



BARGE "HSM 3021"

ULLAGE TRIM TABLE "MMC" GAUGE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	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 ULLAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 1, 2019

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

<http://www.pmacorp.net>



BARGE "HSM 3021"

ULLAGE TRIM TABLE 8" GAUGE HATCH

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 1, 2019

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BARGE "HSM 3021"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	80,124	0	65,083	0	50,140	0	35,105	0	20,065	0	5,799	0		0		0		0	
1/4	79,810	1/4	64,770	1/4	49,828	1/4	34,792	1/4	19,751	1/4	5,525	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,497	1/2	64,456	1/2	49,516	1/2	34,479	1/2	19,438	1/2	5,250	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,184	3/4	64,144	3/4	49,204	3/4	34,165	3/4	19,125	3/4	4,979	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	78,870	1	63,832	1	48,891	1	33,852	1	18,811	1	4,708	1	1	1	1	1	1	1	1
1/4	78,557	1/4	63,520	1/4	48,579	1/4	33,539	1/4	18,498	1/4	4,437	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,243	1/2	63,208	1/2	48,266	1/2	33,225	1/2	18,185	1/2	4,166	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,930	3/4	62,897	3/4	47,953	3/4	32,912	3/4	17,872	3/4	3,899	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	77,617	2	62,586	2	47,639	2	32,599	2	17,560	2	3,633	2	2	2	2	2	2	2	2
1/4	77,303	1/4	62,275	1/4	47,326	1/4	32,285	1/4	17,247	1/4	3,366	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,990	1/2	61,963	1/2	47,013	1/2	31,972	1/2	16,935	1/2	3,099	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,677	3/4	61,652	3/4	46,699	3/4	31,659	3/4	16,626	3/4	2,837	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	76,363	3	61,341	3	46,386	3	31,345	3	16,316	3	2,575	3	3	3	3	3	3	3	3
1/4	76,050	1/4	61,030	1/4	46,073	1/4	31,032	1/4	16,007	1/4	2,312	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,737	1/2	60,719	1/2	45,759	1/2	30,718	1/2	15,697	1/2	2,050	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,423	3/4	60,408	3/4	45,446	3/4	30,405	3/4	15,391	3/4	1,811	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	75,110	4	60,097	4	45,132	4	30,092	4	15,086	4	1,572	4	4	4	4	4	4	4	4
1/4	74,797	1/4	59,786	1/4	44,819	1/4	29,778	1/4	14,780	1/4	1,333	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,483	1/2	59,475	1/2	44,506	1/2	29,465	1/2	14,475	1/2	1,094	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,170	3/4	59,164	3/4	44,192	3/4	29,152	3/4	14,173	3/4	917	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	73,856	5	58,853	5	43,879	5	28,838	5	13,871	5	740	5	5	5	5	5	5	5	5
1/4	73,543	1/4	58,542	1/4	43,566	1/4	28,525	1/4	13,569	1/4	563	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,230	1/2	58,231	1/2	43,252	1/2	28,212	1/2	13,267	1/2	386	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,916	3/4	57,920	3/4	42,939	3/4	27,898	3/4	12,970	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	72,603	6	57,609	6	42,626	6	27,585	6	12,672	6		6	6	6	6	6	6	6	6
1/4	72,290	1/4	57,298	1/4	42,312	1/4	27,272	1/4	12,374	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,976	1/2	56,987	1/2	41,999	1/2	26,958	1/2	12,076	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,663	3/4	56,676	3/4	41,686	3/4	26,645	3/4	11,782	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	71,350	7	56,365	7	41,372	7	26,332	7	11,488	7		7	7	7	7	7	7	7	7
1/4	71,036	1/4	56,054	1/4	41,059	1/4	26,018	1/4	11,194	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,723	1/2	55,744	1/2	40,746	1/2	25,705	1/2	10,900	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,410	3/4	55,433	3/4	40,432	3/4	25,392	3/4	10,609	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	70,096	8	55,122	8	40,119	8	25,078	8	10,319	8		8	8	8	8	8	8	8	8
1/4	69,783	1/4	54,811	1/4	39,806	1/4	24,765	1/4	10,029	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,469	1/2	54,500	1/2	39,492	1/2	24,452	1/2	9,739	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,156	3/4	54,189	3/4	39,179	3/4	24,138	3/4	9,452	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	68,843	9	53,878	9	38,866	9	23,825	9	9,166	9		9	9	9	9	9	9	9	9
1/4	68,529	1/4	53,567	1/4	38,552	1/4	23,511	1/4	8,880	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,216	1/2	53,256	1/2	38,239	1/2	23,198	1/2	8,593	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,903	3/4	52,944	3/4	37,925	3/4	22,885	3/4	8,311	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	67,589	10	52,633	10	37,612	10	22,571	10	8,028	10		10	10	10	10	10	10	10	10
1/4	67,276	1/4	52,322	1/4	37,299	1/4	22,258	1/4	7,746	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,963	1/2	52,011	1/2	36,985	1/2	21,945	1/2	7,463	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,649	3/4	51,699	3/4	36,672	3/4	21,631	3/4	7,185	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	66,336	11	51,387	11	36,359	11	21,318	11	6,906	11		11	11	11	11	11	11	11	11
1/4	66,023	1/4	51,076	1/4	36,045	1/4	21,005	1/4	6,627	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,709	1/2	50,764	1/2	35,732	1/2	20,691	1/2	6,349	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,396	3/4	50,452	3/4	35,419	3/4	20,378	3/4	6,074	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

1 STBD ULLAGE 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	0	0	0	0	200,169	0	185,176	0	170,166	0	155,128	0	140,090	0	125,051	0	110,013	0	94,970
1/4	1/4	1/4	1/4	1/4	199,858	1/4	184,864	1/4	169,853	1/4	154,814	1/4	139,776	1/4	124,738	1/4	109,700	1/4	94,657
1/2	1/2	1/2	1/2	1/2	199,545	1/2	184,551	1/2	169,539	1/2	154,501	1/2	139,463	1/2	124,425	1/2	109,387	1/2	94,343
3/4	3/4	3/4	3/4	3/4	199,233	3/4	184,239	3/4	169,226	3/4	154,188	3/4	139,150	3/4	124,112	3/4	109,074	3/4	94,030
1	1	1	1	1	198,921	1	183,926	1	168,913	1	153,875	1	138,836	1	123,798	1	108,760	1	93,716
1/4	1/4	1/4	1/4	1/4	198,608	1/4	183,614	1/4	168,600	1/4	153,561	1/4	138,523	1/4	123,485	1/4	108,447	1/4	93,403
1/2	1/2	1/2	1/2	1/2	198,296	1/2	183,302	1/2	168,286	1/2	153,248	1/2	138,210	1/2	123,172	1/2	108,134	1/2	93,089
3/4	3/4	3/4	3/4	3/4	197,984	3/4	182,989	3/4	167,973	3/4	152,935	3/4	137,896	3/4	122,858	3/4	107,820	3/4	92,776
2	2	2	2	2	197,671	2	182,677	2	167,660	2	152,621	2	137,583	2	122,545	2	107,507	2	92,463
1/4	1/4	1/4	1/4	1/4	211,301	1/4	197,359	1/4	182,364	1/4	167,346	1/4	152,308	1/4	137,270	1/4	122,232	1/4	92,149
1/2	1/2	1/2	1/2	1/2	211,121	1/2	197,046	1/2	182,052	1/2	167,033	1/2	151,995	1/2	136,957	1/2	121,919	1/2	91,836
3/4	3/4	3/4	3/4	3/4	210,942	3/4	196,734	3/4	181,740	3/4	166,720	3/4	151,681	3/4	136,643	3/4	121,605	3/4	91,522
3	3	3	3	3	210,762	3	196,422	3	181,427	3	166,406	3	151,368	3	136,330	3	121,292	3	91,209
1/4	1/4	1/4	1/4	1/4	210,582	1/4	196,109	1/4	181,115	1/4	166,093	1/4	151,055	1/4	136,017	1/4	120,979	1/4	90,895
1/2	1/2	1/2	1/2	1/2	210,350	1/2	195,797	1/2	180,803	1/2	165,780	1/2	150,742	1/2	135,703	1/2	120,665	1/2	90,582
3/4	3/4	3/4	3/4	3/4	210,118	3/4	195,485	3/4	180,490	3/4	165,467	3/4	150,428	3/4	135,390	3/4	120,352	3/4	90,269
4	4	4	4	4	209,886	4	195,172	4	180,178	4	165,153	4	150,115	4	135,077	4	120,039	4	89,955
1/4	1/4	1/4	1/4	1/4	209,654	1/4	194,860	1/4	179,865	1/4	164,840	1/4	149,802	1/4	134,764	1/4	119,726	1/4	89,642
1/2	1/2	1/2	1/2	1/2	209,374	1/2	194,547	1/2	179,553	1/2	164,527	1/2	149,488	1/2	134,450	1/2	119,412	1/2	89,328
3/4	3/4	3/4	3/4	3/4	209,093	3/4	194,235	3/4	179,241	3/4	164,213	3/4	149,175	3/4	134,137	3/4	119,099	3/4	89,015
5	5	5	5	5	208,813	5	193,923	5	178,928	5	163,900	5	148,862	5	133,824	5	118,786	5	88,701
1/4	1/4	1/4	1/4	1/4	208,532	1/4	193,610	1/4	178,616	1/4	163,587	1/4	148,549	1/4	133,510	1/4	118,472	1/4	88,388
1/2	1/2	1/2	1/2	1/2	208,226	1/2	193,298	1/2	178,303	1/2	163,273	1/2	148,235	1/2	133,197	1/2	118,159	1/2	88,075
3/4	3/4	3/4	3/4	3/4	207,920	3/4	192,985	3/4	177,991	3/4	162,960	3/4	147,922	3/4	132,884	3/4	117,846	3/4	87,761
6	6	6	6	6	207,614	6	192,673	6	177,679	6	162,647	6	147,609	6	132,570	6	117,532	6	87,448
1/4	1/4	1/4	1/4	1/4	207,307	1/4	192,361	1/4	177,366	1/4	162,334	1/4	147,295	1/4	132,257	1/4	117,219	1/4	87,134
1/2	1/2	1/2	1/2	1/2	206,998	1/2	192,048	1/2	177,054	1/2	162,020	1/2	146,982	1/2	131,944	1/2	116,906	1/2	86,821
3/4	3/4	3/4	3/4	3/4	206,688	3/4	191,736	3/4	176,742	3/4	161,707	3/4	146,669	3/4	131,631	3/4	116,593	3/4	86,507
7	7	7	7	7	206,378	7	191,424	7	176,429	7	161,394	7	146,355	7	131,317	7	116,279	7	86,194
1/4	1/4	1/4	1/4	1/4	206,068	1/4	191,111	1/4	176,117	1/4	161,080	1/4	146,042	1/4	131,004	1/4	115,966	1/4	85,881
1/2	1/2	1/2	1/2	1/2	205,758	1/2	190,799	1/2	175,804	1/2	160,767	1/2	145,729	1/2	130,691	1/2	115,653	1/2	85,567
3/4	3/4	3/4	3/4	3/4	205,447	3/4	190,486	3/4	175,491	3/4	160,454	3/4	145,416	3/4	130,377	3/4	115,339	3/4	85,254
8	8	8	8	8	205,137	8	190,174	8	175,178	8	160,140	8	145,102	8	130,064	8	115,026	8	84,940
1/4	1/4	1/4	1/4	1/4	204,827	1/4	189,862	1/4	174,865	1/4	159,827	1/4	144,789	1/4	129,751	1/4	114,713	1/4	84,627
1/2	1/2	1/2	1/2	1/2	204,516	1/2	189,549	1/2	174,552	1/2	159,514	1/2	144,476	1/2	129,438	1/2	114,400	1/2	84,313
3/4	3/4	3/4	3/4	3/4	204,206	3/4	189,237	3/4	174,239	3/4	159,201	3/4	144,162	3/4	129,124	3/4	114,086	3/4	84,000
9	9	9	9	9	203,896	9	188,924	9	173,926	9	158,887	9	143,849	9	128,811	9	113,773	9	83,687
1/4	1/4	1/4	1/4	1/4	203,585	1/4	188,612	1/4	173,612	1/4	158,574	1/4	143,536	1/4	128,498	1/4	113,460	1/4	83,373
1/2	1/2	1/2	1/2	1/2	203,275	1/2	188,300	1/2	173,299	1/2	158,261	1/2	143,222	1/2	128,184	1/2	113,146	1/2	83,060
3/4	3/4	3/4	3/4	3/4	202,965	3/4	187,987	3/4	172,986	3/4	157,947	3/4	142,909	3/4	127,871	3/4	112,833	3/4	82,746
10	10	10	10	10	202,654	10	187,675	10	172,672	10	157,634	10	142,596	10	127,558	10	112,520	10	82,433
1/4	1/4	1/4	1/4	1/4	202,344	1/4	187,363	1/4	172,359	1/4	157,321	1/4	142,283	1/4	127,245	1/4	112,207	1/4	82,119
1/2	1/2	1/2	1/2	1/2	202,034	1/2	187,050	1/2	172,046	1/2	157,008	1/2	141,969	1/2	126,931	1/2	111,893	1/2	81,806
3/4	3/4	3/4	3/4	3/4	201,724	3/4	186,738	3/4	171,732	3/4	156,694	3/4	141,656	3/4	126,618	3/4	111,580	3/4	81,493
11	11	11	11	11	201,413	11	186,425	11	171,419	11	156,381	11	141,343	11	126,305	11	111,267	11	81,179
1/4	1/4	1/4	1/4	1/4	201,103	1/4	186,113	1/4	171,106	1/4	156,068	1/4	141,029	1/4	125,991	1/4	110,953	1/4	80,866
1/2	1/2	1/2	1/2	1/2	200,792	1/2	185,801	1/2	170,793	1/2	155,754	1/2	140,716	1/2	125,678	1/2	110,640	1/2	80,552
3/4	3/4	3/4	3/4	3/4	200,480	3/4	185,488	3/4	170,479	3/4	155,441	3/4	140,403	3/4	125,365	3/4	110,327	3/4	80,239

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE OR 8" HATCH

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3021"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	79,612	1/4	64,568	1/4	49,530	1/4	34,486	1/4	19,442	1/4	5,251	1/4		1/4		1/4		1/4			
1/2	79,299	1/2	64,254	1/2	49,217	1/2	34,173	1/2	19,129	1/2	4,980	1/2		1/2		1/2		1/2			
3/4	78,985	3/4	63,941	3/4	48,904	3/4	33,860	3/4	18,816	3/4	4,709	3/4		3/4		3/4		3/4			
1	78,672	1	63,627	1	48,590	1	33,546	1	18,502	1	4,438	1		1		1		1			
1/4	78,358	1/4	63,314	1/4	48,277	1/4	33,233	1/4	18,189	1/4	4,167	1/4		1/4		1/4		1/4			
1/2	78,045	1/2	63,000	1/2	47,963	1/2	32,919	1/2	17,876	1/2	3,900	1/2		1/2		1/2		1/2			
3/4	77,731	3/4	62,687	3/4	47,650	3/4	32,606	3/4	17,564	3/4	3,634	3/4		3/4		3/4		3/4			
2	77,418	2	62,374	2	47,337	2	32,293	2	17,251	2	3,367	2		2		2		2			
1/4	77,105	1/4	62,060	1/4	47,023	1/4	31,979	1/4	16,939	1/4	3,100	1/4		1/4		1/4		1/4			
1/2	76,791	1/2	61,747	1/2	46,710	1/2	31,666	1/2	16,629	1/2	2,837	1/2		1/2		1/2		1/2			
3/4	76,478	3/4	61,434	3/4	46,396	3/4	31,352	3/4	16,320	3/4	2,575	3/4		3/4		3/4		3/4			
3	76,164	3	61,121	3	46,083	3	31,039	3	16,010	3	2,313	3		3		3		3			
1/4	75,851	1/4	60,807	1/4	45,769	1/4	30,725	1/4	15,701	1/4	2,051	1/4		1/4		1/4		1/4			
1/2	75,537	1/2	60,494	1/2	45,456	1/2	30,412	1/2	15,395	1/2	1,812	1/2		1/2		1/2		1/2			
3/4	75,224	3/4	60,181	3/4	45,143	3/4	30,099	3/4	15,089	3/4	1,573	3/4		3/4		3/4		3/4			
4	74,911	4	59,868	4	44,829	4	29,785	4	14,784	4	1,334	4		4		4		4			
1/4	74,597	1/4	59,555	1/4	44,516	1/4	29,472	1/4	14,478	1/4	1,095	1/4		1/4		1/4		1/4			
1/2	74,284	1/2	59,241	1/2	44,202	1/2	29,158	1/2	14,176	1/2	917	1/2		1/2		1/2		1/2			
3/4	73,970	3/4	58,928	3/4	43,889	3/4	28,845	3/4	13,874	3/4	740	3/4		3/4		3/4		3/4			
5	73,657	5	58,615	5	43,576	5	28,532	5	13,572	5	563	5		5		5		5			
1/4	73,343	1/4	58,302	1/4	43,262	1/4	28,218	1/4	13,271	1/4	386	1/4		1/4		1/4		1/4			
1/2	73,030	1/2	57,989	1/2	42,949	1/2	27,905	1/2	12,973	1/2		1/2		1/2		1/2		1/2			
3/4	72,717	3/4	57,675	3/4	42,635	3/4	27,591	3/4	12,675	3/4		3/4		3/4		3/4		3/4			
6	72,403	6	57,362	6	42,322	6	27,278	6	12,377	6		6		6		6		6			
1/4	72,090	1/4	57,049	1/4	42,008	1/4	26,964	1/4	12,079	1/4		1/4		1/4		1/4		1/4			
1/2	71,776	1/2	56,736	1/2	41,695	1/2	26,651	1/2	11,784	1/2		1/2		1/2		1/2		1/2			
3/4	71,463	3/4	56,423	3/4	41,382	3/4	26,338	3/4	11,490	3/4		3/4		3/4		3/4		3/4			
7	71,149	7	56,109	7	41,068	7	26,024	7	11,196	7		7		7		7		7			
1/4	70,836	1/4	55,796	1/4	40,755	1/4	25,711	1/4	10,902	1/4		1/4		1/4		1/4		1/4			
1/2	70,523	1/2	55,483	1/2	40,441	1/2	25,397	1/2	10,612	1/2		1/2		1/2		1/2		1/2			
3/4	70,209	3/4	55,170	3/4	40,128	3/4	25,084	3/4	10,322	3/4		3/4		3/4		3/4		3/4			
8	69,896	8	54,857	8	39,815	8	24,770	8	10,031	8		8		8		8		8			
1/4	69,582	1/4	54,543	1/4	39,501	1/4	24,457	1/4	9,741	1/4		1/4		1/4		1/4		1/4			
1/2	69,269	1/2	54,230	1/2	39,188	1/2	24,144	1/2	9,455	1/2		1/2		1/2		1/2		1/2			
3/4	68,956	3/4	53,917	3/4	38,874	3/4	23,830	3/4	9,168	3/4		3/4		3/4		3/4		3/4			
9	68,642	9	53,604	9	38,561	9	23,517	9	8,882	9		9		9		9		9			
1/4	68,329	1/4	53,291	1/4	38,247	1/4	23,203	1/4	8,595	1/4		1/4		1/4		1/4		1/4			
1/2	68,015	1/2	52,977	1/2	37,934	1/2	22,890	1/2	8,313	1/2		1/2		1/2		1/2		1/2			
3/4	67,702	3/4	52,664	3/4	37,621	3/4	22,577	3/4	8,030	3/4		3/4		3/4		3/4		3/4			
10	67,388	10	52,351	10	37,307	10	22,263	10	7,748	10		10		10		10		10			
1/4	67,075	1/4	52,038	1/4	36,994	1/4	21,950	1/4	7,465	1/4		1/4		1/4		1/4		1/4			
1/2	66,762	1/2	51,724	1/2	36,680	1/2	21,636	1/2	7,186	1/2		1/2		1/2		1/2		1/2			
3/4	66,448	3/4	51,411	3/4	36,367	3/4	21,323	3/4	6,908	3/4		3/4		3/4		3/4		3/4			
11	66,135	11	51,098	11	36,054	11	21,009	11	6,629	11		11		11		11		11			
1/4	65,821	1/4	50,784	1/4	35,740	1/4	20,696	1/4	6,350	1/4		1/4		1/4		1/4		1/4			
1/2	65,508	1/2	50,471	1/2	35,427	1/2	20,383	1/2	6,076	1/2		1/2		1/2		1/2		1/2			
3/4	65,194	3/4	50,157	3/4	35,113	3/4	20,069	3/4	5,801	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	201,648	0	186,627	0	171,587	0	156,516	0	141,444	0	126,372	0	111,300	0	96,221
1/4		1/4		1/4	201,335	1/4	186,314	1/4	171,273	1/4	156,202	1/4	141,130	1/4	126,058	1/4	110,986	1/4	95,907
1/2		1/2		1/2	201,022	1/2	186,002	1/2	170,959	1/2	155,888	1/2	140,816	1/2	125,744	1/2	110,672	1/2	95,593
3/4		3/4		3/4	200,709	3/4	185,689	3/4	170,645	3/4	155,574	3/4	140,502	3/4	125,430	3/4	110,358	3/4	95,279
1	1	1	1	1	200,396	1	185,376	1	170,331	1	155,260	1	140,188	1	125,116	1	110,044	1	94,965
1/4		1/4		1/4	200,083	1/4	185,063	1/4	170,017	1/4	154,946	1/4	139,874	1/4	124,802	1/4	109,730	1/4	94,651
1/2		1/2		1/2	199,771	1/2	184,750	1/2	169,703	1/2	154,632	1/2	139,560	1/2	124,488	1/2	109,416	1/2	94,337
3/4		3/4		3/4	199,458	3/4	184,437	3/4	169,390	3/4	154,318	3/4	139,246	3/4	124,174	3/4	109,102	3/4	94,022
2	2	2	2	2	213,075	2	199,145	2	184,124	2	169,076	2	154,004	2	138,932	2	123,860	2	108,788
1/4		1/4		1/4	212,896	1/4	198,832	1/4	183,811	1/4	168,762	1/4	153,690	1/4	138,618	1/4	123,546	1/4	93,708
1/2		1/2		1/2	212,717	1/2	198,519	1/2	183,498	1/2	168,448	1/2	153,376	1/2	138,304	1/2	123,232	1/2	93,394
3/4		3/4		3/4	212,538	3/4	198,206	3/4	183,185	3/4	168,134	3/4	153,062	3/4	137,990	3/4	122,918	3/4	93,080
3	3	3	3	3	212,359	3	197,893	3	182,872	3	167,820	3	152,748	3	137,676	3	122,604	3	92,766
1/4		1/4		1/4	212,128	1/4	197,580	1/4	182,559	1/4	167,506	1/4	152,434	1/4	137,362	1/4	122,290	1/4	92,452
1/2		1/2		1/2	211,896	1/2	197,267	1/2	182,246	1/2	167,192	1/2	152,120	1/2	137,048	1/2	121,976	1/2	92,137
3/4		3/4		3/4	211,665	3/4	196,954	3/4	181,933	3/4	166,878	3/4	151,806	3/4	136,734	3/4	121,662	3/4	91,823
4	4	4	4	4	211,433	4	196,641	4	181,620	4	166,564	4	151,492	4	136,420	4	121,348	4	91,509
1/4		1/4		1/4	211,153	1/4	196,328	1/4	181,308	1/4	166,250	1/4	151,178	1/4	136,106	1/4	121,034	1/4	91,195
1/2		1/2		1/2	210,873	1/2	196,015	1/2	180,995	1/2	165,936	1/2	150,864	1/2	135,792	1/2	120,720	1/2	90,881
3/4		3/4		3/4	210,593	3/4	195,702	3/4	180,682	3/4	165,622	3/4	150,550	3/4	135,478	3/4	120,406	3/4	90,567
5	5	5	5	5	210,313	5	195,389	5	180,369	5	165,308	5	150,236	5	135,164	5	120,092	5	90,253
1/4		1/4		1/4	210,007	1/4	195,077	1/4	180,056	1/4	164,994	1/4	149,922	1/4	134,850	1/4	119,778	1/4	89,938
1/2		1/2		1/2	209,702	1/2	194,764	1/2	179,743	1/2	164,680	1/2	149,608	1/2	134,536	1/2	119,464	1/2	89,624
3/4		3/4		3/4	209,396	3/4	194,451	3/4	179,430	3/4	164,366	3/4	149,294	3/4	134,222	3/4	119,150	3/4	89,310
6	6	6	6	6	209,090	6	194,138	6	179,117	6	164,052	6	148,980	6	133,908	6	118,836	6	88,996
1/4		1/4		1/4	208,781	1/4	193,825	1/4	178,804	1/4	163,738	1/4	148,666	1/4	133,594	1/4	118,522	1/4	88,682
1/2		1/2		1/2	208,471	1/2	193,512	1/2	178,491	1/2	163,424	1/2	148,352	1/2	133,280	1/2	118,208	1/2	88,368
3/4		3/4		3/4	208,162	3/4	193,199	3/4	178,178	3/4	163,110	3/4	148,038	3/4	132,966	3/4	117,894	3/4	88,053
7	7	7	7	7	207,852	7	192,886	7	177,865	7	162,796	7	147,724	7	132,652	7	117,580	7	87,739
1/4		1/4		1/4	207,542	1/4	192,573	1/4	177,552	1/4	162,482	1/4	147,410	1/4	132,338	1/4	117,266	1/4	87,425
1/2		1/2		1/2	207,232	1/2	192,260	1/2	177,238	1/2	162,168	1/2	147,096	1/2	132,024	1/2	116,952	1/2	87,111
3/4		3/4		3/4	206,922	3/4	191,947	3/4	176,925	3/4	161,854	3/4	146,782	3/4	131,710	3/4	116,638	3/4	86,797
8	8	8	8	8	206,613	8	191,634	8	176,611	8	161,540	8	146,468	8	131,396	8	116,324	8	86,483
1/4		1/4		1/4	206,303	1/4	191,321	1/4	176,297	1/4	161,226	1/4	146,154	1/4	131,082	1/4	116,010	1/4	86,169
1/2		1/2		1/2	205,993	1/2	191,008	1/2	175,983	1/2	160,912	1/2	145,840	1/2	130,768	1/2	115,696	1/2	85,854
3/4		3/4		3/4	205,683	3/4	190,696	3/4	175,669	3/4	160,598	3/4	145,526	3/4	130,454	3/4	115,382	3/4	85,540
9	9	9	9	9	205,373	9	190,383	9	175,355	9	160,284	9	145,212	9	130,140	9	115,068	9	85,226
1/4		1/4		1/4	205,063	1/4	190,070	1/4	175,041	1/4	159,970	1/4	144,898	1/4	129,826	1/4	114,754	1/4	84,912
1/2		1/2		1/2	204,753	1/2	189,757	1/2	174,727	1/2	159,656	1/2	144,584	1/2	129,512	1/2	114,440	1/2	84,598
3/4		3/4		3/4	204,443	3/4	189,444	3/4	174,413	3/4	159,342	3/4	144,270	3/4	129,198	3/4	114,126	3/4	84,284
10	10	10	10	10	204,133	10	189,131	10	174,099	10	159,028	10	143,956	10	128,884	10	113,812	10	83,969
1/4		1/4		1/4	203,823	1/4	188,818	1/4	173,785	1/4	158,714	1/4	143,642	1/4	128,570	1/4	113,498	1/4	83,655
1/2		1/2		1/2	203,513	1/2	188,505	1/2	173,471	1/2	158,400	1/2	143,328	1/2	128,256	1/2	113,184	1/2	83,341
3/4		3/4		3/4	203,203	3/4	188,192	3/4	173,157	3/4	158,086	3/4	143,014	3/4	127,942	3/4	112,870	3/4	83,027
11	11	11	11	11	202,894	11	187,879	11	172,843	11	157,772	11	142,700	11	127,628	11	112,556	11	82,713
1/4		1/4		1/4	202,582	1/4	187,566	1/4	172,529	1/4	157,458	1/4	142,386	1/4	127,314	1/4	112,242	1/4	82,399
1/2		1/2		1/2	202,271	1/2	187,253	1/2	172,215	1/2	157,144	1/2	142,072	1/2	127,000	1/2	111,928	1/2	82,084
3/4		3/4		3/4	201,960	3/4	186,940	3/4	171,901	3/4	156,830	3/4	141,758	3/4	126,686	3/4	111,614	3/4	81,770

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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





BARGE "HSM 3021"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	81,142	0	66,063	0	51,525	0	37,047	0	21,993	0	6,914	0		0		0		0	
1/4	80,828	1/4	65,754	1/4	51,223	1/4	36,738	1/4	21,679	1/4	6,600	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,514	1/2	65,446	1/2	50,921	1/2	36,430	1/2	21,365	1/2	6,286	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,200	3/4	65,138	3/4	50,619	3/4	36,122	3/4	21,051	3/4	5,972	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	79,885	1	64,830	1	50,317	1	35,813	1	20,737	1	5,658	1	1	1	1	1	1	1	1
1/4	79,571	1/4	64,527	1/4	50,015	1/4	35,499	1/4	20,423	1/4	5,344	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,257	1/2	64,225	1/2	49,713	1/2	35,185	1/2	20,109	1/2	5,030	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,943	3/4	63,922	3/4	49,412	3/4	34,871	3/4	19,794	3/4	4,716	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	78,629	2	63,620	2	49,110	2	34,557	2	19,480	2	4,402	2	2	2	2	2	2	2	2
1/4	78,315	1/4	63,318	1/4	48,809	1/4	34,243	1/4	19,166	1/4	4,089	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,000	1/2	63,015	1/2	48,507	1/2	33,929	1/2	18,852	1/2	3,776	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,686	3/4	62,713	3/4	48,205	3/4	33,614	3/4	18,538	3/4	3,463	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	77,372	3	62,411	3	47,904	3	33,300	3	18,224	3	3,150	3	3	3	3	3	3	3	3
1/4	77,058	1/4	62,108	1/4	47,602	1/4	32,986	1/4	17,909	1/4	2,856	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,744	1/2	61,806	1/2	47,301	1/2	32,672	1/2	17,595	1/2	2,562	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,430	3/4	61,503	3/4	47,000	3/4	32,358	3/4	17,281	3/4	2,269	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	76,116	4	61,201	4	46,698	4	32,044	4	16,967	4	1,975	4	4	4	4	4	4	4	4
1/4	75,801	1/4	60,899	1/4	46,397	1/4	31,730	1/4	16,653	1/4	1,739	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,487	1/2	60,596	1/2	46,095	1/2	31,415	1/2	16,339	1/2	1,504	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,173	3/4	60,294	3/4	45,794	3/4	31,101	3/4	16,025	3/4	1,268	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	74,859	5	59,991	5	45,492	5	30,787	5	15,710	5	1,033	5	5	5	5	5	5	5	5
1/4	74,545	1/4	59,689	1/4	45,191	1/4	30,473	1/4	15,396	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,231	1/2	59,387	1/2	44,890	1/2	30,159	1/2	15,082	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,916	3/4	59,084	3/4	44,588	3/4	29,845	3/4	14,768	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	73,602	6	58,782	6	44,287	6	29,531	6	14,454	6	6	6	6	6	6	6	6	6	6
1/4	73,288	1/4	58,480	1/4	43,985	1/4	29,217	1/4	14,140	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,974	1/2	58,177	1/2	43,684	1/2	28,903	1/2	13,826	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,660	3/4	57,875	3/4	43,382	3/4	28,589	3/4	13,511	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	72,346	7	57,572	7	43,081	7	28,275	7	13,197	7	7	7	7	7	7	7	7	7	7
1/4	72,032	1/4	57,270	1/4	42,779	1/4	27,961	1/4	12,883	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,717	1/2	56,968	1/2	42,478	1/2	27,647	1/2	12,569	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,403	3/4	56,665	3/4	42,177	3/4	27,333	3/4	12,255	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	71,089	8	56,363	8	41,875	8	27,019	8	11,941	8	8	8	8	8	8	8	8	8	8
1/4	70,775	1/4	56,061	1/4	41,574	1/4	26,705	1/4	11,627	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,461	1/2	55,758	1/2	41,272	1/2	26,391	1/2	11,312	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,147	3/4	55,456	3/4	40,971	3/4	26,077	3/4	10,998	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	69,832	9	55,153	9	40,669	9	25,763	9	10,684	9	9	9	9	9	9	9	9	9	9
1/4	69,518	1/4	54,851	1/4	40,368	1/4	25,449	1/4	10,370	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,204	1/2	54,549	1/2	40,066	1/2	25,135	1/2	10,056	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,890	3/4	54,246	3/4	39,765	3/4	24,821	3/4	9,742	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	68,576	10	53,944	10	39,464	10	24,507	10	9,428	10	10	10	10	10	10	10	10	10	10
1/4	68,262	1/4	53,642	1/4	39,162	1/4	24,192	1/4	9,113	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,948	1/2	53,339	1/2	38,860	1/2	23,878	1/2	8,799	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,633	3/4	53,037	3/4	38,558	3/4	23,564	3/4	8,485	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	67,319	11	52,734	11	38,256	11	23,250	11	8,171	11	11	11	11	11	11	11	11	11	11
1/4	67,005	1/4	52,432	1/4	37,954	1/4	22,936	1/4	7,857	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,691	1/2	52,130	1/2	37,651	1/2	22,622	1/2	7,543	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,377	3/4	51,827	3/4	37,349	3/4	22,308	3/4	7,229	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3021"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,618	0	67,533	0	52,448	0	37,399	0	22,316	0	7,232	0		0		0		0	
1/4	82,304	1/4	67,219	1/4	52,134	1/4	37,085	1/4	22,002	1/4	6,917	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,990	1/2	66,905	1/2	51,820	1/2	36,770	1/2	21,688	1/2	6,603	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,676	3/4	66,591	3/4	51,506	3/4	36,456	3/4	21,374	3/4	6,289	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	81,361	1	66,276	1	51,192	1	36,142	1	21,059	1	5,975	1	1	1	1	1	1	1	1
1/4	81,047	1/4	65,962	1/4	50,879	1/4	35,828	1/4	20,745	1/4	5,660	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,733	1/2	65,648	1/2	50,565	1/2	35,513	1/2	20,431	1/2	5,346	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,418	3/4	65,334	3/4	50,251	3/4	35,199	3/4	20,117	3/4	5,032	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	80,104	2	65,019	2	49,938	2	34,885	2	19,802	2	4,718	2	2	2	2	2	2	2	2
1/4	79,790	1/4	64,705	1/4	49,624	1/4	34,571	1/4	19,488	1/4	4,404	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,476	1/2	64,391	1/2	49,311	1/2	34,256	1/2	19,174	1/2	4,091	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,161	3/4	64,076	3/4	48,997	3/4	33,942	3/4	18,859	3/4	3,778	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	78,847	3	63,762	3	48,684	3	33,628	3	18,545	3	3,464	3	3	3	3	3	3	3	3
1/4	78,533	1/4	63,448	1/4	48,370	1/4	33,313	1/4	18,231	1/4	3,151	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,219	1/2	63,134	1/2	48,057	1/2	32,999	1/2	17,917	1/2	2,857	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,904	3/4	62,819	3/4	47,744	3/4	32,685	3/4	17,602	3/4	2,563	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	77,590	4	62,505	4	47,430	4	32,371	4	17,288	4	2,270	4	4	4	4	4	4	4	4
1/4	77,276	1/4	62,191	1/4	47,117	1/4	32,056	1/4	16,974	1/4	1,976	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,961	1/2	61,877	1/2	46,804	1/2	31,742	1/2	16,660	1/2	1,740	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,647	3/4	61,562	3/4	46,490	3/4	31,428	3/4	16,345	3/4	1,504	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	76,333	5	61,248	5	46,177	5	31,114	5	16,031	5	1,269	5	5	5	5	5	5	5	5
1/4	76,019	1/4	60,934	1/4	45,864	1/4	30,799	1/4	15,717	1/4	1,033	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,704	1/2	60,619	1/2	45,550	1/2	30,485	1/2	15,402	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,390	3/4	60,305	3/4	45,237	3/4	30,171	3/4	15,088	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	75,076	6	59,991	6	44,924	6	29,857	6	14,774	6	6	6	6	6	6	6	6	6	6
1/4	74,762	1/4	59,677	1/4	44,610	1/4	29,543	1/4	14,460	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,447	1/2	59,362	1/2	44,297	1/2	29,228	1/2	14,145	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,133	3/4	59,048	3/4	43,984	3/4	28,914	3/4	13,831	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	73,819	7	58,734	7	43,670	7	28,600	7	13,517	7	7	7	7	7	7	7	7	7	7
1/4	73,505	1/4	58,420	1/4	43,357	1/4	28,286	1/4	13,203	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,190	1/2	58,105	1/2	43,044	1/2	27,972	1/2	12,888	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,876	3/4	57,791	3/4	42,730	3/4	27,658	3/4	12,574	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	72,562	8	57,477	8	42,417	8	27,344	8	12,260	8	8	8	8	8	8	8	8	8	8
1/4	72,247	1/4	57,163	1/4	42,104	1/4	27,030	1/4	11,946	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,933	1/2	56,848	1/2	41,790	1/2	26,716	1/2	11,631	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,619	3/4	56,534	3/4	41,477	3/4	26,402	3/4	11,317	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	71,305	9	56,220	9	41,164	9	26,088	9	11,003	9	9	9	9	9	9	9	9	9	9
1/4	70,990	1/4	55,905	1/4	40,850	1/4	25,773	1/4	10,688	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,676	1/2	55,591	1/2	40,537	1/2	25,459	1/2	10,374	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,362	3/4	55,277	3/4	40,224	3/4	25,145	3/4	10,060	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	70,048	10	54,963	10	39,910	10	24,831	10	9,746	10	10	10	10	10	10	10	10	10	10
1/4	69,733	1/4	54,648	1/4	39,597	1/4	24,516	1/4	9,431	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,419	1/2	54,334	1/2	39,283	1/2	24,202	1/2	9,117	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,105	3/4	54,020	3/4	38,969	3/4	23,888	3/4	8,803	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	68,790	11	53,706	11	38,656	11	23,573	11	8,489	11	11	11	11	11	11	11	11	11	11
1/4	68,476	1/4	53,391	1/4	38,342	1/4	23,259	1/4	8,174	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,162	1/2	53,077	1/2	38,028	1/2	22,945	1/2	7,860	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,848	3/4	52,763	3/4	37,713	3/4	22,631	3/4	7,546	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

3 PORT ULLAGE 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	0	0	184,523	0	174,191	0	163,846	0	153,477	0	141,601	0	126,635	0	111,669	0	96,689		
1/4	1/4	1/4	184,308	1/4	173,975	1/4	163,630	1/4	153,261	1/4	141,289	1/4	126,323	1/4	111,357	1/4	96,377		
1/2	1/2	1/2	184,093	1/2	173,760	1/2	163,414	1/2	153,045	1/2	140,978	1/2	126,011	1/2	111,045	1/2	96,065		
3/4	3/4	3/4	183,877	3/4	173,545	3/4	163,198	3/4	152,829	3/4	140,666	3/4	125,700	3/4	110,733	3/4	95,753		
1	1	1	183,662	1	173,330	1	162,982	1	152,613	1	140,354	1	125,388	1	110,421	1	95,441		
1/4	1/4	1/4	183,447	1/4	173,114	1/4	162,766	1/4	152,397	1/4	140,042	1/4	125,076	1/4	110,110	1/4	95,129		
1/2	1/2	1/2	183,232	1/2	172,899	1/2	162,550	1/2	152,181	1/2	139,731	1/2	124,764	1/2	109,798	1/2	94,817		
3/4	3/4	3/4	183,016	3/4	172,684	3/4	162,334	3/4	151,965	3/4	139,419	3/4	124,452	3/4	109,486	3/4	94,505		
2	2	2	182,801	2	172,468	2	162,118	2	151,749	2	139,107	2	124,141	2	109,174	2	94,193		
1/4	1/4	1/4	182,586	1/4	172,253	1/4	161,902	1/4	151,533	1/4	138,795	1/4	123,829	1/4	108,862	1/4	93,881		
1/2	1/2	1/2	192,011	1/2	182,370	1/2	172,038	1/2	161,686	1/2	151,317	1/2	138,483	1/2	123,517	1/2	108,550	1/2	93,569
3/4	3/4	3/4	191,887	3/4	182,155	3/4	171,823	3/4	161,470	3/4	151,101	3/4	138,172	3/4	123,205	3/4	108,238	3/4	93,257
3	3	3	191,764	3	181,940	3	171,607	3	161,254	3	150,885	3	137,860	3	122,893	3	107,927	3	92,945
1/4	1/4	1/4	191,640	1/4	181,725	1/4	171,392	1/4	161,038	1/4	150,668	1/4	137,548	1/4	122,582	1/4	107,615	1/4	92,633
1/2	1/2	1/2	191,516	1/2	181,509	1/2	171,177	1/2	160,822	1/2	150,452	1/2	137,236	1/2	122,270	1/2	107,303	1/2	92,321
3/4	3/4	3/4	191,357	3/4	181,294	3/4	170,962	3/4	160,605	3/4	150,236	3/4	136,924	3/4	121,958	3/4	106,991	3/4	92,009
4	4	4	191,197	4	181,079	4	170,746	4	160,389	4	150,020	4	136,613	4	121,646	4	106,679	4	91,697
1/4	1/4	1/4	191,037	1/4	180,864	1/4	170,531	1/4	160,173	1/4	149,804	1/4	136,301	1/4	121,334	1/4	106,366	1/4	91,386
1/2	1/2	1/2	190,878	1/2	180,648	1/2	170,316	1/2	159,957	1/2	149,588	1/2	135,989	1/2	121,023	1/2	106,054	1/2	91,074
3/4	3/4	3/4	190,685	3/4	180,433	3/4	170,101	3/4	159,741	3/4	149,369	3/4	135,677	3/4	120,711	3/4	105,742	3/4	90,762
5	5	5	190,492	5	180,218	5	169,885	5	159,525	5	149,149	5	135,365	5	120,399	5	105,430	5	90,450
1/4	1/4	1/4	190,298	1/4	180,003	1/4	169,670	1/4	159,309	1/4	148,930	1/4	135,054	1/4	120,087	1/4	105,118	1/4	90,138
1/2	1/2	1/2	190,105	1/2	179,787	1/2	169,455	1/2	159,093	1/2	148,710	1/2	134,742	1/2	119,775	1/2	104,806	1/2	89,826
3/4	3/4	3/4	189,894	3/4	179,572	3/4	169,240	3/4	158,877	3/4	148,479	3/4	134,430	3/4	119,464	3/4	104,493	3/4	89,514
6	6	6	189,682	6	179,357	6	169,024	6	158,661	6	148,248	6	134,118	6	119,152	6	104,181	6	89,202
1/4	1/4	1/4	189,470	1/4	179,142	1/4	168,809	1/4	158,445	1/4	148,017	1/4	133,806	1/4	118,840	1/4	103,869	1/4	88,890
1/2	1/2	1/2	189,259	1/2	178,926	1/2	168,594	1/2	158,229	1/2	147,786	1/2	133,495	1/2	118,528	1/2	103,557	1/2	88,578
3/4	3/4	3/4	189,044	3/4	178,711	3/4	168,378	3/4	158,013	3/4	147,539	3/4	133,183	3/4	118,216	3/4	103,244	3/4	88,266
7	7	7	188,829	7	178,496	7	168,163	7	157,797	7	147,291	7	132,871	7	117,905	7	102,932	7	87,954
1/4	1/4	1/4	188,614	1/4	178,281	1/4	167,948	1/4	157,581	1/4	147,044	1/4	132,559	1/4	117,593	1/4	102,620	1/4	87,641
1/2	1/2	1/2	188,399	1/2	178,065	1/2	167,733	1/2	157,365	1/2	146,797	1/2	132,247	1/2	117,281	1/2	102,308	1/2	87,329
3/4	3/4	3/4	188,183	3/4	177,850	3/4	167,517	3/4	157,149	3/4	146,534	3/4	131,936	3/4	116,969	3/4	101,996	3/4	87,017
8	8	8	187,968	8	177,635	8	167,301	8	156,933	8	146,271	8	131,624	8	116,657	8	101,683	8	86,705
1/4	1/4	1/4	187,753	1/4	177,419	1/4	167,086	1/4	156,717	1/4	146,008	1/4	131,312	1/4	116,346	1/4	101,371	1/4	86,393
1/2	1/2	1/2	187,537	1/2	177,204	1/2	166,870	1/2	156,501	1/2	145,745	1/2	131,000	1/2	116,034	1/2	101,059	1/2	86,080
3/4	3/4	3/4	187,322	3/4	176,989	3/4	166,654	3/4	156,285	3/4	145,466	3/4	130,688	3/4	115,722	3/4	100,747	3/4	85,768
9	9	9	187,107	9	176,774	9	166,438	9	156,069	9	145,188	9	130,377	9	115,410	9	100,435	9	85,456
1/4	1/4	1/4	186,891	1/4	176,558	1/4	166,222	1/4	155,853	1/4	144,909	1/4	130,065	1/4	115,098	1/4	100,122	1/4	85,143
1/2	1/2	1/2	186,676	1/2	176,343	1/2	166,006	1/2	155,637	1/2	144,631	1/2	129,753	1/2	114,787	1/2	99,810	1/2	84,831
3/4	3/4	3/4	186,461	3/4	176,128	3/4	165,790	3/4	155,421	3/4	144,336	3/4	129,441	3/4	114,475	3/4	99,498	3/4	84,519
10	10	10	186,245	10	175,913	10	165,574	10	155,205	10	144,041	10	129,129	10	114,163	10	99,186	10	84,207
1/4	1/4	1/4	186,030	1/4	175,697	1/4	165,358	1/4	154,989	1/4	143,746	1/4	128,818	1/4	113,851	1/4	98,873	1/4	83,894
1/2	1/2	1/2	185,815	1/2	175,482	1/2	165,142	1/2	154,773	1/2	143,452	1/2	128,506	1/2	113,539	1/2	98,561	1/2	83,582
3/4	3/4	3/4	185,599	3/4	175,267	3/4	164,926	3/4	154,557	3/4	143,145	3/4	128,194	3/4	113,228	3/4	98,249	3/4	83,270
11	11	11	185,384	11	175,052	11	164,710	11	154,341	11	142,838	11	127,882	11	112,916	11	97,937	11	82,957
1/4	1/4	1/4	185,169	1/4	174,836	1/4	164,494	1/4	154,125	1/4	142,531	1/4	127,570	1/4	112,604	1/4	97,625	1/4	82,645
1/2	1/2	1/2	184,954	1/2	174,621	1/2	164,278	1/2	153,909	1/2	142,224	1/2	127,259	1/2	112,292	1/2	97,313	1/2	82,333
3/4	3/4	3/4	184,738	3/4	174,406	3/4	164,062	3/4	153,693	3/4	141,912	3/4	126,947	3/4	111,980	3/4	97,001	3/4	82,021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3021"

3 PORT ULLAGE 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	81,708	0	66,790	0	52,037	0	37,464	0	22,507	0	7,509	0		0		0		0	
1/4	81,396	1/4	66,479	1/4	51,735	1/4	37,159	1/4	22,194	1/4	7,197	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,084	1/2	66,169	1/2	51,432	1/2	36,854	1/2	21,882	1/2	6,884	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,771	3/4	65,859	3/4	51,130	3/4	36,545	3/4	21,570	3/4	6,572	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	80,459	1	65,548	1	50,827	1	36,237	1	21,257	1	6,259	1	1	1	1	1	1	1	1
1/4	80,147	1/4	65,238	1/4	50,525	1/4	35,929	1/4	20,945	1/4	5,946	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,835	1/2	64,928	1/2	50,222	1/2	35,621	1/2	20,633	1/2	5,634	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,522	3/4	64,617	3/4	49,920	3/4	35,309	3/4	20,320	3/4	5,321	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	79,210	2	64,307	2	49,617	2	34,997	2	20,008	2	5,009	2	2	2	2	2	2	2	2
1/4	78,898	1/4	63,997	1/4	49,315	1/4	34,685	1/4	19,696	1/4	4,696	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,586	1/2	63,686	1/2	49,012	1/2	34,374	1/2	19,383	1/2	4,384	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,274	3/4	63,375	3/4	48,710	3/4	34,061	3/4	19,071	3/4	4,072	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	77,963	3	63,064	3	48,407	3	33,749	3	18,758	3	3,760	3	3	3	3	3	3	3	3
1/4	77,652	1/4	62,753	1/4	48,105	1/4	33,437	1/4	18,446	1/4	3,448	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,340	1/2	62,442	1/2	47,802	1/2	33,124	1/2	18,134	1/2	3,137	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,030	3/4	62,130	3/4	47,500	3/4	32,812	3/4	17,821	3/4	2,844	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	76,720	4	61,818	4	47,198	4	32,500	4	17,509	4	2,552	4	4	4	4	4	4	4	4
1/4	76,409	1/4	61,506	1/4	46,896	1/4	32,187	1/4	17,197	1/4	2,259	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,099	1/2	61,194	1/2	46,594	1/2	31,875	1/2	16,884	1/2	1,967	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,789	3/4	60,882	3/4	46,292	3/4	31,563	3/4	16,572	3/4	1,732	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	75,478	5	60,570	5	45,991	5	31,250	5	16,260	5	1,497	5	5	5	5	5	5	5	5
1/4	75,168	1/4	60,258	1/4	45,689	1/4	30,938	1/4	15,947	1/4	1,263	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,858	1/2	59,946	1/2	45,387	1/2	30,626	1/2	15,635	1/2	1,028	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,547	3/4	59,637	3/4	45,084	3/4	30,313	3/4	15,323	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	74,237	6	59,328	6	44,781	6	30,001	6	15,010	6		6	6	6	6	6	6	6	6
1/4	73,927	1/4	59,020	1/4	44,477	1/4	29,689	1/4	14,698	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,617	1/2	58,711	1/2	44,174	1/2	29,376	1/2	14,386	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,306	3/4	58,405	3/4	43,869	3/4	29,064	3/4	14,073	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	72,996	7	58,099	7	43,564	7	28,752	7	13,761	7		7	7	7	7	7	7	7	7
1/4	72,686	1/4	57,794	1/4	43,259	1/4	28,440	1/4	13,449	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,375	1/2	57,488	1/2	42,954	1/2	28,128	1/2	13,136	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,065	3/4	57,184	3/4	42,649	3/4	27,816	3/4	12,824	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	71,755	8	56,880	8	42,344	8	27,503	8	12,512	8		8	8	8	8	8	8	8	8
1/4	71,444	1/4	56,576	1/4	42,039	1/4	27,191	1/4	12,199	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,134	1/2	56,272	1/2	41,734	1/2	26,879	1/2	11,887	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,824	3/4	55,969	3/4	41,429	3/4	26,567	3/4	11,574	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	70,513	9	55,667	9	41,124	9	26,255	9	11,262	9		9	9	9	9	9	9	9	9
1/4	70,203	1/4	55,364	1/4	40,819	1/4	25,942	1/4	10,949	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,893	1/2	55,062	1/2	40,514	1/2	25,630	1/2	10,637	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,582	3/4	54,759	3/4	40,209	3/4	25,318	3/4	10,324	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	69,272	10	54,457	10	39,904	10	25,005	10	10,011	10		10	10	10	10	10	10	10	10
1/4	68,962	1/4	54,155	1/4	39,599	1/4	24,693	1/4	9,698	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,651	1/2	53,852	1/2	39,294	1/2	24,381	1/2	9,385	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,341	3/4	53,550	3/4	38,989	3/4	24,068	3/4	9,072	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	68,031	11	53,247	11	38,684	11	23,756	11	8,760	11		11	11	11	11	11	11	11	11
1/4	67,721	1/4	52,945	1/4	38,379	1/4	23,444	1/4	8,447	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,410	1/2	52,642	1/2	38,074	1/2	23,131	1/2	8,134	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,100	3/4	52,340	3/4	37,769	3/4	22,819	3/4	7,822	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

3 STBD ULLAGE 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	0	0	0	0	185,315	0	174,984	0	164,640	0	154,272	0	142,290	0	127,293	0	112,296	0	97,284
1/4		1/4		1/4	185,100	1/4	174,769	1/4	164,424	1/4	154,056	1/4	141,978	1/4	126,981	1/4	111,983	1/4	96,971
1/2		1/2		1/2	184,885	1/2	174,554	1/2	164,208	1/2	153,840	1/2	141,665	1/2	126,668	1/2	111,671	1/2	96,658
3/4		3/4		3/4	184,670	3/4	174,338	3/4	163,992	3/4	153,624	3/4	141,353	3/4	126,356	3/4	111,358	3/4	96,345
1	1	1	1	1	184,454	1	174,123	1	163,776	1	153,408	1	141,040	1	126,043	1	111,046	1	96,032
1/4		1/4		1/4	184,239	1/4	173,908	1/4	163,560	1/4	153,192	1/4	140,728	1/4	125,731	1/4	110,734	1/4	95,719
1/2		1/2		1/2	184,024	1/2	173,693	1/2	163,344	1/2	152,976	1/2	140,416	1/2	125,418	1/2	110,421	1/2	95,407
3/4		3/4		3/4	183,809	3/4	173,477	3/4	163,128	3/4	152,760	3/4	140,103	3/4	125,106	3/4	110,109	3/4	95,094
2	2	2	2	2	183,593	2	173,262	2	162,912	2	152,544	2	139,791	2	124,793	2	109,796	2	94,781
1/4		1/4	193,017	1/4	183,378	1/4	173,047	1/4	162,696	1/4	152,328	1/4	139,478	1/4	124,481	1/4	109,484	1/4	94,468
1/2		1/2	192,894	1/2	183,163	1/2	172,832	1/2	162,480	1/2	152,112	1/2	139,166	1/2	124,169	1/2	109,171	1/2	94,155
3/4		3/4	192,770	3/4	182,948	3/4	172,616	3/4	162,264	3/4	151,896	3/4	138,853	3/4	123,856	3/4	108,858	3/4	93,842
3	3	3	3	3	192,646	3	182,732	3	172,401	3	162,048	3	151,680	3	138,541	3	108,546	3	93,529
1/4		1/4	192,523	1/4	182,517	1/4	172,186	1/4	161,832	1/4	151,464	1/4	138,229	1/4	123,231	1/4	108,233	1/4	93,217
1/2		1/2	192,363	1/2	182,302	1/2	171,971	1/2	161,616	1/2	151,248	1/2	137,916	1/2	122,919	1/2	107,921	1/2	92,904
3/4		3/4	192,204	3/4	182,087	3/4	171,756	3/4	161,400	3/4	151,032	3/4	137,604	3/4	122,606	3/4	107,608	3/4	92,591
4	4	4	4	4	192,044	4	181,871	4	171,540	4	161,184	4	150,816	4	137,291	4	107,295	4	92,278
1/4		1/4	191,884	1/4	181,656	1/4	171,325	1/4	160,968	1/4	150,600	1/4	136,979	1/4	121,981	1/4	106,982	1/4	91,965
1/2		1/2	191,691	1/2	181,441	1/2	171,110	1/2	160,752	1/2	150,381	1/2	136,666	1/2	121,669	1/2	106,670	1/2	91,652
3/4		3/4	191,498	3/4	181,226	3/4	170,895	3/4	160,536	3/4	150,161	3/4	136,354	3/4	121,357	3/4	106,357	3/4	91,339
5	5	5	5	5	191,305	5	181,011	5	170,679	5	160,320	5	149,942	5	136,041	5	106,044	5	91,027
1/4		1/4	191,112	1/4	180,795	1/4	170,464	1/4	160,104	1/4	149,722	1/4	135,729	1/4	120,732	1/4	105,731	1/4	90,714
1/2		1/2	190,900	1/2	180,580	1/2	170,249	1/2	159,888	1/2	149,491	1/2	135,417	1/2	120,419	1/2	105,418	1/2	90,401
3/4		3/4	190,689	3/4	180,365	3/4	170,034	3/4	159,672	3/4	149,260	3/4	135,104	3/4	120,107	3/4	105,105	3/4	90,088
6	6	6	6	6	190,477	6	180,150	6	169,818	6	159,456	6	148,929	6	134,792	6	104,792	6	89,775
1/4		1/4	190,265	1/4	179,934	1/4	169,603	1/4	159,240	1/4	148,798	1/4	134,479	1/4	119,482	1/4	104,480	1/4	89,462
1/2		1/2	190,050	1/2	179,719	1/2	169,388	1/2	159,024	1/2	148,550	1/2	134,167	1/2	119,169	1/2	104,167	1/2	89,149
3/4		3/4	189,835	3/4	179,504	3/4	169,173	3/4	158,808	3/4	148,303	3/4	133,854	3/4	118,857	3/4	103,854	3/4	88,837
7	7	7	7	7	189,621	7	179,289	7	168,958	7	158,592	7	148,056	7	133,542	7	103,541	7	88,524
1/4		1/4	189,406	1/4	179,073	1/4	168,742	1/4	158,376	1/4	147,808	1/4	133,229	1/4	118,232	1/4	103,228	1/4	88,211
1/2		1/2	189,190	1/2	178,858	1/2	168,527	1/2	158,160	1/2	147,545	1/2	132,917	1/2	117,920	1/2	102,915	1/2	87,898
3/4		3/4	188,975	3/4	178,643	3/4	168,311	3/4	157,944	3/4	147,282	3/4	132,605	3/4	117,607	3/4	102,602	3/4	87,585
8	8	8	8	8	188,760	8	178,428	8	168,095	8	157,728	8	147,019	8	132,292	8	102,290	8	87,272
1/4		1/4	188,544	1/4	178,213	1/4	167,880	1/4	157,512	1/4	146,755	1/4	131,980	1/4	116,982	1/4	101,977	1/4	86,959
1/2		1/2	188,329	1/2	177,997	1/2	167,664	1/2	157,296	1/2	146,476	1/2	131,667	1/2	116,670	1/2	101,664	1/2	86,647
3/4		3/4	188,114	3/4	177,782	3/4	167,448	3/4	157,080	3/4	146,197	3/4	131,355	3/4	116,357	3/4	101,351	3/4	86,334
9	9	9	9	9	187,898	9	177,567	9	167,232	9	156,864	9	145,918	9	131,042	9	101,038	9	86,021
1/4		1/4	187,683	1/4	177,352	1/4	167,016	1/4	156,648	1/4	145,638	1/4	130,730	1/4	115,733	1/4	100,725	1/4	85,708
1/2		1/2	187,468	1/2	177,136	1/2	166,800	1/2	156,432	1/2	145,343	1/2	130,417	1/2	115,420	1/2	100,412	1/2	85,395
3/4		3/4	187,252	3/4	176,921	3/4	166,584	3/4	156,216	3/4	145,048	3/4	130,105	3/4	115,108	3/4	100,100	3/4	85,082
10	10	10	10	10	187,037	10	176,706	10	166,368	10	155,000	10	144,752	10	129,793	10	109,785	10	84,769
1/4		1/4	186,822	1/4	176,491	1/4	166,152	1/4	155,784	1/4	144,457	1/4	129,480	1/4	114,483	1/4	99,474	1/4	84,457
1/2		1/2	186,607	1/2	176,275	1/2	165,936	1/2	155,568	1/2	144,149	1/2	129,168	1/2	114,170	1/2	99,161	1/2	84,144
3/4		3/4	186,391	3/4	176,060	3/4	165,720	3/4	155,352	3/4	143,842	3/4	128,855	3/4	113,858	3/4	98,848	3/4	83,831
11	11	11	11	11	186,176	11	175,845	11	165,504	11	155,136	11	143,534	11	128,543	11	108,535	11	83,518
1/4		1/4	185,961	1/4	175,630	1/4	165,288	1/4	154,920	1/4	143,226	1/4	128,230	1/4	113,233	1/4	98,222	1/4	83,205
1/2		1/2	185,746	1/2	175,415	1/2	165,072	1/2	154,704	1/2	142,914	1/2	127,918	1/2	112,921	1/2	97,910	1/2	82,892
3/4		3/4	185,530	3/4	175,199	3/4	164,856	3/4	154,488	3/4	142,602	3/4	127,605	3/4	112,608	3/4	97,597	3/4	82,579

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3021"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	82,266	0	67,249	0	52,232	0	37,229	0	22,216	0	7,199	0		0		0		0	
1/4	81,954	1/4	66,936	1/4	51,919	1/4	36,917	1/4	21,903	1/4	6,886	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	81,641	1/2	66,623	1/2	51,606	1/2	36,604	1/2	21,590	1/2	6,573	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,328	3/4	66,311	3/4	51,293	3/4	36,292	3/4	21,277	3/4	6,260	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	81,015	1	65,998	1	50,980	1	35,980	1	20,964	1	5,948	1	1	1	1	1	1	1	1
1/4	80,702	1/4	65,685	1/4	50,668	1/4	35,667	1/4	20,651	1/4	5,635	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,389	1/2	65,372	1/2	50,355	1/2	35,355	1/2	20,339	1/2	5,322	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,076	3/4	65,059	3/4	50,042	3/4	35,042	3/4	20,026	3/4	5,010	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	79,764	2	64,746	2	49,729	2	34,729	2	19,713	2	4,697	2	2	2	2	2	2	2	2
1/4	79,451	1/4	64,433	1/4	49,416	1/4	34,417	1/4	19,400	1/4	4,384	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,138	1/2	64,121	1/2	49,103	1/2	34,104	1/2	19,087	1/2	4,072	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,825	3/4	63,808	3/4	48,790	3/4	33,791	3/4	18,774	3/4	3,761	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	78,512	3	63,495	3	48,478	3	33,478	3	18,461	3	3,449	3	3	3	3	3	3	3	3
1/4	78,199	1/4	63,182	1/4	48,165	1/4	33,165	1/4	18,149	1/4	3,137	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,886	1/2	62,869	1/2	47,852	1/2	32,853	1/2	17,836	1/2	2,844	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,574	3/4	62,556	3/4	47,539	3/4	32,540	3/4	17,523	3/4	2,552	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	77,261	4	62,243	4	47,227	4	32,227	4	17,210	4	2,259	4	4	4	4	4	4	4	4
1/4	76,948	1/4	61,931	1/4	46,914	1/4	31,914	1/4	16,897	1/4	1,967	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,635	1/2	61,618	1/2	46,601	1/2	31,601	1/2	16,584	1/2	1,732	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,322	3/4	61,305	3/4	46,289	3/4	31,288	3/4	16,272	3/4	1,498	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	76,009	5	60,992	5	45,976	5	30,976	5	15,959	5	1,263	5	5	5	5	5	5	5	5
1/4	75,696	1/4	60,679	1/4	45,663	1/4	30,663	1/4	15,646	1/4	1,028	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,384	1/2	60,366	1/2	45,351	1/2	30,350	1/2	15,333	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,071	3/4	60,053	3/4	45,038	3/4	30,037	3/4	15,020	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	74,758	6	59,741	6	44,726	6	29,724	6	14,707	6	6	6	6	6	6	6	6	6	6
1/4	74,445	1/4	59,428	1/4	44,414	1/4	29,411	1/4	14,394	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,132	1/2	59,115	1/2	44,101	1/2	29,098	1/2	14,082	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,819	3/4	58,802	3/4	43,789	3/4	28,786	3/4	13,769	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	73,506	7	58,489	7	43,476	7	28,473	7	13,456	7	7	7	7	7	7	7	7	7	7
1/4	73,194	1/4	58,176	1/4	43,164	1/4	28,160	1/4	13,143	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,881	1/2	57,863	1/2	42,852	1/2	27,847	1/2	12,830	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,568	3/4	57,551	3/4	42,539	3/4	27,534	3/4	12,517	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	72,255	8	57,238	8	42,227	8	27,221	8	12,204	8	8	8	8	8	8	8	8	8	8
1/4	71,942	1/4	56,925	1/4	41,915	1/4	26,908	1/4	11,892	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,629	1/2	56,612	1/2	41,602	1/2	26,596	1/2	11,579	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,316	3/4	56,299	3/4	41,290	3/4	26,283	3/4	11,266	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	71,004	9	55,986	9	40,978	9	25,970	9	10,953	9	9	9	9	9	9	9	9	9	9
1/4	70,691	1/4	55,673	1/4	40,665	1/4	25,657	1/4	10,640	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,378	1/2	55,361	1/2	40,353	1/2	25,344	1/2	10,327	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,065	3/4	55,048	3/4	40,040	3/4	25,031	3/4	10,015	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	69,752	10	54,735	10	39,728	10	24,719	10	9,702	10	10	10	10	10	10	10	10	10	10
1/4	69,439	1/4	54,422	1/4	39,416	1/4	24,406	1/4	9,389	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,126	1/2	54,109	1/2	39,103	1/2	24,093	1/2	9,076	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,814	3/4	53,796	3/4	38,791	3/4	23,780	3/4	8,763	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	68,501	11	53,483	11	38,479	11	23,467	11	8,450	11	11	11	11	11	11	11	11	11	11
1/4	68,188	1/4	53,170	1/4	38,166	1/4	23,154	1/4	8,137	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,875	1/2	52,858	1/2	37,854	1/2	22,841	1/2	7,825	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,562	3/4	52,545	3/4	37,542	3/4	22,529	3/4	7,512	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/30/2019 CL
CALCULATED: 10/01/2019 CL
PRINTED: 10/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

PORT SLOP TANK ULLAGE 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		0		0	4,282	0	3,127	0	1,973	0	818	0		0		0		0	
1/4		1/4		1/4	4,258	1/4	3,103	1/4	1,949	1/4	794	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,234	1/2	3,079	1/2	1,925	1/2	770	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,210	3/4	3,054	3/4	1,901	3/4	746	3/4		3/4		3/4		3/4	
1		1		1	4,185	1	3,030	1	1,877	1	722	1		1		1		1	
1/4		1/4		1/4	4,161	1/4	3,006	1/4	1,853	1/4	698	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,137	1/2	2,982	1/2	1,829	1/2	674	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,113	3/4	2,958	3/4	1,805	3/4	650	3/4		3/4		3/4		3/4	
2		2		2	4,089	2	2,934	2	1,780	2	626	2		2		2		2	
1/4		1/4		1/4	4,065	1/4	2,910	1/4	1,756	1/4	602	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,140	1/2	4,041	1/2	2,886	1/2	578	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,128	3/4	4,017	3/4	2,862	3/4	553	3/4		3/4		3/4		3/4	
3		3		3	5,117	3	3,993	3	2,838	3	529	3		3		3		3	
1/4		1/4		1/4	5,105	1/4	3,969	1/4	2,814	1/4	505	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	5,093	1/2	3,945	1/2	2,790	1/2	481	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	5,070	3/4	3,921	3/4	2,766	3/4	457	3/4		3/4		3/4		3/4	
4		4		4	5,046	4	3,897	4	2,742	4	433	4		4		4		4	
1/4		1/4		1/4	5,023	1/4	3,873	1/4	2,718	1/4	409	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,999	1/2	3,849	1/2	2,694	1/2	385	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,975	3/4	3,825	3/4	2,670	3/4	361	3/4		3/4		3/4		3/4	
5		5		5	4,952	5	3,800	5	2,646	5	337	5		5		5		5	
1/4		1/4		1/4	4,928	1/4	3,776	1/4	2,622	1/4	313	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,904	1/2	3,752	1/2	2,597	1/2	289	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,881	3/4	3,728	3/4	2,574	3/4	265	3/4		3/4		3/4		3/4	
6		6		6	4,857	6	3,704	6	2,550	6	241	6		6		6		6	
1/4		1/4		1/4	4,833	1/4	3,680	1/4	2,526	1/4	217	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,810	1/2	3,656	1/2	2,502	1/2	193	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,786	3/4	3,632	3/4	2,478	3/4	168	3/4		3/4		3/4		3/4	
7		7		7	4,762	7	3,608	7	2,454	7	144	7		7		7		7	
1/4		1/4		1/4	4,739	1/4	3,584	1/4	2,430	1/4	120	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,715	1/2	3,560	1/2	2,406	1/2	96	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,691	3/4	3,536	3/4	2,382	3/4	72	3/4		3/4		3/4		3/4	
8		8		8	4,667	8	3,512	8	2,358	8	1,203	8		8		8		8	
1/4		1/4		1/4	4,643	1/4	3,488	1/4	2,334	1/4	1,179	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,619	1/2	3,464	1/2	2,310	1/2	1,155	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,595	3/4	3,440	3/4	2,286	3/4	1,131	3/4		3/4		3/4		3/4	
9		9		9	4,570	9	3,415	9	2,262	9	1,107	9		9		9		9	
1/4		1/4		1/4	4,546	1/4	3,391	1/4	2,238	1/4	1,083	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,522	1/2	3,367	1/2	2,214	1/2	1,059	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,498	3/4	3,343	3/4	2,190	3/4	1,035	3/4		3/4		3/4		3/4	
10		10		10	4,474	10	3,319	10	2,165	10	1,011	10		10		10		10	
1/4		1/4		1/4	4,450	1/4	3,295	1/4	2,141	1/4	987	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,426	1/2	3,271	1/2	2,117	1/2	963	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,402	3/4	3,247	3/4	2,093	3/4	938	3/4		3/4		3/4		3/4	
11		11		11	4,378	11	3,223	11	2,069	11	914	11		11		11		11	
1/4		1/4		1/4	4,354	1/4	3,199	1/4	2,045	1/4	890	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,330	1/2	3,175	1/2	2,021	1/2	866	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,306	3/4	3,151	3/4	1,997	3/4	842	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

STRAPPED: 09/30/2019 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019

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



BARGE "HSM 3021"

STBD SLOP TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 3/4"

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

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