



# BARGE "HSM 3028"

## 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	00-1/8	- 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 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	00-1/4	- 00-1/4	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	00-1/4	- 00-1/4	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 - 00-1/4"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 19, 2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3028"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 19, 2019

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# BARGE "HSM 3028"

## 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	13,264	0	28,205	0	43,242	0	58,217	0	73,212	0	88,249	0	103,287	0	118,320	0	133,351
1/4	563	1/4	13,566	1/4	28,518	1/4	43,555	1/4	58,528	1/4	73,525	1/4	88,563	1/4	103,600	1/4	118,633	1/4	133,664
1/2	740	1/2	13,868	1/2	28,831	1/2	43,868	1/2	58,839	1/2	73,839	1/2	88,876	1/2	103,913	1/2	118,946	1/2	133,977
3/4	917	3/4	14,169	3/4	29,145	3/4	44,182	3/4	59,150	3/4	74,152	3/4	89,189	3/4	104,227	3/4	119,259	3/4	134,290
1	1,094	1	14,471	1	29,458	1	44,495	1	59,461	1	74,465	1	89,503	1	104,540	1	119,572	1	134,603
1/4	1,333	1/4	14,777	1/4	29,771	1/4	44,808	1/4	59,772	1/4	74,778	1/4	89,816	1/4	104,853	1/4	119,886	1/4	134,917
1/2	1,572	1/2	15,082	1/2	30,084	1/2	45,122	1/2	60,083	1/2	75,092	1/2	90,129	1/2	105,167	1/2	120,199	1/2	135,230
3/4	1,811	3/4	15,388	3/4	30,398	3/4	45,435	3/4	60,394	3/4	75,405	3/4	90,442	3/4	105,480	3/4	120,512	3/4	135,543
2	2,050	2	15,693	2	30,711	2	45,748	2	60,705	2	75,718	2	90,756	2	105,793	2	120,825	2	135,856
1/4	2,312	1/4	16,003	1/4	31,024	1/4	46,061	1/4	61,015	1/4	76,031	1/4	91,069	1/4	106,106	1/4	121,138	1/4	136,169
1/2	2,574	1/2	16,312	1/2	31,338	1/2	46,375	1/2	61,326	1/2	76,345	1/2	91,382	1/2	106,420	1/2	121,451	1/2	136,482
3/4	2,836	3/4	16,622	3/4	31,651	3/4	46,688	3/4	61,637	3/4	76,658	3/4	91,696	3/4	106,733	3/4	121,764	3/4	136,795
3	3,098	3	16,931	3	31,964	3	47,001	3	61,948	3	76,971	3	92,009	3	107,046	3	122,078	3	137,109
1/4	3,365	1/4	17,243	1/4	32,277	1/4	47,314	1/4	62,259	1/4	77,285	1/4	92,322	1/4	107,360	1/4	122,391	1/4	137,422
1/2	3,632	1/2	17,556	1/2	32,591	1/2	47,628	1/2	62,571	1/2	77,598	1/2	92,635	1/2	107,673	1/2	122,704	1/2	137,735
3/4	3,898	3/4	17,868	3/4	32,904	3/4	47,941	3/4	62,882	3/4	77,911	3/4	92,949	3/4	107,986	3/4	123,017	3/4	138,048
4	4,165	4	18,180	4	33,217	4	48,254	4	63,193	4	78,224	4	93,262	4	108,299	4	123,330	4	138,361
1/4	4,436	1/4	18,493	1/4	33,530	1/4	48,567	1/4	63,505	1/4	78,538	1/4	93,575	1/4	108,612	1/4	123,643	1/4	138,674
1/2	4,707	1/2	18,807	1/2	33,844	1/2	48,879	1/2	63,817	1/2	78,851	1/2	93,889	1/2	108,925	1/2	123,956	1/2	138,987
3/4	4,978	3/4	19,120	3/4	34,157	3/4	49,192	3/4	64,129	3/4	79,164	3/4	94,202	3/4	109,239	3/4	124,270	3/4	139,301
5	5,248	5	19,433	5	34,470	5	49,504	5	64,441	5	79,478	5	94,515	5	109,552	5	124,583	5	139,614
1/4	5,523	1/4	19,747	1/4	34,784	1/4	49,816	1/4	64,754	1/4	79,791	1/4	94,828	1/4	109,865	1/4	124,896	1/4	139,927
1/2	5,798	1/2	20,060	1/2	35,097	1/2	50,128	1/2	65,067	1/2	80,104	1/2	95,142	1/2	110,178	1/2	125,209	1/2	140,240
3/4	6,073	3/4	20,373	3/4	35,410	3/4	50,440	3/4	65,380	3/4	80,417	3/4	95,455	3/4	110,491	3/4	125,522	3/4	140,553
6	6,347	6	20,686	6	35,723	6	50,752	6	65,693	6	80,731	6	95,768	6	110,804	6	125,835	6	140,866
1/4	6,626	1/4	21,000	1/4	36,037	1/4	51,063	1/4	66,006	1/4	81,044	1/4	96,081	1/4	111,117	1/4	126,148	1/4	141,179
1/2	6,904	1/2	21,313	1/2	36,350	1/2	51,375	1/2	66,320	1/2	81,357	1/2	96,395	1/2	111,431	1/2	126,462	1/2	141,493
3/4	7,183	3/4	21,626	3/4	36,663	3/4	51,687	3/4	66,633	3/4	81,671	3/4	96,708	3/4	111,744	3/4	126,775	3/4	141,806
7	7,462	7	21,939	7	36,976	7	51,998	7	66,946	7	81,984	7	97,021	7	112,057	7	127,088	7	142,119
1/4	7,744	1/4	22,253	1/4	37,290	1/4	52,309	1/4	67,260	1/4	82,297	1/4	97,335	1/4	112,370	1/4	127,401	1/4	142,432
1/2	8,026	1/2	22,566	1/2	37,603	1/2	52,620	1/2	67,573	1/2	82,610	1/2	97,648	1/2	112,683	1/2	127,714	1/2	142,745
3/4	8,309	3/4	22,879	3/4	37,916	3/4	52,932	3/4	67,886	3/4	82,924	3/4	97,961	3/4	112,996	3/4	128,027	3/4	143,058
8	8,591	8	23,192	8	38,230	8	53,243	8	68,199	8	83,237	8	98,274	8	113,309	8	128,340	8	143,371
1/4	8,878	1/4	23,506	1/4	38,543	1/4	53,554	1/4	68,513	1/4	83,550	1/4	98,588	1/4	113,623	1/4	128,654	1/4	143,685
1/2	9,164	1/2	23,819	1/2	38,856	1/2	53,865	1/2	68,826	1/2	83,864	1/2	98,901	1/2	113,936	1/2	128,967	1/2	143,998
3/4	9,450	3/4	24,132	3/4	39,169	3/4	54,175	3/4	69,139	3/4	84,177	3/4	99,214	3/4	114,249	3/4	129,280	3/4	144,311
9	9,736	9	24,446	9	39,483	9	54,486	9	69,453	9	84,490	9	99,528	9	114,562	9	129,593	9	144,624
1/4	10,026	1/4	24,759	1/4	39,796	1/4	54,797	1/4	69,766	1/4	84,803	1/4	99,841	1/4	114,875	1/4	129,906	1/4	144,937
1/2	10,317	1/2	25,072	1/2	40,109	1/2	55,108	1/2	70,079	1/2	85,117	1/2	100,154	1/2	115,188	1/2	130,219	1/2	145,250
3/4	10,607	3/4	25,385	3/4	40,422	3/4	55,419	3/4	70,392	3/4	85,430	3/4	100,467	3/4	115,502	3/4	130,532	3/4	145,563
10	10,897	10	25,699	10	40,736	10	55,730	10	70,706	10	85,743	10	100,781	10	115,815	10	130,846	10	145,877
1/4	11,191	1/4	26,012	1/4	41,049	1/4	56,041	1/4	71,019	1/4	86,056	1/4	101,094	1/4	116,128	1/4	131,159	1/4	146,190
1/2	11,485	1/2	26,325	1/2	41,362	1/2	56,352	1/2	71,332	1/2	86,370	1/2	101,407	1/2	116,441	1/2	131,472	1/2	146,503
3/4	11,779	3/4	26,638	3/4	41,676	3/4	56,663	3/4	71,646	3/4	86,683	3/4	101,721	3/4	116,754	3/4	131,785	3/4	146,816
11	12,073	11	26,952	11	41,989	11	56,974	11	71,959	11	86,996	11	102,034	11	117,067	11	132,098	11	147,129
1/4	12,371	1/4	27,265	1/4	42,302	1/4	57,285	1/4	72,272	1/4	87,310	1/4	102,347	1/4	117,380	1/4	132,411	1/4	147,442
1/2	12,669	1/2	27,578	1/2	42,615	1/2	57,595	1/2	72,585	1/2	87,623	1/2	102,660	1/2	117,694	1/2	132,725	1/2	147,755
3/4	12,966	3/4	27,892	3/4	42,929	3/4	57,906	3/4	72,899	3/4	87,936	3/4	102,974	3/4	118,007	3/4	133,038	3/4	148,069

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 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 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	148,382	0	163,413	0	178,435	0	193,422	0	208,336	0		0		0		0		0	
1/4	148,695	1/4	163,726	1/4	178,747	1/4	193,734	1/4	208,617	1/4		1/4		1/4		1/4		1/4	
1/2	149,008	1/2	164,039	1/2	179,059	1/2	194,046	1/2	208,897	1/2		1/2		1/2		1/2		1/2	
3/4	149,321	3/4	164,352	3/4	179,371	3/4	194,358	3/4	209,177	3/4		3/4		3/4		3/4		3/4	
1	149,634	1	164,665	1	179,684	1	194,671	1	209,458	1		1		1		1		1	
1/4	149,948	1/4	164,978	1/4	179,996	1/4	194,983	1/4	209,690	1/4		1/4		1/4		1/4		1/4	
1/2	150,261	1/2	165,292	1/2	180,308	1/2	195,295	1/2	209,922	1/2		1/2		1/2		1/2		1/2	
3/4	150,574	3/4	165,605	3/4	180,620	3/4	195,607	3/4	210,154	3/4		3/4		3/4		3/4		3/4	
2	150,887	2	165,918	2	180,932	2	195,920	2	210,385	2		2		2		2		2	
1/4	151,200	1/4	166,231	1/4	181,245	1/4	196,232	1/4	210,565	1/4		1/4		1/4		1/4		1/4	
1/2	151,513	1/2	166,544	1/2	181,557	1/2	196,544	1/2	210,745	1/2		1/2		1/2		1/2		1/2	
3/4	151,826	3/4	166,857	3/4	181,869	3/4	196,856	3/4	210,925	3/4		3/4		3/4		3/4		3/4	
3	152,140	3	167,171	3	182,181	3	197,169	3	211,104	3		3		3		3		3	
1/4	152,453	1/4	167,484	1/4	182,494	1/4	197,481	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,766	1/2	167,797	1/2	182,806	1/2	197,793	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,079	3/4	168,110	3/4	183,118	3/4	198,105	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,392	4	168,423	4	183,430	4	198,417	4		4		4		4		4		4	
1/4	153,705	1/4	168,736	1/4	183,743	1/4	198,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,018	1/2	169,049	1/2	184,055	1/2	199,042	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,332	3/4	169,363	3/4	184,367	3/4	199,354	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,645	5	169,676	5	184,679	5	199,666	5		5		5		5		5		5	
1/4	154,958	1/4	169,989	1/4	184,991	1/4	199,978	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,271	1/2	170,302	1/2	185,304	1/2	200,289	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,584	3/4	170,615	3/4	185,616	3/4	200,600	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,897	6	170,928	6	185,928	6	200,911	6		6		6		6		6		6	
1/4	156,210	1/4	171,241	1/4	186,240	1/4	201,221	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,524	1/2	171,555	1/2	186,553	1/2	201,531	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,837	3/4	171,868	3/4	186,865	3/4	201,841	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,150	7	172,181	7	187,177	7	202,151	7		7		7		7		7		7	
1/4	157,463	1/4	172,494	1/4	187,489	1/4	202,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,776	1/2	172,807	1/2	187,802	1/2	202,772	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,089	3/4	173,120	3/4	188,114	3/4	203,082	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,402	8	173,433	8	188,426	8	203,392	8		8		8		8		8		8	
1/4	158,716	1/4	173,747	1/4	188,738	1/4	203,702	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,029	1/2	174,060	1/2	189,050	1/2	204,012	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,342	3/4	174,373	3/4	189,363	3/4	204,323	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,655	9	174,686	9	189,675	9	204,633	9		9		9		9		9		9	
1/4	159,968	1/4	174,999	1/4	189,987	1/4	204,943	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,281	1/2	175,311	1/2	190,299	1/2	205,253	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,594	3/4	175,624	3/4	190,612	3/4	205,563	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,908	10	175,937	10	190,924	10	205,873	10		10		10		10		10		10	
1/4	161,221	1/4	176,249	1/4	191,236	1/4	206,183	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,534	1/2	176,561	1/2	191,548	1/2	206,493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,847	3/4	176,873	3/4	191,861	3/4	206,803	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,160	11	177,186	11	192,173	11	207,112	11		11		11		11		11		11	
1/4	162,473	1/4	177,498	1/4	192,485	1/4	207,418	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,786	1/2	177,810	1/2	192,797	1/2	207,724	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,100	3/4	178,122	3/4	193,110	3/4	208,030	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

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



# BARGE "HSM 3028"

## 1 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	386	0	13,261	0	28,198	0	43,231	0	58,259	0	73,290	0	88,324	0	103,357	0	118,386	0	133,413
1/4	563	1/4	13,562	1/4	28,511	1/4	43,544	1/4	58,572	1/4	73,603	1/4	88,637	1/4	103,670	1/4	118,699	1/4	133,726
1/2	740	1/2	13,864	1/2	28,824	1/2	43,857	1/2	58,885	1/2	73,916	1/2	88,950	1/2	103,984	1/2	119,012	1/2	134,039
3/4	917	3/4	14,166	3/4	29,137	3/4	44,170	3/4	59,198	3/4	74,230	3/4	89,263	3/4	104,297	3/4	119,325	3/4	134,352
1	1,094	1	14,467	1	29,450	1	44,483	1	59,511	1	74,543	1	89,576	1	104,610	1	119,638	1	134,665
1/4	1,333	1/4	14,773	1/4	29,763	1/4	44,797	1/4	59,824	1/4	74,856	1/4	89,890	1/4	104,923	1/4	119,951	1/4	134,978
1/2	1,571	1/2	15,078	1/2	30,077	1/2	45,110	1/2	60,137	1/2	75,169	1/2	90,203	1/2	105,236	1/2	120,264	1/2	135,291
3/4	1,810	3/4	15,384	3/4	30,390	3/4	45,423	3/4	60,450	3/4	75,482	3/4	90,516	3/4	105,550	3/4	120,578	3/4	135,605
2	2,049	2	15,689	2	30,703	2	45,736	2	60,763	2	75,796	2	90,829	2	105,863	2	120,891	2	135,918
1/4	2,311	1/4	15,999	1/4	31,016	1/4	46,049	1/4	61,076	1/4	76,109	1/4	91,142	1/4	106,176	1/4	121,204	1/4	136,231
1/2	2,573	1/2	16,308	1/2	31,329	1/2	46,363	1/2	61,389	1/2	76,422	1/2	91,456	1/2	106,489	1/2	121,517	1/2	136,544
3/4	2,835	3/4	16,617	3/4	31,643	3/4	46,676	3/4	61,702	3/4	76,735	3/4	91,769	3/4	106,802	3/4	121,830	3/4	136,857
3	3,098	3	16,927	3	31,956	3	46,989	3	62,015	3	77,048	3	92,082	3	107,116	3	122,143	3	137,170
1/4	3,364	1/4	17,239	1/4	32,269	1/4	47,302	1/4	62,328	1/4	77,362	1/4	92,395	1/4	107,429	1/4	122,456	1/4	137,483
1/2	3,631	1/2	17,551	1/2	32,582	1/2	47,615	1/2	62,641	1/2	77,675	1/2	92,708	1/2	107,742	1/2	122,769	1/2	137,796
3/4	3,898	3/4	17,863	3/4	32,895	3/4	47,928	3/4	62,955	3/4	77,988	3/4	93,022	3/4	108,055	3/4	123,082	3/4	138,109
4	4,164	4	18,175	4	33,209	4	48,242	4	63,268	4	78,301	4	93,335	4	108,368	4	123,395	4	138,422
1/4	4,435	1/4	18,489	1/4	33,522	1/4	48,555	1/4	63,581	1/4	78,614	1/4	93,648	1/4	108,681	1/4	123,708	1/4	138,735
1/2	4,706	1/2	18,802	1/2	33,835	1/2	48,868	1/2	63,894	1/2	78,928	1/2	93,961	1/2	108,994	1/2	124,021	1/2	139,048
3/4	4,976	3/4	19,115	3/4	34,148	3/4	49,181	3/4	64,207	3/4	79,241	3/4	94,274	3/4	109,307	3/4	124,334	3/4	139,361
5	5,247	5	19,428	5	34,461	5	49,494	5	64,521	5	79,554	5	94,588	5	109,620	5	124,647	5	139,674
1/4	5,522	1/4	19,741	1/4	34,775	1/4	49,808	1/4	64,834	1/4	79,867	1/4	94,901	1/4	109,933	1/4	124,960	1/4	139,987
1/2	5,796	1/2	20,055	1/2	35,088	1/2	50,121	1/2	65,147	1/2	80,180	1/2	95,214	1/2	110,246	1/2	125,273	1/2	140,301
3/4	6,071	3/4	20,368	3/4	35,401	3/4	50,434	3/4	65,460	3/4	80,494	3/4	95,527	3/4	110,559	3/4	125,587	3/4	140,614
6	6,346	6	20,681	6	35,714	6	50,747	6	65,773	6	80,807	6	95,840	6	110,873	6	125,900	6	140,927
1/4	6,624	1/4	20,994	1/4	36,027	1/4	51,060	1/4	66,086	1/4	81,120	1/4	96,154	1/4	111,186	1/4	126,213	1/4	141,240
1/2	6,903	1/2	21,307	1/2	36,340	1/2	51,373	1/2	66,400	1/2	81,433	1/2	96,467	1/2	111,499	1/2	126,526	1/2	141,553
3/4	7,181	3/4	21,621	3/4	36,654	3/4	51,687	3/4	66,713	3/4	81,746	3/4	96,780	3/4	111,812	3/4	126,839	3/4	141,866
7	7,460	7	21,934	7	36,967	7	52,000	7	67,026	7	82,060	7	97,093	7	112,125	7	127,152	7	142,179
1/4	7,742	1/4	22,247	1/4	37,280	1/4	52,313	1/4	67,339	1/4	82,373	1/4	97,406	1/4	112,438	1/4	127,465	1/4	142,492
1/2	8,024	1/2	22,560	1/2	37,593	1/2	52,626	1/2	67,652	1/2	82,686	1/2	97,720	1/2	112,751	1/2	127,778	1/2	142,805
3/4	8,307	3/4	22,873	3/4	37,906	3/4	52,939	3/4	67,966	3/4	82,999	3/4	98,033	3/4	113,064	3/4	128,091	3/4	143,118
8	8,589	8	23,187	8	38,220	8	53,252	8	68,279	8	83,312	8	98,346	8	113,377	8	128,404	8	143,431
1/4	8,875	1/4	23,500	1/4	38,533	1/4	53,565	1/4	68,592	1/4	83,626	1/4	98,659	1/4	113,690	1/4	128,717	1/4	143,744
1/2	9,162	1/2	23,813	1/2	38,846	1/2	53,878	1/2	68,905	1/2	83,939	1/2	98,972	1/2	114,003	1/2	129,030	1/2	144,057
3/4	9,448	3/4	24,126	3/4	39,159	3/4	54,191	3/4	69,218	3/4	84,252	3/4	99,286	3/4	114,316	3/4	129,343	3/4	144,370
9	9,734	9	24,439	9	39,472	9	54,504	9	69,532	9	84,565	9	99,599	9	114,629	9	129,656	9	144,684
1/4	10,024	1/4	24,752	1/4	39,786	1/4	54,817	1/4	69,845	1/4	84,878	1/4	99,912	1/4	114,942	1/4	129,969	1/4	144,997
1/2	10,314	1/2	25,066	1/2	40,099	1/2	55,130	1/2	70,158	1/2	85,192	1/2	100,225	1/2	115,255	1/2	130,282	1/2	145,310
3/4	10,604	3/4	25,379	3/4	40,412	3/4	55,443	3/4	70,471	3/4	85,505	3/4	100,538	3/4	115,568	3/4	130,596	3/4	145,623
10	10,894	10	25,692	10	40,725	10	55,756	10	70,784	10	85,818	10	100,852	10	115,882	10	130,909	10	145,936
1/4	11,188	1/4	26,005	1/4	41,038	1/4	56,069	1/4	71,098	1/4	86,131	1/4	101,165	1/4	116,195	1/4	131,222	1/4	146,249
1/2	11,482	1/2	26,318	1/2	41,351	1/2	56,381	1/2	71,411	1/2	86,444	1/2	101,478	1/2	116,508	1/2	131,535	1/2	146,562
3/4	11,776	3/4	26,632	3/4	41,665	3/4	56,694	3/4	71,724	3/4	86,758	3/4	101,791	3/4	116,821	3/4	131,848	3/4	146,875
11	12,070	11	26,945	11	41,978	11	57,007	11	72,037	11	87,071	11	102,104	11	117,134	11	132,161	11	147,188
1/4	12,368	1/4	27,258	1/4	42,291	1/4	57,320	1/4	72,350	1/4	87,384	1/4	102,418	1/4	117,447	1/4	132,474	1/4	147,501
1/2	12,665	1/2	27,571	1/2	42,604	1/2	57,633	1/2	72,664	1/2	87,697	1/2	102,731	1/2	117,760	1/2	132,787	1/2	147,814
3/4	12,963	3/4	27,884	3/4	42,917	3/4	57,946	3/4	72,977	3/4	88,010	3/4	103,044	3/4	118,073	3/4	133,100	3/4	148,127

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 42'-06" FORWARD OF AFT BULKHEAD  
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HSM 3028"

## 1 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	148,440	0	163,468	0	178,486	0	193,469	0	208,380	0		0		0		0		0	
1/4	148,753	1/4	163,781	1/4	178,798	1/4	193,781	1/4	208,661	1/4		1/4		1/4		1/4		1/4	
1/2	149,066	1/2	164,094	1/2	179,110	1/2	194,094	1/2	208,941	1/2		1/2		1/2		1/2		1/2	
3/4	149,380	3/4	164,407	3/4	179,422	3/4	194,406	3/4	209,221	3/4		3/4		3/4		3/4		3/4	
1	149,693	1	164,720	1	179,734	1	194,718	1	209,501	1		1		1		1		1	
1/4	150,006	1/4	165,033	1/4	180,047	1/4	195,030	1/4	209,733	1/4		1/4		1/4		1/4		1/4	
1/2	150,319	1/2	165,346	1/2	180,359	1/2	195,342	1/2	209,965	1/2		1/2		1/2		1/2		1/2	
3/4	150,632	3/4	165,659	3/4	180,671	3/4	195,654	3/4	210,197	3/4		3/4		3/4		3/4		3/4	
2	150,945	2	165,972	2	180,983	2	195,966	2	210,429	2		2		2		2		2	
1/4	151,258	1/4	166,285	1/4	181,295	1/4	196,279	1/4	210,608	1/4		1/4		1/4		1/4		1/4	
1/2	151,571	1/2	166,598	1/2	181,607	1/2	196,591	1/2	210,788	1/2		1/2		1/2		1/2		1/2	
3/4	151,884	3/4	166,911	3/4	181,919	3/4	196,903	3/4	210,968	3/4		3/4		3/4		3/4		3/4	
3	152,197	3	167,224	3	182,232	3	197,215	3	211,147	3		3		3		3		3	
1/4	152,510	1/4	167,537	1/4	182,544	1/4	197,527	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,823	1/2	167,851	1/2	182,856	1/2	197,839	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,136	3/4	168,164	3/4	183,168	3/4	198,152	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,449	4	168,477	4	183,480	4	198,464	4		4		4		4		4		4	
1/4	153,762	1/4	168,790	1/4	183,792	1/4	198,776	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,076	1/2	169,103	1/2	184,105	1/2	199,088	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,389	3/4	169,416	3/4	184,417	3/4	199,400	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,702	5	169,729	5	184,729	5	199,712	5		5		5		5		5		5	
1/4	155,015	1/4	170,042	1/4	185,041	1/4	200,023	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,328	1/2	170,355	1/2	185,353	1/2	200,334	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,641	3/4	170,668	3/4	185,665	3/4	200,646	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,954	6	170,981	6	185,977	6	200,957	6		6		6		6		6		6	
1/4	156,267	1/4	171,294	1/4	186,290	1/4	201,267	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,580	1/2	171,607	1/2	186,602	1/2	201,577	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,893	3/4	171,920	3/4	186,914	3/4	201,887	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,206	7	172,234	7	187,226	7	202,197	7		7		7		7		7		7	
1/4	157,519	1/4	172,547	1/4	187,538	1/4	202,507	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,832	1/2	172,860	1/2	187,850	1/2	202,817	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,145	3/4	173,173	3/4	188,163	3/4	203,127	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,459	8	173,486	8	188,475	8	203,437	8		8		8		8		8		8	
1/4	158,772	1/4	173,799	1/4	188,787	1/4	203,747	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,085	1/2	174,112	1/2	189,099	1/2	204,057	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,398	3/4	174,425	3/4	189,411	3/4	204,367	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,711	9	174,738	9	189,723	9	204,678	9		9		9		9		9		9	
1/4	160,024	1/4	175,051	1/4	190,035	1/4	204,988	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,337	1/2	175,363	1/2	190,348	1/2	205,298	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,650	3/4	175,676	3/4	190,660	3/4	205,608	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,963	10	175,989	10	190,972	10	205,918	10		10		10		10		10		10	
1/4	161,276	1/4	176,301	1/4	191,284	1/4	206,227	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,589	1/2	176,613	1/2	191,596	1/2	206,537	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,902	3/4	176,925	3/4	191,908	3/4	206,847	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,215	11	177,237	11	192,221	11	207,156	11		11		11		11		11		11	
1/4	162,528	1/4	177,549	1/4	192,533	1/4	207,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,841	1/2	177,861	1/2	192,845	1/2	207,768	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,155	3/4	178,174	3/4	193,157	3/4	208,074	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
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# BARGE "HSM 3028"

## 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	1,034	0	15,728	0	30,821	0	45,542	0	60,057	0	74,941	0	90,036	0	105,132	0	120,223	0	135,311
1/4	1,269	1/4	16,042	1/4	31,135	1/4	45,844	1/4	60,360	1/4	75,255	1/4	90,351	1/4	105,447	1/4	120,537	1/4	135,625
1/2	1,505	1/2	16,357	1/2	31,450	1/2	46,146	1/2	60,662	1/2	75,570	1/2	90,665	1/2	105,761	1/2	120,851	1/2	135,940
3/4	1,741	3/4	16,671	3/4	31,764	3/4	46,447	3/4	60,965	3/4	75,884	3/4	90,980	3/4	106,076	3/4	121,166	3/4	136,254
1	1,977	1	16,986	1	32,079	1	46,749	1	61,268	1	76,199	1	91,294	1	106,390	1	121,480	1	136,568
1/4	2,271	1/4	17,300	1/4	32,393	1/4	47,051	1/4	61,570	1/4	76,513	1/4	91,609	1/4	106,705	1/4	121,795	1/4	136,883
1/2	2,565	1/2	17,615	1/2	32,708	1/2	47,353	1/2	61,873	1/2	76,828	1/2	91,923	1/2	107,019	1/2	122,109	1/2	137,197
3/4	2,859	3/4	17,929	3/4	33,022	3/4	47,654	3/4	62,176	3/4	77,142	3/4	92,238	3/4	107,334	3/4	122,423	3/4	137,511
2	3,153	2	18,243	2	33,337	2	47,956	2	62,479	2	77,457	2	92,552	2	107,648	2	122,738	2	137,826
1/4	3,467	1/4	18,558	1/4	33,651	1/4	48,258	1/4	62,781	1/4	77,771	1/4	92,867	1/4	107,963	1/4	123,052	1/4	138,140
1/2	3,780	1/2	18,872	1/2	33,966	1/2	48,560	1/2	63,084	1/2	78,086	1/2	93,181	1/2	108,277	1/2	123,366	1/2	138,455
3/4	4,094	3/4	19,187	3/4	34,280	3/4	48,862	3/4	63,387	3/4	78,400	3/4	93,496	3/4	108,592	3/4	123,681	3/4	138,769
3	4,407	3	19,501	3	34,595	3	49,164	3	63,689	3	78,714	3	93,810	3	108,906	3	123,995	3	139,083
1/4	4,721	1/4	19,816	1/4	34,909	1/4	49,466	1/4	63,992	1/4	79,029	1/4	94,125	1/4	109,221	1/4	124,309	1/4	139,398
1/2	5,036	1/2	20,130	1/2	35,224	1/2	49,768	1/2	64,295	1/2	79,343	1/2	94,439	1/2	109,535	1/2	124,624	1/2	139,712
3/4	5,350	3/4	20,445	3/4	35,538	3/4	50,070	3/4	64,597	3/4	79,658	3/4	94,754	3/4	109,850	3/4	124,938	3/4	140,026
4	5,664	4	20,759	4	35,853	4	50,372	4	64,900	4	79,972	4	95,068	4	110,164	4	125,252	4	140,341
1/4	5,979	1/4	21,074	1/4	36,161	1/4	50,674	1/4	65,209	1/4	80,287	1/4	95,383	1/4	110,478	1/4	125,567	1/4	140,655
1/2	6,293	1/2	21,388	1/2	36,470	1/2	50,976	1/2	65,517	1/2	80,601	1/2	95,697	1/2	110,793	1/2	125,881	1/2	140,969
3/4	6,607	3/4	21,703	3/4	36,778	3/4	51,279	3/4	65,826	3/4	80,916	3/4	96,012	3/4	111,107	3/4	126,195	3/4	141,284
5	6,922	5	22,017	5	37,087	5	51,581	5	66,135	5	81,230	5	96,326	5	111,421	5	126,510	5	141,598
1/4	7,236	1/4	22,332	1/4	37,390	1/4	51,884	1/4	66,449	1/4	81,545	1/4	96,641	1/4	111,736	1/4	126,824	1/4	141,912
1/2	7,551	1/2	22,646	1/2	37,692	1/2	52,186	1/2	66,764	1/2	81,859	1/2	96,955	1/2	112,050	1/2	127,138	1/2	142,227
3/4	7,865	3/4	22,961	3/4	37,995	3/4	52,489	3/4	67,078	3/4	82,174	3/4	97,270	3/4	112,364	3/4	127,453	3/4	142,541
6	8,180	6	23,275	6	38,298	6	52,792	6	67,393	6	82,488	6	97,584	6	112,679	6	127,767	6	142,855
1/4	8,494	1/4	23,590	1/4	38,600	1/4	53,095	1/4	67,707	1/4	82,803	1/4	97,899	1/4	112,993	1/4	128,081	1/4	143,170
1/2	8,809	1/2	23,904	1/2	38,902	1/2	53,397	1/2	68,022	1/2	83,117	1/2	98,213	1/2	113,307	1/2	128,396	1/2	143,484
3/4	9,123	3/4	24,219	3/4	39,204	3/4	53,700	3/4	68,336	3/4	83,432	3/4	98,528	3/4	113,622	3/4	128,710	3/4	143,798
7	9,438	7	24,533	7	39,507	7	54,003	7	68,651	7	83,746	7	98,842	7	113,936	7	129,024	7	144,113
1/4	9,752	1/4	24,848	1/4	39,808	1/4	54,305	1/4	68,965	1/4	84,061	1/4	99,157	1/4	114,250	1/4	129,339	1/4	144,427
1/2	10,067	1/2	25,162	1/2	40,110	1/2	54,608	1/2	69,280	1/2	84,375	1/2	99,471	1/2	114,565	1/2	129,653	1/2	144,741
3/4	10,381	3/4	25,477	3/4	40,412	3/4	54,911	3/4	69,594	3/4	84,690	3/4	99,786	3/4	114,879	3/4	129,967	3/4	145,056
8	10,696	8	25,791	8	40,714	8	55,214	8	69,909	8	85,004	8	100,100	8	115,193	8	130,282	8	145,370
1/4	11,010	1/4	26,106	1/4	41,015	1/4	55,516	1/4	70,223	1/4	85,319	1/4	100,415	1/4	115,508	1/4	130,596	1/4	145,684
1/2	11,325	1/2	26,420	1/2	41,317	1/2	55,819	1/2	70,538	1/2	85,633	1/2	100,729	1/2	115,822	1/2	130,910	1/2	145,999
3/4	11,639	3/4	26,734	3/4	41,619	3/4	56,122	3/4	70,852	3/4	85,948	3/4	101,044	3/4	116,136	3/4	131,225	3/4	146,313
9	11,954	9	27,049	9	41,921	9	56,424	9	71,167	9	86,262	9	101,358	9	116,451	9	131,539	9	146,627
1/4	12,268	1/4	27,363	1/4	42,223	1/4	56,727	1/4	71,481	1/4	86,577	1/4	101,673	1/4	116,765	1/4	131,853	1/4	146,942
1/2	12,583	1/2	27,677	1/2	42,524	1/2	57,030	1/2	71,796	1/2	86,891	1/2	101,987	1/2	117,079	1/2	132,168	1/2	147,256
3/4	12,897	3/4	27,992	3/4	42,826	3/4	57,332	3/4	72,110	3/4	87,206	3/4	102,302	3/4	117,394	3/4	132,482	3/4	147,570
10	13,212	10	28,306	10	43,128	10	57,635	10	72,425	10	87,520	10	102,616	10	117,708	10	132,796	10	147,885
1/4	13,526	1/4	28,620	1/4	43,430	1/4	57,938	1/4	72,739	1/4	87,835	1/4	102,931	1/4	118,022	1/4	133,111	1/4	148,199
1/2	13,841	1/2	28,934	1/2	43,731	1/2	58,241	1/2	73,054	1/2	88,149	1/2	103,245	1/2	118,337	1/2	133,425	1/2	148,513
3/4	14,155	3/4	29,249	3/4	44,033	3/4	58,543	3/4	73,368	3/4	88,464	3/4	103,560	3/4	118,651	3/4	133,739	3/4	148,828
11	14,470	11	29,563	11	44,335	11	58,846	11	73,683	11	88,778	11	103,874	11	118,965	11	134,054	11	149,142
1/4	14,784	1/4	29,877	1/4	44,637	1/4	59,149	1/4	73,997	1/4	89,093	1/4	104,189	1/4	119,280	1/4	134,368	1/4	149,456
1/2	15,099	1/2	30,192	1/2	44,938	1/2	59,451	1/2	74,312	1/2	89,407	1/2	104,503	1/2	119,594	1/2	134,682	1/2	149,771
3/4	15,413	3/4	30,506	3/4	45,240	3/4	59,754	3/4	74,626	3/4	89,722	3/4	104,818	3/4	119,908	3/4	134,997	3/4	150,085

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 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 3028"

## 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	150,399	0	165,488	0	180,565	0	195,602	0	210,542	0		0		0		0		0	
1/4	150,714	1/4	165,802	1/4	180,879	1/4	195,916	1/4	210,823	1/4		1/4		1/4		1/4		1/4	
1/2	151,028	1/2	166,116	1/2	181,192	1/2	196,229	1/2	211,103	1/2		1/2		1/2		1/2		1/2	
3/4	151,342	3/4	166,431	3/4	181,505	3/4	196,542	3/4	211,383	3/4		3/4		3/4		3/4		3/4	
1	151,657	1	166,745	1	181,818	1	196,856	1	211,664	1		1		1		1		1	
1/4	151,971	1/4	167,059	1/4	182,132	1/4	197,169	1/4	211,895	1/4		1/4		1/4		1/4		1/4	
1/2	152,285	1/2	167,374	1/2	182,445	1/2	197,482	1/2	212,127	1/2		1/2		1/2		1/2		1/2	
3/4	152,600	3/4	167,688	3/4	182,758	3/4	197,795	3/4	212,359	3/4		3/4		3/4		3/4		3/4	
2	152,914	2	168,002	2	183,072	2	198,109	2	212,591	2		2		2		2		2	
1/4	153,228	1/4	168,317	1/4	183,385	1/4	198,422	1/4	212,770	1/4		1/4		1/4		1/4		1/4	
1/2	153,543	1/2	168,631	1/2	183,698	1/2	198,735	1/2	212,949	1/2		1/2		1/2		1/2		1/2	
3/4	153,857	3/4	168,945	3/4	184,011	3/4	199,048	3/4	213,128	3/4		3/4		3/4		3/4		3/4	
3	154,171	3	169,260	3	184,325	3	199,362	3	213,308	3		3		3		3		3	
1/4	154,486	1/4	169,574	1/4	184,638	1/4	199,675	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,800	1/2	169,888	1/2	184,951	1/2	199,988	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,115	3/4	170,203	3/4	185,264	3/4	200,302	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,429	4	170,517	4	185,578	4	200,615	4		4		4		4		4		4	
1/4	155,743	1/4	170,831	1/4	185,891	1/4	200,928	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,058	1/2	171,146	1/2	186,204	1/2	201,241	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,372	3/4	171,460	3/4	186,518	3/4	201,555	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,686	5	171,775	5	186,831	5	201,868	5		5		5		5		5		5	
1/4	157,001	1/4	172,089	1/4	187,144	1/4	202,180	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,315	1/2	172,403	1/2	187,457	1/2	202,491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,629	3/4	172,718	3/4	187,771	3/4	202,803	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,944	6	173,032	6	188,084	6	203,115	6		6		6		6		6		6	
1/4	158,258	1/4	173,346	1/4	188,397	1/4	203,425	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,572	1/2	173,661	1/2	188,710	1/2	203,735	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,887	3/4	173,975	3/4	189,024	3/4	204,045	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,201	7	174,289	7	189,337	7	204,355	7		7		7		7		7		7	
1/4	159,515	1/4	174,604	1/4	189,650	1/4	204,666	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,830	1/2	174,918	1/2	189,964	1/2	204,976	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,144	3/4	175,232	3/4	190,277	3/4	205,286	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,458	8	175,547	8	190,590	8	205,596	8		8		8		8		8		8	
1/4	160,773	1/4	175,861	1/4	190,903	1/4	205,907	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,087	1/2	176,175	1/2	191,217	1/2	206,217	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,401	3/4	176,490	3/4	191,530	3/4	206,527	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,716	9	176,804	9	191,843	9	206,838	9		9		9		9		9		9	
1/4	162,030	1/4	177,118	1/4	192,156	1/4	207,148	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,344	1/2	177,432	1/2	192,470	1/2	207,458	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,659	3/4	177,745	3/4	192,783	3/4	207,768	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,973	10	178,059	10	193,096	10	208,079	10		10		10		10		10		10	
1/4	163,287	1/4	178,372	1/4	193,410	1/4	208,389	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,602	1/2	178,686	1/2	193,723	1/2	208,698	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,916	3/4	178,999	3/4	194,036	3/4	209,008	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,230	11	179,312	11	194,349	11	209,318	11		11		11		11		11		11	
1/4	164,545	1/4	179,626	1/4	194,663	1/4	209,624	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,859	1/2	179,939	1/2	194,976	1/2	209,930	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,173	3/4	180,252	3/4	195,289	3/4	210,236	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3028"

## 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	1,034	0	15,724	0	30,814	0	45,886	0	60,963	0	76,055	0	91,148	0	106,240	0	121,327	0	136,411
1/4	1,269	1/4	16,039	1/4	31,129	1/4	46,199	1/4	61,278	1/4	76,370	1/4	91,462	1/4	106,554	1/4	121,641	1/4	136,726
1/2	1,505	1/2	16,353	1/2	31,443	1/2	46,513	1/2	61,592	1/2	76,684	1/2	91,777	1/2	106,869	1/2	121,955	1/2	137,040
3/4	1,741	3/4	16,668	3/4	31,758	3/4	46,826	3/4	61,907	3/4	76,999	3/4	92,091	3/4	107,183	3/4	122,270	3/4	137,354
1	1,977	1	16,982	1	32,072	1	47,140	1	62,221	1	77,313	1	92,405	1	107,498	1	122,584	1	137,669
1/4	2,271	1/4	17,296	1/4	32,386	1/4	47,453	1/4	62,535	1/4	77,628	1/4	92,720	1/4	107,812	1/4	122,898	1/4	137,983
1/2	2,565	1/2	17,611	1/2	32,701	1/2	47,767	1/2	62,850	1/2	77,942	1/2	93,034	1/2	108,126	1/2	123,212	1/2	138,297
3/4	2,859	3/4	17,925	3/4	33,015	3/4	48,080	3/4	63,164	3/4	78,256	3/4	93,349	3/4	108,441	3/4	123,527	3/4	138,611
2	3,153	2	18,240	2	33,330	2	48,394	2	63,479	2	78,571	2	93,663	2	108,755	2	123,841	2	138,926
1/4	3,466	1/4	18,554	1/4	33,644	1/4	48,708	1/4	63,793	1/4	78,885	1/4	93,978	1/4	109,070	1/4	124,155	1/4	139,240
1/2	3,779	1/2	18,869	1/2	33,958	1/2	49,021	1/2	64,107	1/2	79,200	1/2	94,292	1/2	109,384	1/2	124,469	1/2	139,554
3/4	4,093	3/4	19,183	3/4	34,273	3/4	49,335	3/4	64,422	3/4	79,514	3/4	94,606	3/4	109,699	3/4	124,784	3/4	139,868
3	4,406	3	19,497	3	34,587	3	49,648	3	64,736	3	79,829	3	94,921	3	110,013	3	125,098	3	140,183
1/4	4,721	1/4	19,812	1/4	34,902	1/4	49,962	1/4	65,051	1/4	80,143	1/4	95,235	1/4	110,327	1/4	125,412	1/4	140,497
1/2	5,035	1/2	20,126	1/2	35,216	1/2	50,276	1/2	65,365	1/2	80,457	1/2	95,550	1/2	110,642	1/2	125,726	1/2	140,811
3/4	5,349	3/4	20,441	3/4	35,531	3/4	50,589	3/4	65,680	3/4	80,772	3/4	95,864	3/4	110,956	3/4	126,041	3/4	141,125
4	5,663	4	20,755	4	35,845	4	50,903	4	65,994	4	81,086	4	96,178	4	111,270	4	126,355	4	141,440
1/4	5,977	1/4	21,070	1/4	36,159	1/4	51,217	1/4	66,308	1/4	81,401	1/4	96,493	1/4	111,585	1/4	126,669	1/4	141,754
1/2	6,292	1/2	21,384	1/2	36,474	1/2	51,531	1/2	66,623	1/2	81,715	1/2	96,807	1/2	111,899	1/2	126,984	1/2	142,068
3/4	6,606	3/4	21,698	3/4	36,788	3/4	51,845	3/4	66,937	3/4	82,029	3/4	97,122	3/4	112,213	3/4	127,298	3/4	142,382
5	6,921	5	22,013	5	37,103	5	52,159	5	67,252	5	82,344	5	97,436	5	112,527	5	127,612	5	142,697
1/4	7,235	1/4	22,327	1/4	37,417	1/4	52,474	1/4	67,566	1/4	82,658	1/4	97,751	1/4	112,842	1/4	127,926	1/4	143,011
1/2	7,549	1/2	22,642	1/2	37,731	1/2	52,788	1/2	67,881	1/2	82,973	1/2	98,065	1/2	113,156	1/2	128,241	1/2	143,325
3/4	7,864	3/4	22,956	3/4	38,046	3/4	53,103	3/4	68,195	3/4	83,287	3/4	98,379	3/4	113,470	3/4	128,555	3/4	143,640
6	8,178	6	23,270	6	38,360	6	53,417	6	68,509	6	83,602	6	98,694	6	113,784	6	128,869	6	143,954
1/4	8,493	1/4	23,585	1/4	38,674	1/4	53,732	1/4	68,824	1/4	83,916	1/4	99,008	1/4	114,099	1/4	129,183	1/4	144,268
1/2	8,807	1/2	23,899	1/2	38,988	1/2	54,046	1/2	69,138	1/2	84,230	1/2	99,323	1/2	114,413	1/2	129,498	1/2	144,582
3/4	9,122	3/4	24,214	3/4	39,302	3/4	54,360	3/4	69,453	3/4	84,545	3/4	99,637	3/4	114,727	3/4	129,812	3/4	144,897
7	9,436	7	24,528	7	39,616	7	54,675	7	69,767	7	84,859	7	99,952	7	115,042	7	130,126	7	145,211
1/4	9,750	1/4	24,843	1/4	39,930	1/4	54,989	1/4	70,081	1/4	85,174	1/4	100,266	1/4	115,356	1/4	130,440	1/4	145,525
1/2	10,065	1/2	25,157	1/2	40,243	1/2	55,304	1/2	70,396	1/2	85,488	1/2	100,580	1/2	115,670	1/2	130,755	1/2	145,839
3/4	10,379	3/4	25,471	3/4	40,557	3/4	55,618	3/4	70,710	3/4	85,803	3/4	100,895	3/4	115,984	3/4	131,069	3/4	146,154
8	10,694	8	25,786	8	40,870	8	55,932	8	71,025	8	86,117	8	101,209	8	116,299	8	131,383	8	146,468
1/4	11,008	1/4	26,100	1/4	41,184	1/4	56,247	1/4	71,339	1/4	86,431	1/4	101,524	1/4	116,613	1/4	131,698	1/4	146,782
1/2	11,322	1/2	26,415	1/2	41,497	1/2	56,561	1/2	71,654	1/2	86,746	1/2	101,838	1/2	116,927	1/2	132,012	1/2	147,096
3/4	11,637	3/4	26,729	3/4	41,811	3/4	56,876	3/4	71,968	3/4	87,060	3/4	102,152	3/4	117,241	3/4	132,326	3/4	147,411
9	11,951	9	27,043	9	42,124	9	57,190	9	72,282	9	87,375	9	102,467	9	117,556	9	132,640	9	147,725
1/4	12,266	1/4	27,357	1/4	42,438	1/4	57,505	1/4	72,597	1/4	87,689	1/4	102,781	1/4	117,870	1/4	132,955	1/4	148,039
1/2	12,580	1/2	27,672	1/2	42,751	1/2	57,819	1/2	72,911	1/2	88,003	1/2	103,096	1/2	118,184	1/2	133,269	1/2	148,353
3/4	12,895	3/4	27,986	3/4	43,065	3/4	58,133	3/4	73,226	3/4	88,318	3/4	103,410	3/4	118,498	3/4	133,583	3/4	148,668
10	13,209	10	28,300	10	43,378	10	58,448	10	73,540	10	88,632	10	103,725	10	118,813	10	133,897	10	148,982
1/4	13,523	1/4	28,614	1/4	43,692	1/4	58,762	1/4	73,855	1/4	88,947	1/4	104,039	1/4	119,127	1/4	134,212	1/4	149,296
1/2	13,838	1/2	28,928	1/2	44,005	1/2	59,077	1/2	74,169	1/2	89,261	1/2	104,353	1/2	119,441	1/2	134,526	1/2	149,611
3/4	14,152	3/4	29,243	3/4	44,319	3/4	59,391	3/4	74,483	3/4	89,576	3/4	104,668	3/4	119,755	3/4	134,840	3/4	149,925
11	14,467	11	29,557	11	44,632	11	59,706	11	74,798	11	89,890	11	104,982	11	120,070	11	135,154	11	150,239
1/4	14,781	1/4	29,871	1/4	44,946	1/4	60,020	1/4	75,112	1/4	90,204	1/4	105,297	1/4	120,384	1/4	135,469	1/4	150,553
1/2	15,096	1/2	30,186	1/2	45,259	1/2	60,334	1/2	75,427	1/2	90,519	1/2	105,611	1/2	120,698	1/2	135,783	1/2	150,868
3/4	15,410	3/4	30,500	3/4	45,572	3/4	60,649	3/4	75,741	3/4	90,833	3/4	105,926	3/4	121,013	3/4	136,097	3/4	151,182

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 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 3028"

## 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	151,496	0	166,581	0	181,655	0	196,688	0	211,625	0		0		0		0		0	
1/4	151,810	1/4	166,895	1/4	181,968	1/4	197,001	1/4	211,905	1/4		1/4		1/4		1/4		1/4	
1/2	152,125	1/2	167,209	1/2	182,281	1/2	197,315	1/2	212,185	1/2		1/2		1/2		1/2		1/2	
3/4	152,439	3/4	167,524	3/4	182,594	3/4	197,628	3/4	212,466	3/4		3/4		3/4		3/4		3/4	
1	152,753	1	167,838	1	182,908	1	197,941	1	212,746	1		1		1		1		1	
1/4	153,067	1/4	168,152	1/4	183,221	1/4	198,254	1/4	212,977	1/4		1/4		1/4		1/4		1/4	
1/2	153,382	1/2	168,466	1/2	183,534	1/2	198,567	1/2	213,209	1/2		1/2		1/2		1/2		1/2	
3/4	153,696	3/4	168,781	3/4	183,847	3/4	198,881	3/4	213,441	3/4		3/4		3/4		3/4		3/4	
2	154,010	2	169,095	2	184,160	2	199,194	2	213,672	2		2		2		2		2	
1/4	154,324	1/4	169,409	1/4	184,474	1/4	199,507	1/4	213,852	1/4		1/4		1/4		1/4		1/4	
1/2	154,639	1/2	169,723	1/2	184,787	1/2	199,820	1/2	214,031	1/2		1/2		1/2		1/2		1/2	
3/4	154,953	3/4	170,038	3/4	185,100	3/4	200,133	3/4	214,210	3/4		3/4		3/4		3/4		3/4	
3	155,267	3	170,352	3	185,413	3	200,447	3	214,389	3		3		3		3		3	
1/4	155,582	1/4	170,666	1/4	185,726	1/4	200,760	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,896	1/2	170,980	1/2	186,040	1/2	201,073	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,210	3/4	171,295	3/4	186,353	3/4	201,386	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,524	4	171,609	4	186,666	4	201,699	4		4		4		4		4		4	
1/4	156,839	1/4	171,923	1/4	186,979	1/4	202,013	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,153	1/2	172,238	1/2	187,292	1/2	202,326	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,467	3/4	172,552	3/4	187,606	3/4	202,639	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,781	5	172,866	5	187,919	5	202,952	5		5		5		5		5		5	
1/4	158,096	1/4	173,180	1/4	188,232	1/4	203,264	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,410	1/2	173,495	1/2	188,545	1/2	203,576	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,724	3/4	173,809	3/4	188,858	3/4	203,887	3/4		3/4		3/4		3/4		3/4		3/4	
6	159,038	6	174,123	6	189,172	6	204,199	6		6		6		6		6		6	
1/4	159,353	1/4	174,437	1/4	189,485	1/4	204,509	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,667	1/2	174,752	1/2	189,798	1/2	204,819	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,981	3/4	175,066	3/4	190,111	3/4	205,129	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,296	7	175,380	7	190,424	7	205,439	7		7		7		7		7		7	
1/4	160,610	1/4	175,694	1/4	190,738	1/4	205,749	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,924	1/2	176,009	1/2	191,051	1/2	206,060	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,238	3/4	176,323	3/4	191,364	3/4	206,370	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,553	8	176,637	8	191,677	8	206,680	8		8		8		8		8		8	
1/4	161,867	1/4	176,951	1/4	191,990	1/4	206,990	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,181	1/2	177,266	1/2	192,303	1/2	207,300	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,495	3/4	177,580	3/4	192,617	3/4	207,611	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,810	9	177,894	9	192,930	9	207,921	9		9		9		9		9		9	
1/4	163,124	1/4	178,208	1/4	193,243	1/4	208,231	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,438	1/2	178,522	1/2	193,556	1/2	208,541	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,752	3/4	178,835	3/4	193,869	3/4	208,851	3/4		3/4		3/4		3/4		3/4		3/4	
10	164,067	10	179,149	10	194,183	10	209,162	10		10		10		10		10		10	
1/4	164,381	1/4	179,462	1/4	194,496	1/4	209,471	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,695	1/2	179,776	1/2	194,809	1/2	209,781	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,009	3/4	180,089	3/4	195,122	3/4	210,091	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,324	11	180,402	11	195,435	11	210,401	11		11		11		11		11		11	
1/4	165,638	1/4	180,715	1/4	195,749	1/4	210,707	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,952	1/2	181,028	1/2	196,062	1/2	211,013	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,267	3/4	181,342	3/4	196,375	3/4	211,319	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3028"

## 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	15,627	0	30,609	0	45,363	0	59,914	0	74,818	0	89,778	0	104,750	0	119,712	0	134,671
1/4	1,262	1/4	15,939	1/4	30,922	1/4	45,665	1/4	60,226	1/4	75,128	1/4	90,090	1/4	105,062	1/4	120,024	1/4	134,982
1/2	1,497	1/2	16,251	1/2	31,234	1/2	45,966	1/2	60,538	1/2	75,439	1/2	90,402	1/2	105,374	1/2	120,335	1/2	135,294
3/4	1,731	3/4	16,563	3/4	31,546	3/4	46,268	3/4	60,850	3/4	75,749	3/4	90,714	3/4	105,686	3/4	120,647	3/4	135,606
1	1,966	1	16,875	1	31,858	1	46,570	1	61,162	1	76,059	1	91,025	1	105,998	1	120,959	1	135,917
1/4	2,258	1/4	17,188	1/4	32,170	1/4	46,871	1/4	61,473	1/4	76,369	1/4	91,337	1/4	106,310	1/4	121,270	1/4	136,229
1/2	2,550	1/2	17,500	1/2	32,482	1/2	47,173	1/2	61,785	1/2	76,679	1/2	91,649	1/2	106,622	1/2	121,582	1/2	136,540
3/4	2,843	3/4	17,812	3/4	32,795	3/4	47,475	3/4	62,097	3/4	76,989	3/4	91,961	3/4	106,934	3/4	121,894	3/4	136,852
2	3,135	2	18,124	2	33,107	2	47,777	2	62,409	2	77,299	2	92,273	2	107,246	2	122,205	2	137,164
1/4	3,447	1/4	18,436	1/4	33,419	1/4	48,080	1/4	62,720	1/4	77,611	1/4	92,584	1/4	107,558	1/4	122,517	1/4	137,475
1/2	3,758	1/2	18,749	1/2	33,731	1/2	48,382	1/2	63,031	1/2	77,922	1/2	92,896	1/2	107,870	1/2	122,828	1/2	137,787
3/4	4,070	3/4	19,061	3/4	34,043	3/4	48,684	3/4	63,342	3/4	78,233	3/4	93,208	3/4	108,181	3/4	123,140	3/4	138,099
3	4,382	3	19,373	3	34,355	3	48,987	3	63,653	3	78,544	3	93,520	3	108,493	3	123,452	3	138,410
1/4	4,694	1/4	19,685	1/4	34,667	1/4	49,289	1/4	63,963	1/4	78,856	1/4	93,832	1/4	108,805	1/4	123,763	1/4	138,722
1/2	5,006	1/2	19,997	1/2	34,979	1/2	49,591	1/2	64,273	1/2	79,168	1/2	94,143	1/2	109,116	1/2	124,075	1/2	139,034
3/4	5,319	3/4	20,309	3/4	35,290	3/4	49,893	3/4	64,583	3/4	79,480	3/4	94,455	3/4	109,428	3/4	124,387	3/4	139,345
4	5,631	4	20,622	4	35,602	4	50,196	4	64,893	4	79,792	4	94,767	4	109,740	4	124,698	4	139,657
1/4	5,943	1/4	20,934	1/4	35,910	1/4	50,498	1/4	65,204	1/4	80,105	1/4	95,079	1/4	110,051	1/4	125,010	1/4	139,968
1/2	6,256	1/2	21,246	1/2	36,218	1/2	50,800	1/2	65,514	1/2	80,417	1/2	95,391	1/2	110,363	1/2	125,322	1/2	140,280
3/4	6,568	3/4	21,558	3/4	36,526	3/4	51,103	3/4	65,824	3/4	80,729	3/4	95,702	3/4	110,675	3/4	125,633	3/4	140,592
5	6,880	5	21,870	5	36,834	5	51,405	5	66,134	5	81,041	5	96,014	5	110,986	5	125,945	5	140,903
1/4	7,193	1/4	22,183	1/4	37,139	1/4	51,707	1/4	66,444	1/4	81,353	1/4	96,326	1/4	111,298	1/4	126,256	1/4	141,214
1/2	7,505	1/2	22,495	1/2	37,444	1/2	52,010	1/2	66,754	1/2	81,665	1/2	96,638	1/2	111,610	1/2	126,568	1/2	141,526
3/4	7,818	3/4	22,807	3/4	37,749	3/4	52,312	3/4	67,064	3/4	81,977	3/4	96,950	3/4	111,921	3/4	126,880	3/4	141,837
6	8,130	6	23,119	6	38,054	6	52,614	6	67,375	6	82,289	6	97,261	6	112,233	6	127,191	6	142,148
1/4	8,443	1/4	23,431	1/4	38,358	1/4	52,917	1/4	67,685	1/4	82,602	1/4	97,573	1/4	112,545	1/4	127,503	1/4	142,455
1/2	8,755	1/2	23,743	1/2	38,663	1/2	53,219	1/2	67,995	1/2	82,914	1/2	97,885	1/2	112,856	1/2	127,815	1/2	142,762
3/4	9,068	3/4	24,056	3/4	38,968	3/4	53,521	3/4	68,305	3/4	83,226	3/4	98,197	3/4	113,168	3/4	128,126	3/4	143,069
7	9,380	7	24,368	7	39,273	7	53,824	7	68,615	7	83,538	7	98,509	7	113,479	7	128,438	7	143,376
1/4	9,693	1/4	24,680	1/4	39,578	1/4	54,126	1/4	68,925	1/4	83,850	1/4	98,821	1/4	113,791	1/4	128,750	1/4	143,671
1/2	10,006	1/2	24,992	1/2	39,883	1/2	54,428	1/2	69,236	1/2	84,162	1/2	99,133	1/2	114,103	1/2	129,061	1/2	143,965
3/4	10,318	3/4	25,304	3/4	40,188	3/4	54,731	3/4	69,546	3/4	84,474	3/4	99,445	3/4	114,414	3/4	129,373	3/4	144,260
8	10,631	8	25,616	8	40,492	8	55,033	8	69,856	8	84,786	8	99,757	8	114,726	8	129,684	8	144,554
1/4	10,943	1/4	25,929	1/4	40,797	1/4	55,335	1/4	70,166	1/4	85,098	1/4	100,069	1/4	115,038	1/4	129,996	1/4	144,833
1/2	11,256	1/2	26,241	1/2	41,102	1/2	55,638	1/2	70,476	1/2	85,411	1/2	100,381	1/2	115,349	1/2	130,308	1/2	145,111
3/4	11,568	3/4	26,553	3/4	41,407	3/4	55,940	3/4	70,786	3/4	85,723	3/4	100,694	3/4	115,661	3/4	130,619	3/4	145,390
9	11,881	9	26,865	9	41,712	9	56,242	9	71,096	9	86,035	9	101,006	9	115,972	9	130,931	9	145,668
1/4	12,193	1/4	27,177	1/4	42,017	1/4	56,546	1/4	71,407	1/4	86,347	1/4	101,318	1/4	116,284	1/4	131,243	1/4	145,931
1/2	12,505	1/2	27,489	1/2	42,321	1/2	56,850	1/2	71,717	1/2	86,659	1/2	101,630	1/2	116,596	1/2	131,554	1/2	146,194
3/4	12,817	3/4	27,801	3/4	42,626	3/4	57,154	3/4	72,027	3/4	86,971	3/4	101,942	3/4	116,907	3/4	131,866	3/4	146,457
10	13,129	10	28,113	10	42,931	10	57,458	10	72,337	10	87,283	10	102,254	10	117,219	10	132,178	10	146,719
1/4	13,442	1/4	28,425	1/4	43,236	1/4	57,763	1/4	72,647	1/4	87,595	1/4	102,566	1/4	117,531	1/4	132,489	1/4	146,966
1/2	13,754	1/2	28,737	1/2	43,541	1/2	58,069	1/2	72,957	1/2	87,907	1/2	102,878	1/2	117,842	1/2	132,801	1/2	147,214
3/4	14,066	3/4	29,049	3/4	43,846	3/4	58,374	3/4	73,268	3/4	88,219	3/4	103,190	3/4	118,154	3/4	133,112	3/4	147,461
11	14,378	11	29,361	11	44,151	11	58,680	11	73,578	11	88,531	11	103,502	11	118,466	11	133,424	11	147,708
1/4	14,690	1/4	29,673	1/4	44,454	1/4	58,988	1/4	73,888	1/4	88,843	1/4	103,814	1/4	118,777	1/4	133,736	1/4	147,939
1/2	15,002	1/2	29,985	1/2	44,757	1/2	59,297	1/2	74,198	1/2	89,155	1/2	104,126	1/2	119,089	1/2	134,047	1/2	148,170
3/4	15,315	3/4	30,297	3/4	45,060	3/4	59,606	3/4	74,508	3/4	89,466	3/4	104,438	3/4	119,400	3/4	134,359	3/4	148,401

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 3028"

## 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	148,632	0	159,009	0	169,365	0	179,692	0	190,005	0		0		0		0		0	
1/4	148,851	1/4	159,225	1/4	169,580	1/4	179,908	1/4	190,198	1/4		1/4		1/4		1/4		1/4	
1/2	149,071	1/2	159,441	1/2	169,796	1/2	180,123	1/2	190,391	1/2		1/2		1/2		1/2		1/2	
3/4	149,290	3/4	159,657	3/4	170,011	3/4	180,338	3/4	190,584	3/4		3/4		3/4		3/4		3/4	
1	149,509	1	159,873	1	170,226	1	180,553	1	190,777	1		1		1		1		1	
1/4	149,725	1/4	160,089	1/4	170,441	1/4	180,768	1/4	190,937	1/4		1/4		1/4		1/4		1/4	
1/2	149,941	1/2	160,305	1/2	170,656	1/2	180,983	1/2	191,096	1/2		1/2		1/2		1/2		1/2	
3/4	150,157	3/4	160,521	3/4	170,871	3/4	181,198	3/4	191,256	3/4		3/4		3/4		3/4		3/4	
2	150,373	2	160,737	2	171,087	2	181,414	2	191,415	2		2		2		2		2	
1/4	150,589	1/4	160,953	1/4	171,302	1/4	181,629	1/4	191,539	1/4		1/4		1/4		1/4		1/4	
1/2	150,805	1/2	161,168	1/2	171,517	1/2	181,844	1/2	191,662	1/2		1/2		1/2		1/2		1/2	
3/4	151,021	3/4	161,384	3/4	171,732	3/4	182,059	3/4	191,786	3/4		3/4		3/4		3/4		3/4	
3	151,237	3	161,600	3	171,947	3	182,274	3	191,910	3		3		3		3		3	
1/4	151,453	1/4	161,816	1/4	172,162	1/4	182,489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,668	1/2	162,032	1/2	172,377	1/2	182,704	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,884	3/4	162,248	3/4	172,593	3/4	182,920	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,100	4	162,464	4	172,808	4	183,135	4		4		4		4		4		4	
1/4	152,316	1/4	162,680	1/4	173,023	1/4	183,350	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,532	1/2	162,896	1/2	173,238	1/2	183,565	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,748	3/4	163,112	3/4	173,453	3/4	183,780	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,964	5	163,327	5	173,668	5	183,995	5		5		5		5		5		5	
1/4	153,180	1/4	163,543	1/4	173,883	1/4	184,211	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,396	1/2	163,759	1/2	174,099	1/2	184,426	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,612	3/4	163,975	3/4	174,314	3/4	184,641	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,828	6	164,191	6	174,529	6	184,856	6		6		6		6		6		6	
1/4	154,043	1/4	164,407	1/4	174,744	1/4	185,071	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,259	1/2	164,623	1/2	174,959	1/2	185,286	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,475	3/4	164,839	3/4	175,174	3/4	185,501	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,691	7	165,055	7	175,389	7	185,717	7		7		7		7		7		7	
1/4	154,907	1/4	165,271	1/4	175,605	1/4	185,932	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,123	1/2	165,487	1/2	175,820	1/2	186,147	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,339	3/4	165,702	3/4	176,035	3/4	186,362	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,555	8	165,918	8	176,250	8	186,577	8		8		8		8		8		8	
1/4	155,771	1/4	166,134	1/4	176,465	1/4	186,793	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,987	1/2	166,350	1/2	176,680	1/2	187,008	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,203	3/4	166,566	3/4	176,896	3/4	187,223	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,418	9	166,782	9	177,111	9	187,438	9		9		9		9		9		9	
1/4	156,634	1/4	166,998	1/4	177,326	1/4	187,654	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,850	1/2	167,213	1/2	177,541	1/2	187,869	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,066	3/4	167,429	3/4	177,756	3/4	188,084	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,282	10	167,644	10	177,971	10	188,299	10		10		10		10		10		10	
1/4	157,498	1/4	167,859	1/4	178,186	1/4	188,514	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,714	1/2	168,074	1/2	178,402	1/2	188,729	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,930	3/4	168,290	3/4	178,617	3/4	188,944	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,146	11	168,505	11	178,832	11	189,159	11		11		11		11		11		11	
1/4	158,362	1/4	168,720	1/4	179,047	1/4	189,370	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,578	1/2	168,935	1/2	179,262	1/2	189,582	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,793	3/4	169,150	3/4	179,477	3/4	189,793	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3028"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,028	0	15,643	0	30,657	0	45,655	0	60,668	0	75,683	0	90,698	0	105,712	0	120,710	0	135,705
1/4	1,263	1/4	15,956	1/4	30,970	1/4	45,968	1/4	60,981	1/4	75,996	1/4	91,011	1/4	106,025	1/4	121,023	1/4	136,017
1/2	1,497	1/2	16,269	1/2	31,283	1/2	46,280	1/2	61,294	1/2	76,309	1/2	91,323	1/2	106,338	1/2	121,335	1/2	136,330
3/4	1,732	3/4	16,581	3/4	31,596	3/4	46,593	3/4	61,607	3/4	76,622	3/4	91,636	3/4	106,651	3/4	121,648	3/4	136,642
1	1,966	1	16,894	1	31,908	1	46,906	1	61,920	1	76,934	1	91,949	1	106,964	1	121,960	1	136,955
1/4	2,259	1/4	17,207	1/4	32,221	1/4	47,218	1/4	62,232	1/4	77,247	1/4	92,262	1/4	107,276	1/4	122,272	1/4	137,267
1/2	2,551	1/2	17,520	1/2	32,534	1/2	47,531	1/2	62,545	1/2	77,560	1/2	92,575	1/2	107,589	1/2	122,585	1/2	137,579
3/4	2,844	3/4	17,833	3/4	32,847	3/4	47,844	3/4	62,858	3/4	77,873	3/4	92,887	3/4	107,902	3/4	122,897	3/4	137,892
2	3,136	2	18,145	2	33,160	2	48,156	2	63,171	2	78,186	2	93,200	2	108,214	2	123,210	2	138,204
1/4	3,448	1/4	18,458	1/4	33,472	1/4	48,469	1/4	63,484	1/4	78,498	1/4	93,513	1/4	108,527	1/4	123,522	1/4	138,517
1/2	3,760	1/2	18,771	1/2	33,785	1/2	48,782	1/2	63,797	1/2	78,811	1/2	93,826	1/2	108,839	1/2	123,834	1/2	138,829
3/4	4,072	3/4	19,084	3/4	34,098	3/4	49,095	3/4	64,109	3/4	79,124	3/4	94,139	3/4	109,152	3/4	124,147	3/4	139,141
3	4,384	3	19,397	3	34,411	3	49,407	3	64,422	3	79,437	3	94,451	3	109,464	3	124,459	3	139,454
1/4	4,696	1/4	19,709	1/4	34,723	1/4	49,720	1/4	64,735	1/4	79,750	1/4	94,764	1/4	109,777	1/4	124,771	1/4	139,766
1/2	5,009	1/2	20,022	1/2	35,036	1/2	50,033	1/2	65,048	1/2	80,062	1/2	95,077	1/2	110,089	1/2	125,084	1/2	140,079
3/4	5,321	3/4	20,335	3/4	35,348	3/4	50,346	3/4	65,361	3/4	80,375	3/4	95,390	3/4	110,402	3/4	125,396	3/4	140,391
4	5,634	4	20,648	4	35,661	4	50,659	4	65,673	4	80,688	4	95,703	4	110,714	4	125,709	4	140,703
1/4	5,946	1/4	20,961	1/4	35,973	1/4	50,971	1/4	65,986	1/4	81,001	1/4	96,015	1/4	111,026	1/4	126,021	1/4	141,016
1/2	6,259	1/2	21,273	1/2	36,286	1/2	51,284	1/2	66,299	1/2	81,314	1/2	96,328	1/2	111,339	1/2	126,333	1/2	141,328
3/4	6,572	3/4	21,586	3/4	36,598	3/4	51,597	3/4	66,612	3/4	81,626	3/4	96,641	3/4	111,651	3/4	126,646	3/4	141,640
5	6,885	5	21,899	5	36,910	5	51,910	5	66,925	5	81,939	5	96,954	5	111,964	5	126,958	5	141,953
1/4	7,198	1/4	22,212	1/4	37,223	1/4	52,223	1/4	67,237	1/4	82,252	1/4	97,267	1/4	112,276	1/4	127,271	1/4	142,265
1/2	7,510	1/2	22,525	1/2	37,535	1/2	52,536	1/2	67,550	1/2	82,565	1/2	97,579	1/2	112,588	1/2	127,583	1/2	142,577
3/4	7,823	3/4	22,837	3/4	37,847	3/4	52,848	3/4	67,863	3/4	82,878	3/4	97,892	3/4	112,901	3/4	127,895	3/4	142,889
6	8,136	6	23,150	6	38,160	6	53,161	6	68,176	6	83,190	6	98,205	6	113,213	6	128,208	6	143,201
1/4	8,449	1/4	23,463	1/4	38,472	1/4	53,474	1/4	68,489	1/4	83,503	1/4	98,518	1/4	113,526	1/4	128,520	1/4	143,509
1/2	8,762	1/2	23,776	1/2	38,784	1/2	53,787	1/2	68,801	1/2	83,816	1/2	98,831	1/2	113,838	1/2	128,833	1/2	143,816
3/4	9,074	3/4	24,089	3/4	39,096	3/4	54,100	3/4	69,114	3/4	84,129	3/4	99,143	3/4	114,150	3/4	129,145	3/4	144,124
7	9,387	7	24,401	7	39,409	7	54,412	7	69,427	7	84,442	7	99,456	7	114,463	7	129,457	7	144,432
1/4	9,700	1/4	24,714	1/4	39,721	1/4	54,725	1/4	69,740	1/4	84,754	1/4	99,769	1/4	114,775	1/4	129,770	1/4	144,727
1/2	10,013	1/2	25,027	1/2	40,033	1/2	55,038	1/2	70,053	1/2	85,067	1/2	100,082	1/2	115,087	1/2	130,082	1/2	145,022
3/4	10,326	3/4	25,340	3/4	40,346	3/4	55,351	3/4	70,365	3/4	85,380	3/4	100,395	3/4	115,400	3/4	130,394	3/4	145,317
8	10,638	8	25,653	8	40,658	8	55,664	8	70,678	8	85,693	8	100,708	8	115,712	8	130,707	8	145,613
1/4	10,951	1/4	25,965	1/4	40,970	1/4	55,976	1/4	70,991	1/4	86,006	1/4	101,020	1/4	116,025	1/4	131,019	1/4	145,892
1/2	11,264	1/2	26,278	1/2	41,283	1/2	56,289	1/2	71,304	1/2	86,318	1/2	101,333	1/2	116,337	1/2	131,332	1/2	146,171
3/4	11,577	3/4	26,591	3/4	41,595	3/4	56,602	3/4	71,617	3/4	86,631	3/4	101,646	3/4	116,649	3/4	131,644	3/4	146,450
9	11,890	9	26,904	9	41,907	9	56,915	9	71,929	9	86,944	9	101,959	9	116,962	9	131,956	9	146,729
1/4	12,202	1/4	27,217	1/4	42,220	1/4	57,228	1/4	72,242	1/4	87,257	1/4	102,272	1/4	117,274	1/4	132,269	1/4	146,993
1/2	12,515	1/2	27,529	1/2	42,532	1/2	57,540	1/2	72,555	1/2	87,570	1/2	102,584	1/2	117,587	1/2	132,581	1/2	147,256
3/4	12,828	3/4	27,842	3/4	42,844	3/4	57,853	3/4	72,868	3/4	87,883	3/4	102,897	3/4	117,899	3/4	132,894	3/4	147,519
10	13,141	10	28,155	10	43,156	10	58,166	10	73,181	10	88,195	10	103,210	10	118,211	10	133,206	10	147,782
1/4	13,454	1/4	28,468	1/4	43,469	1/4	58,479	1/4	73,493	1/4	88,508	1/4	103,523	1/4	118,524	1/4	133,518	1/4	148,030
1/2	13,766	1/2	28,781	1/2	43,781	1/2	58,792	1/2	73,806	1/2	88,821	1/2	103,836	1/2	118,836	1/2	133,831	1/2	148,277
3/4	14,079	3/4	29,093	3/4	44,093	3/4	59,104	3/4	74,119	3/4	89,134	3/4	104,148	3/4	119,148	3/4	134,143	3/4	148,524
11	14,392	11	29,406	11	44,406	11	59,417	11	74,432	11	89,447	11	104,461	11	119,461	11	134,456	11	148,771
1/4	14,705	1/4	29,719	1/4	44,718	1/4	59,730	1/4	74,745	1/4	89,759	1/4	104,774	1/4	119,773	1/4	134,768	1/4	149,002
1/2	15,017	1/2	30,032	1/2	45,031	1/2	60,043	1/2	75,057	1/2	90,072	1/2	105,087	1/2	120,086	1/2	135,080	1/2	149,234
3/4	15,330	3/4	30,344	3/4	45,343	3/4	60,356	3/4	75,370	3/4	90,385	3/4	105,400	3/4	120,398	3/4	135,393	3/4	149,465

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 3028"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,696	0	160,076	0	170,434	0	180,763	0	191,078	0		0		0		0		0	
1/4	149,915	1/4	160,292	1/4	170,649	1/4	180,979	1/4	191,271	1/4		1/4		1/4		1/4		1/4	
1/2	150,135	1/2	160,508	1/2	170,865	1/2	181,194	1/2	191,464	1/2		1/2		1/2		1/2		1/2	
3/4	150,354	3/4	160,724	3/4	171,080	3/4	181,409	3/4	191,657	3/4		3/4		3/4		3/4		3/4	
1	150,574	1	160,940	1	171,295	1	181,624	1	191,850	1		1		1		1		1	
1/4	150,790	1/4	161,156	1/4	171,510	1/4	181,839	1/4	192,010	1/4		1/4		1/4		1/4		1/4	
1/2	151,006	1/2	161,372	1/2	171,725	1/2	182,055	1/2	192,170	1/2		1/2		1/2		1/2		1/2	
3/4	151,222	3/4	161,588	3/4	171,941	3/4	182,270	3/4	192,329	3/4		3/4		3/4		3/4		3/4	
2	151,438	2	161,804	2	172,156	2	182,485	2	192,489	2		2		2		2		2	
1/4	151,654	1/4	162,019	1/4	172,371	1/4	182,700	1/4	192,613	1/4		1/4		1/4		1/4		1/4	
1/2	151,870	1/2	162,235	1/2	172,586	1/2	182,915	1/2	192,736	1/2		1/2		1/2		1/2		1/2	
3/4	152,086	3/4	162,451	3/4	172,801	3/4	183,131	3/4	192,860	3/4		3/4		3/4		3/4		3/4	
3	152,302	3	162,667	3	173,016	3	183,346	3	192,983	3		3		3		3		3	
1/4	152,517	1/4	162,883	1/4	173,232	1/4	183,561	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,733	1/2	163,099	1/2	173,447	1/2	183,776	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,949	3/4	163,315	3/4	173,662	3/4	183,991	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,165	4	163,531	4	173,877	4	184,207	4		4		4		4		4		4	
1/4	153,381	1/4	163,747	1/4	174,092	1/4	184,422	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,597	1/2	163,963	1/2	174,308	1/2	184,637	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,813	3/4	164,179	3/4	174,523	3/4	184,852	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,029	5	164,395	5	174,738	5	185,067	5		5		5		5		5		5	
1/4	154,245	1/4	164,611	1/4	174,953	1/4	185,283	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,461	1/2	164,827	1/2	175,168	1/2	185,498	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,677	3/4	165,043	3/4	175,384	3/4	185,713	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,893	6	165,259	6	175,599	6	185,928	6		6		6		6		6		6	
1/4	155,109	1/4	165,475	1/4	175,814	1/4	186,143	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,325	1/2	165,691	1/2	176,029	1/2	186,359	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,541	3/4	165,907	3/4	176,244	3/4	186,574	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,757	7	166,123	7	176,460	7	186,789	7		7		7		7		7		7	
1/4	155,973	1/4	166,339	1/4	176,675	1/4	187,004	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,189	1/2	166,555	1/2	176,890	1/2	187,219	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,405	3/4	166,771	3/4	177,105	3/4	187,435	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,621	8	166,986	8	177,320	8	187,650	8		8		8		8		8		8	
1/4	156,837	1/4	167,202	1/4	177,536	1/4	187,865	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,053	1/2	167,418	1/2	177,751	1/2	188,081	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,268	3/4	167,634	3/4	177,966	3/4	188,296	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,484	9	167,850	9	178,181	9	188,511	9		9		9		9		9		9	
1/4	157,700	1/4	168,066	1/4	178,396	1/4	188,726	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,916	1/2	168,281	1/2	178,612	1/2	188,942	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,132	3/4	168,497	3/4	178,827	3/4	189,157	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,348	10	168,713	10	179,042	10	189,372	10		10		10		10		10		10	
1/4	158,564	1/4	168,928	1/4	179,257	1/4	189,587	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,780	1/2	169,143	1/2	179,472	1/2	189,802	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,996	3/4	169,358	3/4	179,688	3/4	190,017	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,212	11	169,573	11	179,903	11	190,232	11		11		11		11		11		11	
1/4	159,428	1/4	169,789	1/4	180,118	1/4	190,444	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,644	1/2	170,004	1/2	180,333	1/2	190,655	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,860	3/4	170,219	3/4	180,548	3/4	190,867	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/18/2019 CL  
CALCULATED: 11/19/2019 CL  
PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HSM 3028"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	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: 11/18/2019 CL  
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PRINTED: 11/19/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "HSM 3028"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 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	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  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

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



# BARGE "HSM 3028"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	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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