	42,577	3/4	27,558	3/4	12,528	3/4		3/4		3/4		3/4		3/4	
8	72,318	8	57,288	8	42,264	8	27,245	8	12,215	8		8		8		8		8	
1/4	72,005	1/4	56,975	1/4	41,951	1/4	26,932	1/4	11,902	1/4		1/4		1/4		1/4		1/4	
1/2	71,692	1/2	56,662	1/2	41,639	1/2	26,619	1/2	11,589	1/2		1/2		1/2		1/2		1/2	
3/4	71,379	3/4	56,348	3/4	41,326	3/4	26,306	3/4	11,276	3/4		3/4		3/4		3/4		3/4	
9	71,066	9	56,035	9	41,013	9	25,993	9	10,962	9		9		9		9		9	
1/4	70,753	1/4	55,722	1/4	40,701	1/4	25,679	1/4	10,649	1/4		1/4		1/4		1/4		1/4	
1/2	70,439	1/2	55,409	1/2	40,388	1/2	25,366	1/2	10,336	1/2		1/2		1/2		1/2		1/2	
3/4	70,126	3/4	55,096	3/4	40,075	3/4	25,053	3/4	10,023	3/4		3/4		3/4		3/4		3/4	
10	69,813	10	54,783	10	39,763	10	24,740	10	9,710	10		10		10		10		10	
1/4	69,500	1/4	54,470	1/4	39,450	1/4	24,427	1/4	9,397	1/4		1/4		1/4		1/4		1/4	
1/2	69,187	1/2	54,156	1/2	39,137	1/2	24,114	1/2	9,084	1/2		1/2		1/2		1/2		1/2	
3/4	68,874	3/4	53,843	3/4	38,825	3/4	23,801	3/4	8,771	3/4		3/4		3/4		3/4		3/4	
11	68,561	11	53,530	11	38,512	11	23,488	11	8,457	11		11		11		11		11	
1/4	68,248	1/4	53,217	1/4	38,200	1/4	23,174	1/4	8,144	1/4		1/4		1/4		1/4		1/4	
1/2	67,934	1/2	52,904	1/2	37,887	1/2	22,861	1/2	7,831	1/2		1/2		1/2		1/2		1/2	
3/4	67,621	3/4	52,591	3/4	37,574	3/4	22,548	3/4	7,518	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2019 JS  
CALCULATED: 09/17/2019 CL  
REPRINTED: 10/10/2019 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

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