



# BARGE "HSM 3024"

## INNAGE 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 INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

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"

## INNAGE 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 INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 21, 2019

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# BARGE "HSM 3024"

# 1 PORT INNAGE 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	386	0	13,267	0	28,212	0	43,252	0	58,231	0	73,230	0	88,271	0	103,312	0	118,349	0	133,383
1/4	563	1/4	13,569	1/4	28,525	1/4	43,566	1/4	58,542	1/4	73,543	1/4	88,584	1/4	103,625	1/4	118,662	1/4	133,696
1/2	740	1/2	13,871	1/2	28,838	1/2	43,879	1/2	58,853	1/2	73,856	1/2	88,898	1/2	103,939	1/2	118,975	1/2	134,010
3/4	917	3/4	14,173	3/4	29,152	3/4	44,192	3/4	59,164	3/4	74,170	3/4	89,211	3/4	104,252	3/4	119,288	3/4	134,323
1	1,094	1	14,475	1	29,465	1	44,506	1	59,475	1	74,483	1	89,524	1	104,565	1	119,601	1	134,636
1/4	1,333	1/4	14,780	1/4	29,778	1/4	44,819	1/4	59,786	1/4	74,797	1/4	89,838	1/4	104,879	1/4	119,915	1/4	134,949
1/2	1,572	1/2	15,086	1/2	30,092	1/2	45,132	1/2	60,097	1/2	75,110	1/2	90,151	1/2	105,192	1/2	120,228	1/2	135,263
3/4	1,811	3/4	15,391	3/4	30,405	3/4	45,446	3/4	60,408	3/4	75,423	3/4	90,464	3/4	105,506	3/4	120,541	3/4	135,576
2	2,050	2	15,697	2	30,718	2	45,759	2	60,719	2	75,737	2	90,778	2	105,819	2	120,854	2	135,889
1/4	2,312	1/4	16,007	1/4	31,032	1/4	46,073	1/4	61,030	1/4	76,050	1/4	91,091	1/4	106,132	1/4	121,168	1/4	136,202
1/2	2,575	1/2	16,316	1/2	31,345	1/2	46,386	1/2	61,341	1/2	76,363	1/2	91,404	1/2	106,446	1/2	121,481	1/2	136,515
3/4	2,837	3/4	16,626	3/4	31,659	3/4	46,699	3/4	61,652	3/4	76,677	3/4	91,718	3/4	106,759	3/4	121,794	3/4	136,829
3	3,099	3	16,935	3	31,972	3	47,013	3	61,963	3	76,990	3	92,031	3	107,072	3	122,107	3	137,142
1/4	3,366	1/4	17,247	1/4	32,285	1/4	47,326	1/4	62,275	1/4	77,303	1/4	92,345	1/4	107,386	1/4	122,420	1/4	137,455
1/2	3,633	1/2	17,560	1/2	32,599	1/2	47,639	1/2	62,586	1/2	77,617	1/2	92,658	1/2	107,699	1/2	122,734	1/2	137,768
3/4	3,899	3/4	17,872	3/4	32,912	3/4	47,953	3/4	62,897	3/4	77,930	3/4	92,971	3/4	108,012	3/4	123,047	3/4	138,082
4	4,166	4	18,185	4	33,225	4	48,266	4	63,208	4	78,243	4	93,285	4	108,325	4	123,360	4	138,395
1/4	4,437	1/4	18,498	1/4	33,539	1/4	48,579	1/4	63,520	1/4	78,557	1/4	93,598	1/4	108,639	1/4	123,673	1/4	138,708
1/2	4,708	1/2	18,811	1/2	33,852	1/2	48,891	1/2	63,832	1/2	78,870	1/2	93,911	1/2	108,952	1/2	123,987	1/2	139,021
3/4	4,979	3/4	19,125	3/4	34,165	3/4	49,204	3/4	64,144	3/4	79,144	3/4	94,225	3/4	109,265	3/4	124,300	3/4	139,334
5	5,250	5	19,438	5	34,479	5	49,516	5	64,456	5	79,497	5	94,538	5	109,578	5	124,613	5	139,648
1/4	5,525	1/4	19,751	1/4	34,792	1/4	49,828	1/4	64,770	1/4	79,810	1/4	94,851	1/4	109,892	1/4	124,926	1/4	139,961
1/2	5,799	1/2	20,065	1/2	35,105	1/2	50,140	1/2	65,083	1/2	80,124	1/2	95,165	1/2	110,205	1/2	125,239	1/2	140,274
3/4	6,074	3/4	20,378	3/4	35,419	3/4	50,452	3/4	65,396	3/4	80,437	3/4	95,478	3/4	110,518	3/4	125,553	3/4	140,587
6	6,349	6	20,691	6	35,732	6	50,764	6	65,709	6	80,750	6	95,791	6	110,831	6	125,866	6	140,901
1/4	6,627	1/4	21,005	1/4	36,045	1/4	51,076	1/4	66,023	1/4	81,064	1/4	96,105	1/4	111,144	1/4	126,179	1/4	141,214
1/2	6,906	1/2	21,318	1/2	36,359	1/2	51,387	1/2	66,336	1/2	81,377	1/2	96,418	1/2	111,458	1/2	126,492	1/2	141,527
3/4	7,185	3/4	21,631	3/4	36,672	3/4	51,699	3/4	66,649	3/4	81,690	3/4	96,732	3/4	111,771	3/4	126,806	3/4	141,840
7	7,463	7	21,945	7	36,985	7	52,011	7	66,963	7	82,004	7	97,045	7	112,084	7	127,119	7	142,153
1/4	7,746	1/4	22,258	1/4	37,299	1/4	52,322	1/4	67,276	1/4	82,317	1/4	97,358	1/4	112,397	1/4	127,432	1/4	142,467
1/2	8,028	1/2	22,571	1/2	37,612	1/2	52,633	1/2	67,589	1/2	82,630	1/2	97,672	1/2	112,711	1/2	127,745	1/2	142,780
3/4	8,311	3/4	22,885	3/4	37,925	3/4	52,944	3/4	67,903	3/4	82,944	3/4	97,985	3/4	113,024	3/4	128,058	3/4	143,093
8	8,593	8	23,198	8	38,239	8	53,256	8	68,216	8	83,257	8	98,298	8	113,337	8	128,372	8	143,406
1/4	8,880	1/4	23,511	1/4	38,552	1/4	53,567	1/4	68,529	1/4	83,571	1/4	98,612	1/4	113,650	1/4	128,685	1/4	143,720
1/2	9,166	1/2	23,825	1/2	38,866	1/2	53,878	1/2	68,843	1/2	83,884	1/2	98,925	1/2	113,963	1/2	128,998	1/2	144,033
3/4	9,452	3/4	24,138	3/4	39,179	3/4	54,189	3/4	69,156	3/4	84,197	3/4	99,238	3/4	114,277	3/4	129,311	3/4	144,346
9	9,739	9	24,452	9	39,492	9	54,500	9	69,469	9	84,511	9	99,552	9	114,590	9	129,625	9	144,659
1/4	10,029	1/4	24,765	1/4	39,806	1/4	54,811	1/4	69,783	1/4	84,824	1/4	99,865	1/4	114,903	1/4	129,938	1/4	144,972
1/2	10,319	1/2	25,078	1/2	40,119	1/2	55,122	1/2	70,096	1/2	85,137	1/2	100,178	1/2	115,216	1/2	130,251	1/2	145,286
3/4	10,609	3/4	25,392	3/4	40,432	3/4	55,433	3/4	70,410	3/4	85,451	3/4	100,492	3/4	115,530	3/4	130,564	3/4	145,599
10	10,900	10	25,705	10	40,746	10	55,744	10	70,723	10	85,764	10	100,805	10	115,843	10	130,877	10	145,912
1/4	11,194	1/4	26,018	1/4	41,059	1/4	56,054	1/4	71,036	1/4	86,077	1/4	101,119	1/4	116,156	1/4	131,191	1/4	146,225
1/2	11,488	1/2	26,332	1/2	41,372	1/2	56,365	1/2	71,350	1/2	86,391	1/2	101,432	1/2	116,469	1/2	131,504	1/2	146,539
3/4	11,782	3/4	26,645	3/4	41,686	3/4	56,676	3/4	71,663	3/4	86,704	3/4	101,745	3/4	116,782	3/4	131,817	3/4	146,852
11	12,076	11	26,958	11	41,999	11	56,987	11	71,976	11	87,017	11	102,059	11	117,096	11	132,130	11	147,165
1/4	12,374	1/4	27,272	1/4	42,312	1/4	57,298	1/4	72,290	1/4	87,331	1/4	102,372	1/4	117,409	1/4	132,444	1/4	147,478
1/2	12,672	1/2	27,585	1/2	42,626	1/2	57,609	1/2	72,603	1/2	87,644	1/2	102,685	1/2	117,722	1/2	132,757	1/2	147,791
3/4	12,970	3/4	27,898	3/4	42,939	3/4	57,920	3/4	72,916	3/4	87,958	3/4	102,999	3/4	118,035	3/4	133,070	3/4	148,105

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 INNAGE 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.

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# BARGE "HSM 3024"

## 1 PORT INNAGE 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	148,418	0	163,452	0	178,478	0	193,469	0	208,387	0		0		0		0		0	
1/4	148,731	1/4	163,766	1/4	178,790	1/4	193,781	1/4	208,667	1/4		1/4		1/4		1/4		1/4	
1/2	149,044	1/2	164,079	1/2	179,103	1/2	194,093	1/2	208,948	1/2		1/2		1/2		1/2		1/2	
3/4	149,357	3/4	164,392	3/4	179,415	3/4	194,406	3/4	209,228	3/4		3/4		3/4		3/4		3/4	
1	149,671	1	164,705	1	179,727	1	194,718	1	209,509	1		1		1		1		1	
1/4	149,984	1/4	165,019	1/4	180,039	1/4	195,030	1/4	209,741	1/4		1/4		1/4		1/4		1/4	
1/2	150,297	1/2	165,332	1/2	180,352	1/2	195,343	1/2	209,973	1/2		1/2		1/2		1/2		1/2	
3/4	150,610	3/4	165,645	3/4	180,664	3/4	195,655	3/4	210,205	3/4		3/4		3/4		3/4		3/4	
2	150,924	2	165,958	2	180,976	2	195,967	2	210,437	2		2		2		2		2	
1/4	151,237	1/4	166,271	1/4	181,289	1/4	196,280	1/4	210,616	1/4		1/4		1/4		1/4		1/4	
1/2	151,550	1/2	166,585	1/2	181,601	1/2	196,592	1/2	210,796	1/2		1/2		1/2		1/2		1/2	
3/4	151,863	3/4	166,898	3/4	181,913	3/4	196,904	3/4	210,976	3/4		3/4		3/4		3/4		3/4	
3	152,176	3	167,211	3	182,226	3	197,216	3	211,155	3		3		3		3		3	
1/4	152,490	1/4	167,524	1/4	182,538	1/4	197,529	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,803	1/2	167,838	1/2	182,850	1/2	197,841	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,116	3/4	168,151	3/4	183,163	3/4	198,153	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,429	4	168,464	4	183,475	4	198,466	4		4		4		4		4		4	
1/4	153,743	1/4	168,777	1/4	183,787	1/4	198,778	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,056	1/2	169,090	1/2	184,099	1/2	199,090	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,369	3/4	169,404	3/4	184,412	3/4	199,403	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,682	5	169,717	5	184,724	5	199,715	5		5		5		5		5		5	
1/4	154,995	1/4	170,030	1/4	185,036	1/4	200,026	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,309	1/2	170,343	1/2	185,349	1/2	200,337	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,622	3/4	170,657	3/4	185,661	3/4	200,649	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,935	6	170,970	6	185,973	6	200,960	6		6		6		6		6		6	
1/4	156,248	1/4	171,283	1/4	186,286	1/4	201,270	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,562	1/2	171,596	1/2	186,598	1/2	201,580	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,875	3/4	171,909	3/4	186,910	3/4	201,890	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,188	7	172,223	7	187,223	7	202,200	7		7		7		7		7		7	
1/4	157,501	1/4	172,536	1/4	187,535	1/4	202,511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,814	1/2	172,849	1/2	187,847	1/2	202,821	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,128	3/4	173,162	3/4	188,159	3/4	203,131	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,441	8	173,476	8	188,472	8	203,441	8		8		8		8		8		8	
1/4	158,754	1/4	173,789	1/4	188,784	1/4	203,752	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,067	1/2	174,102	1/2	189,096	1/2	204,062	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,381	3/4	174,415	3/4	189,409	3/4	204,372	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,694	9	174,728	9	189,721	9	204,683	9		9		9		9		9		9	
1/4	160,007	1/4	175,041	1/4	190,033	1/4	204,993	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,320	1/2	175,354	1/2	190,346	1/2	205,303	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,633	3/4	175,667	3/4	190,658	3/4	205,613	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,947	10	175,979	10	190,970	10	205,923	10		10		10		10		10		10	
1/4	161,260	1/4	176,292	1/4	191,283	1/4	206,233	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,573	1/2	176,604	1/2	191,595	1/2	206,543	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,886	3/4	176,916	3/4	191,907	3/4	206,853	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,200	11	177,229	11	192,220	11	207,163	11		11		11		11		11		11	
1/4	162,513	1/4	177,541	1/4	192,532	1/4	207,469	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,826	1/2	177,853	1/2	192,844	1/2	207,775	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,139	3/4	178,166	3/4	193,156	3/4	208,081	3/4		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 INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,254	0	28,184	0	43,210	0	58,231	0	73,254	0	88,281	0	103,307	0	118,329	0	133,348
1/4	562	1/4	13,556	1/4	28,497	1/4	43,523	1/4	58,544	1/4	73,567	1/4	88,594	1/4	103,620	1/4	118,641	1/4	133,661
1/2	739	1/2	13,857	1/2	28,810	1/2	43,836	1/2	58,857	1/2	73,881	1/2	88,907	1/2	103,933	1/2	118,954	1/2	133,974
3/4	916	3/4	14,159	3/4	29,123	3/4	44,149	3/4	59,169	3/4	74,194	3/4	89,220	3/4	104,246	3/4	119,267	3/4	134,287
1	1,093	1	14,460	1	29,436	1	44,462	1	59,482	1	74,507	1	89,533	1	104,559	1	119,580	1	134,600
1/4	1,332	1/4	14,766	1/4	29,749	1/4	44,775	1/4	59,795	1/4	74,820	1/4	89,846	1/4	104,872	1/4	119,893	1/4	134,913
1/2	1,571	1/2	15,071	1/2	30,062	1/2	45,088	1/2	60,108	1/2	75,133	1/2	90,159	1/2	105,185	1/2	120,206	1/2	135,226
3/4	1,809	3/4	15,376	3/4	30,375	3/4	45,401	3/4	60,421	3/4	75,446	3/4	90,472	3/4	105,498	3/4	120,519	3/4	135,539
2	2,048	2	15,682	2	30,688	2	45,714	2	60,734	2	75,759	2	90,785	2	105,811	2	120,832	2	135,852
1/4	2,310	1/4	15,991	1/4	31,001	1/4	46,027	1/4	61,046	1/4	76,072	1/4	91,098	1/4	106,124	1/4	121,145	1/4	136,164
1/2	2,572	1/2	16,300	1/2	31,314	1/2	46,340	1/2	61,359	1/2	76,385	1/2	91,411	1/2	106,437	1/2	121,458	1/2	136,477
3/4	2,834	3/4	16,609	3/4	31,627	3/4	46,653	3/4	61,672	3/4	76,698	3/4	91,724	3/4	106,750	3/4	121,771	3/4	136,790
3	3,096	3	16,918	3	31,940	3	46,966	3	61,985	3	77,011	3	92,037	3	107,063	3	122,083	3	137,103
1/4	3,363	1/4	17,230	1/4	32,253	1/4	47,279	1/4	62,298	1/4	77,324	1/4	92,350	1/4	107,376	1/4	122,396	1/4	137,416
1/2	3,629	1/2	17,543	1/2	32,566	1/2	47,592	1/2	62,611	1/2	77,637	1/2	92,663	1/2	107,689	1/2	122,709	1/2	137,729
3/4	3,896	3/4	17,855	3/4	32,879	3/4	47,905	3/4	62,924	3/4	77,950	3/4	92,976	3/4	108,002	3/4	123,022	3/4	138,042
4	4,162	4	18,167	4	33,192	4	48,218	4	63,237	4	78,263	4	93,289	4	108,315	4	123,335	4	138,355
1/4	4,433	1/4	18,480	1/4	33,505	1/4	48,531	1/4	63,550	1/4	78,576	1/4	93,602	1/4	108,628	1/4	123,648	1/4	138,668
1/2	4,703	1/2	18,793	1/2	33,819	1/2	48,844	1/2	63,863	1/2	78,889	1/2	93,916	1/2	108,941	1/2	123,961	1/2	138,981
3/4	4,974	3/4	19,106	3/4	34,132	3/4	49,157	3/4	64,176	3/4	79,202	3/4	94,229	3/4	109,254	3/4	124,274	3/4	139,294
5	5,245	5	19,419	5	34,445	5	49,470	5	64,489	5	79,515	5	94,542	5	109,567	5	124,587	5	139,607
1/4	5,519	1/4	19,732	1/4	34,758	1/4	49,783	1/4	64,802	1/4	79,828	1/4	94,855	1/4	109,880	1/4	124,900	1/4	139,919
1/2	5,794	1/2	20,045	1/2	35,071	1/2	50,096	1/2	65,115	1/2	80,141	1/2	95,168	1/2	110,193	1/2	125,213	1/2	140,232
3/4	6,068	3/4	20,358	3/4	35,384	3/4	50,409	3/4	65,428	3/4	80,455	3/4	95,481	3/4	110,506	3/4	125,525	3/4	140,545
6	6,343	6	20,671	6	35,697	6	50,722	6	65,741	6	80,768	6	95,794	6	110,819	6	125,838	6	140,858
1/4	6,621	1/4	20,984	1/4	36,010	1/4	51,035	1/4	66,054	1/4	81,081	1/4	96,107	1/4	111,132	1/4	126,151	1/4	141,171
1/2	6,899	1/2	21,297	1/2	36,323	1/2	51,348	1/2	66,367	1/2	81,394	1/2	96,420	1/2	111,444	1/2	126,464	1/2	141,484
3/4	7,178	3/4	21,610	3/4	36,636	3/4	51,661	3/4	66,680	3/4	81,707	3/4	96,733	3/4	111,757	3/4	126,777	3/4	141,797
7	7,456	7	21,923	7	36,949	7	51,974	7	66,994	7	82,020	7	97,046	7	112,070	7	127,090	7	142,110
1/4	7,738	1/4	22,236	1/4	37,262	1/4	52,287	1/4	67,307	1/4	82,333	1/4	97,359	1/4	112,383	1/4	127,403	1/4	142,423
1/2	8,021	1/2	22,549	1/2	37,575	1/2	52,600	1/2	67,620	1/2	82,646	1/2	97,672	1/2	112,696	1/2	127,716	1/2	142,736
3/4	8,303	3/4	22,862	3/4	37,888	3/4	52,913	3/4	67,933	3/4	82,959	3/4	97,985	3/4	113,009	3/4	128,029	3/4	143,049
8	8,585	8	23,175	8	38,201	8	53,226	8	68,246	8	83,272	8	98,298	8	113,322	8	128,342	8	143,362
1/4	8,871	1/4	23,488	1/4	38,514	1/4	53,539	1/4	68,559	1/4	83,585	1/4	98,611	1/4	113,635	1/4	128,655	1/4	143,674
1/2	9,157	1/2	23,801	1/2	38,827	1/2	53,852	1/2	68,872	1/2	83,898	1/2	98,924	1/2	113,948	1/2	128,968	1/2	143,987
3/4	9,443	3/4	24,114	3/4	39,140	3/4	54,164	3/4	69,185	3/4	84,211	3/4	99,237	3/4	114,261	3/4	129,280	3/4	144,300
9	9,729	9	24,427	9	39,453	9	54,477	9	69,498	9	84,524	9	99,550	9	114,574	9	129,593	9	144,613
1/4	10,019	1/4	24,740	1/4	39,766	1/4	54,790	1/4	69,811	1/4	84,837	1/4	99,863	1/4	114,887	1/4	129,906	1/4	144,926
1/2	10,309	1/2	25,053	1/2	40,079	1/2	55,103	1/2	70,124	1/2	85,150	1/2	100,176	1/2	115,199	1/2	130,219	1/2	145,239
3/4	10,599	3/4	25,367	3/4	40,392	3/4	55,416	3/4	70,437	3/4	85,463	3/4	100,489	3/4	115,512	3/4	130,532	3/4	145,552
10	10,889	10	25,680	10	40,705	10	55,728	10	70,750	10	85,776	10	100,803	10	115,825	10	130,845	10	145,865
1/4	11,183	1/4	25,993	1/4	41,018	1/4	56,041	1/4	71,063	1/4	86,089	1/4	101,116	1/4	116,138	1/4	131,158	1/4	146,178
1/2	11,476	1/2	26,306	1/2	41,331	1/2	56,354	1/2	71,376	1/2	86,402	1/2	101,429	1/2	116,451	1/2	131,471	1/2	146,491
3/4	11,770	3/4	26,619	3/4	41,644	3/4	56,667	3/4	71,689	3/4	86,715	3/4	101,742	3/4	116,764	3/4	131,784	3/4	146,804
11	12,064	11	26,932	11	41,957	11	56,980	11	72,002	11	87,028	11	102,055	11	117,077	11	132,097	11	147,117
1/4	12,362	1/4	27,245	1/4	42,271	1/4	57,293	1/4	72,315	1/4	87,342	1/4	102,368	1/4	117,390	1/4	132,410	1/4	147,429
1/2	12,659	1/2	27,558	1/2	42,584	1/2	57,605	1/2	72,628	1/2	87,655	1/2	102,681	1/2	117,703	1/2	132,722	1/2	147,742
3/4	12,957	3/4	27,871	3/4	42,897	3/4	57,918	3/4	72,941	3/4	87,968	3/4	102,994	3/4	118,016	3/4	133,035	3/4	148,055

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 INNAGE 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 INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	148,368	0	163,388	0	178,399	0	193,375	0	208,279	0		0		0		0		0	
1/4	148,681	1/4	163,701	1/4	178,711	1/4	193,687	1/4	208,559	1/4		1/4		1/4		1/4		1/4	
1/2	148,994	1/2	164,014	1/2	179,023	1/2	193,999	1/2	208,839	1/2		1/2		1/2		1/2		1/2	
3/4	149,307	3/4	164,327	3/4	179,335	3/4	194,311	3/4	209,119	3/4		3/4		3/4		3/4		3/4	
1	149,620	1	164,640	1	179,647	1	194,623	1	209,400	1		1		1		1		1	
1/4	149,933	1/4	164,953	1/4	179,959	1/4	194,935	1/4	209,631	1/4		1/4		1/4		1/4		1/4	
1/2	150,246	1/2	165,266	1/2	180,271	1/2	195,247	1/2	209,863	1/2		1/2		1/2		1/2		1/2	
3/4	150,559	3/4	165,579	3/4	180,583	3/4	195,559	3/4	210,095	3/4		3/4		3/4		3/4		3/4	
2	150,872	2	165,892	2	180,895	2	195,871	2	210,326	2		2		2		2		2	
1/4	151,184	1/4	166,204	1/4	181,207	1/4	196,183	1/4	210,506	1/4		1/4		1/4		1/4		1/4	
1/2	151,497	1/2	166,517	1/2	181,519	1/2	196,495	1/2	210,686	1/2		1/2		1/2		1/2		1/2	
3/4	151,810	3/4	166,830	3/4	181,831	3/4	196,807	3/4	210,865	3/4		3/4		3/4		3/4		3/4	
3	152,123	3	167,143	3	182,143	3	197,119	3	211,045	3		3		3		3		3	
1/4	152,436	1/4	167,456	1/4	182,455	1/4	197,431	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,749	1/2	167,769	1/2	182,767	1/2	197,743	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,062	3/4	168,082	3/4	183,079	3/4	198,055	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,375	4	168,395	4	183,391	4	198,367	4		4		4		4		4		4	
1/4	153,688	1/4	168,708	1/4	183,703	1/4	198,679	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,001	1/2	169,021	1/2	184,015	1/2	198,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,314	3/4	169,334	3/4	184,327	3/4	199,303	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,627	5	169,646	5	184,639	5	199,615	5		5		5		5		5		5	
1/4	154,939	1/4	169,959	1/4	184,951	1/4	199,926	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,252	1/2	170,272	1/2	185,263	1/2	200,237	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,565	3/4	170,585	3/4	185,575	3/4	200,548	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,878	6	170,898	6	185,887	6	200,859	6		6		6		6		6		6	
1/4	156,191	1/4	171,211	1/4	186,199	1/4	201,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,504	1/2	171,524	1/2	186,511	1/2	201,479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,817	3/4	171,837	3/4	186,823	3/4	201,789	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,130	7	172,150	7	187,135	7	202,098	7		7		7		7		7		7	
1/4	157,443	1/4	172,463	1/4	187,447	1/4	202,408	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,756	1/2	172,776	1/2	187,759	1/2	202,718	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,069	3/4	173,089	3/4	188,071	3/4	203,028	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,382	8	173,401	8	188,383	8	203,338	8		8		8		8		8		8	
1/4	158,694	1/4	173,714	1/4	188,695	1/4	203,648	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,007	1/2	174,027	1/2	189,007	1/2	203,958	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,320	3/4	174,340	3/4	189,319	3/4	204,268	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,633	9	174,653	9	189,631	9	204,578	9		9		9		9		9		9	
1/4	159,946	1/4	174,966	1/4	189,943	1/4	204,888	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,259	1/2	175,278	1/2	190,255	1/2	205,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,572	3/4	175,591	3/4	190,567	3/4	205,508	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,885	10	175,903	10	190,879	10	205,818	10		10		10		10		10		10	
1/4	161,198	1/4	176,215	1/4	191,191	1/4	206,127	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,511	1/2	176,527	1/2	191,503	1/2	206,437	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,824	3/4	176,839	3/4	191,815	3/4	206,746	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,137	11	177,151	11	192,127	11	207,056	11		11		11		11		11		11	
1/4	162,449	1/4	177,463	1/4	192,439	1/4	207,362	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,762	1/2	177,775	1/2	192,751	1/2	207,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,075	3/4	178,087	3/4	193,063	3/4	207,973	3/4		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  
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# BARGE "HSM 3024"

## 2 PORT INNAGE 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	1,032	0	15,701	0	30,769	0	45,465	0	59,955	0	74,814	0	89,884	0	104,954	0	120,019	0	135,082
1/4	1,267	1/4	16,015	1/4	31,082	1/4	45,766	1/4	60,257	1/4	75,128	1/4	90,198	1/4	105,268	1/4	120,333	1/4	135,396
1/2	1,503	1/2	16,329	1/2	31,396	1/2	46,067	1/2	60,560	1/2	75,442	1/2	90,512	1/2	105,582	1/2	120,647	1/2	135,710
3/4	1,738	3/4	16,643	3/4	31,710	3/4	46,369	3/4	60,862	3/4	75,755	3/4	90,826	3/4	105,896	3/4	120,961	3/4	136,023
1	1,974	1	16,957	1	32,024	1	46,670	1	61,164	1	76,069	1	91,140	1	106,210	1	121,274	1	136,337
1/4	2,267	1/4	17,271	1/4	32,338	1/4	46,971	1/4	61,466	1/4	76,383	1/4	91,454	1/4	106,524	1/4	121,588	1/4	136,651
1/2	2,561	1/2	17,585	1/2	32,652	1/2	47,272	1/2	61,768	1/2	76,697	1/2	91,768	1/2	106,838	1/2	121,902	1/2	136,965
3/4	2,854	3/4	17,899	3/4	32,966	3/4	47,574	3/4	62,071	3/4	77,011	3/4	92,082	3/4	107,152	3/4	122,216	3/4	137,279
2	3,148	2	18,213	2	33,280	2	47,875	2	62,373	2	77,325	2	92,396	2	107,466	2	122,530	2	137,592
1/4	3,461	1/4	18,527	1/4	33,594	1/4	48,176	1/4	62,675	1/4	77,639	1/4	92,710	1/4	107,780	1/4	122,843	1/4	137,906
1/2	3,774	1/2	18,841	1/2	33,908	1/2	48,478	1/2	62,977	1/2	77,953	1/2	93,024	1/2	108,094	1/2	123,157	1/2	138,220
3/4	4,087	3/4	19,154	3/4	34,222	3/4	48,779	3/4	63,279	3/4	78,267	3/4	93,338	3/4	108,408	3/4	123,471	3/4	138,534
3	4,400	3	19,468	3	34,536	3	49,080	3	63,581	3	78,581	3	93,651	3	108,722	3	123,785	3	138,848
1/4	4,713	1/4	19,782	1/4	34,850	1/4	49,382	1/4	63,884	1/4	78,895	1/4	93,965	1/4	109,036	1/4	124,099	1/4	139,161
1/2	5,027	1/2	20,096	1/2	35,164	1/2	49,683	1/2	64,186	1/2	79,209	1/2	94,279	1/2	109,350	1/2	124,412	1/2	139,475
3/4	5,341	3/4	20,410	3/4	35,478	3/4	49,985	3/4	64,488	3/4	79,523	3/4	94,593	3/4	109,663	3/4	124,726	3/4	139,789
4	5,654	4	20,724	4	35,792	4	50,286	4	64,790	4	79,837	4	94,907	4	109,977	4	125,040	4	140,103
1/4	5,968	1/4	21,038	1/4	36,100	1/4	50,588	1/4	65,098	1/4	80,151	1/4	95,221	1/4	110,291	1/4	125,354	1/4	140,417
1/2	6,282	1/2	21,352	1/2	36,408	1/2	50,890	1/2	65,406	1/2	80,465	1/2	95,535	1/2	110,605	1/2	125,668	1/2	140,730
3/4	6,596	3/4	21,666	3/4	36,716	3/4	51,192	3/4	65,715	3/4	80,779	3/4	95,849	3/4	110,919	3/4	125,982	3/4	141,044
5	6,910	5	21,980	5	37,024	5	51,494	5	66,023	5	81,093	5	96,163	5	111,233	5	126,295	5	141,358
1/4	7,224	1/4	22,294	1/4	37,326	1/4	51,796	1/4	66,337	1/4	81,407	1/4	96,477	1/4	111,546	1/4	126,609	1/4	141,672
1/2	7,538	1/2	22,608	1/2	37,628	1/2	52,098	1/2	66,651	1/2	81,721	1/2	96,791	1/2	111,860	1/2	126,923	1/2	141,986
3/4	7,852	3/4	22,922	3/4	37,931	3/4	52,400	3/4	66,964	3/4	82,035	3/4	97,105	3/4	112,174	3/4	127,237	3/4	142,300
6	8,166	6	23,236	6	38,233	6	52,702	6	67,278	6	82,349	6	97,419	6	112,488	6	127,551	6	142,613
1/4	8,480	1/4	23,550	1/4	38,535	1/4	53,005	1/4	67,592	1/4	82,663	1/4	97,733	1/4	112,802	1/4	127,864	1/4	142,927
1/2	8,794	1/2	23,864	1/2	38,836	1/2	53,307	1/2	67,906	1/2	82,977	1/2	98,047	1/2	113,115	1/2	128,178	1/2	143,241
3/4	9,108	3/4	24,178	3/4	39,138	3/4	53,609	3/4	68,220	3/4	83,291	3/4	98,361	3/4	113,429	3/4	128,492	3/4	143,555
7	9,422	7	24,492	7	39,440	7	53,911	7	68,534	7	83,605	7	98,675	7	113,743	7	128,806	7	143,869
1/4	9,736	1/4	24,806	1/4	39,741	1/4	54,213	1/4	68,848	1/4	83,919	1/4	98,989	1/4	114,057	1/4	129,120	1/4	144,182
1/2	10,050	1/2	25,120	1/2	40,042	1/2	54,516	1/2	69,162	1/2	84,233	1/2	99,303	1/2	114,371	1/2	129,433	1/2	144,496
3/4	10,364	3/4	25,434	3/4	40,343	3/4	54,818	3/4	69,476	3/4	84,547	3/4	99,617	3/4	114,684	3/4	129,747	3/4	144,810
8	10,678	8	25,748	8	40,645	8	55,120	8	69,790	8	84,860	8	99,931	8	114,998	8	130,061	8	145,124
1/4	10,992	1/4	26,061	1/4	40,946	1/4	55,422	1/4	70,104	1/4	85,174	1/4	100,245	1/4	115,312	1/4	130,375	1/4	145,438
1/2	11,306	1/2	26,375	1/2	41,247	1/2	55,724	1/2	70,418	1/2	85,488	1/2	100,559	1/2	115,626	1/2	130,689	1/2	145,751
3/4	11,620	3/4	26,689	3/4	41,548	3/4	56,027	3/4	70,732	3/4	85,802	3/4	100,873	3/4	115,940	3/4	131,002	3/4	146,065
9	11,933	9	27,003	9	41,850	9	56,329	9	71,046	9	86,116	9	101,187	9	116,253	9	131,316	9	146,379
1/4	12,247	1/4	27,317	1/4	42,151	1/4	56,631	1/4	71,360	1/4	86,430	1/4	101,501	1/4	116,567	1/4	131,630	1/4	146,693
1/2	12,561	1/2	27,631	1/2	42,452	1/2	56,933	1/2	71,674	1/2	86,744	1/2	101,815	1/2	116,881	1/2	131,944	1/2	147,007
3/4	12,875	3/4	27,944	3/4	42,754	3/4	57,235	3/4	71,988	3/4	87,058	3/4	102,129	3/4	117,195	3/4	132,258	3/4	147,320
10	13,189	10	28,258	10	43,055	10	57,538	10	72,302	10	87,372	10	102,443	10	117,509	10	132,571	10	147,634
1/4	13,503	1/4	28,572	1/4	43,356	1/4	57,840	1/4	72,616	1/4	87,686	1/4	102,756	1/4	117,823	1/4	132,885	1/4	147,948
1/2	13,817	1/2	28,885	1/2	43,657	1/2	58,142	1/2	72,930	1/2	88,000	1/2	103,070	1/2	118,136	1/2	133,199	1/2	148,262
3/4	14,131	3/4	29,199	3/4	43,959	3/4	58,444	3/4	73,244	3/4	88,314	3/4	103,384	3/4	118,450	3/4	133,513	3/4	148,576
11	14,445	11	29,513	11	44,260	11	58,746	11	73,558	11	88,628	11	103,698	11	118,764	11	133,827	11	148,889
1/4	14,759	1/4	29,827	1/4	44,561	1/4	59,049	1/4	73,872	1/4	88,942	1/4	104,012	1/4	119,078	1/4	134,141	1/4	149,203
1/2	15,073	1/2	30,141	1/2	44,862	1/2	59,351	1/2	74,186	1/2	89,256	1/2	104,326	1/2	119,392	1/2	134,454	1/2	149,517
3/4	15,387	3/4	30,455	3/4	45,164	3/4	59,653	3/4	74,500	3/4	89,570	3/4	104,640	3/4	119,705	3/4	134,768	3/4	149,831

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



# BARGE "HSM 3024"

## 2 PORT INNAGE 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	150,145	0	165,207	0	180,260	0	195,271	0	210,186	0		0		0		0		0	
1/4	150,458	1/4	165,521	1/4	180,572	1/4	195,584	1/4	210,466	1/4		1/4		1/4		1/4		1/4	
1/2	150,772	1/2	165,835	1/2	180,885	1/2	195,897	1/2	210,746	1/2		1/2		1/2		1/2		1/2	
3/4	151,086	3/4	166,149	3/4	181,198	3/4	196,209	3/4	211,025	3/4		3/4		3/4		3/4		3/4	
1	151,400	1	166,463	1	181,511	1	196,522	1	211,305	1		1		1		1		1	
1/4	151,714	1/4	166,776	1/4	181,823	1/4	196,835	1/4	211,537	1/4		1/4		1/4		1/4		1/4	
1/2	152,028	1/2	167,090	1/2	182,136	1/2	197,148	1/2	211,768	1/2		1/2		1/2		1/2		1/2	
3/4	152,341	3/4	167,404	3/4	182,449	3/4	197,460	3/4	211,999	3/4		3/4		3/4		3/4		3/4	
2	152,655	2	167,718	2	182,761	2	197,773	2	212,231	2		2		2		2		2	
1/4	152,969	1/4	168,032	1/4	183,074	1/4	198,086	1/4	212,410	1/4		1/4		1/4		1/4		1/4	
1/2	153,283	1/2	168,346	1/2	183,387	1/2	198,399	1/2	212,588	1/2		1/2		1/2		1/2		1/2	
3/4	153,597	3/4	168,659	3/4	183,700	3/4	198,711	3/4	212,767	3/4		3/4		3/4		3/4		3/4	
3	153,910	3	168,973	3	184,012	3	199,024	3	212,946	3		3		3		3		3	
1/4	154,224	1/4	169,287	1/4	184,325	1/4	199,337	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,538	1/2	169,601	1/2	184,638	1/2	199,650	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,852	3/4	169,915	3/4	184,951	3/4	199,962	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,166	4	170,228	4	185,263	4	200,275	4		4		4		4		4		4	
1/4	155,479	1/4	170,542	1/4	185,576	1/4	200,588	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,793	1/2	170,856	1/2	185,889	1/2	200,901	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,107	3/4	171,170	3/4	186,202	3/4	201,213	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,421	5	171,484	5	186,514	5	201,526	5		5		5		5		5		5	
1/4	156,735	1/4	171,797	1/4	186,827	1/4	201,837	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,048	1/2	172,111	1/2	187,140	1/2	202,148	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,362	3/4	172,425	3/4	187,453	3/4	202,460	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,676	6	172,739	6	187,765	6	202,771	6		6		6		6		6		6	
1/4	157,990	1/4	173,053	1/4	188,078	1/4	203,080	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,304	1/2	173,366	1/2	188,391	1/2	203,390	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,617	3/4	173,680	3/4	188,704	3/4	203,700	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,931	7	173,994	7	189,016	7	204,009	7		7		7		7		7		7	
1/4	159,245	1/4	174,308	1/4	189,329	1/4	204,319	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,559	1/2	174,622	1/2	189,642	1/2	204,629	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,873	3/4	174,935	3/4	189,955	3/4	204,939	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,187	8	175,249	8	190,267	8	205,248	8		8		8		8		8		8	
1/4	160,500	1/4	175,563	1/4	190,580	1/4	205,558	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,814	1/2	175,877	1/2	190,893	1/2	205,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,128	3/4	176,191	3/4	191,206	3/4	206,178	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,442	9	176,504	9	191,518	9	206,487	9		9		9		9		9		9	
1/4	161,756	1/4	176,818	1/4	191,831	1/4	206,797	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,069	1/2	177,131	1/2	192,144	1/2	207,107	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,383	3/4	177,444	3/4	192,456	3/4	207,417	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,697	10	177,758	10	192,769	10	207,726	10		10		10		10		10		10	
1/4	163,011	1/4	178,070	1/4	193,082	1/4	208,036	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,325	1/2	178,383	1/2	193,395	1/2	208,345	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,638	3/4	178,696	3/4	193,707	3/4	208,654	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,952	11	179,009	11	194,020	11	208,963	11		11		11		11		11		11	
1/4	164,266	1/4	179,321	1/4	194,333	1/4	209,269	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,580	1/2	179,634	1/2	194,646	1/2	209,575	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,894	3/4	179,947	3/4	194,958	3/4	209,880	3/4		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"

## 2 STBD INNAGE 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	1,033	0	15,717	0	30,799	0	45,864	0	60,934	0	76,019	0	91,104	0	106,189	0	121,268	0	136,345
1/4	1,269	1/4	16,031	1/4	31,114	1/4	46,177	1/4	61,248	1/4	76,333	1/4	91,418	1/4	106,503	1/4	121,582	1/4	136,660
1/2	1,504	1/2	16,345	1/2	31,428	1/2	46,490	1/2	61,562	1/2	76,647	1/2	91,732	1/2	106,817	1/2	121,896	1/2	136,974
3/4	1,740	3/4	16,660	3/4	31,742	3/4	46,804	3/4	61,877	3/4	76,961	3/4	92,046	3/4	107,131	3/4	122,210	3/4	137,288
1	1,976	1	16,974	1	32,056	1	47,117	1	62,191	1	77,276	1	92,361	1	107,446	1	122,525	1	137,602
1/4	2,270	1/4	17,288	1/4	32,371	1/4	47,430	1/4	62,505	1/4	77,590	1/4	92,675	1/4	107,760	1/4	122,839	1/4	137,916
1/2	2,563	1/2	17,602	1/2	32,685	1/2	47,744	1/2	62,819	1/2	77,904	1/2	92,989	1/2	108,074	1/2	123,153	1/2	138,230
3/4	2,857	3/4	17,917	3/4	32,999	3/4	48,057	3/4	63,134	3/4	78,219	3/4	93,303	3/4	108,388	3/4	123,467	3/4	138,544
2	3,151	2	18,231	2	33,313	2	48,370	2	63,448	2	78,533	2	93,618	2	108,703	2	123,781	2	138,858
1/4	3,464	1/4	18,545	1/4	33,628	1/4	48,684	1/4	63,762	1/4	78,847	1/4	93,932	1/4	109,017	1/4	124,095	1/4	139,172
1/2	3,778	1/2	18,859	1/2	33,942	1/2	48,997	1/2	64,076	1/2	79,161	1/2	94,246	1/2	109,331	1/2	124,409	1/2	139,487
3/4	4,091	3/4	19,174	3/4	34,256	3/4	49,311	3/4	64,391	3/4	79,476	3/4	94,561	3/4	109,645	3/4	124,723	3/4	139,801
3	4,404	3	19,488	3	34,571	3	49,624	3	64,705	3	79,790	3	94,875	3	109,960	3	125,037	3	140,115
1/4	4,718	1/4	19,802	1/4	34,885	1/4	49,938	1/4	65,019	1/4	80,104	1/4	95,189	1/4	110,274	1/4	125,352	1/4	140,429
1/2	5,032	1/2	20,117	1/2	35,199	1/2	50,251	1/2	65,334	1/2	80,418	1/2	95,503	1/2	110,588	1/2	125,666	1/2	140,743
3/4	5,346	3/4	20,431	3/4	35,513	3/4	50,565	3/4	65,648	3/4	80,733	3/4	95,818	3/4	110,902	3/4	125,980	3/4	141,057
4	5,660	4	20,745	4	35,828	4	50,879	4	65,962	4	81,047	4	96,132	4	111,217	4	126,294	4	141,371
1/4	5,975	1/4	21,059	1/4	36,142	1/4	51,192	1/4	66,276	1/4	81,361	1/4	96,446	1/4	111,531	1/4	126,608	1/4	141,685
1/2	6,289	1/2	21,374	1/2	36,456	1/2	51,506	1/2	66,591	1/2	81,676	1/2	96,760	1/2	111,845	1/2	126,922	1/2	141,999
3/4	6,603	3/4	21,688	3/4	36,770	3/4	51,820	3/4	66,905	3/4	81,990	3/4	97,075	3/4	112,159	3/4	127,236	3/4	142,314
5	6,917	5	22,002	5	37,085	5	52,134	5	67,219	5	82,304	5	97,389	5	112,473	5	127,550	5	142,628
1/4	7,232	1/4	22,316	1/4	37,399	1/4	52,448	1/4	67,533	1/4	82,618	1/4	97,703	1/4	112,787	1/4	127,864	1/4	142,942
1/2	7,546	1/2	22,631	1/2	37,713	1/2	52,763	1/2	67,848	1/2	82,933	1/2	98,018	1/2	113,101	1/2	128,179	1/2	143,256
3/4	7,860	3/4	22,945	3/4	38,028	3/4	53,077	3/4	68,162	3/4	83,247	3/4	98,332	3/4	113,415	3/4	128,493	3/4	143,570
6	8,174	6	23,259	6	38,342	6	53,391	6	68,476	6	83,561	6	98,646	6	113,729	6	128,807	6	143,884
1/4	8,489	1/4	23,573	1/4	38,656	1/4	53,706	1/4	68,790	1/4	83,875	1/4	98,960	1/4	114,044	1/4	129,121	1/4	144,198
1/2	8,803	1/2	23,888	1/2	38,969	1/2	54,020	1/2	69,105	1/2	84,190	1/2	99,275	1/2	114,358	1/2	129,435	1/2	144,512
3/4	9,117	3/4	24,202	3/4	39,283	3/4	54,334	3/4	69,419	3/4	84,504	3/4	99,589	3/4	114,672	3/4	129,749	3/4	144,826
7	9,431	7	24,516	7	39,597	7	54,648	7	69,733	7	84,818	7	99,903	7	114,986	7	130,063	7	145,141
1/4	9,746	1/4	24,831	1/4	39,910	1/4	54,963	1/4	70,048	1/4	85,132	1/4	100,217	1/4	115,300	1/4	130,377	1/4	145,455
1/2	10,060	1/2	25,145	1/2	40,224	1/2	55,277	1/2	70,362	1/2	85,447	1/2	100,532	1/2	115,614	1/2	130,691	1/2	145,769
3/4	10,374	3/4	25,459	3/4	40,537	3/4	55,591	3/4	70,676	3/4	85,761	3/4	100,846	3/4	115,928	3/4	131,006	3/4	146,083
8	10,688	8	25,773	8	40,850	8	55,905	8	70,990	8	86,075	8	101,160	8	116,242	8	131,320	8	146,397
1/4	11,003	1/4	26,088	1/4	41,164	1/4	56,220	1/4	71,305	1/4	86,390	1/4	101,474	1/4	116,556	1/4	131,634	1/4	146,711
1/2	11,317	1/2	26,402	1/2	41,477	1/2	56,534	1/2	71,619	1/2	86,704	1/2	101,789	1/2	116,871	1/2	131,948	1/2	147,025
3/4	11,631	3/4	26,716	3/4	41,790	3/4	56,848	3/4	71,933	3/4	87,018	3/4	102,103	3/4	117,185	3/4	132,262	3/4	147,339
9	11,946	9	27,030	9	42,104	9	57,163	9	72,247	9	87,332	9	102,417	9	117,499	9	132,576	9	147,653
1/4	12,260	1/4	27,344	1/4	42,417	1/4	57,477	1/4	72,562	1/4	87,647	1/4	102,732	1/4	117,813	1/4	132,890	1/4	147,968
1/2	12,574	1/2	27,658	1/2	42,730	1/2	57,791	1/2	72,876	1/2	87,961	1/2	103,046	1/2	118,127	1/2	133,204	1/2	148,282
3/4	12,888	3/4	27,972	3/4	43,044	3/4	58,105	3/4	73,190	3/4	88,275	3/4	103,360	3/4	118,441	3/4	133,518	3/4	148,596
10	13,203	10	28,286	10	43,357	10	58,420	10	73,505	10	88,589	10	103,674	10	118,755	10	133,833	10	148,910
1/4	13,517	1/4	28,600	1/4	43,670	1/4	58,734	1/4	73,819	1/4	88,904	1/4	103,989	1/4	119,069	1/4	134,147	1/4	149,224
1/2	13,831	1/2	28,914	1/2	43,984	1/2	59,048	1/2	74,133	1/2	89,218	1/2	104,303	1/2	119,383	1/2	134,461	1/2	149,538
3/4	14,145	3/4	29,228	3/4	44,297	3/4	59,362	3/4	74,447	3/4	89,532	3/4	104,617	3/4	119,698	3/4	134,775	3/4	149,852
11	14,460	11	29,543	11	44,610	11	59,677	11	74,762	11	89,847	11	104,931	11	120,012	11	135,089	11	150,166
1/4	14,774	1/4	29,857	1/4	44,924	1/4	59,991	1/4	75,076	1/4	90,161	1/4	105,246	1/4	120,326	1/4	135,403	1/4	150,480
1/2	15,088	1/2	30,171	1/2	45,237	1/2	60,305	1/2	75,390	1/2	90,475	1/2	105,560	1/2	120,640	1/2	135,717	1/2	150,795
3/4	15,402	3/4	30,485	3/4	45,550	3/4	60,619	3/4	75,704	3/4	90,789	3/4	105,874	3/4	120,954	3/4	136,031	3/4	151,109

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



# BARGE "HSM 3024"

## 2 STBD INNAGE 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	151,423	0	166,500	0	181,567	0	196,593	0	211,522	0		0		0		0		0	
1/4	151,737	1/4	166,814	1/4	181,880	1/4	196,906	1/4	211,802	1/4		1/4		1/4		1/4		1/4	
1/2	152,051	1/2	167,128	1/2	182,193	1/2	197,219	1/2	212,083	1/2		1/2		1/2		1/2		1/2	
3/4	152,365	3/4	167,443	3/4	182,506	3/4	197,532	3/4	212,363	3/4		3/4		3/4		3/4		3/4	
1	152,679	1	167,757	1	182,819	1	197,845	1	212,643	1		1		1		1		1	
1/4	152,993	1/4	168,071	1/4	183,132	1/4	198,158	1/4	212,874	1/4		1/4		1/4		1/4		1/4	
1/2	153,307	1/2	168,385	1/2	183,445	1/2	198,471	1/2	213,106	1/2		1/2		1/2		1/2		1/2	
3/4	153,622	3/4	168,699	3/4	183,758	3/4	198,784	3/4	213,337	3/4		3/4		3/4		3/4		3/4	
2	153,936	2	169,013	2	184,071	2	199,097	2	213,569	2		2		2		2		2	
1/4	154,250	1/4	169,327	1/4	184,384	1/4	199,410	1/4	213,748	1/4		1/4		1/4		1/4		1/4	
1/2	154,564	1/2	169,641	1/2	184,697	1/2	199,724	1/2	213,927	1/2		1/2		1/2		1/2		1/2	
3/4	154,878	3/4	169,955	3/4	185,010	3/4	200,037	3/4	214,106	3/4		3/4		3/4		3/4		3/4	
3	155,192	3	170,270	3	185,323	3	200,350	3	214,286	3		3		3		3		3	
1/4	155,506	1/4	170,584	1/4	185,636	1/4	200,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,820	1/2	170,898	1/2	185,950	1/2	200,976	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,134	3/4	171,212	3/4	186,263	3/4	201,289	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,449	4	171,526	4	186,576	4	201,602	4		4		4		4		4		4	
1/4	156,763	1/4	171,840	1/4	186,889	1/4	201,915	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,077	1/2	172,154	1/2	187,202	1/2	202,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,391	3/4	172,468	3/4	187,515	3/4	202,541	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,705	5	172,782	5	187,828	5	202,854	5		5		5		5		5		5	
1/4	158,019	1/4	173,097	1/4	188,141	1/4	203,165	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,333	1/2	173,411	1/2	188,454	1/2	203,477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,647	3/4	173,725	3/4	188,767	3/4	203,788	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,961	6	174,039	6	189,080	6	204,100	6		6		6		6		6		6	
1/4	159,276	1/4	174,353	1/4	189,393	1/4	204,410	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,590	1/2	174,667	1/2	189,706	1/2	204,720	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,904	3/4	174,981	3/4	190,019	3/4	205,030	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,218	7	175,295	7	190,332	7	205,340	7		7		7		7		7		7	
1/4	160,532	1/4	175,609	1/4	190,645	1/4	205,650	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,846	1/2	175,924	1/2	190,958	1/2	205,960	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,160	3/4	176,238	3/4	191,271	3/4	206,270	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,474	8	176,552	8	191,584	8	206,580	8		8		8		8		8		8	
1/4	161,788	1/4	176,866	1/4	191,897	1/4	206,890	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,103	1/2	177,180	1/2	192,210	1/2	207,200	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,417	3/4	177,494	3/4	192,523	3/4	207,510	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,731	9	177,808	9	192,837	9	207,820	9		9		9		9		9		9	
1/4	163,045	1/4	178,122	1/4	193,150	1/4	208,130	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,359	1/2	178,435	1/2	193,463	1/2	208,440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,673	3/4	178,749	3/4	193,776	3/4	208,750	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,987	10	179,062	10	194,089	10	209,060	10		10		10		10		10		10	
1/4	164,301	1/4	179,376	1/4	194,402	1/4	209,370	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,615	1/2	179,689	1/2	194,715	1/2	209,680	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,930	3/4	180,002	3/4	195,028	3/4	209,989	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,244	11	180,315	11	195,341	11	210,299	11		11		11		11		11		11	
1/4	165,558	1/4	180,628	1/4	195,654	1/4	210,605	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,872	1/2	180,941	1/2	195,967	1/2	210,911	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,186	3/4	181,254	3/4	196,280	3/4	211,216	3/4		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 INNAGE 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	1,028	0	15,635	0	30,626	0	45,387	0	59,946	0	74,858	0	89,826	0	104,806	0	119,775	0	134,742
1/4	1,263	1/4	15,947	1/4	30,938	1/4	45,689	1/4	60,258	1/4	75,168	1/4	90,138	1/4	105,118	1/4	120,087	1/4	135,054
1/2	1,497	1/2	16,260	1/2	31,250	1/2	45,991	1/2	60,570	1/2	75,478	1/2	90,450	1/2	105,430	1/2	120,399	1/2	135,365
3/4	1,732	3/4	16,572	3/4	31,563	3/4	46,292	3/4	60,882	3/4	75,789	3/4	90,762	3/4	105,742	3/4	120,711	3/4	135,677
1	1,967	1	16,884	1	31,875	1	46,594	1	61,194	1	76,099	1	91,074	1	106,054	1	121,023	1	135,989
1/4	2,259	1/4	17,197	1/4	32,187	1/4	46,896	1/4	61,506	1/4	76,409	1/4	91,386	1/4	106,366	1/4	121,334	1/4	136,301
1/2	2,552	1/2	17,509	1/2	32,500	1/2	47,198	1/2	61,818	1/2	76,720	1/2	91,697	1/2	106,679	1/2	121,646	1/2	136,613
3/4	2,844	3/4	17,821	3/4	32,812	3/4	47,500	3/4	62,130	3/4	77,030	3/4	92,009	3/4	106,991	3/4	121,958	3/4	136,924
2	3,137	2	18,134	2	33,124	2	47,802	2	62,442	2	77,340	2	92,321	2	107,303	2	122,270	2	137,236
1/4	3,448	1/4	18,446	1/4	33,437	1/4	48,105	1/4	62,753	1/4	77,652	1/4	92,633	1/4	107,615	1/4	122,582	1/4	137,548
1/2	3,760	1/2	18,758	1/2	33,749	1/2	48,407	1/2	63,064	1/2	77,963	1/2	92,945	1/2	107,927	1/2	122,893	1/2	137,860
3/4	4,072	3/4	19,071	3/4	34,061	3/4	48,710	3/4	63,375	3/4	78,274	3/4	93,257	3/4	108,238	3/4	123,205	3/4	138,172
3	4,384	3	19,383	3	34,374	3	49,012	3	63,686	3	78,586	3	93,569	3	108,550	3	123,517	3	138,483
1/4	4,696	1/4	19,696	1/4	34,685	1/4	49,315	1/4	63,997	1/4	78,898	1/4	93,881	1/4	108,862	1/4	123,829	1/4	138,795
1/2	5,009	1/2	20,008	1/2	34,997	1/2	49,617	1/2	64,307	1/2	79,210	1/2	94,193	1/2	109,174	1/2	124,141	1/2	139,107
3/4	5,321	3/4	20,320	3/4	35,309	3/4	49,920	3/4	64,617	3/4	79,522	3/4	94,505	3/4	109,486	3/4	124,452	3/4	139,419
4	5,634	4	20,633	4	35,621	4	50,222	4	64,928	4	79,835	4	94,817	4	109,798	4	124,764	4	139,731
1/4	5,946	1/4	20,945	1/4	35,929	1/4	50,525	1/4	65,238	1/4	80,147	1/4	95,129	1/4	110,110	1/4	125,076	1/4	140,042
1/2	6,259	1/2	21,257	1/2	36,237	1/2	50,827	1/2	65,548	1/2	80,459	1/2	95,441	1/2	110,421	1/2	125,388	1/2	140,354
3/4	6,572	3/4	21,570	3/4	36,545	3/4	51,130	3/4	65,859	3/4	80,771	3/4	95,753	3/4	110,733	3/4	125,700	3/4	140,666
5	6,884	5	21,882	5	36,854	5	51,432	5	66,169	5	81,084	5	96,065	5	111,045	5	126,011	5	140,978
1/4	7,197	1/4	22,194	1/4	37,159	1/4	51,735	1/4	66,479	1/4	81,396	1/4	96,377	1/4	111,357	1/4	126,323	1/4	141,289
1/2	7,509	1/2	22,507	1/2	37,464	1/2	52,037	1/2	66,790	1/2	81,708	1/2	96,689	1/2	111,669	1/2	126,635	1/2	141,601
3/4	7,822	3/4	22,819	3/4	37,769	3/4	52,340	3/4	67,100	3/4	82,021	3/4	97,001	3/4	111,980	3/4	126,947	3/4	141,912
6	8,134	6	23,131	6	38,074	6	52,642	6	67,410	6	82,333	6	97,313	6	112,292	6	127,259	6	142,224
1/4	8,447	1/4	23,444	1/4	38,379	1/4	52,945	1/4	67,721	1/4	82,645	1/4	97,625	1/4	112,604	1/4	127,570	1/4	142,531
1/2	8,760	1/2	23,756	1/2	38,684	1/2	53,247	1/2	68,031	1/2	82,957	1/2	97,937	1/2	112,916	1/2	127,882	1/2	142,838
3/4	9,072	3/4	24,068	3/4	38,989	3/4	53,550	3/4	68,341	3/4	83,270	3/4	98,249	3/4	113,228	3/4	128,194	3/4	143,145
7	9,385	7	24,381	7	39,294	7	53,852	7	68,651	7	83,582	7	98,561	7	113,539	7	128,506	7	143,452
1/4	9,698	1/4	24,693	1/4	39,599	1/4	54,155	1/4	68,962	1/4	83,894	1/4	98,873	1/4	113,851	1/4	128,818	1/4	143,746
1/2	10,011	1/2	25,005	1/2	39,904	1/2	54,457	1/2	69,272	1/2	84,207	1/2	99,186	1/2	114,163	1/2	129,129	1/2	144,041
3/4	10,324	3/4	25,318	3/4	40,209	3/4	54,759	3/4	69,582	3/4	84,519	3/4	99,498	3/4	114,475	3/4	129,441	3/4	144,336
8	10,637	8	25,630	8	40,514	8	55,062	8	69,893	8	84,831	8	99,810	8	114,787	8	129,753	8	144,631
1/4	10,949	1/4	25,942	1/4	40,819	1/4	55,364	1/4	70,203	1/4	85,143	1/4	100,122	1/4	115,098	1/4	130,065	1/4	144,909
1/2	11,262	1/2	26,255	1/2	41,124	1/2	55,667	1/2	70,513	1/2	85,456	1/2	100,435	1/2	115,410	1/2	130,377	1/2	145,188
3/4	11,574	3/4	26,567	3/4	41,429	3/4	55,969	3/4	70,824	3/4	85,768	3/4	100,747	3/4	115,722	3/4	130,688	3/4	145,466
9	11,887	9	26,879	9	41,734	9	56,272	9	71,134	9	86,080	9	101,059	9	116,034	9	131,000	9	145,745
1/4	12,199	1/4	27,191	1/4	42,039	1/4	56,576	1/4	71,444	1/4	86,393	1/4	101,371	1/4	116,346	1/4	131,312	1/4	146,008
1/2	12,512	1/2	27,503	1/2	42,344	1/2	56,880	1/2	71,755	1/2	86,705	1/2	101,683	1/2	116,657	1/2	131,624	1/2	146,271
3/4	12,824	3/4	27,816	3/4	42,649	3/4	57,184	3/4	72,065	3/4	87,017	3/4	101,996	3/4	116,969	3/4	131,936	3/4	146,534
10	13,136	10	28,128	10	42,954	10	57,488	10	72,375	10	87,329	10	102,308	10	117,281	10	132,247	10	146,797
1/4	13,449	1/4	28,440	1/4	43,259	1/4	57,794	1/4	72,686	1/4	87,641	1/4	102,620	1/4	117,593	1/4	132,559	1/4	147,044
1/2	13,761	1/2	28,752	1/2	43,564	1/2	58,099	1/2	72,996	1/2	87,954	1/2	102,932	1/2	117,905	1/2	132,871	1/2	147,291
3/4	14,073	3/4	29,064	3/4	43,869	3/4	58,405	3/4	73,306	3/4	88,266	3/4	103,244	3/4	118,216	3/4	133,183	3/4	147,539
11	14,386	11	29,376	11	44,174	11	58,711	11	73,617	11	88,578	11	103,557	11	118,528	11	133,495	11	147,786
1/4	14,698	1/4	29,689	1/4	44,477	1/4	59,020	1/4	73,927	1/4	88,890	1/4	103,869	1/4	118,840	1/4	133,806	1/4	148,017
1/2	15,010	1/2	30,001	1/2	44,781	1/2	59,328	1/2	74,237	1/2	89,202	1/2	104,181	1/2	119,152	1/2	134,118	1/2	148,248
3/4	15,323	3/4	30,313	3/4	45,084	3/4	59,637	3/4	74,547	3/4	89,514	3/4	104,493	3/4	119,464	3/4	134,430	3/4	148,479

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 INNAGE 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 3024"

## 3 PORT INNAGE 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	148,710	0	159,093	0	169,455	0	179,787	0	190,105	0		0		0		0		0	
1/4	148,930	1/4	159,309	1/4	169,670	1/4	180,003	1/4	190,298	1/4		1/4		1/4		1/4		1/4	
1/2	149,149	1/2	159,525	1/2	169,885	1/2	180,218	1/2	190,492	1/2		1/2		1/2		1/2		1/2	
3/4	149,369	3/4	159,741	3/4	170,101	3/4	180,433	3/4	190,685	3/4		3/4		3/4		3/4		3/4	
1	149,588	1	159,957	1	170,316	1	180,648	1	190,878	1		1		1		1		1	
1/4	149,804	1/4	160,173	1/4	170,531	1/4	180,864	1/4	191,037	1/4		1/4		1/4		1/4		1/4	
1/2	150,020	1/2	160,389	1/2	170,746	1/2	181,079	1/2	191,197	1/2		1/2		1/2		1/2		1/2	
3/4	150,236	3/4	160,605	3/4	170,962	3/4	181,294	3/4	191,357	3/4		3/4		3/4		3/4		3/4	
2	150,452	2	160,822	2	171,177	2	181,509	2	191,516	2		2		2		2		2	
1/4	150,668	1/4	161,038	1/4	171,392	1/4	181,725	1/4	191,640	1/4		1/4		1/4		1/4		1/4	
1/2	150,885	1/2	161,254	1/2	171,607	1/2	181,940	1/2	191,764	1/2		1/2		1/2		1/2		1/2	
3/4	151,101	3/4	161,470	3/4	171,823	3/4	182,155	3/4	191,887	3/4		3/4		3/4		3/4		3/4	
3	151,317	3	161,686	3	172,038	3	182,370	3	192,011	3		3		3		3		3	
1/4	151,533	1/4	161,902	1/4	172,253	1/4	182,586	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,749	1/2	162,118	1/2	172,468	1/2	182,801	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,965	3/4	162,334	3/4	172,684	3/4	183,016	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,181	4	162,550	4	172,899	4	183,232	4		4		4		4		4		4	
1/4	152,397	1/4	162,766	1/4	173,114	1/4	183,447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,613	1/2	162,982	1/2	173,330	1/2	183,662	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,829	3/4	163,198	3/4	173,545	3/4	183,877	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,045	5	163,414	5	173,760	5	184,093	5		5		5		5		5		5	
1/4	153,261	1/4	163,630	1/4	173,975	1/4	184,308	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,477	1/2	163,846	1/2	174,191	1/2	184,523	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,693	3/4	164,062	3/4	174,406	3/4	184,738	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,909	6	164,278	6	174,621	6	184,954	6		6		6		6		6		6	
1/4	154,125	1/4	164,494	1/4	174,836	1/4	185,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,341	1/2	164,710	1/2	175,052	1/2	185,384	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,557	3/4	164,926	3/4	175,267	3/4	185,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,773	7	165,142	7	175,482	7	185,815	7		7		7		7		7		7	
1/4	154,989	1/4	165,358	1/4	175,697	1/4	186,030	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,205	1/2	165,574	1/2	175,913	1/2	186,245	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,421	3/4	165,790	3/4	176,128	3/4	186,461	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,637	8	166,006	8	176,343	8	186,676	8		8		8		8		8		8	
1/4	155,853	1/4	166,222	1/4	176,558	1/4	186,891	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,069	1/2	166,438	1/2	176,774	1/2	187,107	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,285	3/4	166,654	3/4	176,989	3/4	187,322	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,501	9	166,870	9	177,204	9	187,537	9		9		9		9		9		9	
1/4	156,717	1/4	167,086	1/4	177,419	1/4	187,753	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,933	1/2	167,301	1/2	177,635	1/2	187,968	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,149	3/4	167,517	3/4	177,850	3/4	188,183	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,365	10	167,733	10	178,065	10	188,399	10		10		10		10		10		10	
1/4	157,581	1/4	167,948	1/4	178,281	1/4	188,614	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,797	1/2	168,163	1/2	178,496	1/2	188,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,013	3/4	168,378	3/4	178,711	3/4	189,044	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,229	11	168,594	11	178,926	11	189,259	11		11		11		11		11		11	
1/4	158,445	1/4	168,809	1/4	179,142	1/4	189,470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,661	1/2	169,024	1/2	179,357	1/2	189,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,877	3/4	169,240	3/4	179,572	3/4	189,894	3/4		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.  
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# BARGE "HSM 3024"

## 3 STBD INNAGE 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	1,029	0	15,649	0	30,668	0	45,671	0	60,690	0	75,710	0	90,730	0	105,750	0	120,753	0	135,753
1/4	1,263	1/4	15,961	1/4	30,981	1/4	45,984	1/4	61,003	1/4	76,023	1/4	91,043	1/4	106,063	1/4	121,065	1/4	136,065
1/2	1,498	1/2	16,274	1/2	31,294	1/2	46,297	1/2	61,316	1/2	76,336	1/2	91,356	1/2	106,375	1/2	121,378	1/2	136,378
3/4	1,732	3/4	16,587	3/4	31,607	3/4	46,609	3/4	61,629	3/4	76,648	3/4	91,668	3/4	106,688	3/4	121,690	3/4	136,690
1	1,967	1	16,900	1	31,920	1	46,922	1	61,941	1	76,961	1	91,981	1	107,001	1	122,003	1	137,003
1/4	2,260	1/4	17,213	1/4	32,233	1/4	47,235	1/4	62,254	1/4	77,274	1/4	92,294	1/4	107,314	1/4	122,315	1/4	137,315
1/2	2,552	1/2	17,526	1/2	32,546	1/2	47,548	1/2	62,567	1/2	77,587	1/2	92,607	1/2	107,627	1/2	122,628	1/2	137,628
3/4	2,845	3/4	17,839	3/4	32,858	3/4	47,860	3/4	62,880	3/4	77,900	3/4	92,920	3/4	107,940	3/4	122,940	3/4	137,940
2	3,137	2	18,152	2	33,171	2	48,173	2	63,193	2	78,213	2	93,233	2	108,252	2	123,253	2	138,253
1/4	3,449	1/4	18,465	1/4	33,484	1/4	48,486	1/4	63,506	1/4	78,526	1/4	93,546	1/4	108,565	1/4	123,565	1/4	138,565
1/2	3,761	1/2	18,778	1/2	33,797	1/2	48,799	1/2	63,819	1/2	78,839	1/2	93,859	1/2	108,878	1/2	123,878	1/2	138,878
3/4	4,073	3/4	19,091	3/4	34,110	3/4	49,112	3/4	64,132	3/4	79,152	3/4	94,172	3/4	109,190	3/4	124,190	3/4	139,190
3	4,385	3	19,403	3	34,423	3	49,425	3	64,445	3	79,465	3	94,485	3	109,503	3	124,503	3	139,503
1/4	4,698	1/4	19,716	1/4	34,736	1/4	49,738	1/4	64,758	1/4	79,778	1/4	94,798	1/4	109,815	1/4	124,815	1/4	139,815
1/2	5,010	1/2	20,029	1/2	35,048	1/2	50,051	1/2	65,071	1/2	80,091	1/2	95,110	1/2	110,128	1/2	125,128	1/2	140,128
3/4	5,323	3/4	20,342	3/4	35,361	3/4	50,364	3/4	65,384	3/4	80,403	3/4	95,423	3/4	110,440	3/4	125,440	3/4	140,440
4	5,636	4	20,655	4	35,674	4	50,677	4	65,696	4	80,716	4	95,736	4	110,753	4	125,753	4	140,753
1/4	5,949	1/4	20,968	1/4	35,986	1/4	50,989	1/4	66,009	1/4	81,029	1/4	96,049	1/4	111,065	1/4	126,065	1/4	141,065
1/2	6,261	1/2	21,281	1/2	36,298	1/2	51,302	1/2	66,322	1/2	81,342	1/2	96,362	1/2	111,378	1/2	126,378	1/2	141,378
3/4	6,574	3/4	21,594	3/4	36,611	3/4	51,615	3/4	66,635	3/4	81,655	3/4	96,675	3/4	111,690	3/4	126,690	3/4	141,690
5	6,887	5	21,907	5	36,923	5	51,928	5	66,948	5	81,968	5	96,988	5	112,003	5	127,003	5	142,003
1/4	7,200	1/4	22,220	1/4	37,236	1/4	52,241	1/4	67,261	1/4	82,281	1/4	97,301	1/4	112,315	1/4	127,315	1/4	142,315
1/2	7,513	1/2	22,533	1/2	37,548	1/2	52,554	1/2	67,574	1/2	82,594	1/2	97,614	1/2	112,628	1/2	127,628	1/2	142,627
3/4	7,826	3/4	22,845	3/4	37,861	3/4	52,867	3/4	67,887	3/4	82,907	3/4	97,927	3/4	112,940	3/4	127,940	3/4	142,939
6	8,139	6	23,158	6	38,173	6	53,180	6	68,200	6	83,220	6	98,240	6	113,253	6	128,253	6	143,251
1/4	8,452	1/4	23,471	1/4	38,485	1/4	53,493	1/4	68,513	1/4	83,533	1/4	98,553	1/4	113,565	1/4	128,565	1/4	143,559
1/2	8,765	1/2	23,784	1/2	38,798	1/2	53,806	1/2	68,826	1/2	83,846	1/2	98,865	1/2	113,878	1/2	128,878	1/2	143,867
3/4	9,078	3/4	24,097	3/4	39,110	3/4	54,119	3/4	69,139	3/4	84,158	3/4	99,178	3/4	114,190	3/4	129,190	3/4	144,175
7	9,390	7	24,410	7	39,423	7	54,432	7	69,451	7	84,471	7	99,491	7	114,503	7	129,503	7	144,482
1/4	9,703	1/4	24,723	1/4	39,735	1/4	54,744	1/4	69,764	1/4	84,784	1/4	99,804	1/4	114,815	1/4	129,815	1/4	144,778
1/2	10,016	1/2	25,036	1/2	40,047	1/2	55,057	1/2	70,077	1/2	85,097	1/2	100,117	1/2	115,128	1/2	130,128	1/2	145,073
3/4	10,329	3/4	25,349	3/4	40,360	3/4	55,370	3/4	70,390	3/4	85,410	3/4	100,430	3/4	115,440	3/4	130,440	3/4	145,369
8	10,642	8	25,662	8	40,672	8	55,683	8	70,703	8	85,723	8	100,743	8	115,753	8	130,753	8	145,664
1/4	10,955	1/4	25,974	1/4	40,985	1/4	55,996	1/4	71,016	1/4	86,036	1/4	101,056	1/4	116,065	1/4	131,065	1/4	145,943
1/2	11,268	1/2	26,287	1/2	41,297	1/2	56,309	1/2	71,329	1/2	86,349	1/2	101,369	1/2	116,378	1/2	131,378	1/2	146,223
3/4	11,581	3/4	26,600	3/4	41,610	3/4	56,622	3/4	71,642	3/4	86,662	3/4	101,682	3/4	116,690	3/4	131,690	3/4	146,502
9	11,894	9	26,913	9	41,922	9	56,935	9	71,955	9	86,975	9	101,995	9	117,003	9	132,003	9	146,781
1/4	12,207	1/4	27,226	1/4	42,234	1/4	57,248	1/4	72,268	1/4	87,288	1/4	102,308	1/4	117,315	1/4	132,315	1/4	147,044
1/2	12,520	1/2	27,539	1/2	42,547	1/2	57,561	1/2	72,581	1/2	87,601	1/2	102,620	1/2	117,628	1/2	132,628	1/2	147,308
3/4	12,832	3/4	27,852	3/4	42,859	3/4	57,874	3/4	72,894	3/4	87,913	3/4	102,933	3/4	117,940	3/4	132,940	3/4	147,571
10	13,145	10	28,165	10	43,172	10	58,186	10	73,206	10	88,226	10	103,246	10	118,253	10	133,253	10	147,834
1/4	13,458	1/4	28,478	1/4	43,484	1/4	58,499	1/4	73,519	1/4	88,539	1/4	103,559	1/4	118,565	1/4	133,565	1/4	148,082
1/2	13,771	1/2	28,791	1/2	43,796	1/2	58,812	1/2	73,832	1/2	88,852	1/2	103,872	1/2	118,878	1/2	133,878	1/2	148,329
3/4	14,084	3/4	29,104	3/4	44,109	3/4	59,125	3/4	74,145	3/4	89,165	3/4	104,185	3/4	119,190	3/4	134,190	3/4	148,576
11	14,397	11	29,416	11	44,421	11	59,438	11	74,458	11	89,478	11	104,498	11	119,503	11	134,503	11	148,824
1/4	14,710	1/4	29,729	1/4	44,734	1/4	59,751	1/4	74,771	1/4	89,791	1/4	104,811	1/4	119,815	1/4	134,815	1/4	149,055
1/2	15,023	1/2	30,042	1/2	45,046	1/2	60,064	1/2	75,084	1/2	90,104	1/2	105,124	1/2	120,128	1/2	135,128	1/2	149,286
3/4	15,336	3/4	30,355	3/4	45,359	3/4	60,377	3/4	75,397	3/4	90,417	3/4	105,437	3/4	120,440	3/4	135,440	3/4	149,517

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 INNAGE 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 3024"

## 3 STBD INNAGE 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	149,749	0	160,132	0	170,494	0	180,827	0	191,146	0		0		0		0		0	
1/4	149,968	1/4	160,348	1/4	170,709	1/4	181,042	1/4	191,339	1/4		1/4		1/4		1/4		1/4	
1/2	150,188	1/2	160,564	1/2	170,925	1/2	181,258	1/2	191,532	1/2		1/2		1/2		1/2		1/2	
3/4	150,407	3/4	160,780	3/4	171,140	3/4	181,473	3/4	191,725	3/4		3/4		3/4		3/4		3/4	
1	150,627	1	160,996	1	171,355	1	181,688	1	191,918	1		1		1		1		1	
1/4	150,843	1/4	161,212	1/4	171,571	1/4	181,903	1/4	192,078	1/4		1/4		1/4		1/4		1/4	
1/2	151,059	1/2	161,428	1/2	171,786	1/2	182,119	1/2	192,237	1/2		1/2		1/2		1/2		1/2	
3/4	151,275	3/4	161,644	3/4	172,001	3/4	182,334	3/4	192,397	3/4		3/4		3/4		3/4		3/4	
2	151,491	2	161,861	2	172,216	2	182,549	2	192,557	2		2		2		2		2	
1/4	151,707	1/4	162,077	1/4	172,432	1/4	182,765	1/4	192,680	1/4		1/4		1/4		1/4		1/4	
1/2	151,923	1/2	162,293	1/2	172,647	1/2	182,980	1/2	192,804	1/2		1/2		1/2		1/2		1/2	
3/4	152,139	3/4	162,509	3/4	172,862	3/4	183,195	3/4	192,928	3/4		3/4		3/4		3/4		3/4	
3	152,355	3	162,725	3	173,077	3	183,410	3	193,051	3		3		3		3		3	
1/4	152,571	1/4	162,941	1/4	173,293	1/4	183,626	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,787	1/2	163,157	1/2	173,508	1/2	183,841	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,003	3/4	163,373	3/4	173,723	3/4	184,056	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,219	4	163,589	4	173,938	4	184,271	4		4		4		4		4		4	
1/4	153,435	1/4	163,805	1/4	174,154	1/4	184,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,651	1/2	164,021	1/2	174,369	1/2	184,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,867	3/4	164,237	3/4	174,584	3/4	184,917	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,083	5	164,453	5	174,800	5	185,133	5		5		5		5		5		5	
1/4	154,299	1/4	164,669	1/4	175,015	1/4	185,348	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,515	1/2	164,885	1/2	175,230	1/2	185,563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,731	3/4	165,101	3/4	175,445	3/4	185,778	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,948	6	165,317	6	175,661	6	185,994	6		6		6		6		6		6	
1/4	155,164	1/4	165,533	1/4	175,876	1/4	186,209	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,380	1/2	165,749	1/2	176,091	1/2	186,424	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,596	3/4	165,965	3/4	176,306	3/4	186,639	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,812	7	166,181	7	176,522	7	186,855	7		7		7		7		7		7	
1/4	156,028	1/4	166,397	1/4	176,737	1/4	187,070	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,244	1/2	166,613	1/2	176,952	1/2	187,285	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,460	3/4	166,829	3/4	177,168	3/4	187,501	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,676	8	167,045	8	177,383	8	187,716	8		8		8		8		8		8	
1/4	156,892	1/4	167,261	1/4	177,598	1/4	187,931	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,108	1/2	167,477	1/2	177,813	1/2	188,147	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,324	3/4	167,693	3/4	178,029	3/4	188,362	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,540	9	167,909	9	178,244	9	188,578	9		9		9		9		9		9	
1/4	157,756	1/4	168,125	1/4	178,459	1/4	188,793	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,972	1/2	168,341	1/2	178,674	1/2	189,008	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,188	3/4	168,556	3/4	178,890	3/4	189,224	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,404	10	168,772	10	179,105	10	189,439	10		10		10		10		10		10	
1/4	158,620	1/4	168,987	1/4	179,320	1/4	189,654	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,836	1/2	169,203	1/2	179,536	1/2	189,869	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,052	3/4	169,418	3/4	179,751	3/4	190,084	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,268	11	169,633	11	179,966	11	190,299	11		11		11		11		11		11	
1/4	159,484	1/4	169,848	1/4	180,181	1/4	190,511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,700	1/2	170,064	1/2	180,397	1/2	190,722	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,916	3/4	170,279	3/4	180,612	3/4	190,934	3/4		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 INNAGE 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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1	1	1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2	2	2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3	3	3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4	4	4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5	5	5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6	6	6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7	7	7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8	8	8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9	9	9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10	10	10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11	11	11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4	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  
<http://www.pmacorp.net>



# BARGE "HSM 3024"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE 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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4		3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1		1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4		3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2		2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4		3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3		3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4		3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4		4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4		3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5		5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6		6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7		7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8		8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9		9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10		10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11		11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		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  
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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

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& ANALYSIS, INC.

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





# BARGE "HSM 3024"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 4'-06"

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	99	0	254	0	406	0		0		0		0		0		0	
1/4	1	1/4	102	1/4	257	1/4	409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	105	1/2	260	1/2	411	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	108	3/4	264	3/4	414	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	111	1	267	1	417	1		1		1		1		1		1	
1/4	4	1/4	114	1/4	270	1/4	420	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	117	1/2	274	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	120	3/4	277	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	123	2	280	2	428	2		2		2		2		2		2	
1/4	9	1/4	126	1/4	284	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	130	1/2	287	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	133	3/4	290	3/4	435	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	136	3	294	3	438	3		3		3		3		3		3	
1/4	15	1/4	139	1/4	297	1/4	441	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	142	1/2	300	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	145	3/4	303	3/4	445	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	148	4	307	4	448	4		4		4		4		4		4	
1/4	22	1/4	152	1/4	310	1/4	450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	155	1/2	313	1/2	452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	158	3/4	317	3/4	455	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	161	5	320	5	457	5		5		5		5		5		5	
1/4	30	1/4	164	1/4	323	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	32	1/2	168	1/2	326	1/2	461	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	171	3/4	330	3/4	464	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	174	6	333	6	466	6		6		6		6		6		6	
1/4	39	1/4	177	1/4	336	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	181	1/2	339	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	184	3/4	342	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	187	7	346	7	474	7		7		7		7		7		7	
1/4	48	1/4	190	1/4	349	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	194	1/2	352	1/2	477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	197	3/4	355	3/4	479	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	200	8	358	8	481	8		8		8		8		8		8	
1/4	58	1/4	204	1/4	361	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	207	1/2	364	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	210	3/4	367	3/4	485	3/4		3/4		3/4		3/4		3/4		3/4	
9	66	9	214	9	370	9	487	9		9		9		9		9		9	
1/4	69	1/4	217	1/4	373	1/4	488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	220	1/2	376	1/2	489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	224	3/4	380	3/4	490	3/4		3/4		3/4		3/4		3/4		3/4	
10	77	10	227	10	383	10	491	10		10		10		10		10		10	
1/4	80	1/4	230	1/4	386	1/4	492	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	234	1/2	388	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	85	3/4	237	3/4	391	3/4	493	3/4		3/4		3/4		3/4		3/4		3/4	
11	88	11	240	11	394	11	494	11		11		11		11		11		11	
1/4	91	1/4	244	1/4	397	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	247	1/2	400	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	97	3/4	250	3/4	403	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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