



BARGE "HSM 3027"

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 11, 2019

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3027"

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"

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BARGE "HSM 3027"

1 PORT 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	385	0	13,258	0	28,191	0	43,221	0	58,189	0	73,176	0	88,207	0	103,237	0	118,262	0	133,286
1/4	562	1/4	13,559	1/4	28,504	1/4	43,534	1/4	58,500	1/4	73,490	1/4	88,520	1/4	103,550	1/4	118,575	1/4	133,599
1/2	739	1/2	13,861	1/2	28,817	1/2	43,847	1/2	58,810	1/2	73,803	1/2	88,833	1/2	103,863	1/2	118,888	1/2	133,912
3/4	916	3/4	14,162	3/4	29,130	3/4	44,160	3/4	59,121	3/4	74,116	3/4	89,146	3/4	104,176	3/4	119,201	3/4	134,225
1	1,093	1	14,464	1	29,444	1	44,473	1	59,432	1	74,429	1	89,459	1	104,489	1	119,514	1	134,538
1/4	1,332	1/4	14,769	1/4	29,757	1/4	44,786	1/4	59,743	1/4	74,742	1/4	89,772	1/4	104,802	1/4	119,827	1/4	134,851
1/2	1,571	1/2	15,075	1/2	30,070	1/2	45,100	1/2	60,054	1/2	75,055	1/2	90,085	1/2	105,116	1/2	120,140	1/2	135,164
3/4	1,810	3/4	15,380	3/4	30,383	3/4	45,413	3/4	60,364	3/4	75,368	3/4	90,398	3/4	105,429	3/4	120,453	3/4	135,477
2	2,049	2	15,686	2	30,696	2	45,726	2	60,675	2	75,681	2	90,712	2	105,742	2	120,766	2	135,790
1/4	2,311	1/4	15,995	1/4	31,009	1/4	46,039	1/4	60,986	1/4	75,995	1/4	91,025	1/4	106,055	1/4	121,079	1/4	136,103
1/2	2,573	1/2	16,304	1/2	31,322	1/2	46,352	1/2	61,297	1/2	76,308	1/2	91,338	1/2	106,368	1/2	121,392	1/2	136,416
3/4	2,835	3/4	16,613	3/4	31,635	3/4	46,665	3/4	61,607	3/4	76,621	3/4	91,651	3/4	106,681	3/4	121,705	3/4	136,729
3	3,097	3	16,923	3	31,949	3	46,978	3	61,918	3	76,934	3	91,964	3	106,994	3	122,018	3	137,042
1/4	3,363	1/4	17,235	1/4	32,262	1/4	47,291	1/4	62,229	1/4	77,247	1/4	92,277	1/4	107,307	1/4	122,331	1/4	137,355
1/2	3,630	1/2	17,547	1/2	32,575	1/2	47,605	1/2	62,540	1/2	77,560	1/2	92,590	1/2	107,620	1/2	122,644	1/2	137,668
3/4	3,897	3/4	17,859	3/4	32,888	3/4	47,918	3/4	62,851	3/4	77,873	3/4	92,904	3/4	107,933	3/4	122,957	3/4	137,981
4	4,163	4	18,171	4	33,201	4	48,231	4	63,162	4	78,186	4	93,217	4	108,247	4	123,270	4	138,294
1/4	4,434	1/4	18,484	1/4	33,514	1/4	48,543	1/4	63,474	1/4	78,500	1/4	93,530	1/4	108,560	1/4	123,583	1/4	138,607
1/2	4,705	1/2	18,798	1/2	33,827	1/2	48,856	1/2	63,786	1/2	78,813	1/2	93,843	1/2	108,873	1/2	123,896	1/2	138,920
3/4	4,975	3/4	19,111	3/4	34,140	3/4	49,168	3/4	64,098	3/4	79,126	3/4	94,156	3/4	109,186	3/4	124,209	3/4	139,233
5	5,246	5	19,424	5	34,454	5	49,480	5	64,409	5	79,439	5	94,469	5	109,499	5	124,522	5	139,546
1/4	5,520	1/4	19,737	1/4	34,767	1/4	49,792	1/4	64,722	1/4	79,752	1/4	94,782	1/4	109,812	1/4	124,835	1/4	139,859
1/2	5,795	1/2	20,050	1/2	35,080	1/2	50,104	1/2	65,035	1/2	80,065	1/2	95,095	1/2	110,125	1/2	125,148	1/2	140,172
3/4	6,070	3/4	20,363	3/4	35,393	3/4	50,415	3/4	65,348	3/4	80,378	3/4	95,409	3/4	110,437	3/4	125,461	3/4	140,485
6	6,344	6	20,676	6	35,706	6	50,727	6	65,661	6	80,691	6	95,722	6	110,750	6	125,774	6	140,798
1/4	6,623	1/4	20,989	1/4	36,019	1/4	51,039	1/4	65,974	1/4	81,005	1/4	96,035	1/4	111,063	1/4	126,087	1/4	141,111
1/2	6,901	1/2	21,303	1/2	36,332	1/2	51,350	1/2	66,288	1/2	81,318	1/2	96,348	1/2	111,376	1/2	126,400	1/2	141,424
3/4	7,180	3/4	21,616	3/4	36,645	3/4	51,661	3/4	66,601	3/4	81,631	3/4	96,661	3/4	111,689	3/4	126,713	3/4	141,737
7	7,458	7	21,929	7	36,958	7	51,973	7	66,914	7	81,944	7	96,974	7	112,002	7	127,026	7	142,050
1/4	7,740	1/4	22,242	1/4	37,272	1/4	52,284	1/4	67,227	1/4	82,257	1/4	97,287	1/4	112,315	1/4	127,339	1/4	142,363
1/2	8,022	1/2	22,555	1/2	37,585	1/2	52,595	1/2	67,540	1/2	82,570	1/2	97,600	1/2	112,628	1/2	127,652	1/2	142,676
3/4	8,305	3/4	22,868	3/4	37,898	3/4	52,906	3/4	67,853	3/4	82,883	3/4	97,914	3/4	112,941	3/4	127,965	3/4	142,989
8	8,587	8	23,181	8	38,211	8	53,217	8	68,166	8	83,197	8	98,227	8	113,254	8	128,278	8	143,302
1/4	8,873	1/4	23,494	1/4	38,524	1/4	53,528	1/4	68,479	1/4	83,510	1/4	98,540	1/4	113,567	1/4	128,591	1/4	143,615
1/2	9,159	1/2	23,807	1/2	38,837	1/2	53,838	1/2	68,793	1/2	83,823	1/2	98,853	1/2	113,880	1/2	128,904	1/2	143,928
3/4	9,445	3/4	24,121	3/4	39,150	3/4	54,149	3/4	69,106	3/4	84,136	3/4	99,166	3/4	114,193	3/4	129,217	3/4	144,241
9	9,732	9	24,434	9	39,463	9	54,460	9	69,419	9	84,449	9	99,479	9	114,506	9	129,530	9	144,554
1/4	10,022	1/4	24,747	1/4	39,777	1/4	54,771	1/4	69,732	1/4	84,762	1/4	99,792	1/4	114,819	1/4	129,843	1/4	144,867
1/2	10,312	1/2	25,060	1/2	40,090	1/2	55,081	1/2	70,045	1/2	85,075	1/2	100,105	1/2	115,132	1/2	130,156	1/2	145,180
3/4	10,602	3/4	25,373	3/4	40,403	3/4	55,392	3/4	70,358	3/4	85,388	3/4	100,419	3/4	115,445	3/4	130,469	3/4	145,493
10	10,892	10	25,686	10	40,716	10	55,703	10	70,671	10	85,702	10	100,732	10	115,758	10	130,782	10	145,806
1/4	11,185	1/4	25,999	1/4	41,029	1/4	56,014	1/4	70,984	1/4	86,015	1/4	101,045	1/4	116,071	1/4	131,095	1/4	146,119
1/2	11,479	1/2	26,312	1/2	41,342	1/2	56,324	1/2	71,298	1/2	86,328	1/2	101,358	1/2	116,384	1/2	131,408	1/2	146,432
3/4	11,773	3/4	26,626	3/4	41,655	3/4	56,635	3/4	71,611	3/4	86,641	3/4	101,671	3/4	116,697	3/4	131,721	3/4	146,745
11	12,067	11	26,939	11	41,968	11	56,946	11	71,924	11	86,954	11	101,984	11	117,010	11	132,034	11	147,058
1/4	12,365	1/4	27,252	1/4	42,282	1/4	57,257	1/4	72,237	1/4	87,267	1/4	102,297	1/4	117,323	1/4	132,347	1/4	147,371
1/2	12,662	1/2	27,565	1/2	42,595	1/2	57,567	1/2	72,550	1/2	87,580	1/2	102,610	1/2	117,636	1/2	132,660	1/2	147,684
3/4	12,960	3/4	27,878	3/4	42,908	3/4	57,878	3/4	72,863	3/4	87,893	3/4	102,924	3/4	117,949	3/4	132,973	3/4	147,997

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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BARGE "HSM 3027"

1 PORT 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	148,310	0	163,333	0	178,348	0	193,328	0	208,235	0		0		0		0		0	
1/4	148,623	1/4	163,646	1/4	178,660	1/4	193,640	1/4	208,515	1/4		1/4		1/4		1/4		1/4	
1/2	148,936	1/2	163,959	1/2	178,972	1/2	193,952	1/2	208,796	1/2		1/2		1/2		1/2		1/2	
3/4	149,249	3/4	164,272	3/4	179,284	3/4	194,264	3/4	209,076	3/4		3/4		3/4		3/4		3/4	
1	149,562	1	164,585	1	179,596	1	194,576	1	209,356	1		1		1		1		1	
1/4	149,875	1/4	164,898	1/4	179,908	1/4	194,888	1/4	209,588	1/4		1/4		1/4		1/4		1/4	
1/2	150,188	1/2	165,211	1/2	180,220	1/2	195,200	1/2	209,820	1/2		1/2		1/2		1/2		1/2	
3/4	150,501	3/4	165,524	3/4	180,532	3/4	195,512	3/4	210,051	3/4		3/4		3/4		3/4		3/4	
2	150,814	2	165,837	2	180,845	2	195,824	2	210,283	2		2		2		2		2	
1/4	151,127	1/4	166,150	1/4	181,157	1/4	196,137	1/4	210,463	1/4		1/4		1/4		1/4		1/4	
1/2	151,440	1/2	166,463	1/2	181,469	1/2	196,449	1/2	210,642	1/2		1/2		1/2		1/2		1/2	
3/4	151,753	3/4	166,776	3/4	181,781	3/4	196,761	3/4	210,822	3/4		3/4		3/4		3/4		3/4	
3	152,066	3	167,089	3	182,093	3	197,073	3	211,002	3		3		3		3		3	
1/4	152,379	1/4	167,402	1/4	182,405	1/4	197,385	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,692	1/2	167,715	1/2	182,717	1/2	197,697	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,005	3/4	168,028	3/4	183,029	3/4	198,009	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,318	4	168,341	4	183,341	4	198,321	4		4		4		4		4		4	
1/4	153,631	1/4	168,654	1/4	183,653	1/4	198,633	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,944	1/2	168,967	1/2	183,965	1/2	198,945	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,257	3/4	169,280	3/4	184,277	3/4	199,257	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,570	5	169,593	5	184,590	5	199,569	5		5		5		5		5		5	
1/4	154,883	1/4	169,906	1/4	184,902	1/4	199,880	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,196	1/2	170,219	1/2	185,214	1/2	200,191	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,509	3/4	170,532	3/4	185,526	3/4	200,502	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,822	6	170,845	6	185,838	6	200,813	6		6		6		6		6		6	
1/4	156,135	1/4	171,158	1/4	186,150	1/4	201,123	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,448	1/2	171,471	1/2	186,462	1/2	201,433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,761	3/4	171,784	3/4	186,774	3/4	201,743	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,074	7	172,097	7	187,086	7	202,053	7		7		7		7		7		7	
1/4	157,387	1/4	172,410	1/4	187,398	1/4	202,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,700	1/2	172,723	1/2	187,710	1/2	202,673	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,012	3/4	173,036	3/4	188,022	3/4	202,983	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,325	8	173,349	8	188,334	8	203,293	8		8		8		8		8		8	
1/4	158,638	1/4	173,662	1/4	188,647	1/4	203,603	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,951	1/2	173,975	1/2	188,959	1/2	203,913	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,264	3/4	174,288	3/4	189,271	3/4	204,223	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,577	9	174,601	9	189,583	9	204,534	9		9		9		9		9		9	
1/4	159,890	1/4	174,914	1/4	189,895	1/4	204,843	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,203	1/2	175,226	1/2	190,207	1/2	205,153	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,516	3/4	175,539	3/4	190,519	3/4	205,463	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,829	10	175,851	10	190,831	10	205,773	10		10		10		10		10		10	
1/4	161,142	1/4	176,163	1/4	191,143	1/4	206,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,455	1/2	176,475	1/2	191,455	1/2	206,393	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,768	3/4	176,788	3/4	191,767	3/4	206,702	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,081	11	177,100	11	192,079	11	207,012	11		11		11		11		11		11	
1/4	162,394	1/4	177,412	1/4	192,392	1/4	207,318	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,707	1/2	177,724	1/2	192,704	1/2	207,623	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,020	3/4	178,036	3/4	193,016	3/4	207,929	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2019 CL
CALCULATED: 11/11/2019 CL
PRINTED: 11/11/2019 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 3027"

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	13,256	0	28,187	0	43,215	0	58,238	0	73,263	0	88,291	0	103,319	0	118,343	0	133,364
1/4	562	1/4	13,558	1/4	28,500	1/4	43,528	1/4	58,551	1/4	73,576	1/4	88,605	1/4	103,633	1/4	118,656	1/4	133,677
1/2	739	1/2	13,859	1/2	28,813	1/2	43,841	1/2	58,864	1/2	73,890	1/2	88,918	1/2	103,946	1/2	118,969	1/2	133,990
3/4	916	3/4	14,161	3/4	29,126	3/4	44,154	3/4	59,177	3/4	74,203	3/4	89,231	3/4	104,259	3/4	119,282	3/4	134,303
1	1,093	1	14,462	1	29,440	1	44,467	1	59,489	1	74,516	1	89,544	1	104,572	1	119,595	1	134,616
1/4	1,332	1/4	14,767	1/4	29,753	1/4	44,780	1/4	59,802	1/4	74,829	1/4	89,857	1/4	104,885	1/4	119,908	1/4	134,929
1/2	1,571	1/2	15,073	1/2	30,066	1/2	45,093	1/2	60,115	1/2	75,142	1/2	90,170	1/2	105,198	1/2	120,221	1/2	135,242
3/4	1,810	3/4	15,378	3/4	30,379	3/4	45,406	3/4	60,428	3/4	75,455	3/4	90,483	3/4	105,511	3/4	120,534	3/4	135,555
2	2,048	2	15,684	2	30,692	2	45,719	2	60,741	2	75,768	2	90,796	2	105,824	2	120,847	2	135,868
1/4	2,310	1/4	15,993	1/4	31,005	1/4	46,033	1/4	61,054	1/4	76,081	1/4	91,109	1/4	106,137	1/4	121,159	1/4	136,181
1/2	2,572	1/2	16,302	1/2	31,318	1/2	46,346	1/2	61,367	1/2	76,394	1/2	91,422	1/2	106,450	1/2	121,472	1/2	136,494
3/4	2,834	3/4	16,611	3/4	31,631	3/4	46,659	3/4	61,680	3/4	76,707	3/4	91,735	3/4	106,763	3/4	121,785	3/4	136,807
3	3,096	3	16,920	3	31,944	3	46,972	3	61,993	3	77,020	3	92,048	3	107,076	3	122,098	3	137,120
1/4	3,363	1/4	17,233	1/4	32,257	1/4	47,285	1/4	62,306	1/4	77,333	1/4	92,362	1/4	107,390	1/4	122,411	1/4	137,433
1/2	3,630	1/2	17,545	1/2	32,570	1/2	47,598	1/2	62,619	1/2	77,647	1/2	92,675	1/2	107,703	1/2	122,724	1/2	137,746
3/4	3,896	3/4	17,857	3/4	32,883	3/4	47,911	3/4	62,932	3/4	77,960	3/4	92,988	3/4	108,016	3/4	123,037	3/4	138,059
4	4,163	4	18,169	4	33,196	4	48,224	4	63,245	4	78,273	4	93,301	4	108,329	4	123,350	4	138,372
1/4	4,433	1/4	18,482	1/4	33,510	1/4	48,537	1/4	63,558	1/4	78,586	1/4	93,614	1/4	108,641	1/4	123,663	1/4	138,685
1/2	4,704	1/2	18,795	1/2	33,823	1/2	48,850	1/2	63,871	1/2	78,899	1/2	93,927	1/2	108,954	1/2	123,976	1/2	138,998
3/4	4,975	3/4	19,108	3/4	34,136	3/4	49,163	3/4	64,184	3/4	79,212	3/4	94,240	3/4	109,267	3/4	124,289	3/4	139,311
5	5,245	5	19,421	5	34,449	5	49,476	5	64,497	5	79,525	5	94,553	5	109,580	5	124,602	5	139,624
1/4	5,520	1/4	19,734	1/4	34,762	1/4	49,789	1/4	64,810	1/4	79,838	1/4	94,866	1/4	109,893	1/4	124,915	1/4	139,936
1/2	5,794	1/2	20,047	1/2	35,075	1/2	50,103	1/2	65,123	1/2	80,151	1/2	95,179	1/2	110,206	1/2	125,228	1/2	140,249
3/4	6,069	3/4	20,360	3/4	35,388	3/4	50,416	3/4	65,436	3/4	80,464	3/4	95,492	3/4	110,519	3/4	125,541	3/4	140,562
6	6,343	6	20,673	6	35,701	6	50,729	6	65,749	6	80,777	6	95,805	6	110,832	6	125,854	6	140,875
1/4	6,622	1/4	20,987	1/4	36,014	1/4	51,042	1/4	66,062	1/4	81,090	1/4	96,119	1/4	111,145	1/4	126,167	1/4	141,188
1/2	6,900	1/2	21,300	1/2	36,327	1/2	51,355	1/2	66,375	1/2	81,404	1/2	96,432	1/2	111,458	1/2	126,480	1/2	141,501
3/4	7,179	3/4	21,613	3/4	36,640	3/4	51,668	3/4	66,689	3/4	81,717	3/4	96,745	3/4	111,771	3/4	126,793	3/4	141,814
7	7,457	7	21,926	7	36,953	7	51,981	7	67,002	7	82,030	7	97,058	7	112,084	7	127,105	7	142,127
1/4	7,739	1/4	22,239	1/4	37,266	1/4	52,294	1/4	67,315	1/4	82,343	1/4	97,371	1/4	112,397	1/4	127,418	1/4	142,440
1/2	8,021	1/2	22,552	1/2	37,580	1/2	52,607	1/2	67,628	1/2	82,656	1/2	97,684	1/2	112,710	1/2	127,731	1/2	142,753
3/4	8,304	3/4	22,865	3/4	37,893	3/4	52,919	3/4	67,941	3/4	82,969	3/4	97,997	3/4	113,023	3/4	128,044	3/4	143,066
8	8,586	8	23,178	8	38,206	8	53,232	8	68,254	8	83,282	8	98,310	8	113,336	8	128,357	8	143,379
1/4	8,872	1/4	23,491	1/4	38,519	1/4	53,545	1/4	68,567	1/4	83,595	1/4	98,623	1/4	113,649	1/4	128,670	1/4	143,692
1/2	9,158	1/2	23,804	1/2	38,832	1/2	53,858	1/2	68,880	1/2	83,908	1/2	98,936	1/2	113,962	1/2	128,983	1/2	144,005
3/4	9,444	3/4	24,117	3/4	39,145	3/4	54,171	3/4	69,193	3/4	84,221	3/4	99,249	3/4	114,275	3/4	129,296	3/4	144,318
9	9,730	9	24,430	9	39,458	9	54,484	9	69,506	9	84,534	9	99,562	9	114,588	9	129,609	9	144,631
1/4	10,020	1/4	24,743	1/4	39,771	1/4	54,797	1/4	69,819	1/4	84,847	1/4	99,876	1/4	114,900	1/4	129,922	1/4	144,944
1/2	10,310	1/2	25,057	1/2	40,084	1/2	55,110	1/2	70,133	1/2	85,161	1/2	100,189	1/2	115,213	1/2	130,235	1/2	145,257
3/4	10,600	3/4	25,370	3/4	40,397	3/4	55,422	3/4	70,446	3/4	85,474	3/4	100,502	3/4	115,526	3/4	130,548	3/4	145,570
10	10,890	10	25,683	10	40,710	10	55,735	10	70,759	10	85,787	10	100,815	10	115,839	10	130,861	10	145,883
1/4	11,184	1/4	25,996	1/4	41,023	1/4	56,048	1/4	71,072	1/4	86,100	1/4	101,128	1/4	116,152	1/4	131,174	1/4	146,196
1/2	11,478	1/2	26,309	1/2	41,336	1/2	56,361	1/2	71,385	1/2	86,413	1/2	101,441	1/2	116,465	1/2	131,487	1/2	146,508
3/4	11,772	3/4	26,622	3/4	41,649	3/4	56,674	3/4	71,698	3/4	86,726	3/4	101,754	3/4	116,778	3/4	131,800	3/4	146,821
11	12,065	11	26,935	11	41,963	11	56,987	11	72,011	11	87,039	11	102,067	11	117,091	11	132,113	11	147,134
1/4	12,363	1/4	27,248	1/4	42,276	1/4	57,299	1/4	72,324	1/4	87,352	1/4	102,380	1/4	117,404	1/4	132,426	1/4	147,447
1/2	12,661	1/2	27,561	1/2	42,589	1/2	57,612	1/2	72,637	1/2	87,665	1/2	102,693	1/2	117,717	1/2	132,739	1/2	147,760
3/4	12,958	3/4	27,874	3/4	42,902	3/4	57,925	3/4	72,950	3/4	87,978	3/4	103,006	3/4	118,030	3/4	133,052	3/4	148,073

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 3027"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,386	0	163,408	0	178,421	0	193,399	0	208,304	0		0		0		0		0	
1/4	148,699	1/4	163,721	1/4	178,733	1/4	193,711	1/4	208,584	1/4		1/4		1/4		1/4		1/4	
1/2	149,012	1/2	164,034	1/2	179,045	1/2	194,023	1/2	208,865	1/2		1/2		1/2		1/2		1/2	
3/4	149,325	3/4	164,347	3/4	179,357	3/4	194,335	3/4	209,145	3/4		3/4		3/4		3/4		3/4	
1	149,638	1	164,660	1	179,669	1	194,647	1	209,425	1		1		1		1		1	
1/4	149,951	1/4	164,973	1/4	179,981	1/4	194,959	1/4	209,657	1/4		1/4		1/4		1/4		1/4	
1/2	150,264	1/2	165,286	1/2	180,293	1/2	195,271	1/2	209,888	1/2		1/2		1/2		1/2		1/2	
3/4	150,577	3/4	165,599	3/4	180,605	3/4	195,583	3/4	210,120	3/4		3/4		3/4		3/4		3/4	
2	150,890	2	165,912	2	180,917	2	195,895	2	210,352	2		2		2		2		2	
1/4	151,203	1/4	166,225	1/4	181,229	1/4	196,207	1/4	210,532	1/4		1/4		1/4		1/4		1/4	
1/2	151,516	1/2	166,538	1/2	181,541	1/2	196,519	1/2	210,711	1/2		1/2		1/2		1/2		1/2	
3/4	151,829	3/4	166,851	3/4	181,853	3/4	196,831	3/4	210,891	3/4		3/4		3/4		3/4		3/4	
3	152,142	3	167,163	3	182,165	3	197,143	3	211,070	3		3		3		3		3	
1/4	152,455	1/4	167,476	1/4	182,477	1/4	197,455	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,768	1/2	167,789	1/2	182,789	1/2	197,767	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,081	3/4	168,102	3/4	183,101	3/4	198,079	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,393	4	168,415	4	183,413	4	198,391	4		4		4		4		4		4	
1/4	153,706	1/4	168,728	1/4	183,725	1/4	198,703	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,019	1/2	169,041	1/2	184,037	1/2	199,015	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,332	3/4	169,354	3/4	184,349	3/4	199,327	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,645	5	169,667	5	184,662	5	199,640	5		5		5		5		5		5	
1/4	154,958	1/4	169,980	1/4	184,974	1/4	199,950	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,271	1/2	170,293	1/2	185,286	1/2	200,261	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,584	3/4	170,606	3/4	185,598	3/4	200,572	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,897	6	170,919	6	185,910	6	200,883	6		6		6		6		6		6	
1/4	156,210	1/4	171,232	1/4	186,222	1/4	201,193	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,523	1/2	171,545	1/2	186,534	1/2	201,503	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,836	3/4	171,858	3/4	186,846	3/4	201,813	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,149	7	172,171	7	187,158	7	202,123	7		7		7		7		7		7	
1/4	157,462	1/4	172,484	1/4	187,470	1/4	202,433	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,775	1/2	172,797	1/2	187,782	1/2	202,743	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,088	3/4	173,110	3/4	188,094	3/4	203,053	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,401	8	173,423	8	188,406	8	203,363	8		8		8		8		8		8	
1/4	158,714	1/4	173,736	1/4	188,718	1/4	203,673	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,027	1/2	174,048	1/2	189,030	1/2	203,983	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,340	3/4	174,361	3/4	189,342	3/4	204,293	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,653	9	174,674	9	189,654	9	204,603	9		9		9		9		9		9	
1/4	159,966	1/4	174,987	1/4	189,966	1/4	204,913	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,278	1/2	175,299	1/2	190,278	1/2	205,223	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,591	3/4	175,612	3/4	190,590	3/4	205,533	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,904	10	175,924	10	190,902	10	205,843	10		10		10		10		10		10	
1/4	161,217	1/4	176,236	1/4	191,214	1/4	206,152	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,530	1/2	176,548	1/2	191,526	1/2	206,462	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,843	3/4	176,860	3/4	191,838	3/4	206,771	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,156	11	177,173	11	192,151	11	207,081	11		11		11		11		11		11	
1/4	162,469	1/4	177,485	1/4	192,463	1/4	207,387	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,782	1/2	177,797	1/2	192,775	1/2	207,693	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,095	3/4	178,109	3/4	193,087	3/4	207,998	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3027"

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	1,033	0	15,718	0	30,802	0	45,514	0	60,021	0	74,895	0	89,982	0	105,069	0	120,150	0	135,229
1/4	1,269	1/4	16,032	1/4	31,116	1/4	45,816	1/4	60,323	1/4	75,210	1/4	90,296	1/4	105,383	1/4	120,464	1/4	135,543
1/2	1,504	1/2	16,347	1/2	31,431	1/2	46,118	1/2	60,626	1/2	75,524	1/2	90,611	1/2	105,697	1/2	120,778	1/2	135,858
3/4	1,740	3/4	16,661	3/4	31,745	3/4	46,419	3/4	60,928	3/4	75,838	3/4	90,925	3/4	106,012	3/4	121,093	3/4	136,172
1	1,976	1	16,975	1	32,059	1	46,721	1	61,231	1	76,152	1	91,239	1	106,326	1	121,407	1	136,486
1/4	2,270	1/4	17,290	1/4	32,374	1/4	47,022	1/4	61,533	1/4	76,467	1/4	91,553	1/4	106,640	1/4	121,721	1/4	136,800
1/2	2,564	1/2	17,604	1/2	32,688	1/2	47,324	1/2	61,836	1/2	76,781	1/2	91,868	1/2	106,955	1/2	122,035	1/2	137,114
3/4	2,857	3/4	17,918	3/4	33,002	3/4	47,626	3/4	62,138	3/4	77,095	3/4	92,182	3/4	107,269	3/4	122,349	3/4	137,428
2	3,151	2	18,232	2	33,316	2	47,927	2	62,441	2	77,410	2	92,496	2	107,583	2	122,663	2	137,742
1/4	3,465	1/4	18,547	1/4	33,631	1/4	48,229	1/4	62,743	1/4	77,724	1/4	92,811	1/4	107,897	1/4	122,977	1/4	138,057
1/2	3,778	1/2	18,861	1/2	33,945	1/2	48,531	1/2	63,046	1/2	78,038	1/2	93,125	1/2	108,212	1/2	123,292	1/2	138,371
3/4	4,091	3/4	19,175	3/4	34,259	3/4	48,832	3/4	63,348	3/4	78,353	3/4	93,439	3/4	108,526	3/4	123,606	3/4	138,685
3	4,404	3	19,490	3	34,574	3	49,134	3	63,651	3	78,667	3	93,754	3	108,840	3	123,920	3	138,999
1/4	4,719	1/4	19,804	1/4	34,888	1/4	49,436	1/4	63,953	1/4	78,981	1/4	94,068	1/4	109,155	1/4	124,234	1/4	139,313
1/2	5,033	1/2	20,118	1/2	35,202	1/2	49,738	1/2	64,256	1/2	79,296	1/2	94,382	1/2	109,469	1/2	124,548	1/2	139,627
3/4	5,347	3/4	20,433	3/4	35,517	3/4	50,039	3/4	64,558	3/4	79,610	3/4	94,697	3/4	109,783	3/4	124,862	3/4	139,942
4	5,661	4	20,747	4	35,831	4	50,341	4	64,861	4	79,924	4	95,011	4	110,097	4	125,176	4	140,256
1/4	5,975	1/4	21,061	1/4	36,139	1/4	50,643	1/4	65,169	1/4	80,238	1/4	95,325	1/4	110,411	1/4	125,491	1/4	140,570
1/2	6,289	1/2	21,375	1/2	36,448	1/2	50,946	1/2	65,478	1/2	80,553	1/2	95,639	1/2	110,726	1/2	125,805	1/2	140,884
3/4	6,603	3/4	21,690	3/4	36,756	3/4	51,248	3/4	65,786	3/4	80,867	3/4	95,954	3/4	111,040	3/4	126,119	3/4	141,198
5	6,918	5	22,004	5	37,064	5	51,550	5	66,095	5	81,181	5	96,268	5	111,354	5	126,433	5	141,512
1/4	7,232	1/4	22,318	1/4	37,367	1/4	51,852	1/4	66,409	1/4	81,496	1/4	96,582	1/4	111,668	1/4	126,747	1/4	141,826
1/2	7,546	1/2	22,633	1/2	37,669	1/2	52,155	1/2	66,723	1/2	81,810	1/2	96,897	1/2	111,982	1/2	127,061	1/2	142,141
3/4	7,861	3/4	22,947	3/4	37,972	3/4	52,457	3/4	67,038	3/4	82,124	3/4	97,211	3/4	112,296	3/4	127,376	3/4	142,455
6	8,175	6	23,261	6	38,275	6	52,760	6	67,352	6	82,439	6	97,525	6	112,611	6	127,690	6	142,769
1/4	8,489	1/4	23,576	1/4	38,577	1/4	53,062	1/4	67,666	1/4	82,753	1/4	97,840	1/4	112,925	1/4	128,004	1/4	143,083
1/2	8,804	1/2	23,890	1/2	38,879	1/2	53,365	1/2	67,980	1/2	83,067	1/2	98,154	1/2	113,239	1/2	128,318	1/2	143,397
3/4	9,118	3/4	24,204	3/4	39,181	3/4	53,668	3/4	68,295	3/4	83,381	3/4	98,468	3/4	113,553	3/4	128,632	3/4	143,711
7	9,432	7	24,518	7	39,483	7	53,970	7	68,609	7	83,696	7	98,783	7	113,867	7	128,946	7	144,025
1/4	9,746	1/4	24,833	1/4	39,784	1/4	54,273	1/4	68,923	1/4	84,010	1/4	99,097	1/4	114,181	1/4	129,260	1/4	144,340
1/2	10,061	1/2	25,147	1/2	40,086	1/2	54,575	1/2	69,238	1/2	84,324	1/2	99,411	1/2	114,495	1/2	129,575	1/2	144,654
3/4	10,375	3/4	25,461	3/4	40,387	3/4	54,878	3/4	69,552	3/4	84,639	3/4	99,725	3/4	114,810	3/4	129,889	3/4	144,968
8	10,689	8	25,776	8	40,689	8	55,180	8	69,866	8	84,953	8	100,040	8	115,124	8	130,203	8	145,282
1/4	11,004	1/4	26,090	1/4	40,991	1/4	55,483	1/4	70,181	1/4	85,267	1/4	100,354	1/4	115,438	1/4	130,517	1/4	145,596
1/2	11,318	1/2	26,404	1/2	41,292	1/2	55,785	1/2	70,495	1/2	85,582	1/2	100,668	1/2	115,752	1/2	130,831	1/2	145,910
3/4	11,632	3/4	26,718	3/4	41,594	3/4	56,088	3/4	70,809	3/4	85,896	3/4	100,983	3/4	116,066	3/4	131,145	3/4	146,225
9	11,946	9	27,033	9	41,895	9	56,390	9	71,124	9	86,210	9	101,297	9	116,380	9	131,459	9	146,539
1/4	12,261	1/4	27,347	1/4	42,197	1/4	56,693	1/4	71,438	1/4	86,525	1/4	101,611	1/4	116,694	1/4	131,774	1/4	146,853
1/2	12,575	1/2	27,661	1/2	42,499	1/2	56,995	1/2	71,752	1/2	86,839	1/2	101,926	1/2	117,009	1/2	132,088	1/2	147,167
3/4	12,889	3/4	27,975	3/4	42,800	3/4	57,298	3/4	72,066	3/4	87,153	3/4	102,240	3/4	117,323	3/4	132,402	3/4	147,481
10	13,204	10	28,289	10	43,102	10	57,600	10	72,381	10	87,467	10	102,554	10	117,637	10	132,716	10	147,795
1/4	13,518	1/4	28,603	1/4	43,403	1/4	57,903	1/4	72,695	1/4	87,782	1/4	102,869	1/4	117,951	1/4	133,030	1/4	148,109
1/2	13,832	1/2	28,917	1/2	43,705	1/2	58,205	1/2	73,009	1/2	88,096	1/2	103,183	1/2	118,265	1/2	133,344	1/2	148,424
3/4	14,147	3/4	29,231	3/4	44,006	3/4	58,508	3/4	73,324	3/4	88,410	3/4	103,497	3/4	118,579	3/4	133,659	3/4	148,738
11	14,461	11	29,545	11	44,308	11	58,810	11	73,638	11	88,725	11	103,811	11	118,893	11	133,973	11	149,052
1/4	14,775	1/4	29,859	1/4	44,610	1/4	59,113	1/4	73,952	1/4	89,039	1/4	104,126	1/4	119,208	1/4	134,287	1/4	149,366
1/2	15,089	1/2	30,174	1/2	44,911	1/2	59,415	1/2	74,267	1/2	89,353	1/2	104,440	1/2	119,522	1/2	134,601	1/2	149,680
3/4	15,404	3/4	30,488	3/4	45,213	3/4	59,718	3/4	74,581	3/4	89,668	3/4	104,754	3/4	119,836	3/4	134,915	3/4	149,994

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 3027"

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	150,308	0	165,388	0	180,456	0	195,484	0	210,415	0		0		0		0		0	
1/4	150,623	1/4	165,702	1/4	180,769	1/4	195,797	1/4	210,695	1/4		1/4		1/4		1/4		1/4	
1/2	150,937	1/2	166,016	1/2	181,082	1/2	196,110	1/2	210,975	1/2		1/2		1/2		1/2		1/2	
3/4	151,251	3/4	166,330	3/4	181,395	3/4	196,423	3/4	211,256	3/4		3/4		3/4		3/4		3/4	
1	151,565	1	166,644	1	181,708	1	196,736	1	211,536	1		1		1		1		1	
1/4	151,879	1/4	166,958	1/4	182,022	1/4	197,050	1/4	211,767	1/4		1/4		1/4		1/4		1/4	
1/2	152,193	1/2	167,273	1/2	182,335	1/2	197,363	1/2	211,999	1/2		1/2		1/2		1/2		1/2	
3/4	152,508	3/4	167,587	3/4	182,648	3/4	197,676	3/4	212,230	3/4		3/4		3/4		3/4		3/4	
2	152,822	2	167,901	2	182,961	2	197,989	2	212,462	2		2		2		2		2	
1/4	153,136	1/4	168,215	1/4	183,274	1/4	198,302	1/4	212,641	1/4		1/4		1/4		1/4		1/4	
1/2	153,450	1/2	168,529	1/2	183,587	1/2	198,615	1/2	212,820	1/2		1/2		1/2		1/2		1/2	
3/4	153,764	3/4	168,843	3/4	183,900	3/4	198,928	3/4	213,000	3/4		3/4		3/4		3/4		3/4	
3	154,078	3	169,157	3	184,213	3	199,241	3	213,179	3		3		3		3		3	
1/4	154,392	1/4	169,472	1/4	184,526	1/4	199,554	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,707	1/2	169,786	1/2	184,839	1/2	199,867	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,021	3/4	170,100	3/4	185,152	3/4	200,180	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,335	4	170,414	4	185,465	4	200,493	4		4		4		4		4		4	
1/4	155,649	1/4	170,728	1/4	185,779	1/4	200,807	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,963	1/2	171,042	1/2	186,092	1/2	201,120	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,277	3/4	171,356	3/4	186,405	3/4	201,433	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,591	5	171,671	5	186,718	5	201,746	5		5		5		5		5		5	
1/4	156,906	1/4	171,985	1/4	187,031	1/4	202,057	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,220	1/2	172,299	1/2	187,344	1/2	202,369	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,534	3/4	172,613	3/4	187,657	3/4	202,680	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,848	6	172,927	6	187,970	6	202,992	6		6		6		6		6		6	
1/4	158,162	1/4	173,241	1/4	188,283	1/4	203,302	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,476	1/2	173,556	1/2	188,596	1/2	203,612	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,790	3/4	173,870	3/4	188,909	3/4	203,922	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,105	7	174,184	7	189,222	7	204,232	7		7		7		7		7		7	
1/4	159,419	1/4	174,498	1/4	189,536	1/4	204,542	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,733	1/2	174,812	1/2	189,849	1/2	204,852	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,047	3/4	175,126	3/4	190,162	3/4	205,162	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,361	8	175,440	8	190,475	8	205,472	8		8		8		8		8		8	
1/4	160,675	1/4	175,755	1/4	190,788	1/4	205,782	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,990	1/2	176,069	1/2	191,101	1/2	206,092	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,304	3/4	176,383	3/4	191,414	3/4	206,403	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,618	9	176,697	9	191,727	9	206,713	9		9		9		9		9		9	
1/4	161,932	1/4	177,011	1/4	192,040	1/4	207,023	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,246	1/2	177,324	1/2	192,353	1/2	207,333	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,560	3/4	177,638	3/4	192,666	3/4	207,643	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,874	10	177,951	10	192,979	10	207,953	10		10		10		10		10		10	
1/4	163,189	1/4	178,265	1/4	193,293	1/4	208,262	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,503	1/2	178,578	1/2	193,606	1/2	208,572	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,817	3/4	178,891	3/4	193,919	3/4	208,882	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,131	11	179,204	11	194,232	11	209,191	11		11		11		11		11		11	
1/4	164,445	1/4	179,517	1/4	194,545	1/4	209,497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,759	1/2	179,830	1/2	194,858	1/2	209,803	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,073	3/4	180,143	3/4	195,171	3/4	210,109	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
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BARGE "HSM 3027"

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	2,213	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.
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 Pearland, Texas 77588
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BARGE "HSM 3027"

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	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
4	156,524	4	171,609	4	186,666	4	201,699	4	214,389	4		4		4		4		4	
1/4	156,839	1/4	171,923	1/4	186,979	1/4	202,013	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
5	157,781	5	172,866	5	187,919	5	202,952	5	214,389	5		5		5		5		5	
1/4	158,096	1/4	173,180	1/4	188,232	1/4	203,264	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
6	159,038	6	174,123	6	189,172	6	204,199	6	214,389	6		6		6		6		6	
1/4	159,353	1/4	174,437	1/4	189,485	1/4	204,509	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
7	160,296	7	175,380	7	190,424	7	205,439	7	214,389	7		7		7		7		7	
1/4	160,610	1/4	175,694	1/4	190,738	1/4	205,749	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
8	161,553	8	176,637	8	191,677	8	206,680	8	214,389	8		8		8		8		8	
1/4	161,867	1/4	176,951	1/4	191,990	1/4	206,990	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
9	162,810	9	177,894	9	192,930	9	207,921	9	214,389	9		9		9		9		9	
1/4	163,124	1/4	178,208	1/4	193,243	1/4	208,231	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
10	164,067	10	179,149	10	194,183	10	209,162	10	214,389	10		10		10		10		10	
1/4	164,381	1/4	179,462	1/4	194,496	1/4	209,471	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	
11	165,324	11	180,402	11	195,435	11	210,401	11	214,389	11		11		11		11		11	
1/4	165,638	1/4	180,715	1/4	195,749	1/4	210,707	1/4	214,389	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	214,389	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	214,389	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3027"

3 PORT 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	1,027	0	15,613	0	30,582	0	45,323	0	59,862	0	74,752	0	89,699	0	104,658	0	119,607	0	134,552
1/4	1,261	1/4	15,925	1/4	30,894	1/4	45,625	1/4	60,173	1/4	75,062	1/4	90,011	1/4	104,970	1/4	119,918	1/4	134,863
1/2	1,495	1/2	16,237	1/2	31,206	1/2	45,926	1/2	60,485	1/2	75,372	1/2	90,322	1/2	105,282	1/2	120,229	1/2	135,175
3/4	1,730	3/4	16,549	3/4	31,518	3/4	46,227	3/4	60,796	3/4	75,682	3/4	90,634	3/4	105,593	3/4	120,541	3/4	135,486
1	1,964	1	16,861	1	31,830	1	46,529	1	61,108	1	75,992	1	90,945	1	105,905	1	120,852	1	135,797
1/4	2,256	1/4	17,173	1/4	32,142	1/4	46,830	1/4	61,419	1/4	76,302	1/4	91,257	1/4	106,217	1/4	121,164	1/4	136,109
1/2	2,548	1/2	17,484	1/2	32,454	1/2	47,132	1/2	61,731	1/2	76,612	1/2	91,568	1/2	106,528	1/2	121,475	1/2	136,420
3/4	2,840	3/4	17,796	3/4	32,766	3/4	47,433	3/4	62,042	3/4	76,922	3/4	91,880	3/4	106,840	3/4	121,786	3/4	136,732
2	3,132	2	18,108	2	33,078	2	47,735	2	62,354	2	77,231	2	92,191	2	107,152	2	122,098	2	137,043
1/4	3,444	1/4	18,420	1/4	33,389	1/4	48,037	1/4	62,665	1/4	77,542	1/4	92,503	1/4	107,463	1/4	122,409	1/4	137,354
1/2	3,755	1/2	18,732	1/2	33,701	1/2	48,339	1/2	62,975	1/2	77,853	1/2	92,814	1/2	107,775	1/2	122,720	1/2	137,666
3/4	4,066	3/4	19,044	3/4	34,013	3/4	48,641	3/4	63,286	3/4	78,164	3/4	93,126	3/4	108,086	3/4	123,032	3/4	137,977
3	4,378	3	19,356	3	34,325	3	48,943	3	63,597	3	78,475	3	93,438	3	108,397	3	123,343	3	138,288
1/4	4,690	1/4	19,668	1/4	34,637	1/4	49,245	1/4	63,907	1/4	78,787	1/4	93,749	1/4	108,709	1/4	123,654	1/4	138,600
1/2	5,002	1/2	19,980	1/2	34,948	1/2	49,547	1/2	64,217	1/2	79,099	1/2	94,061	1/2	109,020	1/2	123,966	1/2	138,911
3/4	5,314	3/4	20,292	3/4	35,259	3/4	49,850	3/4	64,526	3/4	79,410	3/4	94,372	3/4	109,332	3/4	124,277	3/4	139,222
4	5,626	4	20,603	4	35,571	4	50,152	4	64,836	4	79,722	4	94,684	4	109,643	4	124,588	4	139,534
1/4	5,938	1/4	20,915	1/4	35,878	1/4	50,454	1/4	65,146	1/4	80,034	1/4	94,995	1/4	109,955	1/4	124,900	1/4	139,845
1/2	6,250	1/2	21,227	1/2	36,186	1/2	50,756	1/2	65,456	1/2	80,346	1/2	95,307	1/2	110,266	1/2	125,211	1/2	140,156
3/4	6,562	3/4	21,539	3/4	36,494	3/4	51,058	3/4	65,766	3/4	80,658	3/4	95,618	3/4	110,577	3/4	125,523	3/4	140,468
5	6,874	5	21,851	5	36,802	5	51,360	5	66,076	5	80,970	5	95,930	5	110,889	5	125,834	5	140,779
1/4	7,186	1/4	22,163	1/4	37,106	1/4	51,662	1/4	66,386	1/4	81,281	1/4	96,241	1/4	111,200	1/4	126,145	1/4	141,090
1/2	7,499	1/2	22,475	1/2	37,411	1/2	51,964	1/2	66,696	1/2	81,593	1/2	96,553	1/2	111,511	1/2	126,457	1/2	141,401
3/4	7,811	3/4	22,787	3/4	37,715	3/4	52,266	3/4	67,005	3/4	81,905	3/4	96,864	3/4	111,823	3/4	126,768	3/4	141,712
6	8,123	6	23,099	6	38,020	6	52,568	6	67,315	6	82,217	6	97,176	6	112,134	6	127,079	6	142,023
1/4	8,435	1/4	23,411	1/4	38,325	1/4	52,870	1/4	67,625	1/4	82,529	1/4	97,487	1/4	112,445	1/4	127,391	1/4	142,330
1/2	8,747	1/2	23,723	1/2	38,629	1/2	53,172	1/2	67,935	1/2	82,841	1/2	97,799	1/2	112,757	1/2	127,702	1/2	142,637
3/4	9,060	3/4	24,034	3/4	38,934	3/4	53,474	3/4	68,245	3/4	83,152	3/4	98,111	3/4	113,068	3/4	128,013	3/4	142,943
7	9,372	7	24,346	7	39,238	7	53,776	7	68,555	7	83,464	7	98,422	7	113,379	7	128,325	7	143,250
1/4	9,684	1/4	24,658	1/4	39,543	1/4	54,078	1/4	68,865	1/4	83,776	1/4	98,734	1/4	113,691	1/4	128,636	1/4	143,544
1/2	9,997	1/2	24,970	1/2	39,848	1/2	54,380	1/2	69,175	1/2	84,088	1/2	99,046	1/2	114,002	1/2	128,948	1/2	143,838
3/4	10,309	3/4	25,282	3/4	40,152	3/4	54,682	3/4	69,484	3/4	84,400	3/4	99,358	3/4	114,314	3/4	129,259	3/4	144,133
8	10,622	8	25,594	8	40,457	8	54,984	8	69,794	8	84,712	8	99,670	8	114,625	8	129,570	8	144,427
1/4	10,934	1/4	25,906	1/4	40,761	1/4	55,286	1/4	70,104	1/4	85,023	1/4	99,981	1/4	114,936	1/4	129,882	1/4	144,705
1/2	11,246	1/2	26,218	1/2	41,066	1/2	55,589	1/2	70,414	1/2	85,335	1/2	100,293	1/2	115,248	1/2	130,193	1/2	144,983
3/4	11,558	3/4	26,529	3/4	41,370	3/4	55,891	3/4	70,724	3/4	85,647	3/4	100,605	3/4	115,559	3/4	130,504	3/4	145,262
9	11,870	9	26,841	9	41,675	9	56,193	9	71,034	9	85,959	9	100,917	9	115,870	9	130,816	9	145,540
1/4	12,182	1/4	27,153	1/4	41,980	1/4	56,496	1/4	71,344	1/4	86,271	1/4	101,228	1/4	116,182	1/4	131,127	1/4	145,802
1/2	12,494	1/2	27,465	1/2	42,284	1/2	56,800	1/2	71,654	1/2	86,583	1/2	101,540	1/2	116,493	1/2	131,438	1/2	146,065
3/4	12,806	3/4	27,776	3/4	42,589	3/4	57,104	3/4	71,963	3/4	86,895	3/4	101,852	3/4	116,804	3/4	131,750	3/4	146,328
10	13,118	10	28,088	10	42,893	10	57,407	10	72,273	10	87,206	10	102,164	10	117,116	10	132,061	10	146,590
1/4	13,430	1/4	28,400	1/4	43,198	1/4	57,712	1/4	72,583	1/4	87,518	1/4	102,476	1/4	117,427	1/4	132,373	1/4	146,837
1/2	13,742	1/2	28,712	1/2	43,503	1/2	58,018	1/2	72,893	1/2	87,830	1/2	102,787	1/2	117,739	1/2	132,684	1/2	147,084
3/4	14,054	3/4	29,023	3/4	43,807	3/4	58,323	3/4	73,203	3/4	88,141	3/4	103,099	3/4	118,050	3/4	132,995	3/4	147,331
11	14,365	11	29,335	11	44,112	11	58,628	11	73,513	11	88,453	11	103,411	11	118,361	11	133,307	11	147,578
1/4	14,677	1/4	29,647	1/4	44,415	1/4	58,936	1/4	73,823	1/4	88,765	1/4	103,723	1/4	118,673	1/4	133,618	1/4	147,808
1/2	14,989	1/2	29,959	1/2	44,718	1/2	59,245	1/2	74,133	1/2	89,076	1/2	104,034	1/2	118,984	1/2	133,929	1/2	148,039
3/4	15,301	3/4	30,271	3/4	45,021	3/4	59,553	3/4	74,442	3/4	89,388	3/4	104,346	3/4	119,295	3/4	134,241	3/4	148,270

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 3027"

3 PORT 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	148,501	0	158,869	0	169,216	0	179,534	0	189,838	0		0		0		0		0	
1/4	148,720	1/4	159,085	1/4	169,431	1/4	179,749	1/4	190,031	1/4		1/4		1/4		1/4		1/4	
1/2	148,939	1/2	159,301	1/2	169,646	1/2	179,964	1/2	190,223	1/2		1/2		1/2		1/2		1/2	
3/4	149,158	3/4	159,516	3/4	169,861	3/4	180,179	3/4	190,416	3/4		3/4		3/4		3/4		3/4	
1	149,378	1	159,732	1	170,076	1	180,394	1	190,609	1		1		1		1		1	
1/4	149,593	1/4	159,948	1/4	170,291	1/4	180,609	1/4	190,768	1/4		1/4		1/4		1/4		1/4	
1/2	149,809	1/2	160,164	1/2	170,506	1/2	180,824	1/2	190,928	1/2		1/2		1/2		1/2		1/2	
3/4	150,025	3/4	160,379	3/4	170,721	3/4	181,039	3/4	191,087	3/4		3/4		3/4		3/4		3/4	
2	150,241	2	160,595	2	170,936	2	181,254	2	191,247	2		2		2		2		2	
1/4	150,456	1/4	160,811	1/4	171,151	1/4	181,469	1/4	191,370	1/4		1/4		1/4		1/4		1/4	
1/2	150,672	1/2	161,026	1/2	171,366	1/2	181,684	1/2	191,494	1/2		1/2		1/2		1/2		1/2	
3/4	150,888	3/4	161,242	3/4	171,581	3/4	181,899	3/4	191,617	3/4		3/4		3/4		3/4		3/4	
3	151,103	3	161,458	3	171,796	3	182,114	3	191,741	3		3		3		3		3	
1/4	151,319	1/4	161,674	1/4	172,011	1/4	182,329	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,535	1/2	161,889	1/2	172,226	1/2	182,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,751	3/4	162,105	3/4	172,441	3/4	182,759	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,966	4	162,321	4	172,656	4	182,974	4		4		4		4		4		4	
1/4	152,182	1/4	162,537	1/4	172,870	1/4	183,188	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,398	1/2	162,752	1/2	173,085	1/2	183,403	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,613	3/4	162,968	3/4	173,300	3/4	183,618	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,829	5	163,184	5	173,515	5	183,833	5		5		5		5		5		5	
1/4	153,045	1/4	163,399	1/4	173,730	1/4	184,048	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,261	1/2	163,615	1/2	173,945	1/2	184,263	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,476	3/4	163,831	3/4	174,160	3/4	184,478	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,692	6	164,047	6	174,375	6	184,693	6		6		6		6		6		6	
1/4	153,908	1/4	164,262	1/4	174,590	1/4	184,908	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,124	1/2	164,478	1/2	174,805	1/2	185,123	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,339	3/4	164,694	3/4	175,020	3/4	185,338	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,555	7	164,909	7	175,235	7	185,553	7		7		7		7		7		7	
1/4	154,771	1/4	165,125	1/4	175,450	1/4	185,768	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,986	1/2	165,341	1/2	175,665	1/2	185,983	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,202	3/4	165,557	3/4	175,880	3/4	186,198	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,418	8	165,772	8	176,095	8	186,413	8		8		8		8		8		8	
1/4	155,634	1/4	165,988	1/4	176,310	1/4	186,628	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,849	1/2	166,204	1/2	176,525	1/2	186,843	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,065	3/4	166,419	3/4	176,740	3/4	187,058	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,281	9	166,635	9	176,955	9	187,273	9		9		9		9		9		9	
1/4	156,496	1/4	166,850	1/4	177,170	1/4	187,488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,712	1/2	167,066	1/2	177,385	1/2	187,703	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,928	3/4	167,281	3/4	177,600	3/4	187,918	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,144	10	167,496	10	177,815	10	188,133	10		10		10		10		10		10	
1/4	157,359	1/4	167,711	1/4	178,029	1/4	188,348	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,575	1/2	167,926	1/2	178,244	1/2	188,563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,791	3/4	168,141	3/4	178,459	3/4	188,778	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,006	11	168,356	11	178,674	11	188,992	11		11		11		11		11		11	
1/4	158,222	1/4	168,571	1/4	178,889	1/4	189,204	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,438	1/2	168,786	1/2	179,104	1/2	189,415	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,654	3/4	169,001	3/4	179,319	3/4	189,626	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3027"

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	1,027	0	15,627	0	30,625	0	45,607	0	60,604	0	75,603	0	90,602	0	105,601	0	120,583	0	135,562
1/4	1,261	1/4	15,939	1/4	30,937	1/4	45,919	1/4	60,917	1/4	75,916	1/4	90,914	1/4	105,913	1/4	120,895	1/4	135,874
1/2	1,496	1/2	16,251	1/2	31,250	1/2	46,232	1/2	61,229	1/2	76,228	1/2	91,227	1/2	106,226	1/2	121,207	1/2	136,186
3/4	1,730	3/4	16,564	3/4	31,562	3/4	46,544	3/4	61,542	3/4	76,541	3/4	91,539	3/4	106,538	3/4	121,519	3/4	136,498
1	1,964	1	16,876	1	31,875	1	46,856	1	61,854	1	76,853	1	91,852	1	106,851	1	121,831	1	136,810
1/4	2,256	1/4	17,189	1/4	32,187	1/4	47,168	1/4	62,167	1/4	77,166	1/4	92,164	1/4	107,163	1/4	122,143	1/4	137,122
1/2	2,549	1/2	17,501	1/2	32,500	1/2	47,481	1/2	62,479	1/2	77,478	1/2	92,477	1/2	107,475	1/2	122,455	1/2	137,434
3/4	2,841	3/4	17,814	3/4	32,812	3/4	47,793	3/4	62,792	3/4	77,790	3/4	92,789	3/4	107,788	3/4	122,767	3/4	137,746
2	3,133	2	18,126	2	33,125	2	48,105	2	63,104	2	78,103	2	93,102	2	108,100	2	123,079	2	138,058
1/4	3,444	1/4	18,439	1/4	33,437	1/4	48,418	1/4	63,417	1/4	78,415	1/4	93,414	1/4	108,412	1/4	123,391	1/4	138,370
1/2	3,756	1/2	18,751	1/2	33,750	1/2	48,730	1/2	63,729	1/2	78,728	1/2	93,727	1/2	108,724	1/2	123,703	1/2	138,682
3/4	4,067	3/4	19,064	3/4	34,062	3/4	49,043	3/4	64,042	3/4	79,040	3/4	94,039	3/4	109,036	3/4	124,016	3/4	138,994
3	4,379	3	19,376	3	34,374	3	49,355	3	64,354	3	79,353	3	94,352	3	109,349	3	124,328	3	139,306
1/4	4,691	1/4	19,689	1/4	34,687	1/4	49,668	1/4	64,667	1/4	79,665	1/4	94,664	1/4	109,661	1/4	124,640	1/4	139,618
1/2	5,003	1/2	20,001	1/2	34,999	1/2	49,980	1/2	64,979	1/2	79,978	1/2	94,977	1/2	109,973	1/2	124,952	1/2	139,930
3/4	5,316	3/4	20,314	3/4	35,311	3/4	50,293	3/4	65,291	3/4	80,290	3/4	95,289	3/4	110,285	3/4	125,264	3/4	140,243
4	5,628	4	20,626	4	35,623	4	50,605	4	65,604	4	80,603	4	95,602	4	110,597	4	125,576	4	140,555
1/4	5,940	1/4	20,938	1/4	35,935	1/4	50,918	1/4	65,916	1/4	80,915	1/4	95,914	1/4	110,909	1/4	125,888	1/4	140,867
1/2	6,253	1/2	21,251	1/2	36,247	1/2	51,230	1/2	66,229	1/2	81,228	1/2	96,226	1/2	111,221	1/2	126,200	1/2	141,179
3/4	6,565	3/4	21,563	3/4	36,559	3/4	51,543	3/4	66,541	3/4	81,540	3/4	96,539	3/4	111,533	3/4	126,512	3/4	141,491
5	6,878	5	21,876	5	36,871	5	51,855	5	66,854	5	81,853	5	96,851	5	111,845	5	126,824	5	141,803
1/4	7,190	1/4	22,188	1/4	37,183	1/4	52,168	1/4	67,166	1/4	82,165	1/4	97,164	1/4	112,157	1/4	127,136	1/4	142,114
1/2	7,502	1/2	22,501	1/2	37,495	1/2	52,480	1/2	67,479	1/2	82,478	1/2	97,476	1/2	112,469	1/2	127,448	1/2	142,426
3/4	7,815	3/4	22,813	3/4	37,807	3/4	52,792	3/4	67,791	3/4	82,790	3/4	97,789	3/4	112,781	3/4	127,760	3/4	142,738
6	8,127	6	23,126	6	38,119	6	53,105	6	68,104	6	83,103	6	98,101	6	113,093	6	128,072	6	143,050
1/4	8,440	1/4	23,438	1/4	38,431	1/4	53,417	1/4	68,416	1/4	83,415	1/4	98,414	1/4	113,406	1/4	128,384	1/4	143,357
1/2	8,752	1/2	23,751	1/2	38,743	1/2	53,730	1/2	68,729	1/2	83,727	1/2	98,726	1/2	113,718	1/2	128,696	1/2	143,664
3/4	9,065	3/4	24,063	3/4	39,055	3/4	54,042	3/4	69,041	3/4	84,040	3/4	99,039	3/4	114,030	3/4	129,008	3/4	143,972
7	9,377	7	24,376	7	39,367	7	54,355	7	69,354	7	84,352	7	99,351	7	114,342	7	129,321	7	144,279
1/4	9,690	1/4	24,688	1/4	39,679	1/4	54,667	1/4	69,666	1/4	84,665	1/4	99,664	1/4	114,654	1/4	129,633	1/4	144,574
1/2	10,002	1/2	25,001	1/2	39,991	1/2	54,980	1/2	69,979	1/2	84,977	1/2	99,976	1/2	114,966	1/2	129,945	1/2	144,869
3/4	10,315	3/4	25,313	3/4	40,303	3/4	55,292	3/4	70,291	3/4	85,290	3/4	100,289	3/4	115,278	3/4	130,257	3/4	145,164
8	10,627	8	25,625	8	40,615	8	55,605	8	70,604	8	85,602	8	100,601	8	115,590	8	130,569	8	145,459
1/4	10,940	1/4	25,938	1/4	40,927	1/4	55,917	1/4	70,916	1/4	85,915	1/4	100,914	1/4	115,902	1/4	130,881	1/4	145,738
1/2	11,252	1/2	26,250	1/2	41,239	1/2	56,230	1/2	71,228	1/2	86,227	1/2	101,226	1/2	116,214	1/2	131,193	1/2	146,017
3/4	11,565	3/4	26,563	3/4	41,551	3/4	56,542	3/4	71,541	3/4	86,540	3/4	101,539	3/4	116,526	3/4	131,505	3/4	146,296
9	11,877	9	26,875	9	41,863	9	56,855	9	71,853	9	86,852	9	101,851	9	116,838	9	131,817	9	146,574
1/4	12,189	1/4	27,188	1/4	42,175	1/4	57,167	1/4	72,166	1/4	87,165	1/4	102,163	1/4	117,150	1/4	132,129	1/4	146,837
1/2	12,502	1/2	27,500	1/2	42,487	1/2	57,480	1/2	72,478	1/2	87,477	1/2	102,476	1/2	117,462	1/2	132,441	1/2	147,100
3/4	12,814	3/4	27,813	3/4	42,799	3/4	57,792	3/4	72,791	3/4	87,790	3/4	102,788	3/4	117,774	3/4	132,753	3/4	147,363
10	13,127	10	28,125	10	43,111	10	58,105	10	73,103	10	88,102	10	103,101	10	118,086	10	133,065	10	147,626
1/4	13,439	1/4	28,438	1/4	43,423	1/4	58,417	1/4	73,416	1/4	88,415	1/4	103,413	1/4	118,398	1/4	133,377	1/4	147,873
1/2	13,752	1/2	28,750	1/2	43,735	1/2	58,730	1/2	73,728	1/2	88,727	1/2	103,726	1/2	118,711	1/2	133,689	1/2	148,120
3/4	14,064	3/4	29,063	3/4	44,047	3/4	59,042	3/4	74,041	3/4	89,040	3/4	104,038	3/4	119,023	3/4	134,001	3/4	148,367
11	14,377	11	29,375	11	44,359	11	59,354	11	74,353	11	89,352	11	104,351	11	119,335	11	134,313	11	148,614
1/4	14,689	1/4	29,687	1/4	44,671	1/4	59,667	1/4	74,666	1/4	89,665	1/4	104,663	1/4	119,647	1/4	134,626	1/4	148,845
1/2	15,002	1/2	30,000	1/2	44,983	1/2	59,979	1/2	74,978	1/2	89,977	1/2	104,976	1/2	119,959	1/2	134,938	1/2	149,076
3/4	15,314	3/4	30,312	3/4	45,295	3/4	60,292	3/4	75,291	3/4	90,289	3/4	105,288	3/4	120,271	3/4	135,250	3/4	149,307

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 3027"

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	149,538	0	159,907	0	170,254	0	180,573	0	190,876	0		0		0		0		0	
1/4	149,757	1/4	160,122	1/4	170,469	1/4	180,787	1/4	191,069	1/4		1/4		1/4		1/4		1/4	
1/2	149,976	1/2	160,338	1/2	170,684	1/2	181,002	1/2	191,262	1/2		1/2		1/2		1/2		1/2	
3/4	150,195	3/4	160,554	3/4	170,899	3/4	181,217	3/4	191,455	3/4		3/4		3/4		3/4		3/4	
1	150,415	1	160,770	1	171,114	1	181,432	1	191,648	1		1		1		1		1	
1/4	150,630	1/4	160,985	1/4	171,329	1/4	181,647	1/4	191,807	1/4		1/4		1/4		1/4		1/4	
1/2	150,846	1/2	161,201	1/2	171,544	1/2	181,862	1/2	191,967	1/2		1/2		1/2		1/2		1/2	
3/4	151,062	3/4	161,417	3/4	171,759	3/4	182,077	3/4	192,126	3/4		3/4		3/4		3/4		3/4	
2	151,278	2	161,633	2	171,974	2	182,292	2	192,286	2		2		2		2		2	
1/4	151,493	1/4	161,848	1/4	172,189	1/4	182,507	1/4	192,409	1/4		1/4		1/4		1/4		1/4	
1/2	151,709	1/2	162,064	1/2	172,404	1/2	182,722	1/2	192,533	1/2		1/2		1/2		1/2		1/2	
3/4	151,925	3/4	162,280	3/4	172,619	3/4	182,937	3/4	192,656	3/4		3/4		3/4		3/4		3/4	
3	152,141	3	162,495	3	172,834	3	183,152	3	192,779	3		3		3		3		3	
1/4	152,356	1/4	162,711	1/4	173,049	1/4	183,367	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,572	1/2	162,927	1/2	173,264	1/2	183,582	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,788	3/4	163,143	3/4	173,479	3/4	183,797	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,003	4	163,358	4	173,694	4	184,012	4		4		4		4		4		4	
1/4	153,219	1/4	163,574	1/4	173,909	1/4	184,227	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,435	1/2	163,790	1/2	174,123	1/2	184,442	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,651	3/4	164,006	3/4	174,338	3/4	184,657	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,866	5	164,221	5	174,553	5	184,872	5		5		5		5		5		5	
1/4	154,082	1/4	164,437	1/4	174,768	1/4	185,087	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,298	1/2	164,653	1/2	174,983	1/2	185,302	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,514	3/4	164,868	3/4	175,198	3/4	185,517	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,729	6	165,084	6	175,413	6	185,732	6		6		6		6		6		6	
1/4	154,945	1/4	165,300	1/4	175,628	1/4	185,947	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,161	1/2	165,516	1/2	175,843	1/2	186,162	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,376	3/4	165,731	3/4	176,058	3/4	186,377	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,592	7	165,947	7	176,273	7	186,592	7		7		7		7		7		7	
1/4	155,808	1/4	166,163	1/4	176,488	1/4	186,807	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,024	1/2	166,379	1/2	176,703	1/2	187,022	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,239	3/4	166,594	3/4	176,918	3/4	187,237	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,455	8	166,810	8	177,133	8	187,452	8		8		8		8		8		8	
1/4	156,671	1/4	167,026	1/4	177,348	1/4	187,667	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,887	1/2	167,241	1/2	177,563	1/2	187,882	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,102	3/4	167,457	3/4	177,778	3/4	188,097	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,318	9	167,673	9	177,993	9	188,312	9		9		9		9		9		9	
1/4	157,534	1/4	167,888	1/4	178,208	1/4	188,527	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,749	1/2	168,104	1/2	178,423	1/2	188,742	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,965	3/4	168,319	3/4	178,638	3/4	188,957	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,181	10	168,534	10	178,853	10	189,172	10		10		10		10		10		10	
1/4	158,397	1/4	168,749	1/4	179,068	1/4	189,387	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,612	1/2	168,964	1/2	179,283	1/2	189,602	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,828	3/4	169,179	3/4	179,498	3/4	189,816	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,044	11	169,394	11	179,713	11	190,031	11		11		11		11		11		11	
1/4	159,260	1/4	169,609	1/4	179,928	1/4	190,242	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,475	1/2	169,824	1/2	180,143	1/2	190,454	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,691	3/4	170,039	3/4	180,358	3/4	190,665	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/11/2019 CL
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PRINTED: 11/11/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
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BARGE "HSM 3027"

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	
1/2	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	
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	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1	1	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	
1/2	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	
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	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2	2	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	
1/2	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	
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	385	3	1,540	3	2,694	3	3,849	3	4,999	3	3	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	
1/2	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	
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	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4	4	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	
1/2	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	
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	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5	5	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	
1/2	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	
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	
6	674	6	1,829	6	2,982	6	4,137	6		6	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	
1/2	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	
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	
7	770	7	1,925	7	3,079	7	4,234	7		7	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	
1/2	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	
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	
8	866	8	2,021	8	3,175	8	4,330	8		8	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	
1/2	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	
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	
9	963	9	2,117	9	3,271	9	4,426	9		9	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	
1/2	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	
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	
10	1,059	10	2,214	10	3,367	10	4,522	10		10	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	
1/2	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	
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	
11	1,155	11	2,310	11	3,464	11	4,619	11		11	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	
1/2	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	
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	

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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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3027"

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	
1/2	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	
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	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1	1	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	
1/2	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	
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	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2	2	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	
1/2	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	
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	385	3	1,540	3	2,694	3	3,849	3	4,999	3	3	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	
1/2	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	
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	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4	4	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	
1/2	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	
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	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5	5	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	
1/2	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	
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	
6	674	6	1,829	6	2,982	6	4,137	6		6	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	
1/2	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	
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	
7	770	7	1,925	7	3,079	7	4,234	7		7	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	
1/2	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	
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	
8	866	8	2,021	8	3,175	8	4,330	8		8	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	
1/2	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	
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	
9	963	9	2,117	9	3,271	9	4,426	9		9	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	
1/2	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	
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	
10	1,059	10	2,214	10	3,367	10	4,522	10		10	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	
1/2	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	
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	
11	1,155	11	2,310	11	3,464	11	4,619	11		11	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	
1/2	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	
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	

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

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



BARGE "HSM 3027"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE 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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