



BARGE "HSM 3041"

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"

February 26, 2020

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

<http://www.pmacorp.net>



BARGE "HSM 3041"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

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BARGE "HSM 3041"

1 PORT 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	386	0	13,272	0	28,222	0	43,268	0	58,253	0	73,256	0	88,303	0	103,350	0	118,392	0	133,432
1/4	563	1/4	13,574	1/4	28,535	1/4	43,582	1/4	58,564	1/4	73,570	1/4	88,616	1/4	103,663	1/4	118,705	1/4	133,745
1/2	740	1/2	13,876	1/2	28,849	1/2	43,895	1/2	58,875	1/2	73,883	1/2	88,930	1/2	103,977	1/2	119,018	1/2	134,058
3/4	917	3/4	14,178	3/4	29,162	3/4	44,209	3/4	59,186	3/4	74,197	3/4	89,243	3/4	104,290	3/4	119,332	3/4	134,372
1	1,095	1	14,480	1	29,476	1	44,522	1	59,497	1	74,510	1	89,557	1	104,604	1	119,645	1	134,685
1/4	1,334	1/4	14,786	1/4	29,789	1/4	44,835	1/4	59,808	1/4	74,824	1/4	89,870	1/4	104,917	1/4	119,958	1/4	134,998
1/2	1,573	1/2	15,091	1/2	30,103	1/2	45,149	1/2	60,119	1/2	75,137	1/2	90,184	1/2	105,230	1/2	120,272	1/2	135,312
3/4	1,812	3/4	15,397	3/4	30,416	3/4	45,462	3/4	60,430	3/4	75,451	3/4	90,497	3/4	105,544	3/4	120,585	3/4	135,625
2	2,051	2	15,703	2	30,730	2	45,776	2	60,741	2	75,764	2	90,811	2	105,857	2	120,898	2	135,938
1/4	2,313	1/4	16,012	1/4	31,043	1/4	46,089	1/4	61,053	1/4	76,078	1/4	91,124	1/4	106,171	1/4	121,212	1/4	136,252
1/2	2,575	1/2	16,322	1/2	31,357	1/2	46,403	1/2	61,364	1/2	76,391	1/2	91,438	1/2	106,484	1/2	121,525	1/2	136,565
3/4	2,838	3/4	16,632	3/4	31,670	3/4	46,716	3/4	61,675	3/4	76,705	3/4	91,751	3/4	106,798	3/4	121,838	3/4	136,878
3	3,100	3	16,941	3	31,984	3	47,030	3	61,986	3	77,018	3	92,065	3	107,111	3	122,152	3	137,192
1/4	3,367	1/4	17,254	1/4	32,297	1/4	47,343	1/4	62,297	1/4	77,332	1/4	92,378	1/4	107,425	1/4	122,465	1/4	137,505
1/2	3,634	1/2	17,566	1/2	32,610	1/2	47,657	1/2	62,609	1/2	77,645	1/2	92,692	1/2	107,738	1/2	122,778	1/2	137,818
3/4	3,901	3/4	17,879	3/4	32,924	3/4	47,970	3/4	62,920	3/4	77,958	3/4	93,005	3/4	108,052	3/4	123,092	3/4	138,132
4	4,168	4	18,191	4	33,237	4	48,284	4	63,231	4	78,272	4	93,319	4	108,365	4	123,405	4	138,445
1/4	4,439	1/4	18,505	1/4	33,551	1/4	48,596	1/4	63,543	1/4	78,585	1/4	93,632	1/4	108,678	1/4	123,718	1/4	138,758
1/2	4,710	1/2	18,818	1/2	33,864	1/2	48,909	1/2	63,855	1/2	78,899	1/2	93,946	1/2	108,992	1/2	124,032	1/2	139,072
3/4	4,981	3/4	19,132	3/4	34,178	3/4	49,222	3/4	64,168	3/4	79,212	3/4	94,259	3/4	109,305	3/4	124,345	3/4	139,385
5	5,252	5	19,445	5	34,491	5	49,534	5	64,480	5	79,526	5	94,572	5	109,618	5	124,658	5	139,698
1/4	5,527	1/4	19,758	1/4	34,805	1/4	49,847	1/4	64,793	1/4	79,839	1/4	94,886	1/4	109,932	1/4	124,972	1/4	140,012
1/2	5,801	1/2	20,072	1/2	35,118	1/2	50,159	1/2	65,107	1/2	80,153	1/2	95,199	1/2	110,245	1/2	125,285	1/2	140,325
3/4	6,076	3/4	20,385	3/4	35,432	3/4	50,471	3/4	65,420	3/4	80,466	3/4	95,513	3/4	110,558	3/4	125,598	3/4	140,638
6	6,351	6	20,699	6	35,745	6	50,783	6	65,733	6	80,780	6	95,826	6	110,872	6	125,912	6	140,952
1/4	6,630	1/4	21,012	1/4	36,059	1/4	51,094	1/4	66,047	1/4	81,093	1/4	96,140	1/4	111,185	1/4	126,225	1/4	141,265
1/2	6,909	1/2	21,326	1/2	36,372	1/2	51,406	1/2	66,360	1/2	81,407	1/2	96,453	1/2	111,498	1/2	126,538	1/2	141,578
3/4	7,187	3/4	21,639	3/4	36,685	3/4	51,718	3/4	66,674	3/4	81,720	3/4	96,767	3/4	111,812	3/4	126,852	3/4	141,892
7	7,466	7	21,953	7	36,999	7	52,030	7	66,987	7	82,034	7	97,080	7	112,125	7	127,165	7	142,205
1/4	7,749	1/4	22,266	1/4	37,312	1/4	52,341	1/4	67,300	1/4	82,347	1/4	97,394	1/4	112,438	1/4	127,478	1/4	142,518
1/2	8,031	1/2	22,580	1/2	37,626	1/2	52,652	1/2	67,614	1/2	82,661	1/2	97,707	1/2	112,752	1/2	127,792	1/2	142,832
3/4	8,314	3/4	22,893	3/4	37,939	3/4	52,964	3/4	67,927	3/4	82,974	3/4	98,021	3/4	113,065	3/4	128,105	3/4	143,145
8	8,596	8	23,207	8	38,253	8	53,275	8	68,241	8	83,287	8	98,334	8	113,378	8	128,418	8	143,459
1/4	8,883	1/4	23,520	1/4	38,566	1/4	53,586	1/4	68,554	1/4	83,601	1/4	98,648	1/4	113,692	1/4	128,732	1/4	143,772
1/2	9,169	1/2	23,834	1/2	38,880	1/2	53,897	1/2	68,868	1/2	83,914	1/2	98,961	1/2	114,005	1/2	129,045	1/2	144,085
3/4	9,456	3/4	24,147	3/4	39,193	3/4	54,208	3/4	69,181	3/4	84,228	3/4	99,275	3/4	114,318	3/4	129,358	3/4	144,399
9	9,742	9	24,460	9	39,507	9	54,519	9	69,495	9	84,541	9	99,588	9	114,632	9	129,672	9	144,712
1/4	10,033	1/4	24,774	1/4	39,820	1/4	54,831	1/4	69,808	1/4	84,855	1/4	99,901	1/4	114,945	1/4	129,985	1/4	145,025
1/2	10,323	1/2	25,087	1/2	40,134	1/2	55,142	1/2	70,122	1/2	85,168	1/2	100,215	1/2	115,258	1/2	130,298	1/2	145,339
3/4	10,613	3/4	25,401	3/4	40,447	3/4	55,453	3/4	70,435	3/4	85,482	3/4	100,528	3/4	115,572	3/4	130,612	3/4	145,652
10	10,903	10	25,714	10	40,760	10	55,764	10	70,749	10	85,795	10	100,842	10	115,885	10	130,925	10	145,965
1/4	11,198	1/4	26,028	1/4	41,074	1/4	56,075	1/4	71,062	1/4	86,109	1/4	101,155	1/4	116,198	1/4	131,238	1/4	146,279
1/2	11,492	1/2	26,341	1/2	41,387	1/2	56,386	1/2	71,376	1/2	86,422	1/2	101,469	1/2	116,512	1/2	131,552	1/2	146,592
3/4	11,786	3/4	26,655	3/4	41,701	3/4	56,697	3/4	71,689	3/4	86,736	3/4	101,782	3/4	116,825	3/4	131,865	3/4	146,905
11	12,080	11	26,968	11	42,014	11	57,008	11	72,003	11	87,049	11	102,096	11	117,138	11	132,178	11	147,219
1/4	12,378	1/4	27,282	1/4	42,328	1/4	57,319	1/4	72,316	1/4	87,363	1/4	102,409	1/4	117,452	1/4	132,492	1/4	147,532
1/2	12,676	1/2	27,595	1/2	42,641	1/2	57,630	1/2	72,629	1/2	87,676	1/2	102,723	1/2	117,765	1/2	132,805	1/2	147,845
3/4	12,974	3/4	27,909	3/4	42,955	3/4	57,941	3/4	72,943	3/4	87,990	3/4	103,036	3/4	118,078	3/4	133,118	3/4	148,159

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 3041"

1 PORT 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	148,472	0	163,512	0	178,543	0	193,539	0	208,463	0		0		0		0		0	
1/4	148,785	1/4	163,825	1/4	178,855	1/4	193,852	1/4	208,743	1/4		1/4		1/4		1/4		1/4	
1/2	149,099	1/2	164,139	1/2	179,168	1/2	194,164	1/2	209,024	1/2		1/2		1/2		1/2		1/2	
3/4	149,412	3/4	164,452	3/4	179,480	3/4	194,476	3/4	209,304	3/4		3/4		3/4		3/4		3/4	
1	149,725	1	164,765	1	179,793	1	194,789	1	209,585	1		1		1		1		1	
1/4	150,039	1/4	165,079	1/4	180,105	1/4	195,101	1/4	209,817	1/4		1/4		1/4		1/4		1/4	
1/2	150,352	1/2	165,392	1/2	180,417	1/2	195,414	1/2	210,049	1/2		1/2		1/2		1/2		1/2	
3/4	150,665	3/4	165,705	3/4	180,730	3/4	195,726	3/4	210,281	3/4		3/4		3/4		3/4		3/4	
2	150,979	2	166,019	2	181,042	2	196,039	2	210,513	2		2		2		2		2	
1/4	151,292	1/4	166,332	1/4	181,355	1/4	196,351	1/4	210,693	1/4		1/4		1/4		1/4		1/4	
1/2	151,605	1/2	166,645	1/2	181,667	1/2	196,663	1/2	210,873	1/2		1/2		1/2		1/2		1/2	
3/4	151,919	3/4	166,959	3/4	181,980	3/4	196,976	3/4	211,053	3/4		3/4		3/4		3/4		3/4	
3	152,232	3	167,272	3	182,292	3	197,288	3	211,232	3		3		3		3		3	
1/4	152,545	1/4	167,585	1/4	182,604	1/4	197,601	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,859	1/2	167,899	1/2	182,917	1/2	197,913	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,172	3/4	168,212	3/4	183,229	3/4	198,226	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,485	4	168,525	4	183,542	4	198,538	4		4		4		4		4		4	
1/4	153,799	1/4	168,839	1/4	183,854	1/4	198,850	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,112	1/2	169,152	1/2	184,167	1/2	199,163	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,425	3/4	169,465	3/4	184,479	3/4	199,475	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,739	5	169,779	5	184,791	5	199,788	5		5		5		5		5		5	
1/4	155,052	1/4	170,092	1/4	185,104	1/4	200,099	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,365	1/2	170,405	1/2	185,416	1/2	200,410	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,679	3/4	170,719	3/4	185,729	3/4	200,722	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,992	6	171,032	6	186,041	6	201,033	6		6		6		6		6		6	
1/4	156,305	1/4	171,345	1/4	186,353	1/4	201,343	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,619	1/2	171,659	1/2	186,666	1/2	201,654	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,932	3/4	171,972	3/4	186,978	3/4	201,964	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,245	7	172,285	7	187,291	7	202,274	7		7		7		7		7		7	
1/4	157,559	1/4	172,599	1/4	187,603	1/4	202,584	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,872	1/2	172,912	1/2	187,916	1/2	202,895	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,185	3/4	173,225	3/4	188,228	3/4	203,205	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,499	8	173,539	8	188,540	8	203,516	8		8		8		8		8		8	
1/4	158,812	1/4	173,852	1/4	188,853	1/4	203,826	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,125	1/2	174,165	1/2	189,165	1/2	204,136	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,439	3/4	174,479	3/4	189,478	3/4	204,447	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,752	9	174,792	9	189,790	9	204,757	9		9		9		9		9		9	
1/4	160,065	1/4	175,105	1/4	190,103	1/4	205,067	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,379	1/2	175,418	1/2	190,415	1/2	205,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,692	3/4	175,731	3/4	190,727	3/4	205,688	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,005	10	176,044	10	191,040	10	205,998	10		10		10		10		10		10	
1/4	161,319	1/4	176,356	1/4	191,352	1/4	206,308	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,632	1/2	176,668	1/2	191,665	1/2	206,618	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,945	3/4	176,981	3/4	191,977	3/4	206,928	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,259	11	177,293	11	192,290	11	207,238	11		11		11		11		11		11	
1/4	162,572	1/4	177,606	1/4	192,602	1/4	207,544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,885	1/2	177,918	1/2	192,914	1/2	207,851	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,199	3/4	178,231	3/4	193,227	3/4	208,157	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
PRINTED: 02/26/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3041"

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	386	0	13,272	0	28,222	0	43,267	0	58,309	0	73,352	0	88,399	0	103,445	0	118,487	0	133,527
1/4	563	1/4	13,574	1/4	28,535	1/4	43,581	1/4	58,622	1/4	73,666	1/4	88,712	1/4	103,758	1/4	118,800	1/4	133,840
1/2	740	1/2	13,876	1/2	28,848	1/2	43,894	1/2	58,935	1/2	73,979	1/2	89,026	1/2	104,072	1/2	119,113	1/2	134,153
3/4	918	3/4	14,178	3/4	29,162	3/4	44,208	3/4	59,249	3/4	74,293	3/4	89,339	3/4	104,385	3/4	119,427	3/4	134,467
1	1,095	1	14,480	1	29,475	1	44,521	1	59,562	1	74,606	1	89,653	1	104,699	1	119,740	1	134,780
1/4	1,334	1/4	14,785	1/4	29,789	1/4	44,835	1/4	59,875	1/4	74,920	1/4	89,966	1/4	105,012	1/4	120,053	1/4	135,093
1/2	1,573	1/2	15,091	1/2	30,102	1/2	45,148	1/2	60,188	1/2	75,233	1/2	90,279	1/2	105,326	1/2	120,367	1/2	135,407
3/4	1,812	3/4	15,397	3/4	30,416	3/4	45,462	3/4	60,501	3/4	75,547	3/4	90,593	3/4	105,639	3/4	120,680	3/4	135,720
2	2,051	2	15,703	2	30,729	2	45,775	2	60,815	2	75,860	2	90,906	2	105,953	2	120,993	2	136,033
1/4	2,313	1/4	16,012	1/4	31,043	1/4	46,088	1/4	61,128	1/4	76,174	1/4	91,220	1/4	106,266	1/4	121,307	1/4	136,347
1/2	2,576	1/2	16,322	1/2	31,356	1/2	46,402	1/2	61,441	1/2	76,487	1/2	91,533	1/2	106,580	1/2	121,620	1/2	136,660
3/4	2,838	3/4	16,631	3/4	31,670	3/4	46,715	3/4	61,755	3/4	76,800	3/4	91,847	3/4	106,893	3/4	121,933	3/4	136,973
3	3,100	3	16,941	3	31,983	3	47,029	3	62,068	3	77,114	3	92,160	3	107,207	3	122,247	3	137,286
1/4	3,367	1/4	17,253	1/4	32,296	1/4	47,342	1/4	62,381	1/4	77,427	1/4	92,474	1/4	107,520	1/4	122,560	1/4	137,600
1/2	3,634	1/2	17,566	1/2	32,610	1/2	47,656	1/2	62,695	1/2	77,741	1/2	92,787	1/2	107,833	1/2	122,873	1/2	137,913
3/4	3,901	3/4	17,878	3/4	32,923	3/4	47,969	3/4	63,008	3/4	78,054	3/4	93,101	3/4	108,147	3/4	123,187	3/4	138,226
4	4,168	4	18,191	4	33,237	4	48,283	4	63,322	4	78,368	4	93,414	4	108,460	4	123,500	4	138,540
1/4	4,439	1/4	18,504	1/4	33,550	1/4	48,596	1/4	63,635	1/4	78,681	1/4	93,728	1/4	108,774	1/4	123,813	1/4	138,853
1/2	4,710	1/2	18,818	1/2	33,864	1/2	48,910	1/2	63,948	1/2	78,995	1/2	94,041	1/2	109,087	1/2	124,127	1/2	139,167
3/4	4,981	3/4	19,131	3/4	34,177	3/4	49,223	3/4	64,262	3/4	79,308	3/4	94,355	3/4	109,400	3/4	124,440	3/4	139,480
5	5,252	5	19,445	5	34,491	5	49,536	5	64,575	5	79,622	5	94,668	5	109,714	5	124,753	5	139,793
1/4	5,527	1/4	19,758	1/4	34,804	1/4	49,850	1/4	64,889	1/4	79,935	1/4	94,981	1/4	110,027	1/4	125,067	1/4	140,107
1/2	5,801	1/2	20,072	1/2	35,118	1/2	50,163	1/2	65,202	1/2	80,249	1/2	95,295	1/2	110,340	1/2	125,380	1/2	140,420
3/4	6,076	3/4	20,385	3/4	35,431	3/4	50,477	3/4	65,516	3/4	80,562	3/4	95,608	3/4	110,653	3/4	125,693	3/4	140,733
6	6,351	6	20,699	6	35,744	6	50,790	6	65,829	6	80,876	6	95,922	6	110,967	6	126,007	6	141,047
1/4	6,630	1/4	21,012	1/4	36,058	1/4	51,104	1/4	66,143	1/4	81,189	1/4	96,235	1/4	111,280	1/4	126,320	1/4	141,360
1/2	6,909	1/2	21,325	1/2	36,371	1/2	51,417	1/2	66,456	1/2	81,502	1/2	96,549	1/2	111,593	1/2	126,633	1/2	141,673
3/4	7,187	3/4	21,639	3/4	36,685	3/4	51,731	3/4	66,770	3/4	81,816	3/4	96,862	3/4	111,907	3/4	126,947	3/4	141,987
7	7,466	7	21,952	7	36,998	7	52,044	7	67,083	7	82,129	7	97,176	7	112,220	7	127,260	7	142,300
1/4	7,749	1/4	22,266	1/4	37,312	1/4	52,357	1/4	67,397	1/4	82,443	1/4	97,489	1/4	112,533	1/4	127,573	1/4	142,613
1/2	8,031	1/2	22,579	1/2	37,625	1/2	52,670	1/2	67,710	1/2	82,756	1/2	97,803	1/2	112,847	1/2	127,887	1/2	142,927
3/4	8,314	3/4	22,893	3/4	37,939	3/4	52,984	3/4	68,023	3/4	83,070	3/4	98,116	3/4	113,160	3/4	128,200	3/4	143,240
8	8,596	8	23,206	8	38,252	8	53,297	8	68,337	8	83,383	8	98,430	8	113,473	8	128,513	8	143,553
1/4	8,883	1/4	23,520	1/4	38,566	1/4	53,610	1/4	68,650	1/4	83,697	1/4	98,743	1/4	113,787	1/4	128,827	1/4	143,867
1/2	9,169	1/2	23,833	1/2	38,879	1/2	53,924	1/2	68,964	1/2	84,010	1/2	99,057	1/2	114,100	1/2	129,140	1/2	144,180
3/4	9,456	3/4	24,147	3/4	39,192	3/4	54,237	3/4	69,277	3/4	84,324	3/4	99,370	3/4	114,413	3/4	129,453	3/4	144,493
9	9,742	9	24,460	9	39,506	9	54,550	9	69,591	9	84,637	9	99,683	9	114,727	9	129,767	9	144,807
1/4	10,032	1/4	24,774	1/4	39,819	1/4	54,863	1/4	69,904	1/4	84,951	1/4	99,997	1/4	115,040	1/4	130,080	1/4	145,120
1/2	10,323	1/2	25,087	1/2	40,133	1/2	55,176	1/2	70,218	1/2	85,264	1/2	100,310	1/2	115,353	1/2	130,393	1/2	145,433
3/4	10,613	3/4	25,400	3/4	40,446	3/4	55,490	3/4	70,531	3/4	85,578	3/4	100,624	3/4	115,667	3/4	130,707	3/4	145,747
10	10,903	10	25,714	10	40,760	10	55,803	10	70,845	10	85,891	10	100,937	10	115,980	10	131,020	10	146,060
1/4	11,198	1/4	26,027	1/4	41,073	1/4	56,116	1/4	71,158	1/4	86,204	1/4	101,251	1/4	116,293	1/4	131,333	1/4	146,373
1/2	11,492	1/2	26,341	1/2	41,387	1/2	56,429	1/2	71,472	1/2	86,518	1/2	101,564	1/2	116,607	1/2	131,647	1/2	146,687
3/4	11,786	3/4	26,654	3/4	41,700	3/4	56,743	3/4	71,785	3/4	86,831	3/4	101,878	3/4	116,920	3/4	131,960	3/4	147,000
11	12,080	11	26,968	11	42,014	11	57,056	11	72,099	11	87,145	11	102,191	11	117,233	11	132,273	11	147,313
1/4	12,378	1/4	27,281	1/4	42,327	1/4	57,369	1/4	72,412	1/4	87,458	1/4	102,505	1/4	117,547	1/4	132,587	1/4	147,627
1/2	12,676	1/2	27,595	1/2	42,640	1/2	57,682	1/2	72,725	1/2	87,772	1/2	102,818	1/2	117,860	1/2	132,900	1/2	147,940
3/4	12,974	3/4	27,908	3/4	42,954	3/4	57,996	3/4	73,039	3/4	88,085	3/4	103,132	3/4	118,173	3/4	133,213	3/4	148,253

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 3041"

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	148,567	0	163,607	0	178,638	0	193,634	0	208,557	0		0		0		0		0	
1/4	148,880	1/4	163,920	1/4	178,950	1/4	193,946	1/4	208,838	1/4		1/4		1/4		1/4		1/4	
1/2	149,193	1/2	164,233	1/2	179,262	1/2	194,259	1/2	209,118	1/2		1/2		1/2		1/2		1/2	
3/4	149,507	3/4	164,547	3/4	179,575	3/4	194,571	3/4	209,399	3/4		3/4		3/4		3/4		3/4	
1	149,820	1	164,860	1	179,887	1	194,883	1	209,679	1		1		1		1		1	
1/4	150,133	1/4	165,173	1/4	180,200	1/4	195,196	1/4	209,912	1/4		1/4		1/4		1/4		1/4	
1/2	150,447	1/2	165,487	1/2	180,512	1/2	195,508	1/2	210,144	1/2		1/2		1/2		1/2		1/2	
3/4	150,760	3/4	165,800	3/4	180,824	3/4	195,821	3/4	210,376	3/4		3/4		3/4		3/4		3/4	
2	151,073	2	166,113	2	181,137	2	196,133	2	210,608	2		2		2		2		2	
1/4	151,387	1/4	166,427	1/4	181,449	1/4	196,445	1/4	210,787	1/4		1/4		1/4		1/4		1/4	
1/2	151,700	1/2	166,740	1/2	181,762	1/2	196,758	1/2	210,967	1/2		1/2		1/2		1/2		1/2	
3/4	152,013	3/4	167,053	3/4	182,074	3/4	197,070	3/4	211,147	3/4		3/4		3/4		3/4		3/4	
3	152,327	3	167,367	3	182,387	3	197,383	3	211,327	3		3		3		3		3	
1/4	152,640	1/4	167,680	1/4	182,699	1/4	197,695	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,953	1/2	167,993	1/2	183,011	1/2	198,008	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,267	3/4	168,307	3/4	183,324	3/4	198,320	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,580	4	168,620	4	183,636	4	198,632	4		4		4		4		4		4	
1/4	153,893	1/4	168,933	1/4	183,949	1/4	198,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,207	1/2	169,247	1/2	184,261	1/2	199,257	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,520	3/4	169,560	3/4	184,574	3/4	199,570	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,833	5	169,873	5	184,886	5	199,882	5		5		5		5		5		5	
1/4	155,147	1/4	170,187	1/4	185,198	1/4	200,193	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,460	1/2	170,500	1/2	185,511	1/2	200,505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,773	3/4	170,813	3/4	185,823	3/4	200,816	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,087	6	171,127	6	186,136	6	201,128	6		6		6		6		6		6	
1/4	156,400	1/4	171,440	1/4	186,448	1/4	201,438	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,713	1/2	171,753	1/2	186,760	1/2	201,748	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,027	3/4	172,067	3/4	187,073	3/4	202,058	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,340	7	172,380	7	187,385	7	202,369	7		7		7		7		7		7	
1/4	157,653	1/4	172,693	1/4	187,698	1/4	202,679	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,967	1/2	173,007	1/2	188,010	1/2	202,989	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,280	3/4	173,320	3/4	188,323	3/4	203,300	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,593	8	173,633	8	188,635	8	203,610	8		8		8		8		8		8	
1/4	158,907	1/4	173,947	1/4	188,947	1/4	203,920	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,220	1/2	174,260	1/2	189,260	1/2	204,231	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,533	3/4	174,573	3/4	189,572	3/4	204,541	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,847	9	174,887	9	189,885	9	204,852	9		9		9		9		9		9	
1/4	160,160	1/4	175,200	1/4	190,197	1/4	205,162	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,473	1/2	175,512	1/2	190,510	1/2	205,472	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,787	3/4	175,825	3/4	190,822	3/4	205,783	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,100	10	176,138	10	191,134	10	206,093	10		10		10		10		10		10	
1/4	161,413	1/4	176,451	1/4	191,447	1/4	206,403	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,727	1/2	176,763	1/2	191,759	1/2	206,713	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,040	3/4	177,075	3/4	192,072	3/4	207,023	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,353	11	177,388	11	192,384	11	207,333	11		11		11		11		11		11	
1/4	162,667	1/4	177,700	1/4	192,696	1/4	207,639	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,980	1/2	178,013	1/2	193,009	1/2	207,945	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,293	3/4	178,325	3/4	193,321	3/4	208,251	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
PRINTED: 02/26/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
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BARGE "HSM 3041"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	1,032	0	15,709	0	30,783	0	45,487	0	59,984	0	74,850	0	89,927	0	105,005	0	120,077	0	135,147
1/4	1,268	1/4	16,023	1/4	31,098	1/4	45,788	1/4	60,287	1/4	75,164	1/4	90,242	1/4	105,319	1/4	120,391	1/4	135,461
1/2	1,503	1/2	16,337	1/2	31,412	1/2	46,090	1/2	60,589	1/2	75,478	1/2	90,556	1/2	105,633	1/2	120,705	1/2	135,775
3/4	1,739	3/4	16,651	3/4	31,726	3/4	46,391	3/4	60,891	3/4	75,792	3/4	90,870	3/4	105,947	3/4	121,019	3/4	136,089
1	1,975	1	16,965	1	32,040	1	46,692	1	61,194	1	76,106	1	91,184	1	106,262	1	121,333	1	136,403
1/4	2,268	1/4	17,279	1/4	32,354	1/4	46,994	1/4	61,496	1/4	76,420	1/4	91,498	1/4	106,576	1/4	121,647	1/4	136,717
1/2	2,562	1/2	17,593	1/2	32,668	1/2	47,295	1/2	61,798	1/2	76,735	1/2	91,812	1/2	106,890	1/2	121,961	1/2	137,031
3/4	2,856	3/4	17,907	3/4	32,982	3/4	47,597	3/4	62,101	3/4	77,049	3/4	92,126	3/4	107,204	3/4	122,275	3/4	137,345
2	3,149	2	18,221	2	33,296	2	47,898	2	62,403	2	77,363	2	92,440	2	107,518	2	122,589	2	137,659
1/4	3,462	1/4	18,536	1/4	33,610	1/4	48,200	1/4	62,705	1/4	77,677	1/4	92,755	1/4	107,832	1/4	122,903	1/4	137,973
1/2	3,776	1/2	18,850	1/2	33,924	1/2	48,501	1/2	63,008	1/2	77,991	1/2	93,069	1/2	108,146	1/2	123,217	1/2	138,287
3/4	4,089	3/4	19,164	3/4	34,239	3/4	48,803	3/4	63,310	3/4	78,305	3/4	93,383	3/4	108,460	3/4	123,531	3/4	138,601
3	4,402	3	19,478	3	34,553	3	49,104	3	63,612	3	78,619	3	93,697	3	108,775	3	123,845	3	138,915
1/4	4,716	1/4	19,792	1/4	34,867	1/4	49,406	1/4	63,915	1/4	78,933	1/4	94,011	1/4	109,089	1/4	124,159	1/4	139,229
1/2	5,030	1/2	20,106	1/2	35,181	1/2	49,707	1/2	64,217	1/2	79,248	1/2	94,325	1/2	109,403	1/2	124,473	1/2	139,543
3/4	5,343	3/4	20,420	3/4	35,495	3/4	50,009	3/4	64,519	3/4	79,562	3/4	94,639	3/4	109,717	3/4	124,787	3/4	139,857
4	5,657	4	20,734	4	35,809	4	50,311	4	64,822	4	79,876	4	94,953	4	110,031	4	125,101	4	140,171
1/4	5,971	1/4	21,048	1/4	36,117	1/4	50,613	1/4	65,130	1/4	80,190	1/4	95,267	1/4	110,345	1/4	125,415	1/4	140,485
1/2	6,285	1/2	21,362	1/2	36,426	1/2	50,915	1/2	65,438	1/2	80,504	1/2	95,582	1/2	110,659	1/2	125,729	1/2	140,799
3/4	6,599	3/4	21,677	3/4	36,734	3/4	51,217	3/4	65,746	3/4	80,818	3/4	95,896	3/4	110,973	3/4	126,043	3/4	141,113
5	6,914	5	21,991	5	37,042	5	51,519	5	66,055	5	81,132	5	96,210	5	111,287	5	126,357	5	141,427
1/4	7,228	1/4	22,305	1/4	37,344	1/4	51,821	1/4	66,369	1/4	81,446	1/4	96,524	1/4	111,600	1/4	126,671	1/4	141,741
1/2	7,542	1/2	22,619	1/2	37,647	1/2	52,123	1/2	66,683	1/2	81,760	1/2	96,838	1/2	111,914	1/2	126,984	1/2	142,055
3/4	7,856	3/4	22,933	3/4	37,949	3/4	52,426	3/4	66,997	3/4	82,075	3/4	97,152	3/4	112,228	3/4	127,298	3/4	142,368
6	8,170	6	23,247	6	38,251	6	52,728	6	67,311	6	82,389	6	97,466	6	112,542	6	127,612	6	142,682
1/4	8,484	1/4	23,561	1/4	38,553	1/4	53,030	1/4	67,625	1/4	82,703	1/4	97,780	1/4	112,856	1/4	127,926	1/4	142,996
1/2	8,798	1/2	23,875	1/2	38,855	1/2	53,333	1/2	67,939	1/2	83,017	1/2	98,095	1/2	113,170	1/2	128,240	1/2	143,310
3/4	9,112	3/4	24,189	3/4	39,157	3/4	53,635	3/4	68,253	3/4	83,331	3/4	98,409	3/4	113,484	3/4	128,554	3/4	143,624
7	9,426	7	24,504	7	39,459	7	53,937	7	68,568	7	83,645	7	98,723	7	113,798	7	128,868	7	143,938
1/4	9,741	1/4	24,818	1/4	39,760	1/4	54,240	1/4	68,882	1/4	83,959	1/4	99,037	1/4	114,112	1/4	129,182	1/4	144,252
1/2	10,055	1/2	25,132	1/2	40,062	1/2	54,542	1/2	69,196	1/2	84,273	1/2	99,351	1/2	114,426	1/2	129,496	1/2	144,566
3/4	10,369	3/4	25,446	3/4	40,363	3/4	54,844	3/4	69,510	3/4	84,587	3/4	99,665	3/4	114,740	3/4	129,810	3/4	144,880
8	10,683	8	25,760	8	40,664	8	55,147	8	69,824	8	84,902	8	99,979	8	115,054	8	130,124	8	145,194
1/4	10,997	1/4	26,074	1/4	40,966	1/4	55,449	1/4	70,138	1/4	85,216	1/4	100,293	1/4	115,368	1/4	130,438	1/4	145,508
1/2	11,311	1/2	26,388	1/2	41,267	1/2	55,751	1/2	70,452	1/2	85,530	1/2	100,607	1/2	115,682	1/2	130,752	1/2	145,822
3/4	11,625	3/4	26,702	3/4	41,569	3/4	56,054	3/4	70,766	3/4	85,844	3/4	100,922	3/4	115,996	3/4	131,066	3/4	146,136
9	11,939	9	27,016	9	41,870	9	56,356	9	71,080	9	86,158	9	101,236	9	116,310	9	131,380	9	146,450
1/4	12,253	1/4	27,330	1/4	42,171	1/4	56,658	1/4	71,395	1/4	86,472	1/4	101,550	1/4	116,624	1/4	131,694	1/4	146,764
1/2	12,567	1/2	27,644	1/2	42,473	1/2	56,961	1/2	71,709	1/2	86,786	1/2	101,864	1/2	116,938	1/2	132,008	1/2	147,078
3/4	12,882	3/4	27,958	3/4	42,774	3/4	57,263	3/4	72,023	3/4	87,100	3/4	102,178	3/4	117,252	3/4	132,322	3/4	147,392
10	13,196	10	28,272	10	43,076	10	57,565	10	72,337	10	87,415	10	102,492	10	117,566	10	132,636	10	147,706
1/4	13,510	1/4	28,586	1/4	43,377	1/4	57,868	1/4	72,651	1/4	87,729	1/4	102,806	1/4	117,880	1/4	132,950	1/4	148,020
1/2	13,824	1/2	28,899	1/2	43,678	1/2	58,170	1/2	72,965	1/2	88,043	1/2	103,120	1/2	118,194	1/2	133,264	1/2	148,334
3/4	14,138	3/4	29,213	3/4	43,980	3/4	58,473	3/4	73,279	3/4	88,357	3/4	103,435	3/4	118,508	3/4	133,578	3/4	148,648
11	14,452	11	29,527	11	44,281	11	58,775	11	73,593	11	88,671	11	103,749	11	118,822	11	133,892	11	148,962
1/4	14,766	1/4	29,841	1/4	44,583	1/4	59,077	1/4	73,908	1/4	88,985	1/4	104,063	1/4	119,135	1/4	134,206	1/4	149,276
1/2	15,080	1/2	30,155	1/2	44,884	1/2	59,380	1/2	74,222	1/2	89,299	1/2	104,377	1/2	119,449	1/2	134,519	1/2	149,590
3/4	15,394	3/4	30,469	3/4	45,185	3/4	59,682	3/4	74,536	3/4	89,613	3/4	104,691	3/4	119,763	3/4	134,833	3/4	149,904

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

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BARGE "HSM 3041"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/2"

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	150,217	0	165,288	0	180,347	0	195,366	0	210,288	0		0		0		0		0	
1/4	150,531	1/4	165,601	1/4	180,660	1/4	195,679	1/4	210,568	1/4		1/4		1/4		1/4		1/4	
1/2	150,845	1/2	165,915	1/2	180,973	1/2	195,992	1/2	210,848	1/2		1/2		1/2		1/2		1/2	
3/4	151,159	3/4	166,229	3/4	181,286	3/4	196,305	3/4	211,128	3/4		3/4		3/4		3/4		3/4	
1	151,473	1	166,543	1	181,598	1	196,617	1	211,408	1		1		1		1		1	
1/4	151,787	1/4	166,857	1/4	181,911	1/4	196,930	1/4	211,639	1/4		1/4		1/4		1/4		1/4	
1/2	152,101	1/2	167,171	1/2	182,224	1/2	197,243	1/2	211,871	1/2		1/2		1/2		1/2		1/2	
3/4	152,415	3/4	167,485	3/4	182,537	3/4	197,556	3/4	212,102	3/4		3/4		3/4		3/4		3/4	
2	152,729	2	167,799	2	182,850	2	197,869	2	212,333	2		2		2		2		2	
1/4	153,043	1/4	168,113	1/4	183,163	1/4	198,182	1/4	212,512	1/4		1/4		1/4		1/4		1/4	
1/2	153,357	1/2	168,427	1/2	183,476	1/2	198,495	1/2	212,692	1/2		1/2		1/2		1/2		1/2	
3/4	153,671	3/4	168,741	3/4	183,789	3/4	198,808	3/4	212,871	3/4		3/4		3/4		3/4		3/4	
3	153,985	3	169,055	3	184,102	3	199,121	3	213,050	3		3		3		3		3	
1/4	154,299	1/4	169,369	1/4	184,415	1/4	199,433	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,613	1/2	169,683	1/2	184,727	1/2	199,746	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,927	3/4	169,997	3/4	185,040	3/4	200,059	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,241	4	170,311	4	185,353	4	200,372	4		4		4		4		4		4	
1/4	155,555	1/4	170,625	1/4	185,666	1/4	200,685	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,869	1/2	170,939	1/2	185,979	1/2	200,998	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,183	3/4	171,253	3/4	186,292	3/4	201,311	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,497	5	171,567	5	186,605	5	201,624	5		5		5		5		5		5	
1/4	156,811	1/4	171,881	1/4	186,918	1/4	201,935	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,125	1/2	172,195	1/2	187,231	1/2	202,246	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,439	3/4	172,509	3/4	187,543	3/4	202,558	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,752	6	172,823	6	187,856	6	202,869	6		6		6		6		6		6	
1/4	158,066	1/4	173,137	1/4	188,169	1/4	203,179	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,380	1/2	173,450	1/2	188,482	1/2	203,489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,694	3/4	173,764	3/4	188,795	3/4	203,798	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,008	7	174,078	7	189,108	7	204,108	7		7		7		7		7		7	
1/4	159,322	1/4	174,392	1/4	189,421	1/4	204,418	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,636	1/2	174,706	1/2	189,734	1/2	204,728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,950	3/4	175,020	3/4	190,047	3/4	205,038	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,264	8	175,334	8	190,360	8	205,348	8		8		8		8		8		8	
1/4	160,578	1/4	175,648	1/4	190,672	1/4	205,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,892	1/2	175,962	1/2	190,985	1/2	205,968	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,206	3/4	176,276	3/4	191,298	3/4	206,278	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,520	9	176,590	9	191,611	9	206,588	9		9		9		9		9		9	
1/4	161,834	1/4	176,903	1/4	191,924	1/4	206,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,148	1/2	177,217	1/2	192,237	1/2	207,207	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,462	3/4	177,530	3/4	192,550	3/4	207,517	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,776	10	177,844	10	192,863	10	207,827	10		10		10		10		10		10	
1/4	163,090	1/4	178,157	1/4	193,176	1/4	208,136	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,404	1/2	178,470	1/2	193,488	1/2	208,446	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,718	3/4	178,782	3/4	193,801	3/4	208,755	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,032	11	179,095	11	194,114	11	209,065	11		11		11		11		11		11	
1/4	164,346	1/4	179,408	1/4	194,427	1/4	209,371	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,660	1/2	179,721	1/2	194,740	1/2	209,676	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,974	3/4	180,034	3/4	195,053	3/4	209,982	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
PRINTED: 02/26/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3041"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,713	0	30,792	0	45,853	0	60,919	0	76,000	0	91,082	0	106,163	0	121,239	0	136,312
1/4	1,268	1/4	16,027	1/4	31,106	1/4	46,166	1/4	61,233	1/4	76,314	1/4	91,396	1/4	106,477	1/4	121,553	1/4	136,626
1/2	1,504	1/2	16,341	1/2	31,420	1/2	46,479	1/2	61,547	1/2	76,629	1/2	91,710	1/2	106,791	1/2	121,867	1/2	136,940
3/4	1,740	3/4	16,656	3/4	31,734	3/4	46,792	3/4	61,862	3/4	76,943	3/4	92,024	3/4	107,105	3/4	122,181	3/4	137,255
1	1,975	1	16,970	1	32,049	1	47,106	1	62,176	1	77,257	1	92,338	1	107,420	1	122,495	1	137,569
1/4	2,269	1/4	17,284	1/4	32,363	1/4	47,419	1/4	62,490	1/4	77,571	1/4	92,652	1/4	107,734	1/4	122,809	1/4	137,883
1/2	2,563	1/2	17,598	1/2	32,677	1/2	47,732	1/2	62,804	1/2	77,885	1/2	92,967	1/2	108,048	1/2	123,123	1/2	138,197
3/4	2,857	3/4	17,912	3/4	32,991	3/4	48,046	3/4	63,118	3/4	78,200	3/4	93,281	3/4	108,362	3/4	123,437	3/4	138,511
2	3,150	2	18,226	2	33,305	2	48,359	2	63,433	2	78,514	2	93,595	2	108,676	2	123,751	2	138,825
1/4	3,464	1/4	18,541	1/4	33,620	1/4	48,672	1/4	63,747	1/4	78,828	1/4	93,909	1/4	108,991	1/4	124,065	1/4	139,139
1/2	3,777	1/2	18,855	1/2	33,934	1/2	48,986	1/2	64,061	1/2	79,142	1/2	94,223	1/2	109,305	1/2	124,379	1/2	139,453
3/4	4,090	3/4	19,169	3/4	34,248	3/4	49,299	3/4	64,375	3/4	79,456	3/4	94,538	3/4	109,619	3/4	124,693	3/4	139,767
3	4,403	3	19,483	3	34,562	3	49,612	3	64,689	3	79,771	3	94,852	3	109,933	3	125,007	3	140,081
1/4	4,717	1/4	19,797	1/4	34,876	1/4	49,926	1/4	65,003	1/4	80,085	1/4	95,166	1/4	110,247	1/4	125,321	1/4	140,395
1/2	5,031	1/2	20,112	1/2	35,191	1/2	50,239	1/2	65,318	1/2	80,399	1/2	95,480	1/2	110,561	1/2	125,635	1/2	140,709
3/4	5,345	3/4	20,426	3/4	35,505	3/4	50,553	3/4	65,632	3/4	80,713	3/4	95,794	3/4	110,875	3/4	125,949	3/4	141,023
4	5,659	4	20,740	4	35,819	4	50,866	4	65,946	4	81,027	4	96,109	4	111,190	4	126,263	4	141,337
1/4	5,973	1/4	21,054	1/4	36,133	1/4	51,180	1/4	66,260	1/4	81,342	1/4	96,423	1/4	111,504	1/4	126,577	1/4	141,651
1/2	6,287	1/2	21,368	1/2	36,447	1/2	51,494	1/2	66,574	1/2	81,656	1/2	96,737	1/2	111,818	1/2	126,891	1/2	141,965
3/4	6,601	3/4	21,683	3/4	36,762	3/4	51,808	3/4	66,889	3/4	81,970	3/4	97,051	3/4	112,132	3/4	127,205	3/4	142,279
5	6,916	5	21,997	5	37,076	5	52,122	5	67,203	5	82,284	5	97,365	5	112,446	5	127,519	5	142,593
1/4	7,230	1/4	22,311	1/4	37,390	1/4	52,436	1/4	67,517	1/4	82,598	1/4	97,680	1/4	112,760	1/4	127,833	1/4	142,907
1/2	7,544	1/2	22,625	1/2	37,704	1/2	52,750	1/2	67,831	1/2	82,913	1/2	97,994	1/2	113,074	1/2	128,147	1/2	143,221
3/4	7,858	3/4	22,939	3/4	38,018	3/4	53,064	3/4	68,145	3/4	83,227	3/4	98,308	3/4	113,388	3/4	128,462	3/4	143,535
6	8,172	6	23,254	6	38,332	6	53,378	6	68,460	6	83,541	6	98,622	6	113,702	6	128,776	6	143,849
1/4	8,487	1/4	23,568	1/4	38,646	1/4	53,693	1/4	68,774	1/4	83,855	1/4	98,936	1/4	114,016	1/4	129,090	1/4	144,163
1/2	8,801	1/2	23,882	1/2	38,960	1/2	54,007	1/2	69,088	1/2	84,169	1/2	99,251	1/2	114,330	1/2	129,404	1/2	144,477
3/4	9,115	3/4	24,196	3/4	39,274	3/4	54,321	3/4	69,402	3/4	84,483	3/4	99,565	3/4	114,644	3/4	129,718	3/4	144,791
7	9,429	7	24,510	7	39,587	7	54,635	7	69,716	7	84,798	7	99,879	7	114,958	7	130,032	7	145,105
1/4	9,743	1/4	24,825	1/4	39,901	1/4	54,949	1/4	70,031	1/4	85,112	1/4	100,193	1/4	115,272	1/4	130,346	1/4	145,419
1/2	10,057	1/2	25,139	1/2	40,214	1/2	55,264	1/2	70,345	1/2	85,426	1/2	100,507	1/2	115,586	1/2	130,660	1/2	145,733
3/4	10,372	3/4	25,453	3/4	40,527	3/4	55,578	3/4	70,659	3/4	85,740	3/4	100,822	3/4	115,900	3/4	130,974	3/4	146,048
8	10,686	8	25,767	8	40,840	8	55,892	8	70,973	8	86,054	8	101,136	8	116,214	8	131,288	8	146,362
1/4	11,000	1/4	26,081	1/4	41,154	1/4	56,206	1/4	71,287	1/4	86,369	1/4	101,450	1/4	116,528	1/4	131,602	1/4	146,676
1/2	11,314	1/2	26,395	1/2	41,467	1/2	56,520	1/2	71,602	1/2	86,683	1/2	101,764	1/2	116,842	1/2	131,916	1/2	146,990
3/4	11,628	3/4	26,709	3/4	41,780	3/4	56,834	3/4	71,916	3/4	86,997	3/4	102,078	3/4	117,156	3/4	132,230	3/4	147,304
9	11,943	9	27,024	9	42,094	9	57,149	9	72,230	9	87,311	9	102,392	9	117,470	9	132,544	9	147,618
1/4	12,257	1/4	27,338	1/4	42,407	1/4	57,463	1/4	72,544	1/4	87,625	1/4	102,707	1/4	117,784	1/4	132,858	1/4	147,932
1/2	12,571	1/2	27,652	1/2	42,720	1/2	57,777	1/2	72,858	1/2	87,940	1/2	103,021	1/2	118,098	1/2	133,172	1/2	148,246
3/4	12,885	3/4	27,966	3/4	43,033	3/4	58,091	3/4	73,173	3/4	88,254	3/4	103,335	3/4	118,412	3/4	133,486	3/4	148,560
10	13,199	10	28,279	10	43,347	10	58,405	10	73,487	10	88,568	10	103,649	10	118,726	10	133,800	10	148,874
1/4	13,514	1/4	28,593	1/4	43,660	1/4	58,720	1/4	73,801	1/4	88,882	1/4	103,963	1/4	119,040	1/4	134,114	1/4	149,188
1/2	13,828	1/2	28,907	1/2	43,973	1/2	59,034	1/2	74,115	1/2	89,196	1/2	104,278	1/2	119,355	1/2	134,428	1/2	149,502
3/4	14,142	3/4	29,221	3/4	44,286	3/4	59,348	3/4	74,429	3/4	89,511	3/4	104,592	3/4	119,669	3/4	134,742	3/4	149,816
11	14,456	11	29,535	11	44,600	11	59,662	11	74,743	11	89,825	11	104,906	11	119,983	11	135,056	11	150,130
1/4	14,770	1/4	29,850	1/4	44,913	1/4	59,976	1/4	75,058	1/4	90,139	1/4	105,220	1/4	120,297	1/4	135,370	1/4	150,444
1/2	15,085	1/2	30,164	1/2	45,226	1/2	60,291	1/2	75,372	1/2	90,453	1/2	105,534	1/2	120,611	1/2	135,684	1/2	150,758
3/4	15,399	3/4	30,478	3/4	45,539	3/4	60,605	3/4	75,686	3/4	90,767	3/4	105,849	3/4	120,925	3/4	135,998	3/4	151,072

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE OR 8" HATCH.
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3041"

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	151,386	0	166,460	0	181,523	0	196,545	0	211,471	0		0		0		0		0	
1/4	151,700	1/4	166,774	1/4	181,836	1/4	196,858	1/4	211,751	1/4		1/4		1/4		1/4		1/4	
1/2	152,014	1/2	167,088	1/2	182,149	1/2	197,171	1/2	212,031	1/2		1/2		1/2		1/2		1/2	
3/4	152,328	3/4	167,402	3/4	182,462	3/4	197,484	3/4	212,311	3/4		3/4		3/4		3/4		3/4	
1	152,642	1	167,716	1	182,775	1	197,797	1	212,591	1		1		1		1		1	
1/4	152,956	1/4	168,030	1/4	183,088	1/4	198,110	1/4	212,823	1/4		1/4		1/4		1/4		1/4	
1/2	153,270	1/2	168,344	1/2	183,401	1/2	198,423	1/2	213,054	1/2		1/2		1/2		1/2		1/2	
3/4	153,584	3/4	168,658	3/4	183,714	3/4	198,736	3/4	213,286	3/4		3/4		3/4		3/4		3/4	
2	153,898	2	168,972	2	184,027	2	199,049	2	213,517	2		2		2		2		2	
1/4	154,212	1/4	169,286	1/4	184,340	1/4	199,362	1/4	213,696	1/4		1/4		1/4		1/4		1/4	
1/2	154,526	1/2	169,600	1/2	184,653	1/2	199,675	1/2	213,875	1/2		1/2		1/2		1/2		1/2	
3/4	154,841	3/4	169,914	3/4	184,966	3/4	199,988	3/4	214,055	3/4		3/4		3/4		3/4		3/4	
3	155,155	3	170,228	3	185,279	3	200,301	3	214,234	3		3		3		3		3	
1/4	155,469	1/4	170,542	1/4	185,592	1/4	200,614	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,783	1/2	170,856	1/2	185,904	1/2	200,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,097	3/4	171,170	3/4	186,217	3/4	201,240	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,411	4	171,484	4	186,530	4	201,553	4		4		4		4		4		4	
1/4	156,725	1/4	171,798	1/4	186,843	1/4	201,866	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,039	1/2	172,112	1/2	187,156	1/2	202,179	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,353	3/4	172,427	3/4	187,469	3/4	202,492	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,667	5	172,741	5	187,782	5	202,805	5		5		5		5		5		5	
1/4	157,981	1/4	173,055	1/4	188,095	1/4	203,116	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,295	1/2	173,369	1/2	188,408	1/2	203,428	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,609	3/4	173,683	3/4	188,721	3/4	203,739	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,923	6	173,997	6	189,034	6	204,051	6		6		6		6		6		6	
1/4	159,237	1/4	174,311	1/4	189,347	1/4	204,360	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,551	1/2	174,625	1/2	189,660	1/2	204,670	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,865	3/4	174,939	3/4	189,973	3/4	204,980	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,179	7	175,253	7	190,286	7	205,290	7		7		7		7		7		7	
1/4	160,493	1/4	175,567	1/4	190,599	1/4	205,600	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,807	1/2	175,881	1/2	190,912	1/2	205,910	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,121	3/4	176,195	3/4	191,225	3/4	206,220	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,435	8	176,509	8	191,538	8	206,530	8		8		8		8		8		8	
1/4	161,749	1/4	176,823	1/4	191,851	1/4	206,840	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,063	1/2	177,137	1/2	192,164	1/2	207,150	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,377	3/4	177,451	3/4	192,477	3/4	207,460	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,691	9	177,765	9	192,790	9	207,770	9		9		9		9		9		9	
1/4	163,005	1/4	178,079	1/4	193,103	1/4	208,080	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,319	1/2	178,392	1/2	193,416	1/2	208,390	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,634	3/4	178,706	3/4	193,729	3/4	208,700	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,948	10	179,019	10	194,042	10	209,010	10		10		10		10		10		10	
1/4	164,262	1/4	179,332	1/4	194,355	1/4	209,319	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,576	1/2	179,645	1/2	194,668	1/2	209,629	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,890	3/4	179,958	3/4	194,981	3/4	209,938	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,204	11	180,271	11	195,294	11	210,248	11		11		11		11		11		11	
1/4	165,518	1/4	180,584	1/4	195,607	1/4	210,554	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,832	1/2	180,897	1/2	195,920	1/2	210,859	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,146	3/4	181,210	3/4	196,232	3/4	211,165	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
PRINTED: 02/26/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3041"

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	1,029	0	15,641	0	30,636	0	45,403	0	59,967	0	74,884	0	89,857	0	104,842	0	119,818	0	134,789
1/4	1,263	1/4	15,953	1/4	30,949	1/4	45,705	1/4	60,279	1/4	75,195	1/4	90,169	1/4	105,155	1/4	120,129	1/4	135,101
1/2	1,498	1/2	16,265	1/2	31,261	1/2	46,007	1/2	60,591	1/2	75,505	1/2	90,481	1/2	105,467	1/2	120,441	1/2	135,413
3/4	1,733	3/4	16,578	3/4	31,574	3/4	46,309	3/4	60,903	3/4	75,815	3/4	90,794	3/4	105,779	3/4	120,753	3/4	135,725
1	1,967	1	16,890	1	31,886	1	46,611	1	61,215	1	76,126	1	91,106	1	106,092	1	121,065	1	136,037
1/4	2,260	1/4	17,203	1/4	32,199	1/4	46,913	1/4	61,528	1/4	76,436	1/4	91,418	1/4	106,404	1/4	121,377	1/4	136,349
1/2	2,552	1/2	17,515	1/2	32,511	1/2	47,215	1/2	61,840	1/2	76,747	1/2	91,730	1/2	106,716	1/2	121,689	1/2	136,661
3/4	2,845	3/4	17,828	3/4	32,823	3/4	47,517	3/4	62,152	3/4	77,057	3/4	92,042	3/4	107,028	3/4	122,001	3/4	136,973
2	3,138	2	18,140	2	33,136	2	47,819	2	62,464	2	77,368	2	92,354	2	107,340	2	122,313	2	137,284
1/4	3,450	1/4	18,453	1/4	33,448	1/4	48,122	1/4	62,775	1/4	77,679	1/4	92,666	1/4	107,652	1/4	122,625	1/4	137,596
1/2	3,762	1/2	18,765	1/2	33,761	1/2	48,424	1/2	63,086	1/2	77,990	1/2	92,978	1/2	107,964	1/2	122,937	1/2	137,908
3/4	4,074	3/4	19,078	3/4	34,073	3/4	48,727	3/4	63,398	3/4	78,302	3/4	93,290	3/4	108,277	3/4	123,249	3/4	138,220
3	4,386	3	19,390	3	34,386	3	49,030	3	63,709	3	78,613	3	93,602	3	108,589	3	123,560	3	138,532
1/4	4,698	1/4	19,702	1/4	34,698	1/4	49,332	1/4	64,019	1/4	78,926	1/4	93,914	1/4	108,901	1/4	123,872	1/4	138,844
1/2	5,011	1/2	20,015	1/2	35,010	1/2	49,635	1/2	64,330	1/2	79,238	1/2	94,226	1/2	109,212	1/2	124,184	1/2	139,156
3/4	5,323	3/4	20,327	3/4	35,321	3/4	49,937	3/4	64,640	3/4	79,550	3/4	94,538	3/4	109,524	3/4	124,496	3/4	139,468
4	5,636	4	20,640	4	35,633	4	50,240	4	64,951	4	79,863	4	94,851	4	109,836	4	124,808	4	139,780
1/4	5,949	1/4	20,952	1/4	35,942	1/4	50,543	1/4	65,261	1/4	80,175	1/4	95,163	1/4	110,148	1/4	125,120	1/4	140,092
1/2	6,261	1/2	21,265	1/2	36,250	1/2	50,845	1/2	65,571	1/2	80,488	1/2	95,475	1/2	110,460	1/2	125,432	1/2	140,403
3/4	6,574	3/4	21,577	3/4	36,558	3/4	51,148	3/4	65,882	3/4	80,800	3/4	95,787	3/4	110,772	3/4	125,744	3/4	140,715
5	6,886	5	21,890	5	36,867	5	51,450	5	66,192	5	81,112	5	96,099	5	111,084	5	126,056	5	141,027
1/4	7,199	1/4	22,202	1/4	37,172	1/4	51,753	1/4	66,503	1/4	81,425	1/4	96,411	1/4	111,396	1/4	126,368	1/4	141,339
1/2	7,512	1/2	22,515	1/2	37,477	1/2	52,055	1/2	66,813	1/2	81,737	1/2	96,723	1/2	111,708	1/2	126,680	1/2	141,650
3/4	7,824	3/4	22,827	3/4	37,782	3/4	52,358	3/4	67,124	3/4	82,049	3/4	97,035	3/4	112,020	3/4	126,991	3/4	141,962
6	8,137	6	23,139	6	38,087	6	52,661	6	67,434	6	82,362	6	97,347	6	112,332	6	127,303	6	142,274
1/4	8,450	1/4	23,452	1/4	38,392	1/4	52,963	1/4	67,744	1/4	82,674	1/4	97,659	1/4	112,644	1/4	127,615	1/4	142,581
1/2	8,763	1/2	23,764	1/2	38,697	1/2	53,266	1/2	68,055	1/2	82,987	1/2	97,972	1/2	112,956	1/2	127,927	1/2	142,888
3/4	9,076	3/4	24,077	3/4	39,002	3/4	53,568	3/4	68,365	3/4	83,299	3/4	98,284	3/4	113,267	3/4	128,239	3/4	143,195
7	9,389	7	24,389	7	39,308	7	53,871	7	68,676	7	83,611	7	98,596	7	113,579	7	128,551	7	143,502
1/4	9,701	1/4	24,702	1/4	39,613	1/4	54,174	1/4	68,986	1/4	83,924	1/4	98,908	1/4	113,891	1/4	128,863	1/4	143,797
1/2	10,014	1/2	25,014	1/2	39,918	1/2	54,476	1/2	69,296	1/2	84,236	1/2	99,221	1/2	114,203	1/2	129,175	1/2	144,092
3/4	10,327	3/4	25,327	3/4	40,223	3/4	54,779	3/4	69,607	3/4	84,549	3/4	99,533	3/4	114,515	3/4	129,487	3/4	144,387
8	10,640	8	25,639	8	40,528	8	55,081	8	69,917	8	84,861	8	99,845	8	114,827	8	129,799	8	144,682
1/4	10,953	1/4	25,951	1/4	40,833	1/4	55,384	1/4	70,228	1/4	85,173	1/4	100,158	1/4	115,139	1/4	130,111	1/4	144,960
1/2	11,266	1/2	26,264	1/2	41,138	1/2	55,687	1/2	70,538	1/2	85,486	1/2	100,470	1/2	115,451	1/2	130,422	1/2	145,239
3/4	11,578	3/4	26,576	3/4	41,443	3/4	55,989	3/4	70,849	3/4	85,798	3/4	100,782	3/4	115,763	3/4	130,734	3/4	145,518
9	11,891	9	26,889	9	41,749	9	56,292	9	71,159	9	86,111	9	101,095	9	116,075	9	131,046	9	145,796
1/4	12,204	1/4	27,201	1/4	42,054	1/4	56,596	1/4	71,469	1/4	86,423	1/4	101,407	1/4	116,387	1/4	131,358	1/4	146,059
1/2	12,516	1/2	27,513	1/2	42,359	1/2	56,900	1/2	71,780	1/2	86,735	1/2	101,719	1/2	116,698	1/2	131,670	1/2	146,322
3/4	12,828	3/4	27,825	3/4	42,664	3/4	57,204	3/4	72,090	3/4	87,048	3/4	102,032	3/4	117,010	3/4	131,982	3/4	146,585
10	13,141	10	28,138	10	42,969	10	57,508	10	72,401	10	87,360	10	102,344	10	117,322	10	132,294	10	146,848
1/4	13,453	1/4	28,450	1/4	43,274	1/4	57,814	1/4	72,711	1/4	87,672	1/4	102,656	1/4	117,634	1/4	132,606	1/4	147,096
1/2	13,766	1/2	28,762	1/2	43,579	1/2	58,120	1/2	73,022	1/2	87,985	1/2	102,968	1/2	117,946	1/2	132,918	1/2	147,343
3/4	14,078	3/4	29,075	3/4	43,884	3/4	58,426	3/4	73,332	3/4	88,297	3/4	103,281	3/4	118,258	3/4	133,230	3/4	147,590
11	14,391	11	29,387	11	44,189	11	58,731	11	73,642	11	88,609	11	103,593	11	118,570	11	133,542	11	147,838
1/4	14,703	1/4	29,699	1/4	44,493	1/4	59,040	1/4	73,953	1/4	88,921	1/4	103,905	1/4	118,882	1/4	133,853	1/4	148,069
1/2	15,016	1/2	30,012	1/2	44,796	1/2	59,349	1/2	74,263	1/2	89,233	1/2	104,218	1/2	119,194	1/2	134,165	1/2	148,300
3/4	15,328	3/4	30,324	3/4	45,100	3/4	59,658	3/4	74,574	3/4	89,545	3/4	104,530	3/4	119,506	3/4	134,477	3/4	148,531

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3041"

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	148,763	0	159,149	0	169,514	0	179,851	0	190,172	0		0		0		0		0	
1/4	148,982	1/4	159,365	1/4	169,730	1/4	180,066	1/4	190,365	1/4		1/4		1/4		1/4		1/4	
1/2	149,202	1/2	159,582	1/2	169,945	1/2	180,281	1/2	190,559	1/2		1/2		1/2		1/2		1/2	
3/4	149,421	3/4	159,798	3/4	170,160	3/4	180,497	3/4	190,752	3/4		3/4		3/4		3/4		3/4	
1	149,641	1	160,014	1	170,376	1	180,712	1	190,945	1		1		1		1		1	
1/4	149,857	1/4	160,230	1/4	170,591	1/4	180,927	1/4	191,105	1/4		1/4		1/4		1/4		1/4	
1/2	150,073	1/2	160,446	1/2	170,806	1/2	181,143	1/2	191,264	1/2		1/2		1/2		1/2		1/2	
3/4	150,289	3/4	160,662	3/4	171,022	3/4	181,358	3/4	191,424	3/4		3/4		3/4		3/4		3/4	
2	150,505	2	160,878	2	171,237	2	181,573	2	191,584	2		2		2		2		2	
1/4	150,722	1/4	161,094	1/4	171,452	1/4	181,789	1/4	191,708	1/4		1/4		1/4		1/4		1/4	
1/2	150,938	1/2	161,310	1/2	171,668	1/2	182,004	1/2	191,831	1/2		1/2		1/2		1/2		1/2	
3/4	151,154	3/4	161,526	3/4	171,883	3/4	182,219	3/4	191,955	3/4		3/4		3/4		3/4		3/4	
3	151,370	3	161,743	3	172,098	3	182,435	3	192,079	3		3		3		3		3	
1/4	151,586	1/4	161,959	1/4	172,314	1/4	182,650	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,802	1/2	162,175	1/2	172,529	1/2	182,865	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,018	3/4	162,391	3/4	172,745	3/4	183,081	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,234	4	162,607	4	172,960	4	183,296	4		4		4		4		4		4	
1/4	152,450	1/4	162,823	1/4	173,175	1/4	183,511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,666	1/2	163,039	1/2	173,391	1/2	183,727	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,883	3/4	163,255	3/4	173,606	3/4	183,942	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,099	5	163,471	5	173,821	5	184,157	5		5		5		5		5		5	
1/4	153,315	1/4	163,687	1/4	174,037	1/4	184,373	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,531	1/2	163,904	1/2	174,252	1/2	184,588	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,747	3/4	164,120	3/4	174,467	3/4	184,803	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,963	6	164,336	6	174,683	6	185,019	6		6		6		6		6		6	
1/4	154,179	1/4	164,552	1/4	174,898	1/4	185,234	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,395	1/2	164,768	1/2	175,113	1/2	185,449	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,611	3/4	164,984	3/4	175,329	3/4	185,665	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,827	7	165,200	7	175,544	7	185,880	7		7		7		7		7		7	
1/4	155,043	1/4	165,416	1/4	175,759	1/4	186,095	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,260	1/2	165,632	1/2	175,975	1/2	186,311	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,476	3/4	165,848	3/4	176,190	3/4	186,526	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,692	8	166,064	8	176,405	8	186,742	8		8		8		8		8		8	
1/4	155,908	1/4	166,281	1/4	176,621	1/4	186,957	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,124	1/2	166,497	1/2	176,836	1/2	187,173	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,340	3/4	166,713	3/4	177,051	3/4	187,388	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,556	9	166,929	9	177,267	9	187,603	9		9		9		9		9		9	
1/4	156,772	1/4	167,145	1/4	177,482	1/4	187,819	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,988	1/2	167,360	1/2	177,697	1/2	188,034	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,204	3/4	167,576	3/4	177,913	3/4	188,250	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,421	10	167,792	10	178,128	10	188,465	10		10		10		10		10		10	
1/4	157,637	1/4	168,007	1/4	178,343	1/4	188,680	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,853	1/2	168,222	1/2	178,559	1/2	188,895	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,069	3/4	168,438	3/4	178,774	3/4	189,110	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,285	11	168,653	11	178,989	11	189,325	11		11		11		11		11		11	
1/4	158,501	1/4	168,868	1/4	179,205	1/4	189,537	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,717	1/2	169,084	1/2	179,420	1/2	189,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,933	3/4	169,299	3/4	179,635	3/4	189,961	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
PRINTED: 02/26/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3041"

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	1,029	0	15,657	0	30,684	0	45,696	0	60,722	0	75,750	0	90,778	0	105,805	0	120,817	0	135,825
1/4	1,264	1/4	15,970	1/4	30,997	1/4	46,008	1/4	61,035	1/4	76,063	1/4	91,091	1/4	106,119	1/4	121,129	1/4	136,137
1/2	1,499	1/2	16,283	1/2	31,310	1/2	46,321	1/2	61,348	1/2	76,376	1/2	91,404	1/2	106,432	1/2	121,442	1/2	136,450
3/4	1,733	3/4	16,596	3/4	31,623	3/4	46,634	3/4	61,661	3/4	76,689	3/4	91,717	3/4	106,745	3/4	121,755	3/4	136,763
1	1,968	1	16,909	1	31,937	1	46,947	1	61,974	1	77,002	1	92,030	1	107,058	1	122,067	1	137,075
1/4	2,261	1/4	17,222	1/4	32,250	1/4	47,260	1/4	62,287	1/4	77,315	1/4	92,343	1/4	107,371	1/4	122,380	1/4	137,388
1/2	2,554	1/2	17,535	1/2	32,563	1/2	47,573	1/2	62,600	1/2	77,628	1/2	92,656	1/2	107,684	1/2	122,693	1/2	137,701
3/4	2,846	3/4	17,848	3/4	32,876	3/4	47,886	3/4	62,913	3/4	77,941	3/4	92,969	3/4	107,997	3/4	123,005	3/4	138,013
2	3,139	2	18,161	2	33,189	2	48,199	2	63,227	2	78,254	2	93,282	2	108,309	2	123,318	2	138,326
1/4	3,451	1/4	18,474	1/4	33,502	1/4	48,512	1/4	63,540	1/4	78,567	1/4	93,595	1/4	108,622	1/4	123,631	1/4	138,639
1/2	3,763	1/2	18,788	1/2	33,815	1/2	48,825	1/2	63,853	1/2	78,881	1/2	93,908	1/2	108,935	1/2	123,943	1/2	138,951
3/4	4,075	3/4	19,101	3/4	34,128	3/4	49,138	3/4	64,166	3/4	79,194	3/4	94,221	3/4	109,248	3/4	124,256	3/4	139,264
3	4,387	3	19,414	3	34,441	3	49,451	3	64,479	3	79,507	3	94,535	3	109,561	3	124,569	3	139,577
1/4	4,700	1/4	19,727	1/4	34,754	1/4	49,764	1/4	64,792	1/4	79,820	1/4	94,848	1/4	109,873	1/4	124,881	1/4	139,889
1/2	5,013	1/2	20,040	1/2	35,067	1/2	50,077	1/2	65,105	1/2	80,133	1/2	95,161	1/2	110,186	1/2	125,194	1/2	140,202
3/4	5,326	3/4	20,353	3/4	35,380	3/4	50,390	3/4	65,418	3/4	80,446	3/4	95,474	3/4	110,499	3/4	125,507	3/4	140,514
4	5,639	4	20,666	4	35,692	4	50,703	4	65,731	4	80,759	4	95,787	4	110,811	4	125,819	4	140,827
1/4	5,952	1/4	20,979	1/4	36,005	1/4	51,016	1/4	66,044	1/4	81,072	1/4	96,100	1/4	111,124	1/4	126,132	1/4	141,140
1/2	6,265	1/2	21,292	1/2	36,318	1/2	51,329	1/2	66,357	1/2	81,385	1/2	96,413	1/2	111,437	1/2	126,445	1/2	141,452
3/4	6,578	3/4	21,605	3/4	36,630	3/4	51,643	3/4	66,670	3/4	81,698	3/4	96,726	3/4	111,749	3/4	126,757	3/4	141,765
5	6,891	5	21,918	5	36,943	5	51,956	5	66,983	5	82,011	5	97,039	5	112,062	5	127,070	5	142,078
1/4	7,204	1/4	22,231	1/4	37,255	1/4	52,269	1/4	67,297	1/4	82,324	1/4	97,352	1/4	112,375	1/4	127,383	1/4	142,390
1/2	7,517	1/2	22,544	1/2	37,568	1/2	52,582	1/2	67,610	1/2	82,638	1/2	97,665	1/2	112,687	1/2	127,695	1/2	142,702
3/4	7,830	3/4	22,857	3/4	37,881	3/4	52,895	3/4	67,923	3/4	82,951	3/4	97,978	3/4	113,000	3/4	128,008	3/4	143,015
6	8,143	6	23,171	6	38,193	6	53,208	6	68,236	6	83,264	6	98,292	6	113,313	6	128,321	6	143,327
1/4	8,456	1/4	23,484	1/4	38,506	1/4	53,521	1/4	68,549	1/4	83,577	1/4	98,605	1/4	113,625	1/4	128,633	1/4	143,639
1/2	8,769	1/2	23,797	1/2	38,818	1/2	53,834	1/2	68,862	1/2	83,890	1/2	98,918	1/2	113,938	1/2	128,946	1/2	143,943
3/4	9,082	3/4	24,110	3/4	39,131	3/4	54,147	3/4	69,175	3/4	84,203	3/4	99,231	3/4	114,251	3/4	129,259	3/4	144,251
7	9,395	7	24,423	7	39,443	7	54,460	7	69,488	7	84,516	7	99,544	7	114,563	7	129,571	7	144,559
1/4	9,709	1/4	24,736	1/4	39,756	1/4	54,773	1/4	69,801	1/4	84,829	1/4	99,857	1/4	114,876	1/4	129,884	1/4	144,854
1/2	10,022	1/2	25,049	1/2	40,069	1/2	55,086	1/2	70,114	1/2	85,142	1/2	100,170	1/2	115,189	1/2	130,197	1/2	145,150
3/4	10,335	3/4	25,362	3/4	40,381	3/4	55,399	3/4	70,427	3/4	85,455	3/4	100,483	3/4	115,501	3/4	130,509	3/4	145,445
8	10,648	8	25,675	8	40,694	8	55,713	8	70,740	8	85,768	8	100,796	8	115,814	8	130,822	8	145,741
1/4	10,961	1/4	25,988	1/4	41,006	1/4	56,026	1/4	71,054	1/4	86,081	1/4	101,109	1/4	116,127	1/4	131,135	1/4	146,020
1/2	11,274	1/2	26,301	1/2	41,319	1/2	56,339	1/2	71,367	1/2	86,394	1/2	101,422	1/2	116,439	1/2	131,447	1/2	146,300
3/4	11,587	3/4	26,614	3/4	41,632	3/4	56,652	3/4	71,680	3/4	86,708	3/4	101,735	3/4	116,752	3/4	131,760	3/4	146,579
9	11,900	9	26,927	9	41,944	9	56,965	9	71,993	9	87,021	9	102,049	9	117,065	9	132,073	9	146,859
1/4	12,213	1/4	27,240	1/4	42,257	1/4	57,278	1/4	72,306	1/4	87,334	1/4	102,362	1/4	117,377	1/4	132,385	1/4	147,122
1/2	12,526	1/2	27,554	1/2	42,569	1/2	57,591	1/2	72,619	1/2	87,647	1/2	102,675	1/2	117,690	1/2	132,698	1/2	147,386
3/4	12,839	3/4	27,867	3/4	42,882	3/4	57,904	3/4	72,932	3/4	87,960	3/4	102,988	3/4	118,003	3/4	133,011	3/4	147,649
10	13,152	10	28,180	10	43,194	10	58,217	10	73,245	10	88,273	10	103,301	10	118,315	10	133,323	10	147,912
1/4	13,465	1/4	28,493	1/4	43,507	1/4	58,530	1/4	73,558	1/4	88,586	1/4	103,614	1/4	118,628	1/4	133,636	1/4	148,160
1/2	13,778	1/2	28,806	1/2	43,820	1/2	58,843	1/2	73,871	1/2	88,899	1/2	103,927	1/2	118,941	1/2	133,949	1/2	148,407
3/4	14,092	3/4	29,119	3/4	44,132	3/4	59,156	3/4	74,184	3/4	89,212	3/4	104,240	3/4	119,253	3/4	134,261	3/4	148,655
11	14,405	11	29,432	11	44,445	11	59,470	11	74,497	11	89,525	11	104,553	11	119,566	11	134,574	11	148,902
1/4	14,718	1/4	29,745	1/4	44,757	1/4	59,783	1/4	74,810	1/4	89,838	1/4	104,866	1/4	119,879	1/4	134,887	1/4	149,134
1/2	15,031	1/2	30,058	1/2	45,070	1/2	60,096	1/2	75,124	1/2	90,151	1/2	105,179	1/2	120,191	1/2	135,199	1/2	149,365
3/4	15,344	3/4	30,371	3/4	45,383	3/4	60,409	3/4	75,437	3/4	90,465	3/4	105,492	3/4	120,504	3/4	135,512	3/4	149,596

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3041"

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	149,828	0	160,217	0	170,584	0	180,923	0	191,247	0		0		0		0		0	
1/4	150,047	1/4	160,433	1/4	170,800	1/4	181,138	1/4	191,440	1/4		1/4		1/4		1/4		1/4	
1/2	150,267	1/2	160,649	1/2	171,015	1/2	181,353	1/2	191,633	1/2		1/2		1/2		1/2		1/2	
3/4	150,487	3/4	160,865	3/4	171,230	3/4	181,569	3/4	191,826	3/4		3/4		3/4		3/4		3/4	
1	150,706	1	161,081	1	171,446	1	181,784	1	192,019	1		1		1		1		1	
1/4	150,923	1/4	161,298	1/4	171,661	1/4	182,000	1/4	192,179	1/4		1/4		1/4		1/4		1/4	
1/2	151,139	1/2	161,514	1/2	171,876	1/2	182,215	1/2	192,339	1/2		1/2		1/2		1/2		1/2	
3/4	151,355	3/4	161,730	3/4	172,092	3/4	182,430	3/4	192,499	3/4		3/4		3/4		3/4		3/4	
2	151,571	2	161,946	2	172,307	2	182,646	2	192,658	2		2		2		2		2	
1/4	151,787	1/4	162,162	1/4	172,523	1/4	182,861	1/4	192,782	1/4		1/4		1/4		1/4		1/4	
1/2	152,003	1/2	162,378	1/2	172,738	1/2	183,076	1/2	192,906	1/2		1/2		1/2		1/2		1/2	
3/4	152,219	3/4	162,594	3/4	172,953	3/4	183,292	3/4	193,030	3/4		3/4		3/4		3/4		3/4	
3	152,436	3	162,811	3	173,169	3	183,507	3	193,153	3		3		3		3		3	
1/4	152,652	1/4	163,027	1/4	173,384	1/4	183,723	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,868	1/2	163,243	1/2	173,600	1/2	183,938	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,084	3/4	163,459	3/4	173,815	3/4	184,153	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,300	4	163,675	4	174,030	4	184,369	4		4		4		4		4		4	
1/4	153,516	1/4	163,891	1/4	174,246	1/4	184,584	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,732	1/2	164,107	1/2	174,461	1/2	184,800	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,949	3/4	164,324	3/4	174,676	3/4	185,015	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,165	5	164,540	5	174,892	5	185,230	5		5		5		5		5		5	
1/4	154,381	1/4	164,756	1/4	175,107	1/4	185,446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,597	1/2	164,972	1/2	175,323	1/2	185,661	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,813	3/4	165,188	3/4	175,538	3/4	185,876	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,029	6	165,404	6	175,753	6	186,092	6		6		6		6		6		6	
1/4	155,245	1/4	165,620	1/4	175,969	1/4	186,307	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,462	1/2	165,837	1/2	176,184	1/2	186,523	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,678	3/4	166,053	3/4	176,400	3/4	186,738	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,894	7	166,269	7	176,615	7	186,953	7		7		7		7		7		7	
1/4	156,110	1/4	166,485	1/4	176,830	1/4	187,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,326	1/2	166,701	1/2	177,046	1/2	187,384	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,542	3/4	166,917	3/4	177,261	3/4	187,600	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,758	8	167,133	8	177,476	8	187,815	8		8		8		8		8		8	
1/4	156,975	1/4	167,350	1/4	177,692	1/4	188,031	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,191	1/2	167,566	1/2	177,907	1/2	188,246	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,407	3/4	167,782	3/4	178,123	3/4	188,462	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,623	9	167,998	9	178,338	9	188,677	9		9		9		9		9		9	
1/4	157,839	1/4	168,214	1/4	178,553	1/4	188,893	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,055	1/2	168,430	1/2	178,769	1/2	189,108	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,272	3/4	168,645	3/4	178,984	3/4	189,323	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,488	10	168,861	10	179,200	10	189,539	10		10		10		10		10		10	
1/4	158,704	1/4	169,077	1/4	179,415	1/4	189,754	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,920	1/2	169,292	1/2	179,630	1/2	189,969	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,136	3/4	169,507	3/4	179,846	3/4	190,184	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,352	11	169,723	11	180,061	11	190,399	11		11		11		11		11		11	
1/4	159,568	1/4	169,938	1/4	180,276	1/4	190,611	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,785	1/2	170,153	1/2	180,492	1/2	190,823	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,001	3/4	170,369	3/4	180,707	3/4	191,035	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/25/2020 CL
CALCULATED: 02/25/2020 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
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P.O. Box 2092
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BARGE "HSM 3041"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	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	
1/4	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

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 02/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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& ANALYSIS, INC.

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



BARGE "HSM 3041"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	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	
1/4	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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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PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 3041"

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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
2	7	2	123	2	280	2	428	2	2	2		2	2	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
3	13	3	136	3	294	3	438	3	3	3		3	3	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
4	20	4	148	4	307	4	448	4	4	4		4	4	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
5	28	5	161	5	320	5	457	5	5	5		5	5	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
6	37	6	174	6	333	6	466	6	6	6		6	6	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
7	46	7	187	7	346	7	474	7	7	7		7	7	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
8	56	8	200	8	358	8	481	8	8	8		8	8	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
9	66	9	214	9	370	9	487	9	9	9		9	9	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
10	77	10	227	10	383	10	491	10	10	10		10	10	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4
11	88	11	240	11	394	11	494	11	11	11		11	11	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	1/4	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	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	3/4	3/4	3/4	3/4	3/4

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