



# BARGE "HSM 3024"

## 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	- 00-0/8	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
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"

October 21, 2019

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

<http://www.pmacorp.net>



# BARGE "HSM 3024"

## 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	- 00-0/8	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	- 00-1/8	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"

October 21, 2019

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# BARGE "HSM 3024"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	199,715	0	184,724	0	169,717	0	154,682	0	139,648	0	124,613	0	109,578	0	94,538
1/4		1/4		1/4	199,403	1/4	184,412	1/4	169,404	1/4	154,369	1/4	139,334	1/4	124,300	1/4	109,265	1/4	94,225
1/2		1/2		1/2	199,090	1/2	184,099	1/2	169,090	1/2	154,056	1/2	139,021	1/2	123,987	1/2	108,952	1/2	93,911
3/4		3/4		3/4	198,778	3/4	183,787	3/4	168,777	3/4	153,743	3/4	138,708	3/4	123,673	3/4	108,639	3/4	93,598
1		1		1	198,466	1	183,475	1	168,464	1	153,429	1	138,395	1	123,360	1	108,325	1	93,285
1/4		1/4		1/4	198,153	1/4	183,163	1/4	168,151	1/4	153,116	1/4	138,082	1/4	123,047	1/4	108,012	1/4	92,971
1/2		1/2		1/2	197,841	1/2	182,850	1/2	167,838	1/2	152,803	1/2	137,768	1/2	122,734	1/2	107,699	1/2	92,658
3/4		3/4		3/4	197,529	3/4	182,538	3/4	167,524	3/4	152,490	3/4	137,455	3/4	122,420	3/4	107,386	3/4	92,345
2		2	211,155	2	197,216	2	182,226	2	167,211	2	152,176	2	137,142	2	122,107	2	107,072	2	92,031
1/4		1/4	210,976	1/4	196,904	1/4	181,913	1/4	166,898	1/4	151,863	1/4	136,829	1/4	121,794	1/4	106,759	1/4	91,718
1/2		1/2	210,796	1/2	196,592	1/2	181,601	1/2	166,585	1/2	151,550	1/2	136,515	1/2	121,481	1/2	106,446	1/2	91,404
3/4		3/4	210,616	3/4	196,280	3/4	181,289	3/4	166,271	3/4	151,237	3/4	136,202	3/4	121,168	3/4	106,132	3/4	91,091
3		3	210,437	3	195,967	3	180,976	3	165,958	3	150,924	3	135,889	3	120,854	3	105,819	3	90,778
1/4		1/4	210,205	1/4	195,655	1/4	180,664	1/4	165,645	1/4	150,610	1/4	135,576	1/4	120,541	1/4	105,506	1/4	90,464
1/2		1/2	209,973	1/2	195,343	1/2	180,352	1/2	165,332	1/2	150,297	1/2	135,263	1/2	120,228	1/2	105,192	1/2	90,151
3/4		3/4	209,741	3/4	195,030	3/4	180,039	3/4	165,019	3/4	149,984	3/4	134,949	3/4	119,915	3/4	104,879	3/4	89,838
4		4	209,509	4	194,718	4	179,727	4	164,705	4	149,671	4	134,636	4	119,601	4	104,565	4	89,524
1/4		1/4	209,228	1/4	194,406	1/4	179,415	1/4	164,392	1/4	149,357	1/4	134,323	1/4	119,288	1/4	104,252	1/4	89,211
1/2		1/2	208,948	1/2	194,093	1/2	179,103	1/2	164,079	1/2	149,044	1/2	134,010	1/2	118,975	1/2	103,939	1/2	88,898
3/4		3/4	208,667	3/4	193,781	3/4	178,790	3/4	163,766	3/4	148,731	3/4	133,696	3/4	118,662	3/4	103,625	3/4	88,584
5		5	208,387	5	193,469	5	178,478	5	163,452	5	148,418	5	133,383	5	118,349	5	103,312	5	88,271
1/4		1/4	208,081	1/4	193,156	1/4	178,166	1/4	163,139	1/4	148,105	1/4	133,070	1/4	118,035	1/4	102,999	1/4	87,958
1/2		1/2	207,775	1/2	192,844	1/2	177,853	1/2	162,826	1/2	147,791	1/2	132,757	1/2	117,722	1/2	102,685	1/2	87,644
3/4		3/4	207,469	3/4	192,532	3/4	177,541	3/4	162,513	3/4	147,478	3/4	132,444	3/4	117,409	3/4	102,372	3/4	87,331
6		6	207,163	6	192,220	6	177,229	6	162,200	6	147,165	6	132,130	6	117,096	6	102,059	6	87,017
1/4		1/4	206,853	1/4	191,907	1/4	176,916	1/4	161,886	1/4	146,852	1/4	131,817	1/4	116,782	1/4	101,745	1/4	86,704
1/2		1/2	206,543	1/2	191,595	1/2	176,604	1/2	161,573	1/2	146,539	1/2	131,504	1/2	116,469	1/2	101,432	1/2	86,391
3/4		3/4	206,233	3/4	191,283	3/4	176,292	3/4	161,260	3/4	146,225	3/4	131,191	3/4	116,156	3/4	101,119	3/4	86,077
7		7	205,923	7	190,970	7	175,979	7	160,947	7	145,912	7	130,877	7	115,843	7	100,805	7	85,764
1/4		1/4	205,613	1/4	190,658	1/4	175,667	1/4	160,633	1/4	145,599	1/4	130,564	1/4	115,530	1/4	100,492	1/4	85,451
1/2		1/2	205,303	1/2	190,346	1/2	175,354	1/2	160,320	1/2	145,286	1/2	130,251	1/2	115,216	1/2	100,178	1/2	85,137
3/4		3/4	204,993	3/4	190,033	3/4	175,041	3/4	160,007	3/4	144,972	3/4	129,938	3/4	114,903	3/4	99,865	3/4	84,824
8		8	204,683	8	189,721	8	174,728	8	159,694	8	144,659	8	129,625	8	114,590	8	99,552	8	84,511
1/4		1/4	204,372	1/4	189,409	1/4	174,415	1/4	159,381	1/4	144,346	1/4	129,311	1/4	114,277	1/4	99,238	1/4	84,197
1/2		1/2	204,062	1/2	189,096	1/2	174,102	1/2	159,067	1/2	144,033	1/2	128,998	1/2	113,963	1/2	98,925	1/2	83,884
3/4		3/4	203,752	3/4	188,784	3/4	173,789	3/4	158,754	3/4	143,720	3/4	128,685	3/4	113,650	3/4	98,612	3/4	83,571
9		9	203,441	9	188,472	9	173,476	9	158,441	9	143,406	9	128,372	9	113,337	9	98,298	9	83,257
1/4		1/4	203,131	1/4	188,160	1/4	173,162	1/4	158,128	1/4	143,093	1/4	128,058	1/4	113,024	1/4	97,985	1/4	82,944
1/2		1/2	202,821	1/2	187,847	1/2	172,849	1/2	157,814	1/2	142,780	1/2	127,745	1/2	112,711	1/2	97,672	1/2	82,630
3/4		3/4	202,511	3/4	187,535	3/4	172,536	3/4	157,501	3/4	142,467	3/4	127,432	3/4	112,397	3/4	97,358	3/4	82,317
10		10	202,200	10	187,223	10	172,223	10	157,188	10	142,153	10	127,119	10	112,084	10	97,045	10	82,004
1/4		1/4	201,890	1/4	186,910	1/4	171,909	1/4	156,875	1/4	141,840	1/4	126,806	1/4	111,771	1/4	96,732	1/4	81,690
1/2		1/2	201,580	1/2	186,598	1/2	171,596	1/2	156,562	1/2	141,527	1/2	126,492	1/2	111,458	1/2	96,418	1/2	81,377
3/4		3/4	201,270	3/4	186,286	3/4	171,283	3/4	156,248	3/4	141,214	3/4	126,179	3/4	111,144	3/4	96,105	3/4	81,064
11		11	200,960	11	185,973	11	170,970	11	155,935	11	140,901	11	125,866	11	110,831	11	95,791	11	80,750
1/4		1/4	200,649	1/4	185,661	1/4	170,657	1/4	155,622	1/4	140,587	1/4	125,553	1/4	110,518	1/4	95,478	1/4	80,437
1/2		1/2	200,337	1/2	185,349	1/2	170,343	1/2	155,309	1/2	140,274	1/2	125,239	1/2	110,205	1/2	95,165	1/2	80,124
3/4		3/4	200,026	3/4	185,036	3/4	170,030	3/4	154,995	3/4	139,961	3/4	124,926	3/4	109,892	3/4	94,851	3/4	79,810

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"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	79,497	0	64,456	0	49,516	0	34,479	0	19,438	0	5,250	0		0		0		0	
1/4	79,184	1/4	64,144	1/4	49,204	1/4	34,165	1/4	19,125	1/4	4,979	1/4		1/4		1/4		1/4	
1/2	78,870	1/2	63,832	1/2	48,891	1/2	33,852	1/2	18,811	1/2	4,708	1/2		1/2		1/2		1/2	
3/4	78,557	3/4	63,520	3/4	48,579	3/4	33,539	3/4	18,498	3/4	4,437	3/4		3/4		3/4		3/4	
1	78,243	1	63,208	1	48,266	1	33,225	1	18,185	1	4,166	1		1		1		1	
1/4	77,930	1/4	62,897	1/4	47,953	1/4	32,912	1/4	17,872	1/4	3,899	1/4		1/4		1/4		1/4	
1/2	77,617	1/2	62,586	1/2	47,639	1/2	32,599	1/2	17,560	1/2	3,633	1/2		1/2		1/2		1/2	
3/4	77,303	3/4	62,275	3/4	47,326	3/4	32,285	3/4	17,247	3/4	3,366	3/4		3/4		3/4		3/4	
2	76,990	2	61,963	2	47,013	2	31,972	2	16,935	2	3,099	2		2		2		2	
1/4	76,677	1/4	61,652	1/4	46,699	1/4	31,659	1/4	16,626	1/4	2,837	1/4		1/4		1/4		1/4	
1/2	76,363	1/2	61,341	1/2	46,386	1/2	31,345	1/2	16,316	1/2	2,575	1/2		1/2		1/2		1/2	
3/4	76,050	3/4	61,030	3/4	46,073	3/4	31,032	3/4	16,007	3/4	2,312	3/4		3/4		3/4		3/4	
3	75,737	3	60,719	3	45,759	3	30,718	3	15,697	3	2,050	3		3		3		3	
1/4	75,423	1/4	60,408	1/4	45,446	1/4	30,405	1/4	15,391	1/4	1,811	1/4		1/4		1/4		1/4	
1/2	75,110	1/2	60,097	1/2	45,132	1/2	30,092	1/2	15,086	1/2	1,572	1/2		1/2		1/2		1/2	
3/4	74,797	3/4	59,786	3/4	44,819	3/4	29,778	3/4	14,780	3/4	1,333	3/4		3/4		3/4		3/4	
4	74,483	4	59,475	4	44,506	4	29,465	4	14,475	4	1,094	4		4		4		4	
1/4	74,170	1/4	59,164	1/4	44,192	1/4	29,152	1/4	14,173	1/4	917	1/4		1/4		1/4		1/4	
1/2	73,856	1/2	58,853	1/2	43,879	1/2	28,838	1/2	13,871	1/2	740	1/2		1/2		1/2		1/2	
3/4	73,543	3/4	58,542	3/4	43,566	3/4	28,525	3/4	13,569	3/4	563	3/4		3/4		3/4		3/4	
5	73,230	5	58,231	5	43,252	5	28,212	5	13,267	5	386	5		5		5		5	
1/4	72,916	1/4	57,920	1/4	42,939	1/4	27,898	1/4	12,970	1/4		1/4		1/4		1/4		1/4	
1/2	72,603	1/2	57,609	1/2	42,626	1/2	27,585	1/2	12,672	1/2		1/2		1/2		1/2		1/2	
3/4	72,290	3/4	57,298	3/4	42,312	3/4	27,272	3/4	12,374	3/4		3/4		3/4		3/4		3/4	
6	71,976	6	56,987	6	41,999	6	26,958	6	12,076	6		6		6		6		6	
1/4	71,663	1/4	56,676	1/4	41,686	1/4	26,645	1/4	11,782	1/4		1/4		1/4		1/4		1/4	
1/2	71,350	1/2	56,365	1/2	41,372	1/2	26,332	1/2	11,488	1/2		1/2		1/2		1/2		1/2	
3/4	71,036	3/4	56,054	3/4	41,059	3/4	26,018	3/4	11,194	3/4		3/4		3/4		3/4		3/4	
7	70,723	7	55,744	7	40,746	7	25,705	7	10,900	7		7		7		7		7	
1/4	70,410	1/4	55,433	1/4	40,432	1/4	25,392	1/4	10,609	1/4		1/4		1/4		1/4		1/4	
1/2	70,096	1/2	55,122	1/2	40,119	1/2	25,078	1/2	10,319	1/2		1/2		1/2		1/2		1/2	
3/4	69,783	3/4	54,811	3/4	39,806	3/4	24,765	3/4	10,029	3/4		3/4		3/4		3/4		3/4	
8	69,469	8	54,500	8	39,492	8	24,452	8	9,739	8		8		8		8		8	
1/4	69,156	1/4	54,189	1/4	39,179	1/4	24,138	1/4	9,452	1/4		1/4		1/4		1/4		1/4	
1/2	68,843	1/2	53,878	1/2	38,866	1/2	23,825	1/2	9,166	1/2		1/2		1/2		1/2		1/2	
3/4	68,529	3/4	53,567	3/4	38,552	3/4	23,511	3/4	8,880	3/4		3/4		3/4		3/4		3/4	
9	68,216	9	53,256	9	38,239	9	23,198	9	8,593	9		9		9		9		9	
1/4	67,903	1/4	52,944	1/4	37,925	1/4	22,885	1/4	8,311	1/4		1/4		1/4		1/4		1/4	
1/2	67,589	1/2	52,633	1/2	37,612	1/2	22,571	1/2	8,028	1/2		1/2		1/2		1/2		1/2	
3/4	67,276	3/4	52,322	3/4	37,299	3/4	22,258	3/4	7,746	3/4		3/4		3/4		3/4		3/4	
10	66,963	10	52,011	10	36,985	10	21,945	10	7,463	10		10		10		10		10	
1/4	66,649	1/4	51,699	1/4	36,672	1/4	21,631	1/4	7,185	1/4		1/4		1/4		1/4		1/4	
1/2	66,336	1/2	51,387	1/2	36,359	1/2	21,318	1/2	6,906	1/2		1/2		1/2		1/2		1/2	
3/4	66,023	3/4	51,076	3/4	36,045	3/4	21,005	3/4	6,627	3/4		3/4		3/4		3/4		3/4	
11	65,709	11	50,764	11	35,732	11	20,691	11	6,349	11		11		11		11		11	
1/4	65,396	1/4	50,452	1/4	35,419	1/4	20,378	1/4	6,074	1/4		1/4		1/4		1/4		1/4	
1/2	65,083	1/2	50,140	1/2	35,105	1/2	20,065	1/2	5,799	1/2		1/2		1/2		1/2		1/2	
3/4	64,770	3/4	49,828	3/4	34,792	3/4	19,751	3/4	5,525	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

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 3024"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	0	0	0	199,926	0	184,951	0	169,959	0	154,939	0	139,919	0	124,900	0	109,880	0	94,855
1/4	1/4	1/4	1/4	1/4	199,615	1/4	184,639	1/4	169,646	1/4	154,627	1/4	139,607	1/4	124,587	1/4	109,567	1/4	94,542
1/2	1/2	1/2	1/2	1/2	199,303	1/2	184,327	1/2	169,334	1/2	154,314	1/2	139,294	1/2	124,274	1/2	109,254	1/2	94,229
3/4	3/4	3/4	3/4	3/4	198,991	3/4	184,015	3/4	169,021	3/4	154,001	3/4	138,981	3/4	123,961	3/4	108,941	3/4	93,916
1	1	1	1	1	198,679	1	183,703	1	168,708	1	153,688	1	138,668	1	123,648	1	108,628	1	93,602
1/4	1/4	1/4	1/4	1/4	198,367	1/4	183,391	1/4	168,395	1/4	153,375	1/4	138,355	1/4	123,335	1/4	108,315	1/4	93,289
1/2	1/2	1/2	1/2	1/2	198,055	1/2	183,079	1/2	168,082	1/2	153,062	1/2	138,042	1/2	123,022	1/2	108,002	1/2	92,976
3/4	3/4	3/4	3/4	3/4	197,743	3/4	182,767	3/4	167,769	3/4	152,749	3/4	137,729	3/4	122,709	3/4	107,689	3/4	92,663
2	2	2	2	2	197,431	2	182,455	2	167,456	2	152,436	2	137,416	2	122,396	2	107,376	2	92,350
1/4	1/4	211,045	1/4	197,119	1/4	182,143	1/4	167,143	1/4	152,123	1/4	137,103	1/4	122,083	1/4	107,063	1/4	92,037	
1/2	1/2	210,865	1/2	196,807	1/2	181,831	1/2	166,830	1/2	151,810	1/2	136,790	1/2	121,771	1/2	106,750	1/2	91,724	
3/4	3/4	210,686	3/4	196,495	3/4	181,519	3/4	166,517	3/4	151,497	3/4	136,477	3/4	121,458	3/4	106,437	3/4	91,411	
3	3	210,506	3	196,183	3	181,207	3	166,204	3	151,184	3	136,164	3	121,145	3	106,124	3	91,098	
1/4	1/4	210,326	1/4	195,871	1/4	180,895	1/4	165,892	1/4	150,872	1/4	135,852	1/4	120,832	1/4	105,811	1/4	90,785	
1/2	1/2	210,095	1/2	195,559	1/2	180,583	1/2	165,579	1/2	150,559	1/2	135,539	1/2	120,519	1/2	105,498	1/2	90,472	
3/4	3/4	209,863	3/4	195,247	3/4	180,271	3/4	165,266	3/4	150,246	3/4	135,226	3/4	120,206	3/4	105,185	3/4	90,159	
4	4	209,631	4	194,935	4	179,959	4	164,953	4	149,933	4	134,913	4	119,893	4	104,872	4	89,846	
1/4	1/4	209,400	1/4	194,623	1/4	179,647	1/4	164,640	1/4	149,620	1/4	134,600	1/4	119,580	1/4	104,559	1/4	89,533	
1/2	1/2	209,119	1/2	194,311	1/2	179,335	1/2	164,327	1/2	149,307	1/2	134,287	1/2	119,267	1/2	104,246	1/2	89,220	
3/4	3/4	208,839	3/4	193,999	3/4	179,023	3/4	164,014	3/4	148,994	3/4	133,974	3/4	118,954	3/4	103,933	3/4	88,907	
5	5	208,559	5	193,687	5	178,711	5	163,701	5	148,681	5	133,661	5	118,641	5	103,620	5	88,594	
1/4	1/4	208,279	1/4	193,375	1/4	178,399	1/4	163,388	1/4	148,368	1/4	133,348	1/4	118,329	1/4	103,307	1/4	88,281	
1/2	1/2	207,973	1/2	193,063	1/2	178,087	1/2	163,075	1/2	148,055	1/2	133,035	1/2	118,016	1/2	102,994	1/2	87,968	
3/4	3/4	207,667	3/4	192,751	3/4	177,775	3/4	162,762	3/4	147,742	3/4	132,722	3/4	117,703	3/4	102,681	3/4	87,655	
6	6	207,362	6	192,439	6	177,463	6	162,449	6	147,429	6	132,410	6	117,390	6	102,368	6	87,342	
1/4	1/4	207,056	1/4	192,127	1/4	177,151	1/4	162,137	1/4	147,117	1/4	132,097	1/4	117,077	1/4	102,055	1/4	87,028	
1/2	1/2	206,746	1/2	191,815	1/2	176,839	1/2	161,824	1/2	146,804	1/2	131,784	1/2	116,764	1/2	101,742	1/2	86,715	
3/4	3/4	206,437	3/4	191,503	3/4	176,527	3/4	161,511	3/4	146,491	3/4	131,471	3/4	116,451	3/4	101,429	3/4	86,402	
7	7	206,127	7	191,191	7	176,215	7	161,198	7	146,178	7	131,158	7	116,138	7	101,116	7	86,089	
1/4	1/4	205,818	1/4	190,879	1/4	175,903	1/4	160,885	1/4	145,865	1/4	130,845	1/4	115,825	1/4	100,803	1/4	85,776	
1/2	1/2	205,508	1/2	190,567	1/2	175,591	1/2	160,572	1/2	145,552	1/2	130,532	1/2	115,512	1/2	100,489	1/2	85,463	
3/4	3/4	205,198	3/4	190,255	3/4	175,278	3/4	160,259	3/4	145,239	3/4	130,219	3/4	115,199	3/4	100,176	3/4	85,150	
8	8	204,888	8	189,943	8	174,966	8	159,946	8	144,926	8	129,906	8	114,887	8	99,863	8	84,837	
1/4	1/4	204,578	1/4	189,631	1/4	174,653	1/4	159,633	1/4	144,613	1/4	129,593	1/4	114,574	1/4	99,550	1/4	84,524	
1/2	1/2	204,268	1/2	189,319	1/2	174,340	1/2	159,320	1/2	144,300	1/2	129,280	1/2	114,261	1/2	99,237	1/2	84,211	
3/4	3/4	203,958	3/4	189,007	3/4	174,027	3/4	159,007	3/4	143,987	3/4	128,968	3/4	113,948	3/4	98,924	3/4	83,898	
9	9	203,648	9	188,695	9	173,714	9	158,694	9	143,674	9	128,655	9	113,635	9	98,611	9	83,585	
1/4	1/4	203,338	1/4	188,383	1/4	173,401	1/4	158,382	1/4	143,362	1/4	128,342	1/4	113,322	1/4	98,298	1/4	83,272	
1/2	1/2	203,028	1/2	188,071	1/2	173,089	1/2	158,069	1/2	143,049	1/2	128,029	1/2	113,009	1/2	97,985	1/2	82,959	
3/4	3/4	202,718	3/4	187,759	3/4	172,776	3/4	157,756	3/4	142,736	3/4	127,716	3/4	112,696	3/4	97,672	3/4	82,646	
10	10	202,408	10	187,447	10	172,463	10	157,443	10	142,423	10	127,403	10	112,383	10	97,359	10	82,333	
1/4	1/4	202,098	1/4	187,135	1/4	172,150	1/4	157,130	1/4	142,110	1/4	127,090	1/4	112,070	1/4	97,046	1/4	82,020	
1/2	1/2	201,789	1/2	186,823	1/2	171,837	1/2	156,817	1/2	141,797	1/2	126,777	1/2	111,757	1/2	96,733	1/2	81,707	
3/4	3/4	201,479	3/4	186,511	3/4	171,524	3/4	156,504	3/4	141,484	3/4	126,464	3/4	111,444	3/4	96,420	3/4	81,394	
11	11	201,169	11	186,199	11	171,211	11	156,191	11	141,171	11	126,151	11	111,132	11	96,107	11	81,081	
1/4	1/4	200,859	1/4	185,887	1/4	170,898	1/4	155,878	1/4	140,858	1/4	125,838	1/4	110,819	1/4	95,794	1/4	80,768	
1/2	1/2	200,548	1/2	185,575	1/2	170,585	1/2	155,565	1/2	140,545	1/2	125,525	1/2	110,506	1/2	95,481	1/2	80,455	
3/4	3/4	200,237	3/4	185,263	3/4	170,272	3/4	155,252	3/4	140,232	3/4	125,213	3/4	110,193	3/4	95,168	3/4	80,141	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO 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

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 3024"

## 1 STBD 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	79,828	0	64,802	0	49,783	0	34,758	0	19,732	0	5,519	0		0		0		0	
1/4	79,515	1/4	64,489	1/4	49,470	1/4	34,445	1/4	19,419	1/4	5,245	1/4		1/4		1/4		1/4	
1/2	79,202	1/2	64,176	1/2	49,157	1/2	34,132	1/2	19,106	1/2	4,974	1/2		1/2		1/2		1/2	
3/4	78,889	3/4	63,863	3/4	48,844	3/4	33,819	3/4	18,793	3/4	4,703	3/4		3/4		3/4		3/4	
1	78,576	1	63,550	1	48,531	1	33,505	1	18,480	1	4,433	1		1		1		1	
1/4	78,263	1/4	63,237	1/4	48,218	1/4	33,192	1/4	18,167	1/4	4,162	1/4		1/4		1/4		1/4	
1/2	77,950	1/2	62,924	1/2	47,905	1/2	32,879	1/2	17,855	1/2	3,896	1/2		1/2		1/2		1/2	
3/4	77,637	3/4	62,611	3/4	47,592	3/4	32,566	3/4	17,543	3/4	3,629	3/4		3/4		3/4		3/4	
2	77,324	2	62,298	2	47,279	2	32,253	2	17,230	2	3,363	2		2		2		2	
1/4	77,011	1/4	61,985	1/4	46,966	1/4	31,940	1/4	16,918	1/4	3,096	1/4		1/4		1/4		1/4	
1/2	76,698	1/2	61,672	1/2	46,653	1/2	31,627	1/2	16,609	1/2	2,834	1/2		1/2		1/2		1/2	
3/4	76,385	3/4	61,359	3/4	46,340	3/4	31,314	3/4	16,300	3/4	2,572	3/4		3/4		3/4		3/4	
3	76,072	3	61,046	3	46,027	3	31,001	3	15,991	3	2,310	3		3		3		3	
1/4	75,759	1/4	60,734	1/4	45,714	1/4	30,688	1/4	15,682	1/4	2,048	1/4		1/4		1/4		1/4	
1/2	75,446	1/2	60,421	1/2	45,401	1/2	30,375	1/2	15,376	1/2	1,809	1/2		1/2		1/2		1/2	
3/4	75,133	3/4	60,108	3/4	45,088	3/4	30,062	3/4	15,071	3/4	1,571	3/4		3/4		3/4		3/4	
4	74,820	4	59,795	4	44,775	4	29,749	4	14,766	4	1,332	4		4		4		4	
1/4	74,507	1/4	59,482	1/4	44,462	1/4	29,436	1/4	14,460	1/4	1,093	1/4		1/4		1/4		1/4	
1/2	74,194	1/2	59,169	1/2	44,149	1/2	29,123	1/2	14,159	1/2	916	1/2		1/2		1/2		1/2	
3/4	73,881	3/4	58,857	3/4	43,836	3/4	28,810	3/4	13,857	3/4	739	3/4		3/4		3/4		3/4	
5	73,567	5	58,544	5	43,523	5	28,497	5	13,556	5	562	5		5		5		5	
1/4	73,254	1/4	58,231	1/4	43,210	1/4	28,184	1/4	13,254	1/4	385	1/4		1/4		1/4		1/4	
1/2	72,941	1/2	57,918	1/2	42,897	1/2	27,871	1/2	12,957	1/2		1/2		1/2		1/2		1/2	
3/4	72,628	3/4	57,605	3/4	42,584	3/4	27,558	3/4	12,659	3/4		3/4		3/4		3/4		3/4	
6	72,315	6	57,293	6	42,271	6	27,245	6	12,362	6		6		6		6		6	
1/4	72,002	1/4	56,980	1/4	41,957	1/4	26,932	1/4	12,064	1/4		1/4		1/4		1/4		1/4	
1/2	71,689	1/2	56,667	1/2	41,644	1/2	26,619	1/2	11,770	1/2		1/2		1/2		1/2		1/2	
3/4	71,376	3/4	56,354	3/4	41,331	3/4	26,306	3/4	11,476	3/4		3/4		3/4		3/4		3/4	
7	71,063	7	56,041	7	41,018	7	25,993	7	11,183	7		7		7		7		7	
1/4	70,750	1/4	55,728	1/4	40,705	1/4	25,680	1/4	10,889	1/4		1/4		1/4		1/4		1/4	
1/2	70,437	1/2	55,416	1/2	40,392	1/2	25,367	1/2	10,599	1/2		1/2		1/2		1/2		1/2	
3/4	70,124	3/4	55,103	3/4	40,079	3/4	25,053	3/4	10,309	3/4		3/4		3/4		3/4		3/4	
8	69,811	8	54,790	8	39,766	8	24,740	8	10,019	8		8		8		8		8	
1/4	69,498	1/4	54,477	1/4	39,453	1/4	24,427	1/4	9,729	1/4		1/4		1/4		1/4		1/4	
1/2	69,185	1/2	54,164	1/2	39,140	1/2	24,114	1/2	9,443	1/2		1/2		1/2		1/2		1/2	
3/4	68,872	3/4	53,852	3/4	38,827	3/4	23,801	3/4	9,157	3/4		3/4		3/4		3/4		3/4	
9	68,559	9	53,539	9	38,514	9	23,488	9	8,871	9		9		9		9		9	
1/4	68,246	1/4	53,226	1/4	38,201	1/4	23,175	1/4	8,585	1/4		1/4		1/4		1/4		1/4	
1/2	67,933	1/2	52,913	1/2	37,888	1/2	22,862	1/2	8,303	1/2		1/2		1/2		1/2		1/2	
3/4	67,620	3/4	52,600	3/4	37,575	3/4	22,549	3/4	8,021	3/4		3/4		3/4		3/4		3/4	
10	67,307	10	52,287	10	37,262	10	22,236	10	7,738	10		10		10		10		10	
1/4	66,994	1/4	51,974	1/4	36,949	1/4	21,923	1/4	7,456	1/4		1/4		1/4		1/4		1/4	
1/2	66,680	1/2	51,661	1/2	36,636	1/2	21,610	1/2	7,178	1/2		1/2		1/2		1/2		1/2	
3/4	66,367	3/4	51,348	3/4	36,323	3/4	21,297	3/4	6,899	3/4		3/4		3/4		3/4		3/4	
11	66,054	11	51,035	11	36,010	11	20,984	11	6,621	11		11		11		11		11	
1/4	65,741	1/4	50,722	1/4	35,697	1/4	20,671	1/4	6,343	1/4		1/4		1/4		1/4		1/4	
1/2	65,428	1/2	50,409	1/2	35,384	1/2	20,358	1/2	6,068	1/2		1/2		1/2		1/2		1/2	
3/4	65,115	3/4	50,096	3/4	35,071	3/4	20,045	3/4	5,794	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

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# BARGE "HSM 3024"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	201,526	0	186,514	0	171,484	0	156,421	0	141,358	0	126,295	0	111,233	0	96,163
1/4		1/4		1/4	201,213	1/4	186,202	1/4	171,170	1/4	156,107	1/4	141,044	1/4	125,982	1/4	110,919	1/4	95,849
1/2		1/2		1/2	200,901	1/2	185,889	1/2	170,856	1/2	155,793	1/2	140,730	1/2	125,668	1/2	110,605	1/2	95,535
3/4		3/4		3/4	200,588	3/4	185,576	3/4	170,542	3/4	155,479	3/4	140,417	3/4	125,354	3/4	110,291	3/4	95,221
1		1		1	200,275	1	185,263	1	170,228	1	155,166	1	140,103	1	125,040	1	109,977	1	94,907
1/4		1/4		1/4	199,962	1/4	184,951	1/4	169,915	1/4	154,852	1/4	139,789	1/4	124,726	1/4	109,663	1/4	94,593
1/2		1/2		1/2	199,650	1/2	184,638	1/2	169,601	1/2	154,538	1/2	139,475	1/2	124,412	1/2	109,350	1/2	94,279
3/4		3/4		3/4	199,337	3/4	184,325	3/4	169,287	3/4	154,224	3/4	139,161	3/4	124,099	3/4	109,036	3/4	93,965
2		2	212,946	2	199,024	2	184,012	2	168,973	2	153,910	2	138,848	2	123,785	2	108,722	2	93,651
1/4		1/4	212,767	1/4	198,711	1/4	183,700	1/4	168,659	1/4	153,597	1/4	138,534	1/4	123,471	1/4	108,408	1/4	93,338
1/2		1/2	212,588	1/2	198,399	1/2	183,387	1/2	168,346	1/2	153,283	1/2	138,220	1/2	123,157	1/2	108,094	1/2	93,024
3/4		3/4	212,410	3/4	198,086	3/4	183,074	3/4	168,032	3/4	152,969	3/4	137,906	3/4	122,843	3/4	107,780	3/4	92,710
3		3	212,231	3	197,773	3	182,761	3	167,718	3	152,655	3	137,592	3	122,530	3	107,466	3	92,396
1/4		1/4	211,999	1/4	197,460	1/4	182,449	1/4	167,404	1/4	152,341	1/4	137,279	1/4	122,216	1/4	107,152	1/4	92,082
1/2		1/2	211,768	1/2	197,148	1/2	182,136	1/2	167,090	1/2	152,028	1/2	136,965	1/2	121,902	1/2	106,838	1/2	91,768
3/4		3/4	211,537	3/4	196,835	3/4	181,823	3/4	166,776	3/4	151,714	3/4	136,651	3/4	121,588	3/4	106,524	3/4	91,454
4		4	211,305	4	196,522	4	181,511	4	166,463	4	151,400	4	136,337	4	121,274	4	106,210	4	91,140
1/4		1/4	211,025	1/4	196,209	1/4	181,198	1/4	166,149	1/4	151,086	1/4	136,023	1/4	120,961	1/4	105,896	1/4	90,826
1/2		1/2	210,746	1/2	195,897	1/2	180,885	1/2	165,835	1/2	150,772	1/2	135,710	1/2	120,647	1/2	105,582	1/2	90,512
3/4		3/4	210,466	3/4	195,584	3/4	180,572	3/4	165,521	3/4	150,458	3/4	135,396	3/4	120,333	3/4	105,268	3/4	90,198
5		5	210,186	5	195,271	5	180,260	5	165,207	5	150,145	5	135,082	5	120,019	5	104,954	5	89,884
1/4		1/4	209,880	1/4	194,958	1/4	179,947	1/4	164,894	1/4	149,831	1/4	134,768	1/4	119,705	1/4	104,640	1/4	89,570
1/2		1/2	209,575	1/2	194,646	1/2	179,634	1/2	164,580	1/2	149,517	1/2	134,454	1/2	119,392	1/2	104,326	1/2	89,256
3/4		3/4	209,269	3/4	194,333	3/4	179,321	3/4	164,266	3/4	149,203	3/4	134,141	3/4	119,078	3/4	104,012	3/4	88,942
6		6	208,963	6	194,020	6	179,009	6	163,952	6	148,889	6	133,827	6	118,764	6	103,698	6	88,628
1/4		1/4	208,654	1/4	193,707	1/4	178,696	1/4	163,638	1/4	148,576	1/4	133,513	1/4	118,450	1/4	103,384	1/4	88,314
1/2		1/2	208,345	1/2	193,395	1/2	178,383	1/2	163,325	1/2	148,262	1/2	133,199	1/2	118,136	1/2	103,070	1/2	88,000
3/4		3/4	208,036	3/4	193,082	3/4	178,070	3/4	163,011	3/4	147,948	3/4	132,885	3/4	117,823	3/4	102,756	3/4	87,686
7		7	207,726	7	192,769	7	177,758	7	162,697	7	147,634	7	132,571	7	117,509	7	102,443	7	87,372
1/4		1/4	207,417	1/4	192,456	1/4	177,444	1/4	162,383	1/4	147,320	1/4	132,258	1/4	117,195	1/4	102,129	1/4	87,058
1/2		1/2	207,107	1/2	192,144	1/2	177,131	1/2	162,069	1/2	147,007	1/2	131,944	1/2	116,881	1/2	101,815	1/2	86,744
3/4		3/4	206,797	3/4	191,831	3/4	176,818	3/4	161,756	3/4	146,693	3/4	131,630	3/4	116,567	3/4	101,501	3/4	86,430
8		8	206,487	8	191,518	8	176,504	8	161,442	8	146,379	8	131,316	8	116,253	8	101,187	8	86,116
1/4		1/4	206,178	1/4	191,206	1/4	176,191	1/4	161,128	1/4	146,065	1/4	131,002	1/4	115,940	1/4	100,873	1/4	85,802
1/2		1/2	205,868	1/2	190,893	1/2	175,877	1/2	160,814	1/2	145,751	1/2	130,689	1/2	115,626	1/2	100,559	1/2	85,488
3/4		3/4	205,558	3/4	190,580	3/4	175,563	3/4	160,500	3/4	145,438	3/4	130,375	3/4	115,312	3/4	100,245	3/4	85,174
9		9	205,248	9	190,267	9	175,249	9	160,187	9	145,124	9	130,061	9	114,998	9	99,931	9	84,860
1/4		1/4	204,939	1/4	189,955	1/4	174,935	1/4	159,873	1/4	144,810	1/4	129,747	1/4	114,684	1/4	99,617	1/4	84,547
1/2		1/2	204,629	1/2	189,642	1/2	174,622	1/2	159,559	1/2	144,496	1/2	129,433	1/2	114,371	1/2	99,303	1/2	84,233
3/4		3/4	204,319	3/4	189,329	3/4	174,308	3/4	159,245	3/4	144,182	3/4	129,120	3/4	114,057	3/4	98,989	3/4	83,919
10		10	204,009	10	189,016	10	173,994	10	158,931	10	143,869	10	128,806	10	113,743	10	98,675	10	83,605
1/4		1/4	203,700	1/4	188,704	1/4	173,680	1/4	158,617	1/4	143,555	1/4	128,492	1/4	113,429	1/4	98,361	1/4	83,291
1/2		1/2	203,390	1/2	188,391	1/2	173,366	1/2	158,304	1/2	143,241	1/2	128,178	1/2	113,115	1/2	98,047	1/2	82,977
3/4		3/4	203,080	3/4	188,078	3/4	173,053	3/4	157,990	3/4	142,927	3/4	127,864	3/4	112,802	3/4	97,733	3/4	82,663
11		11	202,771	11	187,765	11	172,739	11	157,676	11	142,613	11	127,551	11	112,488	11	97,419	11	82,349
1/4		1/4	202,460	1/4	187,453	1/4	172,425	1/4	157,362	1/4	142,300	1/4	127,237	1/4	112,174	1/4	97,105	1/4	82,035
1/2		1/2	202,148	1/2	187,140	1/2	172,111	1/2	157,048	1/2	141,986	1/2	126,923	1/2	111,860	1/2	96,791	1/2	81,721
3/4		3/4	201,837	3/4	186,827	3/4	171,797	3/4	156,735	3/4	141,672	3/4	126,609	3/4	111,546	3/4	96,477	3/4	81,407

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'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3024"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	81,093	0	66,023	0	51,494	0	37,024	0	21,980	0	6,910	0		0		0		0	
1/4	80,779	1/4	65,715	1/4	51,192	1/4	36,716	1/4	21,666	1/4	6,596	1/4		1/4		1/4		1/4	
1/2	80,465	1/2	65,406	1/2	50,890	1/2	36,408	1/2	21,352	1/2	6,282	1/2		1/2		1/2		1/2	
3/4	80,151	3/4	65,098	3/4	50,588	3/4	36,100	3/4	21,038	3/4	5,968	3/4		3/4		3/4		3/4	
1	79,837	1	64,790	1	50,286	1	35,792	1	20,724	1	5,654	1		1		1		1	
1/4	79,523	1/4	64,488	1/4	49,985	1/4	35,478	1/4	20,410	1/4	5,341	1/4		1/4		1/4		1/4	
1/2	79,209	1/2	64,186	1/2	49,683	1/2	35,164	1/2	20,096	1/2	5,027	1/2		1/2		1/2		1/2	
3/4	78,895	3/4	63,884	3/4	49,382	3/4	34,850	3/4	19,782	3/4	4,713	3/4		3/4		3/4		3/4	
2	78,581	2	63,581	2	49,080	2	34,536	2	19,468	2	4,400	2		2		2		2	
1/4	78,267	1/4	63,279	1/4	48,779	1/4	34,222	1/4	19,154	1/4	4,087	1/4		1/4		1/4		1/4	
1/2	77,953	1/2	62,977	1/2	48,478	1/2	33,908	1/2	18,841	1/2	3,774	1/2		1/2		1/2		1/2	
3/4	77,639	3/4	62,675	3/4	48,176	3/4	33,594	3/4	18,527	3/4	3,461	3/4		3/4		3/4		3/4	
3	77,325	3	62,373	3	47,875	3	33,280	3	18,213	3	3,148	3		3		3		3	
1/4	77,011	1/4	62,071	1/4	47,574	1/4	32,966	1/4	17,899	1/4	2,854	1/4		1/4		1/4		1/4	
1/2	76,697	1/2	61,768	1/2	47,272	1/2	32,652	1/2	17,585	1/2	2,561	1/2		1/2		1/2		1/2	
3/4	76,383	3/4	61,466	3/4	46,971	3/4	32,338	3/4	17,271	3/4	2,267	3/4		3/4		3/4		3/4	
4	76,069	4	61,164	4	46,670	4	32,024	4	16,957	4	1,974	4		4		4		4	
1/4	75,755	1/4	60,862	1/4	46,369	1/4	31,710	1/4	16,643	1/4	1,738	1/4		1/4		1/4		1/4	
1/2	75,442	1/2	60,560	1/2	46,067	1/2	31,396	1/2	16,329	1/2	1,503	1/2		1/2		1/2		1/2	
3/4	75,128	3/4	60,257	3/4	45,766	3/4	31,082	3/4	16,015	3/4	1,267	3/4		3/4		3/4		3/4	
5	74,814	5	59,955	5	45,465	5	30,769	5	15,701	5	1,032	5		5		5		5	
1/4	74,500	1/4	59,653	1/4	45,164	1/4	30,455	1/4	15,387	1/4		1/4		1/4		1/4		1/4	
1/2	74,186	1/2	59,351	1/2	44,862	1/2	30,141	1/2	15,073	1/2		1/2		1/2		1/2		1/2	
3/4	73,872	3/4	59,049	3/4	44,561	3/4	29,827	3/4	14,759	3/4		3/4		3/4		3/4		3/4	
6	73,558	6	58,746	6	44,260	6	29,513	6	14,445	6		6		6		6		6	
1/4	73,244	1/4	58,444	1/4	43,959	1/4	29,199	1/4	14,131	1/4		1/4		1/4		1/4		1/4	
1/2	72,930	1/2	58,142	1/2	43,657	1/2	28,885	1/2	13,817	1/2		1/2		1/2		1/2		1/2	
3/4	72,616	3/4	57,840	3/4	43,356	3/4	28,572	3/4	13,503	3/4		3/4		3/4		3/4		3/4	
7	72,302	7	57,538	7	43,055	7	28,258	7	13,189	7		7		7		7		7	
1/4	71,988	1/4	57,235	1/4	42,754	1/4	27,944	1/4	12,875	1/4		1/4		1/4		1/4		1/4	
1/2	71,674	1/2	56,933	1/2	42,452	1/2	27,631	1/2	12,561	1/2		1/2		1/2		1/2		1/2	
3/4	71,360	3/4	56,631	3/4	42,151	3/4	27,317	3/4	12,247	3/4		3/4		3/4		3/4		3/4	
8	71,046	8	56,329	8	41,850	8	27,003	8	11,933	8		8		8		8		8	
1/4	70,732	1/4	56,027	1/4	41,548	1/4	26,689	1/4	11,620	1/4		1/4		1/4		1/4		1/4	
1/2	70,418	1/2	55,724	1/2	41,247	1/2	26,375	1/2	11,306	1/2		1/2		1/2		1/2		1/2	
3/4	70,104	3/4	55,422	3/4	40,946	3/4	26,061	3/4	10,992	3/4		3/4		3/4		3/4		3/4	
9	69,790	9	55,120	9	40,645	9	25,748	9	10,678	9		9		9		9		9	
1/4	69,476	1/4	54,818	1/4	40,343	1/4	25,434	1/4	10,364	1/4		1/4		1/4		1/4		1/4	
1/2	69,162	1/2	54,516	1/2	40,042	1/2	25,120	1/2	10,050	1/2		1/2		1/2		1/2		1/2	
3/4	68,848	3/4	54,213	3/4	39,741	3/4	24,806	3/4	9,736	3/4		3/4		3/4		3/4		3/4	
10	68,534	10	53,911	10	39,440	10	24,492	10	9,422	10		10		10		10		10	
1/4	68,220	1/4	53,609	1/4	39,138	1/4	24,178	1/4	9,108	1/4		1/4		1/4		1/4		1/4	
1/2	67,906	1/2	53,307	1/2	38,836	1/2	23,864	1/2	8,794	1/2		1/2		1/2		1/2		1/2	
3/4	67,592	3/4	53,005	3/4	38,535	3/4	23,550	3/4	8,480	3/4		3/4		3/4		3/4		3/4	
11	67,278	11	52,702	11	38,233	11	23,236	11	8,166	11		11		11		11		11	
1/4	66,964	1/4	52,400	1/4	37,931	1/4	22,922	1/4	7,852	1/4		1/4		1/4		1/4		1/4	
1/2	66,651	1/2	52,098	1/2	37,628	1/2	22,608	1/2	7,538	1/2		1/2		1/2		1/2		1/2	
3/4	66,337	3/4	51,796	3/4	37,326	3/4	22,294	3/4	7,224	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HSM 3024"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	202,854	0	187,828	0	172,782	0	157,705	0	142,628	0	127,550	0	112,473	0	97,389
1/4		1/4		1/4	202,541	1/4	187,515	1/4	172,468	1/4	157,391	1/4	142,314	1/4	127,236	1/4	112,159	1/4	97,075
1/2		1/2		1/2	202,228	1/2	187,202	1/2	172,154	1/2	157,077	1/2	141,999	1/2	126,922	1/2	111,845	1/2	96,760
3/4		3/4		3/4	201,915	3/4	186,889	3/4	171,840	3/4	156,763	3/4	141,685	3/4	126,608	3/4	111,531	3/4	96,446
1		1		1	201,602	1	186,576	1	171,526	1	156,449	1	141,371	1	126,294	1	111,217	1	96,132
1/4		1/4		1/4	201,289	1/4	186,263	1/4	171,212	1/4	156,134	1/4	141,057	1/4	125,980	1/4	110,902	1/4	95,818
1/2		1/2		1/2	200,976	1/2	185,950	1/2	170,898	1/2	155,820	1/2	140,743	1/2	125,666	1/2	110,588	1/2	95,503
3/4		3/4		3/4	200,663	3/4	185,636	3/4	170,584	3/4	155,506	3/4	140,429	3/4	125,352	3/4	110,274	3/4	95,189
2		2	214,286	2	200,350	2	185,323	2	170,270	2	155,192	2	140,115	2	125,037	2	109,960	2	94,875
1/4		1/4	214,106	1/4	200,037	1/4	185,010	1/4	169,955	1/4	154,878	1/4	139,801	1/4	124,723	1/4	109,645	1/4	94,561
1/2		1/2	213,927	1/2	199,724	1/2	184,697	1/2	169,641	1/2	154,564	1/2	139,487	1/2	124,409	1/2	109,331	1/2	94,246
3/4		3/4	213,748	3/4	199,410	3/4	184,384	3/4	169,327	3/4	154,250	3/4	139,172	3/4	124,095	3/4	109,017	3/4	93,932
3		3	213,569	3	199,097	3	184,071	3	169,013	3	153,936	3	138,858	3	123,781	3	108,703	3	93,618
1/4		1/4	213,337	1/4	198,784	1/4	183,758	1/4	168,699	1/4	153,622	1/4	138,544	1/4	123,467	1/4	108,388	1/4	93,303
1/2		1/2	213,106	1/2	198,471	1/2	183,445	1/2	168,385	1/2	153,307	1/2	138,230	1/2	123,153	1/2	108,074	1/2	92,989
3/4		3/4	212,874	3/4	198,158	3/4	183,132	3/4	168,071	3/4	152,993	3/4	137,916	3/4	122,839	3/4	107,760	3/4	92,675
4		4	212,643	4	197,845	4	182,819	4	167,757	4	152,679	4	137,602	4	122,525	4	107,446	4	92,361
1/4		1/4	212,363	1/4	197,532	1/4	182,506	1/4	167,443	1/4	152,365	1/4	137,288	1/4	122,210	1/4	107,131	1/4	92,046
1/2		1/2	212,083	1/2	197,219	1/2	182,193	1/2	167,128	1/2	152,051	1/2	136,974	1/2	121,896	1/2	106,817	1/2	91,732
3/4		3/4	211,802	3/4	196,906	3/4	181,880	3/4	166,814	3/4	151,737	3/4	136,660	3/4	121,582	3/4	106,503	3/4	91,418
5		5	211,522	5	196,593	5	181,567	5	166,500	5	151,423	5	136,345	5	121,268	5	106,189	5	91,104
1/4		1/4	211,216	1/4	196,280	1/4	181,254	1/4	166,186	1/4	151,109	1/4	136,031	1/4	120,954	1/4	105,874	1/4	90,789
1/2		1/2	210,911	1/2	195,967	1/2	180,941	1/2	165,872	1/2	150,795	1/2	135,717	1/2	120,640	1/2	105,560	1/2	90,475
3/4		3/4	210,605	3/4	195,654	3/4	180,628	3/4	165,558	3/4	150,480	3/4	135,403	3/4	120,326	3/4	105,246	3/4	90,161
6		6	210,299	6	195,341	6	180,315	6	165,244	6	150,166	6	135,089	6	120,012	6	104,931	6	89,847
1/4		1/4	209,989	1/4	195,028	1/4	180,002	1/4	164,930	1/4	149,852	1/4	134,775	1/4	119,698	1/4	104,617	1/4	89,532
1/2		1/2	209,680	1/2	194,715	1/2	179,689	1/2	164,615	1/2	149,538	1/2	134,461	1/2	119,383	1/2	104,303	1/2	89,218
3/4		3/4	209,370	3/4	194,402	3/4	179,376	3/4	164,301	3/4	149,224	3/4	134,147	3/4	119,069	3/4	103,989	3/4	88,904
7		7	209,060	7	194,089	7	179,062	7	163,987	7	148,910	7	133,833	7	118,755	7	103,674	7	88,589
1/4		1/4	208,750	1/4	193,776	1/4	178,749	1/4	163,673	1/4	148,596	1/4	133,518	1/4	118,441	1/4	103,360	1/4	88,275
1/2		1/2	208,440	1/2	193,463	1/2	178,435	1/2	163,359	1/2	148,282	1/2	133,204	1/2	118,127	1/2	103,046	1/2	87,961
3/4		3/4	208,130	3/4	193,150	3/4	178,122	3/4	163,045	3/4	147,968	3/4	132,890	3/4	117,813	3/4	102,732	3/4	87,647
8		8	207,820	8	192,837	8	177,808	8	162,731	8	147,653	8	132,576	8	117,499	8	102,417	8	87,332
1/4		1/4	207,510	1/4	192,523	1/4	177,494	1/4	162,417	1/4	147,339	1/4	132,262	1/4	117,185	1/4	102,103	1/4	87,018
1/2		1/2	207,200	1/2	192,210	1/2	177,180	1/2	162,103	1/2	147,025	1/2	131,948	1/2	116,871	1/2	101,789	1/2	86,704
3/4		3/4	206,890	3/4	191,897	3/4	176,866	3/4	161,788	3/4	146,711	3/4	131,634	3/4	116,556	3/4	101,474	3/4	86,390
9		9	206,580	9	191,584	9	176,552	9	161,474	9	146,397	9	131,320	9	116,242	9	101,160	9	86,075
1/4		1/4	206,270	1/4	191,271	1/4	176,238	1/4	161,160	1/4	146,083	1/4	131,006	1/4	115,928	1/4	100,846	1/4	85,761
1/2		1/2	205,960	1/2	190,958	1/2	175,924	1/2	160,846	1/2	145,769	1/2	130,691	1/2	115,614	1/2	100,532	1/2	85,447
3/4		3/4	205,650	3/4	190,645	3/4	175,609	3/4	160,532	3/4	145,455	3/4	130,377	3/4	115,300	3/4	100,217	3/4	85,132
10		10	205,340	10	190,332	10	175,295	10	160,218	10	145,141	10	130,063	10	114,986	10	99,903	10	84,818
1/4		1/4	205,030	1/4	190,019	1/4	174,981	1/4	159,904	1/4	144,826	1/4	129,749	1/4	114,672	1/4	99,589	1/4	84,504
1/2		1/2	204,720	1/2	189,706	1/2	174,667	1/2	159,590	1/2	144,512	1/2	129,435	1/2	114,358	1/2	99,275	1/2	84,190
3/4		3/4	204,410	3/4	189,393	3/4	174,353	3/4	159,276	3/4	144,198	3/4	129,121	3/4	114,044	3/4	98,960	3/4	83,875
11		11	204,100	11	189,080	11	174,039	11	158,961	11	143,884	11	128,807	11	113,729	11	98,646	11	83,561
1/4		1/4	203,788	1/4	188,767	1/4	173,725	1/4	158,647	1/4	143,570	1/4	128,493	1/4	113,415	1/4	98,332	1/4	83,247
1/2		1/2	203,477	1/2	188,454	1/2	173,411	1/2	158,333	1/2	143,256	1/2	128,179	1/2	113,101	1/2	98,018	1/2	82,933
3/4		3/4	203,165	3/4	188,141	3/4	173,097	3/4	158,019	3/4	142,942	3/4	127,864	3/4	112,787	3/4	97,703	3/4	82,618

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'-09" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

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

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



# BARGE "HSM 3024"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	82,304	0	67,219	0	52,134	0	37,085	0	22,002	0	6,917	0		0		0		0	
1/4	81,990	1/4	66,905	1/4	51,820	1/4	36,770	1/4	21,688	1/4	6,603	1/4		1/4		1/4		1/4	
1/2	81,676	1/2	66,591	1/2	51,506	1/2	36,456	1/2	21,374	1/2	6,289	1/2		1/2		1/2		1/2	
3/4	81,361	3/4	66,276	3/4	51,192	3/4	36,142	3/4	21,059	3/4	5,975	3/4		3/4		3/4		3/4	
1	81,047	1	65,962	1	50,879	1	35,828	1	20,745	1	5,660	1		1		1		1	
1/4	80,733	1/4	65,648	1/4	50,565	1/4	35,513	1/4	20,431	1/4	5,346	1/4		1/4		1/4		1/4	
1/2	80,418	1/2	65,334	1/2	50,251	1/2	35,199	1/2	20,117	1/2	5,032	1/2		1/2		1/2		1/2	
3/4	80,104	3/4	65,019	3/4	49,938	3/4	34,885	3/4	19,802	3/4	4,718	3/4		3/4		3/4		3/4	
2	79,790	2	64,705	2	49,624	2	34,571	2	19,488	2	4,404	2		2		2		2	
1/4	79,476	1/4	64,391	1/4	49,311	1/4	34,256	1/4	19,174	1/4	4,091	1/4		1/4		1/4		1/4	
1/2	79,161	1/2	64,076	1/2	48,997	1/2	33,942	1/2	18,859	1/2	3,778	1/2		1/2		1/2		1/2	
3/4	78,847	3/4	63,762	3/4	48,684	3/4	33,628	3/4	18,545	3/4	3,464	3/4		3/4		3/4		3/4	
3	78,533	3	63,448	3	48,370	3	33,313	3	18,231	3	3,151	3		3		3		3	
1/4	78,219	1/4	63,134	1/4	48,057	1/4	32,999	1/4	17,917	1/4	2,837	1/4		1/4		1/4		1/4	
1/2	77,904	1/2	62,819	1/2	47,744	1/2	32,685	1/2	17,602	1/2	2,523	1/2		1/2		1/2		1/2	
3/4	77,590	3/4	62,505	3/4	47,430	3/4	32,371	3/4	17,288	3/4	2,209	3/4		3/4		3/4		3/4	
4	77,276	4	62,191	4	47,117	4	32,056	4	16,974	4	1,976	4		4		4		4	
1/4	76,961	1/4	61,877	1/4	46,804	1/4	31,742	1/4	16,660	1/4	1,740	1/4		1/4		1/4		1/4	
1/2	76,647	1/2	61,562	1/2	46,490	1/2	31,428	1/2	16,345	1/2	1,504	1/2		1/2		1/2		1/2	
3/4	76,333	3/4	61,248	3/4	46,177	3/4	31,114	3/4	16,031	3/4	1,269	3/4		3/4		3/4		3/4	
5	76,019	5	60,934	5	45,864	5	30,799	5	15,717	5	1,033	5		5		5		5	
1/4	75,704	1/4	60,619	1/4	45,550	1/4	30,485	1/4	15,402	1/4		1/4		1/4		1/4		1/4	
1/2	75,390	1/2	60,305	1/2	45,237	1/2	30,171	1/2	15,088	1/2		1/2		1/2		1/2		1/2	
3/4	75,076	3/4	59,991	3/4	44,924	3/4	29,857	3/4	14,774	3/4		3/4		3/4		3/4		3/4	
6	74,762	6	59,677	6	44,610	6	29,543	6	14,460	6		6		6		6		6	
1/4	74,447	1/4	59,362	1/4	44,297	1/4	29,228	1/4	14,145	1/4		1/4		1/4		1/4		1/4	
1/2	74,133	1/2	59,048	1/2	43,984	1/2	28,914	1/2	13,831	1/2		1/2		1/2		1/2		1/2	
3/4	73,819	3/4	58,734	3/4	43,670	3/4	28,600	3/4	13,517	3/4		3/4		3/4		3/4		3/4	
7	73,505	7	58,420	7	43,357	7	28,286	7	13,203	7		7		7		7		7	
1/4	73,190	1/4	58,105	1/4	43,044	1/4	27,972	1/4	12,888	1/4		1/4		1/4		1/4		1/4	
1/2	72,876	1/2	57,791	1/2	42,730	1/2	27,658	1/2	12,574	1/2		1/2		1/2		1/2		1/2	
3/4	72,562	3/4	57,477	3/4	42,417	3/4	27,344	3/4	12,260	3/4		3/4		3/4		3/4		3/4	
8	72,247	8	57,163	8	42,104	8	27,030	8	11,946	8		8		8		8		8	
1/4	71,933	1/4	56,848	1/4	41,790	1/4	26,716	1/4	11,631	1/4		1/4		1/4		1/4		1/4	
1/2	71,619	1/2	56,534	1/2	41,477	1/2	26,402	1/2	11,317	1/2		1/2		1/2		1/2		1/2	
3/4	71,305	3/4	56,220	3/4	41,164	3/4	26,088	3/4	11,003	3/4		3/4		3/4		3/4		3/4	
9	70,990	9	55,905	9	40,850	9	25,773	9	10,688	9		9		9		9		9	
1/4	70,676	1/4	55,591	1/4	40,537	1/4	25,459	1/4	10,374	1/4		1/4		1/4		1/4		1/4	
1/2	70,362	1/2	55,277	1/2	40,224	1/2	25,145	1/2	10,060	1/2		1/2		1/2		1/2		1/2	
3/4	70,048	3/4	54,963	3/4	39,910	3/4	24,831	3/4	9,746	3/4		3/4		3/4		3/4		3/4	
10	69,733	10	54,648	10	39,597	10	24,516	10	9,431	10		10		10		10		10	
1/4	69,419	1/4	54,334	1/4	39,283	1/4	24,202	1/4	9,117	1/4		1/4		1/4		1/4		1/4	
1/2	69,105	1/2	54,020	1/2	38,969	1/2	23,888	1/2	8,803	1/2		1/2		1/2		1/2		1/2	
3/4	68,790	3/4	53,706	3/4	38,656	3/4	23,573	3/4	8,489	3/4		3/4		3/4		3/4		3/4	
11	68,476	11	53,391	11	38,342	11	23,259	11	8,174	11		11		11		11		11	
1/4	68,162	1/4	53,077	1/4	38,028	1/4	22,945	1/4	7,860	1/4		1/4		1/4		1/4		1/4	
1/2	67,848	1/2	52,763	1/2	37,713	1/2	22,631	1/2	7,546	1/2		1/2		1/2		1/2		1/2	
3/4	67,533	3/4	52,448	3/4	37,399	3/4	22,316	3/4	7,232	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

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 3024"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	184,093	0	173,760	0	163,414	0	153,045	0	140,978	0	126,011	0	111,045	0	96,065
1/4		1/4		1/4	183,877	1/4	173,545	1/4	163,198	1/4	152,829	1/4	140,666	1/4	125,700	1/4	110,733	1/4	95,753
1/2		1/2		1/2	183,662	1/2	173,330	1/2	162,982	1/2	152,613	1/2	140,354	1/2	125,388	1/2	110,421	1/2	95,441
3/4		3/4		3/4	183,447	3/4	173,114	3/4	162,766	3/4	152,397	3/4	140,042	3/4	125,076	3/4	110,110	3/4	95,129
1		1		1	183,232	1	172,899	1	162,550	1	152,181	1	139,731	1	124,764	1	109,798	1	94,817
1/4		1/4		1/4	183,016	1/4	172,684	1/4	162,334	1/4	151,965	1/4	139,419	1/4	124,452	1/4	109,486	1/4	94,505
1/2		1/2		1/2	182,801	1/2	172,468	1/2	162,118	1/2	151,749	1/2	139,107	1/2	124,141	1/2	109,174	1/2	94,193
3/4		3/4		3/4	182,586	3/4	172,253	3/4	161,902	3/4	151,533	3/4	138,795	3/4	123,829	3/4	108,862	3/4	93,881
2		2		2	192,011	2	182,370	2	161,686	2	151,317	2	138,483	2	123,517	2	108,550	2	93,569
1/4		1/4		1/4	191,887	1/4	182,155	1/4	171,823	1/4	161,470	1/4	138,172	1/4	123,205	1/4	108,238	1/4	93,257
1/2		1/2		1/2	191,764	1/2	181,940	1/2	171,607	1/2	161,254	1/2	137,860	1/2	122,893	1/2	107,927	1/2	92,945
3/4		3/4		3/4	191,640	3/4	181,725	3/4	171,392	3/4	161,038	3/4	137,548	3/4	122,582	3/4	107,615	3/4	92,633
3		3		3	191,516	3	181,509	3	171,177	3	160,822	3	137,236	3	122,270	3	107,303	3	92,321
1/4		1/4		1/4	191,357	1/4	181,294	1/4	170,962	1/4	160,605	1/4	136,924	1/4	121,958	1/4	106,991	1/4	92,009
1/2		1/2		1/2	191,197	1/2	181,079	1/2	170,746	1/2	160,389	1/2	136,613	1/2	121,646	1/2	106,679	1/2	91,697
3/4		3/4		3/4	191,037	3/4	180,864	3/4	170,531	3/4	160,173	3/4	136,301	3/4	121,334	3/4	106,366	3/4	91,386
4		4		4	190,878	4	180,648	4	170,316	4	159,957	4	135,989	4	121,023	4	106,054	4	91,074
1/4		1/4		1/4	190,685	1/4	180,433	1/4	170,101	1/4	159,741	1/4	135,677	1/4	120,711	1/4	105,742	1/4	90,762
1/2		1/2		1/2	190,492	1/2	180,218	1/2	169,885	1/2	159,525	1/2	135,365	1/2	120,399	1/2	105,430	1/2	90,450
3/4		3/4		3/4	190,298	3/4	180,003	3/4	169,670	3/4	159,309	3/4	135,054	3/4	120,087	3/4	105,118	3/4	90,138
5		5		5	190,105	5	179,787	5	169,455	5	159,093	5	134,742	5	119,775	5	104,806	5	89,826
1/4		1/4		1/4	189,894	1/4	179,572	1/4	169,240	1/4	158,877	1/4	134,430	1/4	119,464	1/4	104,493	1/4	89,514
1/2		1/2		1/2	189,682	1/2	179,357	1/2	169,024	1/2	158,661	1/2	134,118	1/2	119,152	1/2	104,181	1/2	89,202
3/4		3/4		3/4	189,470	3/4	179,142	3/4	168,809	3/4	158,445	3/4	133,806	3/4	118,840	3/4	103,869	3/4	88,890
6		6		6	189,259	6	178,926	6	168,594	6	158,229	6	133,495	6	118,528	6	103,557	6	88,578
1/4		1/4		1/4	189,044	1/4	178,711	1/4	168,378	1/4	158,013	1/4	133,183	1/4	118,216	1/4	103,244	1/4	88,266
1/2		1/2		1/2	188,829	1/2	178,496	1/2	168,163	1/2	157,797	1/2	132,871	1/2	117,905	1/2	102,932	1/2	87,954
3/4		3/4		3/4	188,614	3/4	178,281	3/4	167,948	3/4	157,581	3/4	132,559	3/4	117,593	3/4	102,620	3/4	87,641
7		7		7	188,399	7	178,065	7	167,733	7	157,365	7	132,247	7	117,281	7	102,308	7	87,329
1/4		1/4		1/4	188,183	1/4	177,850	1/4	167,517	1/4	157,149	1/4	131,936	1/4	116,969	1/4	101,996	1/4	87,017
1/2		1/2		1/2	187,968	1/2	177,635	1/2	167,301	1/2	156,933	1/2	131,624	1/2	116,657	1/2	101,683	1/2	86,705
3/4		3/4		3/4	187,753	3/4	177,419	3/4	167,086	3/4	156,717	3/4	131,312	3/4	116,346	3/4	101,371	3/4	86,393
8		8		8	187,537	8	177,204	8	166,870	8	156,501	8	131,000	8	116,034	8	101,059	8	86,080
1/4		1/4		1/4	187,322	1/4	176,989	1/4	166,654	1/4	156,285	1/4	130,688	1/4	115,722	1/4	100,747	1/4	85,768
1/2		1/2		1/2	187,107	1/2	176,774	1/2	166,438	1/2	156,069	1/2	130,377	1/2	115,410	1/2	100,435	1/2	85,456
3/4		3/4		3/4	186,891	3/4	176,558	3/4	166,222	3/4	155,853	3/4	130,065	3/4	115,098	3/4	100,122	3/4	85,143
9		9		9	186,676	9	176,343	9	166,006	9	155,637	9	129,753	9	114,787	9	99,810	9	84,831
1/4		1/4		1/4	186,461	1/4	176,128	1/4	165,790	1/4	155,421	1/4	129,441	1/4	114,475	1/4	99,498	1/4	84,519
1/2		1/2		1/2	186,245	1/2	175,913	1/2	165,574	1/2	155,205	1/2	129,129	1/2	114,163	1/2	99,186	1/2	84,207
3/4		3/4		3/4	186,030	3/4	175,697	3/4	165,358	3/4	154,989	3/4	128,818	3/4	113,851	3/4	98,873	3/4	83,894
10		10		10	185,815	10	175,482	10	165,142	10	154,773	10	128,506	10	113,539	10	98,561	10	83,582
1/4		1/4		1/4	185,599	1/4	175,267	1/4	164,926	1/4	154,557	1/4	128,194	1/4	113,228	1/4	98,249	1/4	83,270
1/2		1/2		1/2	185,384	1/2	175,052	1/2	164,710	1/2	154,341	1/2	127,882	1/2	112,916	1/2	97,937	1/2	82,957
3/4		3/4		3/4	185,169	3/4	174,836	3/4	164,494	3/4	154,125	3/4	127,570	3/4	112,604	3/4	97,625	3/4	82,645
11		11		11	184,954	11	174,621	11	164,278	11	153,909	11	127,259	11	112,292	11	97,313	11	82,333
1/4		1/4		1/4	184,738	1/4	174,406	1/4	164,062	1/4	153,693	1/4	126,947	1/4	111,980	1/4	97,001	1/4	82,021
1/2		1/2		1/2	184,523	1/2	174,191	1/2	163,846	1/2	153,477	1/2	126,635	1/2	111,669	1/2	96,689	1/2	81,708
3/4		3/4		3/4	184,308	3/4	173,975	3/4	163,630	3/4	153,261	3/4	126,323	3/4	111,357	3/4	96,377	3/4	81,396

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

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 3024"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	81,084	0	66,169	0	51,432	0	36,854	0	21,882	0	6,884	0		0		0		0	
1/4	80,771	1/4	65,859	1/4	51,130	1/4	36,545	1/4	21,570	1/4	6,572	1/4		1/4		1/4		1/4	
1/2	80,459	1/2	65,548	1/2	50,827	1/2	36,237	1/2	21,257	1/2	6,259	1/2		1/2		1/2		1/2	
3/4	80,147	3/4	65,238	3/4	50,525	3/4	35,929	3/4	20,945	3/4	5,946	3/4		3/4		3/4		3/4	
1	79,835	1	64,928	1	50,222	1	35,621	1	20,633	1	5,634	1		1		1		1	
1/4	79,522	1/4	64,617	1/4	49,920	1/4	35,309	1/4	20,320	1/4	5,321	1/4		1/4		1/4		1/4	
1/2	79,210	1/2	64,307	1/2	49,617	1/2	34,997	1/2	20,008	1/2	5,009	1/2		1/2		1/2		1/2	
3/4	78,898	3/4	63,997	3/4	49,315	3/4	34,685	3/4	19,696	3/4	4,696	3/4		3/4		3/4		3/4	
2	78,586	2	63,686	2	49,012	2	34,374	2	19,383	2	4,384	2		2		2		2	
1/4	78,274	1/4	63,375	1/4	48,710	1/4	34,061	1/4	19,071	1/4	4,072	1/4		1/4		1/4		1/4	
1/2	77,963	1/2	63,064	1/2	48,407	1/2	33,749	1/2	18,758	1/2	3,760	1/2		1/2		1/2		1/2	
3/4	77,652	3/4	62,753	3/4	48,105	3/4	33,437	3/4	18,446	3/4	3,448	3/4		3/4		3/4		3/4	
3	77,340	3	62,442	3	47,802	3	33,124	3	18,134	3	3,137	3		3		3		3	
1/4	77,030	1/4	62,130	1/4	47,500	1/4	32,812	1/4	17,821	1/4	2,844	1/4		1/4		1/4		1/4	
1/2	76,720	1/2	61,818	1/2	47,198	1/2	32,500	1/2	17,509	1/2	2,552	1/2		1/2		1/2		1/2	
3/4	76,409	3/4	61,506	3/4	46,896	3/4	32,187	3/4	17,197	3/4	2,259	3/4		3/4		3/4		3/4	
4	76,099	4	61,194	4	46,594	4	31,875	4	16,884	4	1,967	4		4		4		4	
1/4	75,789	1/4	60,882	1/4	46,292	1/4	31,563	1/4	16,572	1/4	1,732	1/4		1/4		1/4		1/4	
1/2	75,478	1/2	60,570	1/2	45,991	1/2	31,250	1/2	16,260	1/2	1,497	1/2		1/2		1/2		1/2	
3/4	75,168	3/4	60,258	3/4	45,689	3/4	30,938	3/4	15,947	3/4	1,263	3/4		3/4		3/4		3/4	
5	74,858	5	59,946	5	45,387	5	30,626	5	15,635	5	1,028	5		5		5		5	
1/4	74,547	1/4	59,637	1/4	45,084	1/4	30,313	1/4	15,323	1/4		1/4		1/4		1/4		1/4	
1/2	74,237	1/2	59,328	1/2	44,781	1/2	30,001	1/2	15,010	1/2		1/2		1/2		1/2		1/2	
3/4	73,927	3/4	59,020	3/4	44,477	3/4	29,689	3/4	14,698	3/4		3/4		3/4		3/4		3/4	
6	73,617	6	58,711	6	44,174	6	29,376	6	14,386	6		6		6		6		6	
1/4	73,306	1/4	58,405	1/4	43,869	1/4	29,064	1/4	14,073	1/4		1/4		1/4		1/4		1/4	
1/2	72,996	1/2	58,099	1/2	43,564	1/2	28,752	1/2	13,761	1/2		1/2		1/2		1/2		1/2	
3/4	72,686	3/4	57,794	3/4	43,259	3/4	28,440	3/4	13,449	3/4		3/4		3/4		3/4		3/4	
7	72,375	7	57,488	7	42,954	7	28,128	7	13,136	7		7		7		7		7	
1/4	72,065	1/4	57,184	1/4	42,649	1/4	27,816	1/4	12,824	1/4		1/4		1/4		1/4		1/4	
1/2	71,755	1/2	56,880	1/2	42,344	1/2	27,503	1/2	12,512	1/2		1/2		1/2		1/2		1/2	
3/4	71,444	3/4	56,576	3/4	42,039	3/4	27,191	3/4	12,199	3/4		3/4		3/4		3/4		3/4	
8	71,134	8	56,272	8	41,734	8	26,879	8	11,887	8		8		8		8		8	
1/4	70,824	1/4	55,969	1/4	41,429	1/4	26,567	1/4	11,574	1/4		1/4		1/4		1/4		1/4	
1/2	70,513	1/2	55,667	1/2	41,124	1/2	26,255	1/2	11,262	1/2		1/2		1/2		1/2		1/2	
3/4	70,203	3/4	55,364	3/4	40,819	3/4	25,942	3/4	10,949	3/4		3/4		3/4		3/4		3/4	
9	69,893	9	55,062	9	40,514	9	25,630	9	10,637	9		9		9		9		9	
1/4	69,582	1/4	54,759	1/4	40,209	1/4	25,318	1/4	10,324	1/4		1/4		1/4		1/4		1/4	
1/2	69,272	1/2	54,457	1/2	39,904	1/2	25,005	1/2	10,011	1/2		1/2		1/2		1/2		1/2	
3/4	68,962	3/4	54,155	3/4	39,599	3/4	24,693	3/4	9,698	3/4		3/4		3/4		3/4		3/4	
10	68,651	10	53,852	10	39,294	10	24,381	10	9,385	10		10		10		10		10	
1/4	68,341	1/4	53,550	1/4	38,989	1/4	24,068	1/4	9,072	1/4		1/4		1/4		1/4		1/4	
1/2	68,031	1/2	53,247	1/2	38,684	1/2	23,756	1/2	8,760	1/2		1/2		1/2		1/2		1/2	
3/4	67,721	3/4	52,945	3/4	38,379	3/4	23,444	3/4	8,447	3/4		3/4		3/4		3/4		3/4	
11	67,410	11	52,642	11	38,074	11	23,131	11	8,134	11		11		11		11		11	
1/4	67,100	1/4	52,340	1/4	37,769	1/4	22,819	1/4	7,822	1/4		1/4		1/4		1/4		1/4	
1/2	66,790	1/2	52,037	1/2	37,464	1/2	22,507	1/2	7,509	1/2		1/2		1/2		1/2		1/2	
3/4	66,479	3/4	51,735	3/4	37,159	3/4	22,194	3/4	7,197	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

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 3024"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	185,133	0	174,800	0	164,453	0	154,083	0	142,003	0	127,003	0	112,003	0	96,988
1/4		1/4		1/4	184,917	1/4	174,584	1/4	164,237	1/4	153,867	1/4	141,690	1/4	126,690	1/4	111,690	1/4	96,675
1/2		1/2		1/2	184,702	1/2	174,369	1/2	164,021	1/2	153,651	1/2	141,378	1/2	126,378	1/2	111,378	1/2	96,362
3/4		3/4		3/4	184,487	3/4	174,154	3/4	163,805	3/4	153,435	3/4	141,065	3/4	126,065	3/4	111,065	3/4	96,049
1		1		1	184,271	1	173,938	1	163,589	1	153,219	1	140,753	1	125,753	1	110,753	1	95,736
1/4		1/4		1/4	184,056	1/4	173,723	1/4	163,373	1/4	153,003	1/4	140,440	1/4	125,440	1/4	110,440	1/4	95,423
1/2		1/2		1/2	183,841	1/2	173,508	1/2	163,157	1/2	152,787	1/2	140,128	1/2	125,128	1/2	110,128	1/2	95,110
3/4		3/4		3/4	183,626	3/4	173,293	3/4	162,941	3/4	152,571	3/4	139,815	3/4	124,815	3/4	109,815	3/4	94,798
2		2	193,051	2	183,410	2	173,077	2	162,725	2	152,355	2	139,503	2	124,503	2	109,503	2	94,485
1/4		1/4	192,928	1/4	183,195	1/4	172,862	1/4	162,509	1/4	152,139	1/4	139,190	1/4	124,190	1/4	109,190	1/4	94,172
1/2		1/2	192,804	1/2	182,980	1/2	172,647	1/2	162,293	1/2	151,923	1/2	138,878	1/2	123,878	1/2	108,878	1/2	93,859
3/4		3/4	192,680	3/4	182,765	3/4	172,432	3/4	162,077	3/4	151,707	3/4	138,565	3/4	123,565	3/4	108,565	3/4	93,546
3		3	192,557	3	182,549	3	172,216	3	161,861	3	151,491	3	138,253	3	123,253	3	108,253	3	93,233
1/4		1/4	192,397	1/4	182,334	1/4	172,001	1/4	161,644	1/4	151,275	1/4	137,940	1/4	122,940	1/4	107,940	1/4	92,920
1/2		1/2	192,237	1/2	182,119	1/2	171,786	1/2	161,428	1/2	151,059	1/2	137,628	1/2	122,628	1/2	107,627	1/2	92,607
3/4		3/4	192,078	3/4	181,903	3/4	171,571	3/4	161,212	3/4	150,843	3/4	137,315	3/4	122,315	3/4	107,314	3/4	92,294
4		4	191,918	4	181,688	4	171,355	4	160,996	4	150,627	4	137,003	4	122,003	4	107,001	4	91,981
1/4		1/4	191,725	1/4	181,473	1/4	171,140	1/4	160,780	1/4	150,407	1/4	136,690	1/4	121,690	1/4	106,688	1/4	91,668
1/2		1/2	191,532	1/2	181,258	1/2	170,925	1/2	160,564	1/2	150,188	1/2	136,378	1/2	121,378	1/2	106,375	1/2	91,356
3/4		3/4	191,339	3/4	181,042	3/4	170,709	3/4	160,348	3/4	149,968	3/4	136,065	3/4	121,065	3/4	106,063	3/4	91,043
5		5	191,146	5	180,827	5	170,494	5	160,132	5	149,749	5	135,753	5	120,753	5	105,750	5	90,730
1/4		1/4	190,934	1/4	180,612	1/4	170,279	1/4	159,916	1/4	149,517	1/4	135,440	1/4	120,440	1/4	105,437	1/4	90,417
1/2		1/2	190,722	1/2	180,397	1/2	170,064	1/2	159,700	1/2	149,286	1/2	135,128	1/2	120,128	1/2	105,124	1/2	90,104
3/4		3/4	190,511	3/4	180,181	3/4	169,848	3/4	159,484	3/4	149,055	3/4	134,815	3/4	119,815	3/4	104,811	3/4	89,791
6		6	190,299	6	179,966	6	169,633	6	159,268	6	148,824	6	134,503	6	119,503	6	104,498	6	89,478
1/4		1/4	190,084	1/4	179,751	1/4	169,418	1/4	159,052	1/4	148,576	1/4	134,190	1/4	119,190	1/4	104,185	1/4	89,165
1/2		1/2	189,869	1/2	179,536	1/2	169,203	1/2	158,836	1/2	148,329	1/2	133,878	1/2	118,878	1/2	103,872	1/2	88,852
3/4		3/4	189,654	3/4	179,320	3/4	168,987	3/4	158,620	3/4	148,082	3/4	133,565	3/4	118,565	3/4	103,559	3/4	88,539
7		7	189,439	7	179,105	7	168,772	7	158,404	7	147,834	7	133,253	7	118,253	7	103,246	7	88,226
1/4		1/4	189,224	1/4	178,890	1/4	168,556	1/4	158,188	1/4	147,571	1/4	132,940	1/4	117,940	1/4	102,933	1/4	87,913
1/2		1/2	189,008	1/2	178,674	1/2	168,341	1/2	157,972	1/2	147,308	1/2	132,628	1/2	117,628	1/2	102,620	1/2	87,601
3/4		3/4	188,793	3/4	178,459	3/4	168,125	3/4	157,756	3/4	147,044	3/4	132,315	3/4	117,315	3/4	102,308	3/4	87,288
8		8	188,578	8	178,244	8	167,909	8	157,540	8	146,781	8	132,003	8	117,003	8	101,995	8	86,975
1/4		1/4	188,362	1/4	178,029	1/4	167,693	1/4	157,324	1/4	146,502	1/4	131,690	1/4	116,690	1/4	101,682	1/4	86,662
1/2		1/2	188,147	1/2	177,813	1/2	167,477	1/2	157,108	1/2	146,223	1/2	131,378	1/2	116,378	1/2	101,369	1/2	86,349
3/4		3/4	187,931	3/4	177,598	3/4	167,261	3/4	156,892	3/4	145,943	3/4	131,065	3/4	116,065	3/4	101,056	3/4	86,036
9		9	187,716	9	177,383	9	167,045	9	156,676	9	145,664	9	130,753	9	115,753	9	100,743	9	85,723
1/4		1/4	187,501	1/4	177,168	1/4	166,829	1/4	156,460	1/4	145,369	1/4	130,440	1/4	115,440	1/4	100,430	1/4	85,410
1/2		1/2	187,285	1/2	176,952	1/2	166,613	1/2	156,244	1/2	145,073	1/2	130,128	1/2	115,128	1/2	100,117	1/2	85,097
3/4		3/4	187,070	3/4	176,737	3/4	166,397	3/4	156,028	3/4	144,778	3/4	129,815	3/4	114,815	3/4	99,804	3/4	84,784
10		10	186,855	10	176,522	10	166,181	10	155,812	10	144,482	10	129,503	10	114,503	10	99,491	10	84,471
1/4		1/4	186,639	1/4	176,306	1/4	165,965	1/4	155,596	1/4	144,175	1/4	129,190	1/4	114,190	1/4	99,178	1/4	84,158
1/2		1/2	186,424	1/2	176,091	1/2	165,749	1/2	155,380	1/2	143,867	1/2	128,878	1/2	113,878	1/2	98,865	1/2	83,846
3/4		3/4	186,209	3/4	175,876	3/4	165,533	3/4	155,164	3/4	143,559	3/4	128,565	3/4	113,565	3/4	98,553	3/4	83,533
11		11	185,994	11	175,661	11	165,317	11	154,948	11	143,251	11	128,253	11	113,253	11	98,240	11	83,220
1/4		1/4	185,778	1/4	175,445	1/4	165,101	1/4	154,731	1/4	142,939	1/4	127,940	1/4	112,940	1/4	97,927	1/4	82,907
1/2		1/2	185,563	1/2	175,230	1/2	164,885	1/2	154,515	1/2	142,627	1/2	127,628	1/2	112,628	1/2	97,614	1/2	82,594
3/4		3/4	185,348	3/4	175,015	3/4	164,669	3/4	154,299	3/4	142,315	3/4	127,315	3/4	112,315	3/4	97,301	3/4	82,281

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

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 3024"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	81,968	0	66,948	0	51,928	0	36,923	0	21,907	0	6,887	0		0		0		0	
1/4	81,655	1/4	66,635	1/4	51,615	1/4	36,611	1/4	21,594	1/4	6,574	1/4		1/4		1/4		1/4	
1/2	81,342	1/2	66,322	1/2	51,302	1/2	36,298	1/2	21,281	1/2	6,261	1/2		1/2		1/2		1/2	
3/4	81,029	3/4	66,009	3/4	50,989	3/4	35,986	3/4	20,968	3/4	5,949	3/4		3/4		3/4		3/4	
1	80,716	1	65,696	1	50,677	1	35,674	1	20,655	1	5,636	1		1		1		1	
1/4	80,403	1/4	65,384	1/4	50,364	1/4	35,361	1/4	20,342	1/4	5,323	1/4		1/4		1/4		1/4	
1/2	80,091	1/2	65,071	1/2	50,051	1/2	35,048	1/2	20,029	1/2	5,010	1/2		1/2		1/2		1/2	
3/4	79,778	3/4	64,758	3/4	49,738	3/4	34,736	3/4	19,716	3/4	4,698	3/4		3/4		3/4		3/4	
2	79,465	2	64,445	2	49,425	2	34,423	2	19,403	2	4,385	2		2		2		2	
1/4	79,152	1/4	64,132	1/4	49,112	1/4	34,110	1/4	19,091	1/4	4,073	1/4		1/4		1/4		1/4	
1/2	78,839	1/2	63,819	1/2	48,799	1/2	33,797	1/2	18,778	1/2	3,761	1/2		1/2		1/2		1/2	
3/4	78,526	3/4	63,506	3/4	48,486	3/4	33,484	3/4	18,465	3/4	3,449	3/4		3/4		3/4		3/4	
3	78,213	3	63,193	3	48,173	3	33,171	3	18,152	3	3,137	3		3		3		3	
1/4	77,900	1/4	62,880	1/4	47,860	1/4	32,858	1/4	17,839	1/4	2,845	1/4		1/4		1/4		1/4	
1/2	77,587	1/2	62,567	1/2	47,548	1/2	32,546	1/2	17,526	1/2	2,552	1/2		1/2		1/2		1/2	
3/4	77,274	3/4	62,254	3/4	47,235	3/4	32,233	3/4	17,213	3/4	2,260	3/4		3/4		3/4		3/4	
4	76,961	4	61,941	4	46,922	4	31,920	4	16,900	4	1,967	4		4		4		4	
1/4	76,648	1/4	61,629	1/4	46,609	1/4	31,607	1/4	16,587	1/4	1,732	1/4		1/4		1/4		1/4	
1/2	76,336	1/2	61,316	1/2	46,297	1/2	31,294	1/2	16,274	1/2	1,498	1/2		1/2		1/2		1/2	
3/4	76,023	3/4	61,003	3/4	45,984	3/4	30,981	3/4	15,961	3/4	1,263	3/4		3/4		3/4		3/4	
5	75,710	5	60,690	5	45,671	5	30,668	5	15,649	5	1,029	5		5		5		5	
1/4	75,397	1/4	60,377	1/4	45,359	1/4	30,355	1/4	15,336	1/4		1/4		1/4		1/4		1/4	
1/2	75,084	1/2	60,064	1/2	45,046	1/2	30,042	1/2	15,023	1/2		1/2		1/2		1/2		1/2	
3/4	74,771	3/4	59,751	3/4	44,734	3/4	29,729	3/4	14,710	3/4		3/4		3/4		3/4		3/4	
6	74,458	6	59,438	6	44,421	6	29,416	6	14,397	6		6		6		6		6	
1/4	74,145	1/4	59,125	1/4	44,109	1/4	29,104	1/4	14,084	1/4		1/4		1/4		1/4		1/4	
1/2	73,832	1/2	58,812	1/2	43,796	1/2	28,791	1/2	13,771	1/2		1/2		1/2		1/2		1/2	
3/4	73,519	3/4	58,499	3/4	43,484	3/4	28,478	3/4	13,458	3/4		3/4		3/4		3/4		3/4	
7	73,206	7	58,186	7	43,172	7	28,165	7	13,145	7		7		7		7		7	
1/4	72,894	1/4	57,874	1/4	42,859	1/4	27,852	1/4	12,832	1/4		1/4		1/4		1/4		1/4	
1/2	72,581	1/2	57,561	1/2	42,547	1/2	27,539	1/2	12,520	1/2		1/2		1/2		1/2		1/2	
3/4	72,268	3/4	57,248	3/4	42,234	3/4	27,226	3/4	12,207	3/4		3/4		3/4		3/4		3/4	
8	71,955	8	56,935	8	41,922	8	26,913	8	11,894	8		8		8		8		8	
1/4	71,642	1/4	56,622	1/4	41,610	1/4	26,600	1/4	11,581	1/4		1/4		1/4		1/4		1/4	
1/2	71,329	1/2	56,309	1/2	41,297	1/2	26,287	1/2	11,268	1/2		1/2		1/2		1/2		1/2	
3/4	71,016	3/4	55,996	3/4	40,985	3/4	25,974	3/4	10,955	3/4		3/4		3/4		3/4		3/4	
9	70,703	9	55,683	9	40,672	9	25,662	9	10,642	9		9		9		9		9	
1/4	70,390	1/4	55,370	1/4	40,360	1/4	25,349	1/4	10,329	1/4		1/4		1/4		1/4		1/4	
1/2	70,077	1/2	55,057	1/2	40,047	1/2	25,036	1/2	10,016	1/2		1/2		1/2		1/2		1/2	
3/4	69,764	3/4	54,744	3/4	39,735	3/4	24,723	3/4	9,703	3/4		3/4		3/4		3/4		3/4	
10	69,451	10	54,432	10	39,423	10	24,410	10	9,390	10		10		10		10		10	
1/4	69,139	1/4	54,119	1/4	39,110	1/4	24,097	1/4	9,078	1/4		1/4		1/4		1/4		1/4	
1/2	68,826	1/2	53,806	1/2	38,798	1/2	23,784	1/2	8,765	1/2		1/2		1/2		1/2		1/2	
3/4	68,513	3/4	53,493	3/4	38,485	3/4	23,471	3/4	8,452	3/4		3/4		3/4		3/4		3/4	
11	68,200	11	53,180	11	38,173	11	23,158	11	8,139	11		11		11		11		11	
1/4	67,887	1/4	52,867	1/4	37,861	1/4	22,845	1/4	7,826	1/4		1/4		1/4		1/4		1/4	
1/2	67,574	1/2	52,554	1/2	37,548	1/2	22,533	1/2	7,513	1/2		1/2		1/2		1/2		1/2	
3/4	67,261	3/4	52,241	3/4	37,236	3/4	22,220	3/4	7,200	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HSM 3024"

## PORT SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	4,306	0	3,151	0	1,997	0	842	0		0		0		0	
1/4		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	
1/2		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	
3/4		3/4		3/4	4,234	3/4	3,079	3/4	1,925	3/4	770	3/4		3/4		3/4		3/4	
1		1		1	4,210	1	3,054	1	1,901	1	746	1		1		1		1	
1/4		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	
1/2		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	
3/4		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	
2		2		2	4,113	2	2,958	2	1,805	2	650	2		2		2		2	
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	578	3/4		3/4		3/4		3/4	
3		3	5,128	3	4,017	3	2,862	3	1,708	3	553	3		3		3		3	
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	
4		4	5,070	4	3,921	4	2,766	4	1,612	4	457	4		4		4		4	
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	2,694	3/4	1,540	3/4	385	3/4		3/4		3/4		3/4	
5		5	4,975	5	3,825	5	2,670	5	1,516	5	361	5		5		5		5	
1/4		1/4	4,952	1/4	3,800	1/4	2,646	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	2,622	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	
6		6	4,881	6	3,728	6	2,574	6	1,419	6	265	6		6		6		6	
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	193	3/4		3/4		3/4		3/4	
7		7	4,786	7	3,632	7	2,478	7	1,323	7	168	7		7		7		7	
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	
8		8	4,691	8	3,536	8	2,382	8	1,227	8		8		8		8		8	
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	
9		9	4,595	9	3,440	9	2,286	9	1,131	9		9		9		9		9	
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	
10		10	4,498	10	3,343	10	2,190	10	1,035	10		10		10		10		10	
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	963	3/4		3/4		3/4		3/4		3/4	
11		11	4,402	11	3,247	11	2,093	11	938	11		11		11		11		11	
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	

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 AT GAUGE POINT

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HSM 3024"

## STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 5'-07"

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	4,234	0	3,079	0	1,925	0	770	0		0		0		0	
1/4		1/4		1/4	4,210	1/4	3,054	1/4	1,901	1/4	746	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,185	1/2	3,030	1/2	1,877	1/2	722	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,161	3/4	3,006	3/4	1,853	3/4	698	3/4		3/4		3/4		3/4	
1		1		1	4,137	1	2,982	1	1,829	1	674	1		1		1		1	
1/4		1/4		1/4	4,113	1/4	2,958	1/4	1,805	1/4	650	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,089	1/2	2,934	1/2	1,780	1/2	626	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,065	3/4	2,910	3/4	1,756	3/4	602	3/4		3/4		3/4		3/4	
2		2		2	5,140	2	4,041	2	2,886	2	1,732	2		2		2		2	
1/4		1/4		1/4	5,128	1/4	4,017	1/4	2,862	1/4	1,708	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,117	1/2	3,993	1/2	2,838	1/2	1,684	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,105	3/4	3,969	3/4	2,814	3/4	1,660	3/4		3/4		3/4		3/4	
3		3		3	5,093	3	3,945	3	2,790	3	1,636	3		3		3		3	
1/4		1/4		1/4	5,070	1/4	3,921	1/4	2,766	1/4	1,612	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,046	1/2	3,897	1/2	2,742	1/2	1,588	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,023	3/4	3,873	3/4	2,718	3/4	1,564	3/4		3/4		3/4		3/4	
4		4		4	4,999	4	3,849	4	2,694	4	1,540	4		4		4		4	
1/4		1/4		1/4	4,975	1/4	3,825	1/4	2,670	1/4	1,516	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,952	1/2	3,800	1/2	2,646	1/2	1,492	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,928	3/4	3,776	3/4	2,622	3/4	1,468	3/4		3/4		3/4		3/4	
5		5		5	4,904	5	3,752	5	2,597	5	1,444	5		5		5		5	
1/4		1/4		1/4	4,881	1/4	3,728	1/4	2,574	1/4	1,419	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,857	1/2	3,704	1/2	2,550	1/2	1,395	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,833	3/4	3,680	3/4	2,526	3/4	1,371	3/4		3/4		3/4		3/4	
6		6		6	4,810	6	3,656	6	2,502	6	1,347	6		6		6		6	
1/4		1/4		1/4	4,786	1/4	3,632	1/4	2,478	1/4	1,323	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,762	1/2	3,608	1/2	2,454	1/2	1,299	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,739	3/4	3,584	3/4	2,430	3/4	1,275	3/4		3/4		3/4		3/4	
7		7		7	4,715	7	3,560	7	2,406	7	1,251	7		7		7		7	
1/4		1/4		1/4	4,691	1/4	3,536	1/4	2,382	1/4	1,227	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,667	1/2	3,512	1/2	2,358	1/2	1,203	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,643	3/4	3,488	3/4	2,334	3/4	1,179	3/4		3/4		3/4		3/4	
8		8		8	4,619	8	3,464	8	2,310	8	1,155	8		8		8		8	
1/4		1/4		1/4	4,595	1/4	3,440	1/4	2,286	1/4	1,131	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,570	1/2	3,415	1/2	2,262	1/2	1,107	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,546	3/4	3,391	3/4	2,238	3/4	1,083	3/4		3/4		3/4		3/4	
9		9		9	4,522	9	3,367	9	2,214	9	1,059	9		9		9		9	
1/4		1/4		1/4	4,498	1/4	3,343	1/4	2,190	1/4	1,035	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,474	1/2	3,319	1/2	2,165	1/2	1,011	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,450	3/4	3,295	3/4	2,141	3/4	987	3/4		3/4		3/4		3/4	
10		10		10	4,426	10	3,271	10	2,117	10	963	10		10		10		10	
1/4		1/4		1/4	4,402	1/4	3,247	1/4	2,093	1/4	938	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,378	1/2	3,223	1/2	2,069	1/2	914	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,354	3/4	3,199	3/4	2,045	3/4	890	3/4		3/4		3/4		3/4	
11		11		11	4,330	11	3,175	11	2,021	11	866	11		11		11		11	
1/4		1/4		1/4	4,306	1/4	3,151	1/4	1,997	1/4	842	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,282	1/2	3,127	1/2	1,973	1/2	818	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,258	3/4	3,103	3/4	1,949	3/4	794	3/4		3/4		3/4		3/4	

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 AT GAUGE POINT

STRAPPED: 10/21/2019 CL  
CALCULATED: 10/21/2019 CL  
PRINTED: 10/21/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2019

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