



BARGE "HSM 3020"

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"

September 24, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3020"

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"

September 24, 2019

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BARGE "HSM 3020"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 7/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	199,714	0	184,724	0	169,716	0	154,682	0	139,647	0	124,613	0	109,578	0	94,538
1/4	1/4	1/4	1/4	1/4	199,402	1/4	184,411	1/4	169,403	1/4	154,369	1/4	139,334	1/4	124,299	1/4	109,265	1/4	94,224
1/2	1/2	1/2	1/2	1/2	199,090	1/2	184,099	1/2	169,090	1/2	154,055	1/2	139,021	1/2	123,986	1/2	108,951	1/2	93,911
3/4	3/4	3/4	3/4	3/4	198,777	3/4	183,787	3/4	168,777	3/4	153,742	3/4	138,707	3/4	123,673	3/4	108,638	3/4	93,597
1	1	1	1	1	198,465	1	183,474	1	168,464	1	153,429	1	138,394	1	123,360	1	108,325	1	93,284
1/4	1/4	1/4	1/4	1/4	198,153	1/4	183,162	1/4	168,150	1/4	153,116	1/4	138,081	1/4	123,046	1/4	108,012	1/4	92,971
1/2	1/2	1/2	1/2	1/2	197,841	1/2	182,850	1/2	167,837	1/2	152,802	1/2	137,768	1/2	122,733	1/2	107,698	1/2	92,657
3/4	3/4	3/4	3/4	3/4	197,528	3/4	182,537	3/4	167,524	3/4	152,489	3/4	137,455	3/4	122,420	3/4	107,385	3/4	92,344
2	2	2	2	2	197,216	2	182,225	2	167,211	2	152,176	2	137,141	2	122,107	2	107,072	2	92,031
1/4	1/4	1/4	1/4	1/4	196,904	1/4	181,913	1/4	166,897	1/4	151,863	1/4	136,828	1/4	121,794	1/4	106,758	1/4	91,717
1/2	1/2	1/2	1/2	1/2	196,591	1/2	181,601	1/2	166,584	1/2	151,550	1/2	136,515	1/2	121,480	1/2	106,445	1/2	91,404
3/4	3/4	3/4	3/4	3/4	196,279	3/4	181,288	3/4	166,271	3/4	151,236	3/4	136,202	3/4	121,167	3/4	106,132	3/4	91,091
3	3	3	3	3	195,967	3	180,976	3	165,958	3	150,923	3	135,888	3	120,854	3	105,818	3	90,777
1/4	1/4	1/4	1/4	1/4	195,654	1/4	180,664	1/4	165,645	1/4	150,610	1/4	135,575	1/4	120,541	1/4	105,505	1/4	90,464
1/2	1/2	1/2	1/2	1/2	195,342	1/2	180,351	1/2	165,331	1/2	150,297	1/2	135,262	1/2	120,227	1/2	105,192	1/2	90,151
3/4	3/4	3/4	3/4	3/4	195,030	3/4	180,039	3/4	165,018	3/4	149,983	3/4	134,949	3/4	119,914	3/4	104,878	3/4	89,837
4	4	4	4	4	194,717	4	179,727	4	164,705	4	149,670	4	134,636	4	119,601	4	104,565	4	89,524
1/4	1/4	1/4	1/4	1/4	194,405	1/4	179,414	1/4	164,392	1/4	149,357	1/4	134,322	1/4	119,288	1/4	104,252	1/4	89,210
1/2	1/2	1/2	1/2	1/2	194,093	1/2	179,102	1/2	164,078	1/2	149,044	1/2	134,009	1/2	118,975	1/2	103,938	1/2	88,897
3/4	3/4	3/4	3/4	3/4	193,781	3/4	178,790	3/4	163,765	3/4	148,731	3/4	133,696	3/4	118,661	3/4	103,625	3/4	88,584
5	5	5	5	5	193,468	5	178,477	5	163,452	5	148,417	5	133,383	5	118,348	5	103,312	5	88,270
1/4	1/4	1/4	1/4	1/4	193,156	1/4	178,165	1/4	163,139	1/4	148,104	1/4	133,070	1/4	118,035	1/4	102,998	1/4	87,957
1/2	1/2	1/2	1/2	1/2	192,844	1/2	177,853	1/2	162,826	1/2	147,791	1/2	132,756	1/2	117,722	1/2	102,685	1/2	87,644
3/4	3/4	3/4	3/4	3/4	192,531	3/4	177,541	3/4	162,512	3/4	147,478	3/4	132,443	3/4	117,408	3/4	102,371	3/4	87,330
6	6	6	6	6	192,219	6	177,228	6	162,199	6	147,164	6	132,130	6	117,095	6	102,058	6	87,017
1/4	1/4	1/4	1/4	1/4	191,907	1/4	176,916	1/4	161,886	1/4	146,851	1/4	131,817	1/4	116,782	1/4	101,745	1/4	86,704
1/2	1/2	1/2	1/2	1/2	191,594	1/2	176,604	1/2	161,573	1/2	146,538	1/2	131,503	1/2	116,469	1/2	101,431	1/2	86,390
3/4	3/4	3/4	3/4	3/4	191,282	3/4	176,291	3/4	161,259	3/4	146,225	3/4	131,190	3/4	116,156	3/4	101,118	3/4	86,077
7	7	7	7	7	190,970	7	175,979	7	160,946	7	145,912	7	130,877	7	115,842	7	100,805	7	85,764
1/4	1/4	1/4	1/4	1/4	190,657	1/4	175,666	1/4	160,633	1/4	145,598	1/4	130,564	1/4	115,529	1/4	100,491	1/4	85,450
1/2	1/2	1/2	1/2	1/2	190,345	1/2	175,353	1/2	160,320	1/2	145,285	1/2	130,251	1/2	115,216	1/2	100,178	1/2	85,137
3/4	3/4	3/4	3/4	3/4	190,033	3/4	175,041	3/4	160,007	3/4	144,972	3/4	129,937	3/4	114,903	3/4	99,865	3/4	84,823
8	8	8	8	8	189,721	8	174,728	8	159,693	8	144,659	8	129,624	8	114,589	8	99,551	8	84,510
1/4	1/4	1/4	1/4	1/4	189,408	1/4	174,415	1/4	159,380	1/4	144,345	1/4	129,311	1/4	114,276	1/4	99,238	1/4	84,197
1/2	1/2	1/2	1/2	1/2	189,096	1/2	174,102	1/2	159,067	1/2	144,032	1/2	128,998	1/2	113,963	1/2	98,925	1/2	83,883
3/4	3/4	3/4	3/4	3/4	188,784	3/4	173,788	3/4	158,754	3/4	143,719	3/4	128,684	3/4	113,650	3/4	98,611	3/4	83,570
9	9	9	9	9	188,471	9	173,475	9	158,440	9	143,406	9	128,371	9	113,337	9	98,298	9	83,257
1/4	1/4	1/4	1/4	1/4	188,159	1/4	173,162	1/4	158,127	1/4	143,093	1/4	128,058	1/4	113,023	1/4	97,984	1/4	82,943
1/2	1/2	1/2	1/2	1/2	187,847	1/2	172,849	1/2	157,814	1/2	142,779	1/2	127,745	1/2	112,710	1/2	97,671	1/2	82,630
3/4	3/4	3/4	3/4	3/4	187,534	3/4	172,535	3/4	157,501	3/4	142,466	3/4	127,432	3/4	112,397	3/4	97,358	3/4	82,317
10	10	10	10	10	187,222	10	172,222	10	157,188	10	142,153	10	127,118	10	112,084	10	97,044	10	82,003
1/4	1/4	1/4	1/4	1/4	186,910	1/4	171,909	1/4	156,874	1/4	141,840	1/4	126,805	1/4	111,770	1/4	96,731	1/4	81,690
1/2	1/2	1/2	1/2	1/2	186,597	1/2	171,596	1/2	156,561	1/2	141,526	1/2	126,492	1/2	111,457	1/2	96,418	1/2	81,377
3/4	3/4	3/4	3/4	3/4	186,285	3/4	171,283	3/4	156,248	3/4	141,213	3/4	126,179	3/4	111,144	3/4	96,104	3/4	81,063
11	11	11	11	11	185,973	11	170,969	11	155,935	11	140,900	11	125,865	11	110,831	11	95,791	11	80,750
1/4	1/4	1/4	1/4	1/4	185,661	1/4	170,656	1/4	155,621	1/4	140,587	1/4	125,552	1/4	110,518	1/4	95,478	1/4	80,436
1/2	1/2	1/2	1/2	1/2	185,348	1/2	170,343	1/2	155,308	1/2	140,274	1/2	125,239	1/2	110,204	1/2	95,164	1/2	80,123
3/4	3/4	3/4	3/4	3/4	185,036	3/4	170,030	3/4	154,995	3/4	139,960	3/4	124,926	3/4	109,891	3/4	94,851	3/4	79,810

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HSM 3020"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 7/8"

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	79,183	1/4	64,144	1/4	49,203	1/4	34,165	1/4	19,124	1/4	4,978	1/4		1/4		1/4		1/4			
1/2	78,870	1/2	63,832	1/2	48,891	1/2	33,851	1/2	18,811	1/2	4,708	1/2		1/2		1/2		1/2			
3/4	78,556	3/4	63,520	3/4	48,578	3/4	33,538	3/4	18,497	3/4	4,437	3/4		3/4		3/4		3/4			
1	78,243	1	63,208	1	48,265	1	33,225	1	18,184	1	4,167	1		1		1		1			
1/4	77,930	1/4	62,896	1/4	47,952	1/4	32,911	1/4	17,872	1/4	3,899	1/4		1/4		1/4		1/4			
1/2	77,616	1/2	62,585	1/2	47,639	1/2	32,598	1/2	17,559	1/2	3,632	1/2		1/2		1/2		1/2			
3/4	77,303	3/4	62,274	3/4	47,325	3/4	32,285	3/4	17,247	3/4	3,365	3/4		3/4		3/4		3/4			
2	76,990	2	61,963	2	47,012	2	31,971	2	16,935	2	3,100	2		2		2		2			
1/4	76,676	1/4	61,652	1/4	46,699	1/4	31,658	1/4	16,625	1/4	2,836	1/4		1/4		1/4		1/4			
1/2	76,363	1/2	61,341	1/2	46,385	1/2	31,345	1/2	16,316	1/2	2,574	1/2		1/2		1/2		1/2			
3/4	76,049	3/4	61,030	3/4	46,072	3/4	31,031	3/4	16,006	3/4	2,312	3/4		3/4		3/4		3/4			
3	75,736	3	60,719	3	45,759	3	30,718	3	15,698	3	2,055	3		3		3		3			
1/4	75,423	1/4	60,408	1/4	45,445	1/4	30,405	1/4	15,391	1/4	1,811	1/4		1/4		1/4		1/4			
1/2	75,109	1/2	60,097	1/2	45,132	1/2	30,091	1/2	15,085	1/2	1,572	1/2		1/2		1/2		1/2			
3/4	74,796	3/4	59,786	3/4	44,819	3/4	29,778	3/4	14,780	3/4	1,333	3/4		3/4		3/4		3/4			
4	74,483	4	59,475	4	44,505	4	29,465	4	14,475	4	1,109	4		4		4		4			
1/4	74,169	1/4	59,164	1/4	44,192	1/4	29,151	1/4	14,172	1/4	917	1/4		1/4		1/4		1/4			
1/2	73,856	1/2	58,853	1/2	43,879	1/2	28,838	1/2	13,871	1/2	740	1/2		1/2		1/2		1/2			
3/4	73,543	3/4	58,542	3/4	43,565	3/4	28,525	3/4	13,569	3/4	562	3/4		3/4		3/4		3/4			
5	73,229	5	58,231	5	43,252	5	28,211	5	13,268	5	474	5		5		5		5			
1/4	72,916	1/4	57,920	1/4	42,939	1/4	27,898	1/4	12,969	1/4		1/4		1/4		1/4		1/4			
1/2	72,603	1/2	57,609	1/2	42,625	1/2	27,585	1/2	12,671	1/2		1/2		1/2		1/2		1/2			
3/4	72,289	3/4	57,298	3/4	42,312	3/4	27,271	3/4	12,373	3/4		3/4		3/4		3/4		3/4			
6	71,976	6	56,987	6	41,999	6	26,958	6	12,076	6		6		6		6		6			
1/4	71,662	1/4	56,676	1/4	41,685	1/4	26,644	1/4	11,781	1/4		1/4		1/4		1/4		1/4			
1/2	71,349	1/2	56,365	1/2	41,372	1/2	26,331	1/2	11,487	1/2		1/2		1/2		1/2		1/2			
3/4	71,036	3/4	56,054	3/4	41,058	3/4	26,018	3/4	11,193	3/4		3/4		3/4		3/4		3/4			
7	70,722	7	55,743	7	40,745	7	25,704	7	10,900	7		7		7		7		7			
1/4	70,409	1/4	55,432	1/4	40,432	1/4	25,391	1/4	10,609	1/4		1/4		1/4		1/4		1/4			
1/2	70,096	1/2	55,121	1/2	40,118	1/2	25,078	1/2	10,319	1/2		1/2		1/2		1/2		1/2			
3/4	69,782	3/4	54,810	3/4	39,805	3/4	24,764	3/4	10,028	3/4		3/4		3/4		3/4		3/4			
8	69,469	8	54,499	8	39,492	8	24,451	8	9,739	8		8		8		8		8			
1/4	69,156	1/4	54,188	1/4	39,178	1/4	24,138	1/4	9,452	1/4		1/4		1/4		1/4		1/4			
1/2	68,842	1/2	53,877	1/2	38,865	1/2	23,824	1/2	9,166	1/2		1/2		1/2		1/2		1/2			
3/4	68,529	3/4	53,566	3/4	38,552	3/4	23,511	3/4	8,879	3/4		3/4		3/4		3/4		3/4			
9	68,216	9	53,255	9	38,238	9	23,198	9	8,594	9		9		9		9		9			
1/4	67,902	1/4	52,944	1/4	37,925	1/4	22,884	1/4	8,310	1/4		1/4		1/4		1/4		1/4			
1/2	67,589	1/2	52,633	1/2	37,612	1/2	22,571	1/2	8,028	1/2		1/2		1/2		1/2		1/2			
3/4	67,275	3/4	52,322	3/4	37,298	3/4	22,258	3/4	7,745	3/4		3/4		3/4		3/4		3/4			
10	66,962	10	52,010	10	36,985	10	21,944	10	7,464	10		10		10		10		10			
1/4	66,649	1/4	51,699	1/4	36,672	1/4	21,631	1/4	7,184	1/4		1/4		1/4		1/4		1/4			
1/2	66,335	1/2	51,387	1/2	36,358	1/2	21,318	1/2	6,906	1/2		1/2		1/2		1/2		1/2			
3/4	66,022	3/4	51,075	3/4	36,045	3/4	21,004	3/4	6,627	3/4		3/4		3/4		3/4		3/4			
11	65,709	11	50,764	11	35,732	11	20,691	11	6,349	11		11		11		11		11			
1/4	65,396	1/4	50,452	1/4	35,418	1/4	20,378	1/4	6,074	1/4		1/4		1/4		1/4		1/4			
1/2	65,082	1/2	50,140	1/2	35,105	1/2	20,064	1/2	5,799	1/2		1/2		1/2		1/2		1/2			
3/4	64,769	3/4	49,828	3/4	34,792	3/4	19,751	3/4	5,524	3/4		3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2019 CL
CALCULATED: 09/24/2019 CL
REPRINTED: 10/10/2019 SW

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 3020"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	200,023	0	185,041	0	170,042	0	155,014	0	139,987	0	124,960	0	109,933	0	94,900
1/4		1/4		1/4	199,712	1/4	184,729	1/4	169,729	1/4	154,701	1/4	139,674	1/4	124,647	1/4	109,620	1/4	94,587
1/2		1/2		1/2	199,400	1/2	184,416	1/2	169,416	1/2	154,388	1/2	139,361	1/2	124,334	1/2	109,307	1/2	94,274
3/4		3/4		3/4	199,088	3/4	184,104	3/4	169,103	3/4	154,075	3/4	139,048	3/4	124,021	3/4	108,994	3/4	93,961
1		1		1	198,776	1	183,792	1	168,789	1	153,762	1	138,735	1	123,708	1	108,681	1	93,648
1/4		1/4		1/4	198,463	1/4	183,480	1/4	168,476	1/4	153,449	1/4	138,422	1/4	123,395	1/4	108,368	1/4	93,334
1/2		1/2		1/2	198,151	1/2	183,168	1/2	168,163	1/2	153,136	1/2	138,109	1/2	123,082	1/2	108,055	1/2	93,021
3/4		3/4		3/4	197,839	3/4	182,856	3/4	167,850	3/4	152,823	3/4	137,796	3/4	122,769	3/4	107,741	3/4	92,708
2		2		2	197,527	2	182,543	2	167,537	2	152,510	2	137,483	2	122,456	2	107,428	2	92,395
1/4		1/4		1/4	211,147	1/4	197,215	1/4	182,231	1/4	167,224	1/4	152,197	1/4	137,170	1/4	122,143	1/4	107,115
1/2		1/2		1/2	210,967	1/2	196,903	1/2	181,919	1/2	166,911	1/2	151,884	1/2	136,857	1/2	121,829	1/2	106,802
3/4		3/4		3/4	210,788	3/4	196,590	3/4	181,607	3/4	166,598	3/4	151,571	3/4	136,543	3/4	121,516	3/4	106,489
3		3		3	210,608	3	196,278	3	181,295	3	166,285	3	151,258	3	136,230	3	121,203	3	106,176
1/4		1/4		1/4	210,415	1/4	195,966	1/4	180,983	1/4	165,972	1/4	150,945	1/4	135,917	1/4	120,890	1/4	105,862
1/2		1/2		1/2	210,197	1/2	195,654	1/2	180,671	1/2	165,659	1/2	150,632	1/2	135,604	1/2	120,577	1/2	105,549
3/4		3/4		3/4	209,965	3/4	195,342	3/4	180,358	3/4	165,346	3/4	150,318	3/4	135,291	3/4	120,264	3/4	105,236
4		4		4	209,733	4	195,030	4	180,046	4	165,033	4	150,005	4	134,978	4	119,951	4	104,923
1/4		1/4		1/4	209,489	1/4	194,718	1/4	179,734	1/4	164,720	1/4	149,692	1/4	134,665	1/4	119,638	1/4	104,610
1/2		1/2		1/2	209,221	1/2	194,405	1/2	179,422	1/2	164,407	1/2	149,379	1/2	134,352	1/2	119,325	1/2	104,296
3/4		3/4		3/4	208,940	3/4	194,093	3/4	179,110	3/4	164,093	3/4	149,066	3/4	134,039	3/4	119,012	3/4	103,983
5		5		5	208,660	5	193,781	5	178,798	5	163,780	5	148,753	5	133,726	5	118,699	5	103,670
1/4		1/4		1/4	208,374	1/4	193,469	1/4	178,485	1/4	163,467	1/4	148,440	1/4	133,413	1/4	118,386	1/4	103,357
1/2		1/2		1/2	208,074	1/2	193,157	1/2	178,173	1/2	163,154	1/2	148,127	1/2	133,100	1/2	118,073	1/2	103,044
3/4		3/4		3/4	207,768	3/4	192,845	3/4	177,861	3/4	162,841	3/4	147,814	3/4	132,787	3/4	117,760	3/4	102,730
6		6		6	207,462	6	192,532	6	177,549	6	162,528	6	147,501	6	132,474	6	117,447	6	102,417
1/4		1/4		1/4	207,155	1/4	192,220	1/4	177,237	1/4	162,215	1/4	147,188	1/4	132,161	1/4	117,134	1/4	102,104
1/2		1/2		1/2	206,846	1/2	191,908	1/2	176,925	1/2	161,902	1/2	146,875	1/2	131,847	1/2	116,820	1/2	101,791
3/4		3/4		3/4	206,537	3/4	191,596	3/4	176,613	3/4	161,589	3/4	146,562	3/4	131,534	3/4	116,507	3/4	101,478
7		7		7	206,227	7	191,284	7	176,300	7	161,276	7	146,249	7	131,221	7	116,194	7	101,164
1/4		1/4		1/4	205,917	1/4	190,972	1/4	175,988	1/4	160,963	1/4	145,935	1/4	130,908	1/4	115,881	1/4	100,851
1/2		1/2		1/2	205,607	1/2	190,660	1/2	175,676	1/2	160,650	1/2	145,622	1/2	130,595	1/2	115,568	1/2	100,538
3/4		3/4		3/4	205,297	3/4	190,347	3/4	175,363	3/4	160,337	3/4	145,309	3/4	130,282	3/4	115,255	3/4	100,225
8		8		8	204,987	8	190,035	8	175,050	8	160,024	8	144,996	8	129,969	8	114,942	8	99,912
1/4		1/4		1/4	204,677	1/4	189,723	1/4	174,738	1/4	159,710	1/4	144,683	1/4	129,656	1/4	114,629	1/4	99,598
1/2		1/2		1/2	204,367	1/2	189,411	1/2	174,425	1/2	159,397	1/2	144,370	1/2	129,343	1/2	114,316	1/2	99,285
3/4		3/4		3/4	204,057	3/4	189,099	3/4	174,112	3/4	159,084	3/4	144,057	3/4	129,030	3/4	114,003	3/4	98,972
9		9		9	203,747	9	188,787	9	173,799	9	158,771	9	143,744	9	128,717	9	113,690	9	98,659
1/4		1/4		1/4	203,437	1/4	188,474	1/4	173,486	1/4	158,458	1/4	143,431	1/4	128,404	1/4	113,377	1/4	98,346
1/2		1/2		1/2	203,127	1/2	188,162	1/2	173,172	1/2	158,145	1/2	143,118	1/2	128,091	1/2	113,064	1/2	98,032
3/4		3/4		3/4	202,817	3/4	187,850	3/4	172,859	3/4	157,832	3/4	142,805	3/4	127,778	3/4	112,751	3/4	97,719
10		10		10	202,506	10	187,538	10	172,546	10	157,519	10	142,492	10	127,465	10	112,438	10	97,406
1/4		1/4		1/4	202,196	1/4	187,226	1/4	172,233	1/4	157,206	1/4	142,179	1/4	127,152	1/4	112,125	1/4	97,093
1/2		1/2		1/2	201,886	1/2	186,914	1/2	171,920	1/2	156,893	1/2	141,866	1/2	126,838	1/2	111,811	1/2	96,780
3/4		3/4		3/4	201,576	3/4	186,601	3/4	171,607	3/4	156,580	3/4	141,553	3/4	126,525	3/4	111,498	3/4	96,466
11		11		11	201,266	11	186,289	11	171,294	11	156,267	11	141,239	11	126,212	11	111,185	11	96,153
1/4		1/4		1/4	200,956	1/4	185,977	1/4	170,981	1/4	155,954	1/4	140,926	1/4	125,899	1/4	110,872	1/4	95,840
1/2		1/2		1/2	200,645	1/2	185,665	1/2	170,668	1/2	155,641	1/2	140,613	1/2	125,586	1/2	110,559	1/2	95,527
3/4		3/4		3/4	200,334	3/4	185,353	3/4	170,355	3/4	155,328	3/4	140,300	3/4	125,273	3/4	110,246	3/4	95,214

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 3020"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	79,867	0	64,833	0	49,807	0	34,774	0	19,741	0	5,522	0	0	0	0	0	0	0	0
1/4	79,554	1/4	64,520	1/4	49,494	1/4	34,461	1/4	19,428	1/4	5,248	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,241	1/2	64,207	1/2	49,181	1/2	34,148	1/2	19,115	1/2	4,976	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	78,927	3/4	63,894	3/4	48,868	3/4	33,835	3/4	18,802	3/4	4,705	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	78,614	1	63,581	1	48,555	1	33,521	1	18,488	1	4,435	1	1	1	1	1	1	1	1
1/4	78,301	1/4	63,267	1/4	48,241	1/4	33,208	1/4	18,175	1/4	4,165	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,988	1/2	62,954	1/2	47,928	1/2	32,895	1/2	17,863	1/2	3,897	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,675	3/4	62,641	3/4	47,615	3/4	32,582	3/4	17,551	3/4	3,631	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	77,361	2	62,328	2	47,302	2	32,269	2	17,239	2	3,364	2	2	2	2	2	2	2	2
1/4	77,048	1/4	62,015	1/4	46,989	1/4	31,956	1/4	16,927	1/4	3,098	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	76,735	1/2	61,702	1/2	46,675	1/2	31,642	1/2	16,617	1/2	2,835	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,422	3/4	61,389	3/4	46,362	3/4	31,329	3/4	16,308	3/4	2,573	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	76,109	3	61,076	3	46,049	3	31,016	3	15,998	3	2,311	3	3	3	3	3	3	3	3
1/4	75,795	1/4	60,763	1/4	45,736	1/4	30,703	1/4	15,690	1/4	2,055	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,482	1/2	60,450	1/2	45,423	1/2	30,390	1/2	15,383	1/2	1,810	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,169	3/4	60,137	3/4	45,109	3/4	30,076	3/4	15,078	3/4	1,571	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	74,856	4	59,824	4	44,796	4	29,763	4	14,773	4	1,332	4	4	4	4	4	4	4	4
1/4	74,543	1/4	59,511	1/4	44,483	1/4	29,450	1/4	14,468	1/4	1,109	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,229	1/2	59,198	1/2	44,170	1/2	29,137	1/2	14,165	1/2	916	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,916	3/4	58,885	3/4	43,857	3/4	28,824	3/4	13,864	3/4	739	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	73,603	5	58,572	5	43,544	5	28,510	5	13,562	5	562	5	5	5	5	5	5	5	5
1/4	73,290	1/4	58,259	1/4	43,230	1/4	28,197	1/4	13,262	1/4	474	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,977	1/2	57,946	1/2	42,917	1/2	27,884	1/2	12,963	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,663	3/4	57,633	3/4	42,604	3/4	27,571	3/4	12,665	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	72,350	6	57,320	6	42,291	6	27,258	6	12,367	6		6	6	6	6	6	6	6	6
1/4	72,037	1/4	57,007	1/4	41,978	1/4	26,944	1/4	12,070	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,724	1/2	56,694	1/2	41,664	1/2	26,631	1/2	11,776	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,411	3/4	56,381	3/4	41,351	3/4	26,318	3/4	11,482	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	71,097	7	56,068	7	41,038	7	26,005	7	11,188	7		7	7	7	7	7	7	7	7
1/4	70,784	1/4	55,755	1/4	40,725	1/4	25,692	1/4	10,895	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,471	1/2	55,442	1/2	40,412	1/2	25,379	1/2	10,604	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,158	3/4	55,129	3/4	40,098	3/4	25,065	3/4	10,314	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	69,845	8	54,816	8	39,785	8	24,752	8	10,024	8		8	8	8	8	8	8	8	8
1/4	69,531	1/4	54,503	1/4	39,472	1/4	24,439	1/4	9,735	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,218	1/2	54,190	1/2	39,159	1/2	24,126	1/2	9,447	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,905	3/4	53,877	3/4	38,846	3/4	23,813	3/4	9,161	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	68,592	9	53,564	9	38,532	9	23,499	9	8,875	9		9	9	9	9	9	9	9	9
1/4	68,279	1/4	53,251	1/4	38,219	1/4	23,186	1/4	8,590	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,965	1/2	52,938	1/2	37,906	1/2	22,873	1/2	8,306	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,652	3/4	52,625	3/4	37,593	3/4	22,560	3/4	8,024	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	67,339	10	52,312	10	37,280	10	22,247	10	7,742	10		10	10	10	10	10	10	10	10
1/4	67,026	1/4	51,999	1/4	36,967	1/4	21,933	1/4	7,460	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,713	1/2	51,686	1/2	36,653	1/2	21,620	1/2	7,181	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,399	3/4	51,373	3/4	36,340	3/4	21,307	3/4	6,902	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	66,086	11	51,060	11	36,027	11	20,994	11	6,624	11		11	11	11	11	11	11	11	11
1/4	65,773	1/4	50,747	1/4	35,714	1/4	20,681	1/4	6,346	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,460	1/2	50,434	1/2	35,401	1/2	20,368	1/2	6,071	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,147	3/4	50,120	3/4	35,087	3/4	20,054	3/4	5,796	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: 09/23/2019 CL
CALCULATED: 09/24/2019 CL
REPRINTED: 10/10/2019 SW

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2019



BARGE "HSM 3020"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	202,008	0	186,986	0	171,943	0	156,868	0	141,792	0	126,716	0	111,641	0	96,559
1/4	1/4	1/4	1/4	1/4	201,696	1/4	186,673	1/4	171,629	1/4	156,553	1/4	141,478	1/4	126,402	1/4	111,327	1/4	96,245
1/2	1/2	1/2	1/2	1/2	201,384	1/2	186,360	1/2	171,315	1/2	156,239	1/2	141,164	1/2	126,088	1/2	111,013	1/2	95,930
3/4	3/4	3/4	3/4	3/4	201,071	3/4	186,047	3/4	171,001	3/4	155,925	3/4	140,850	3/4	125,774	3/4	110,699	3/4	95,616
1	1	1	1	1	200,758	1	185,733	1	170,687	1	155,611	1	140,536	1	125,460	1	110,385	1	95,302
1/4	1/4	1/4	1/4	1/4	200,445	1/4	185,420	1/4	170,373	1/4	155,297	1/4	140,222	1/4	125,146	1/4	110,071	1/4	94,988
1/2	1/2	1/2	1/2	1/2	200,132	1/2	185,107	1/2	170,059	1/2	154,983	1/2	139,908	1/2	124,832	1/2	109,756	1/2	94,674
3/4	3/4	3/4	3/4	3/4	199,819	3/4	184,794	3/4	169,745	3/4	154,669	3/4	139,593	3/4	124,518	3/4	109,442	3/4	94,359
2	2	2	2	2	199,506	2	184,481	2	169,430	2	154,355	2	139,279	2	124,204	2	109,128	2	94,045
1/4	1/4	1/4	1/4	1/4	213,127	1/4	199,193	1/4	184,168	1/4	169,116	1/4	154,041	1/4	138,965	1/4	123,890	1/4	108,814
1/2	1/2	1/2	1/2	1/2	212,948	1/2	198,880	1/2	183,855	1/2	168,802	1/2	153,727	1/2	138,651	1/2	123,576	1/2	108,500
3/4	3/4	3/4	3/4	3/4	212,769	3/4	198,567	3/4	183,542	3/4	168,488	3/4	153,413	3/4	138,337	3/4	123,262	3/4	108,185
3	3	3	3	3	212,590	3	198,254	3	183,229	3	168,174	3	153,099	3	138,023	3	122,948	3	107,871
1/4	1/4	1/4	1/4	1/4	212,397	1/4	197,941	1/4	182,916	1/4	167,860	1/4	152,785	1/4	137,709	1/4	122,633	1/4	107,557
1/2	1/2	1/2	1/2	1/2	212,179	1/2	197,628	1/2	182,603	1/2	167,546	1/2	152,470	1/2	137,395	1/2	122,319	1/2	107,243
3/4	3/4	3/4	3/4	3/4	211,947	3/4	197,315	3/4	182,290	3/4	167,232	3/4	152,156	3/4	137,081	3/4	122,005	3/4	106,929
4	4	4	4	4	211,716	4	197,002	4	181,977	4	166,918	4	151,842	4	136,767	4	121,691	4	106,614
1/4	1/4	1/4	1/4	1/4	211,472	1/4	196,689	1/4	181,664	1/4	166,604	1/4	151,528	1/4	136,453	1/4	121,377	1/4	106,300
1/2	1/2	1/2	1/2	1/2	211,204	1/2	196,376	1/2	181,351	1/2	166,290	1/2	151,214	1/2	136,139	1/2	121,063	1/2	105,986
3/4	3/4	3/4	3/4	3/4	210,924	3/4	196,063	3/4	181,038	3/4	165,976	3/4	150,900	3/4	135,825	3/4	120,749	3/4	105,672
5	5	5	5	5	210,644	5	195,750	5	180,725	5	165,662	5	150,586	5	135,511	5	120,435	5	105,357
1/4	1/4	1/4	1/4	1/4	210,358	1/4	195,437	1/4	180,412	1/4	165,347	1/4	150,272	1/4	135,196	1/4	120,121	1/4	105,043
1/2	1/2	1/2	1/2	1/2	210,058	1/2	195,124	1/2	180,099	1/2	165,033	1/2	149,958	1/2	134,882	1/2	119,807	1/2	104,729
3/4	3/4	3/4	3/4	3/4	209,752	3/4	194,811	3/4	179,786	3/4	164,719	3/4	149,644	3/4	134,568	3/4	119,493	3/4	104,415
6	6	6	6	6	209,447	6	194,498	6	179,473	6	164,405	6	149,330	6	134,254	6	119,179	6	104,100
1/4	1/4	1/4	1/4	1/4	209,140	1/4	194,185	1/4	179,160	1/4	164,091	1/4	149,016	1/4	133,940	1/4	118,865	1/4	103,786
1/2	1/2	1/2	1/2	1/2	208,831	1/2	193,872	1/2	178,847	1/2	163,777	1/2	148,702	1/2	133,626	1/2	118,551	1/2	103,472
3/4	3/4	3/4	3/4	3/4	208,522	3/4	193,559	3/4	178,534	3/4	163,463	3/4	148,388	3/4	133,312	3/4	118,236	3/4	103,158
7	7	7	7	7	208,212	7	193,246	7	178,221	7	163,149	7	148,073	7	132,998	7	117,922	7	102,844
1/4	1/4	1/4	1/4	1/4	207,902	1/4	192,933	1/4	177,908	1/4	162,835	1/4	147,759	1/4	132,684	1/4	117,608	1/4	102,529
1/2	1/2	1/2	1/2	1/2	207,592	1/2	192,620	1/2	177,595	1/2	162,521	1/2	147,445	1/2	132,370	1/2	117,294	1/2	102,215
3/4	3/4	3/4	3/4	3/4	207,282	3/4	192,307	3/4	177,281	3/4	162,207	3/4	147,131	3/4	132,056	3/4	116,980	3/4	101,901
8	8	8	8	8	206,973	8	191,994	8	176,968	8	161,893	8	146,817	8	131,742	8	116,666	8	101,587
1/4	1/4	1/4	1/4	1/4	206,663	1/4	191,681	1/4	176,654	1/4	161,579	1/4	146,503	1/4	131,428	1/4	116,352	1/4	101,272
1/2	1/2	1/2	1/2	1/2	206,352	1/2	191,368	1/2	176,340	1/2	161,265	1/2	146,189	1/2	131,113	1/2	116,038	1/2	100,958
3/4	3/4	3/4	3/4	3/4	206,042	3/4	191,055	3/4	176,026	3/4	160,950	3/4	145,875	3/4	130,799	3/4	115,724	3/4	100,644
9	9	9	9	9	205,732	9	190,742	9	175,712	9	160,636	9	145,561	9	130,485	9	115,410	9	100,330
1/4	1/4	1/4	1/4	1/4	205,422	1/4	190,429	1/4	175,398	1/4	160,322	1/4	145,247	1/4	130,171	1/4	115,096	1/4	100,015
1/2	1/2	1/2	1/2	1/2	205,112	1/2	190,116	1/2	175,084	1/2	160,008	1/2	144,933	1/2	129,857	1/2	114,782	1/2	99,701
3/4	3/4	3/4	3/4	3/4	204,802	3/4	189,803	3/4	174,770	3/4	159,694	3/4	144,619	3/4	129,543	3/4	114,468	3/4	99,387
10	10	10	10	10	204,492	10	189,490	10	174,456	10	159,380	10	144,305	10	129,229	10	114,154	10	99,073
1/4	1/4	1/4	1/4	1/4	204,182	1/4	189,177	1/4	174,142	1/4	159,066	1/4	143,990	1/4	128,915	1/4	113,839	1/4	98,759
1/2	1/2	1/2	1/2	1/2	203,872	1/2	188,864	1/2	173,827	1/2	158,752	1/2	143,676	1/2	128,601	1/2	113,525	1/2	98,444
3/4	3/4	3/4	3/4	3/4	203,563	3/4	188,551	3/4	173,513	3/4	158,438	3/4	143,362	3/4	128,287	3/4	113,211	3/4	98,130
11	11	11	11	11	203,253	11	188,238	11	173,199	11	158,124	11	143,048	11	127,973	11	112,897	11	97,816
1/4	1/4	1/4	1/4	1/4	202,942	1/4	187,925	1/4	172,885	1/4	157,810	1/4	142,734	1/4	127,659	1/4	112,583	1/4	97,502
1/2	1/2	1/2	1/2	1/2	202,631	1/2	187,612	1/2	172,571	1/2	157,496	1/2	142,420	1/2	127,345	1/2	112,269	1/2	97,187
3/4	3/4	3/4	3/4	3/4	202,320	3/4	187,299	3/4	172,257	3/4	157,182	3/4	142,106	3/4	127,031	3/4	111,955	3/4	96,873

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 3020"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	81,476	0	66,393	0	51,840	0	37,358	0	22,313	0	7,230	0		0		0		0	
1/4	81,162	1/4	66,080	1/4	51,537	1/4	37,054	1/4	21,999	1/4	6,916	1/4		1/4		1/4		1/4	
1/2	80,847	1/2	65,770	1/2	51,235	1/2	36,747	1/2	21,684	1/2	6,602	1/2		1/2		1/2		1/2	
3/4	80,533	3/4	65,462	3/4	50,933	3/4	36,439	3/4	21,370	3/4	6,288	3/4		3/4		3/4		3/4	
1	80,219	1	65,153	1	50,631	1	36,130	1	21,056	1	5,973	1		1		1		1	
1/4	79,905	1/4	64,847	1/4	50,329	1/4	35,821	1/4	20,742	1/4	5,659	1/4		1/4		1/4		1/4	
1/2	79,590	1/2	64,543	1/2	50,027	1/2	35,508	1/2	20,428	1/2	5,345	1/2		1/2		1/2		1/2	
3/4	79,276	3/4	64,240	3/4	49,725	3/4	35,194	3/4	20,113	3/4	5,031	3/4		3/4		3/4		3/4	
2	78,962	2	63,938	2	49,424	2	34,879	2	19,799	2	4,717	2		2		2		2	
1/4	78,648	1/4	63,635	1/4	49,122	1/4	34,565	1/4	19,485	1/4	4,403	1/4		1/4		1/4		1/4	
1/2	78,334	1/2	63,333	1/2	48,820	1/2	34,251	1/2	19,171	1/2	4,090	1/2		1/2		1/2		1/2	
3/4	78,019	3/4	63,030	3/4	48,519	3/4	33,937	3/4	18,856	3/4	3,777	3/4		3/4		3/4		3/4	
3	77,705	3	62,728	3	48,217	3	33,623	3	18,542	3	3,464	3		3		3		3	
1/4	77,391	1/4	62,426	1/4	47,915	1/4	33,308	1/4	18,228	1/4	3,155	1/4		1/4		1/4		1/4	
1/2	77,077	1/2	62,123	1/2	47,614	1/2	32,994	1/2	17,914	1/2	2,857	1/2		1/2		1/2		1/2	
3/4	76,762	3/4	61,821	3/4	47,312	3/4	32,680	3/4	17,600	3/4	2,563	3/4		3/4		3/4		3/4	
4	76,448	4	61,518	4	47,011	4	32,366	4	17,285	4	2,269	4		4		4		4	
1/4	76,134	1/4	61,216	1/4	46,709	1/4	32,051	1/4	16,971	1/4	1,990	1/4		1/4		1/4		1/4	
1/2	75,820	1/2	60,913	1/2	46,408	1/2	31,737	1/2	16,657	1/2	1,740	1/2		1/2		1/2		1/2	
3/4	75,505	3/4	60,611	3/4	46,106	3/4	31,423	3/4	16,343	3/4	1,504	3/4		3/4		3/4		3/4	
5	75,191	5	60,308	5	45,805	5	31,109	5	16,028	5	1,268	5		5		5		5	
1/4	74,877	1/4	60,006	1/4	45,503	1/4	30,795	1/4	15,714	1/4	1,151	1/4		1/4		1/4		1/4	
1/2	74,563	1/2	59,703	1/2	45,202	1/2	30,480	1/2	15,400	1/2		1/2		1/2		1/2		1/2	
3/4	74,249	3/4	59,401	3/4	44,900	3/4	30,166	3/4	15,086	3/4		3/4		3/4		3/4		3/4	
6	73,934	6	59,099	6	44,599	6	29,852	6	14,772	6		6		6		6		6	
1/4	73,620	1/4	58,796	1/4	44,297	1/4	29,538	1/4	14,457	1/4		1/4		1/4		1/4		1/4	
1/2	73,306	1/2	58,494	1/2	43,996	1/2	29,224	1/2	14,143	1/2		1/2		1/2		1/2		1/2	
3/4	72,992	3/4	58,191	3/4	43,694	3/4	28,910	3/4	13,829	3/4		3/4		3/4		3/4		3/4	
7	72,677	7	57,889	7	43,393	7	28,596	7	13,515	7		7		7		7		7	
1/4	72,363	1/4	57,586	1/4	43,091	1/4	28,282	1/4	13,200	1/4		1/4		1/4		1/4		1/4	
1/2	72,049	1/2	57,284	1/2	42,790	1/2	27,968	1/2	12,886	1/2		1/2		1/2		1/2		1/2	
3/4	71,735	3/4	56,981	3/4	42,488	3/4	27,654	3/4	12,572	3/4		3/4		3/4		3/4		3/4	
8	71,420	8	56,679	8	42,187	8	27,340	8	12,258	8		8		8		8		8	
1/4	71,106	1/4	56,377	1/4	41,885	1/4	27,026	1/4	11,944	1/4		1/4		1/4		1/4		1/4	
1/2	70,792	1/2	56,074	1/2	41,584	1/2	26,712	1/2	11,629	1/2		1/2		1/2		1/2		1/2	
3/4	70,478	3/4	55,772	3/4	41,282	3/4	26,398	3/4	11,315	3/4		3/4		3/4		3/4		3/4	
9	70,164	9	55,469	9	40,981	9	26,083	9	11,001	9		9		9		9		9	
1/4	69,849	1/4	55,167	1/4	40,679	1/4	25,769	1/4	10,687	1/4		1/4		1/4		1/4		1/4	
1/2	69,535	1/2	54,864	1/2	40,378	1/2	25,455	1/2	10,372	1/2		1/2		1/2		1/2		1/2	
3/4	69,221	3/4	54,562	3/4	40,076	3/4	25,141	3/4	10,058	3/4		3/4		3/4		3/4		3/4	
10	68,907	10	54,259	10	39,775	10	24,827	10	9,744	10		10		10		10		10	
1/4	68,592	1/4	53,957	1/4	39,473	1/4	24,512	1/4	9,430	1/4		1/4		1/4		1/4		1/4	
1/2	68,278	1/2	53,654	1/2	39,171	1/2	24,198	1/2	9,116	1/2		1/2		1/2		1/2		1/2	
3/4	67,964	3/4	53,352	3/4	38,869	3/4	23,884	3/4	8,801	3/4		3/4		3/4		3/4		3/4	
11	67,650	11	53,050	11	38,567	11	23,570	11	8,487	11		11		11		11		11	
1/4	67,335	1/4	52,747	1/4	38,265	1/4	23,256	1/4	8,173	1/4		1/4		1/4		1/4		1/4	
1/2	67,021	1/2	52,445	1/2	37,963	1/2	22,941	1/2	7,859	1/2		1/2		1/2		1/2		1/2	
3/4	66,707	3/4	52,142	3/4	37,660	3/4	22,627	3/4	7,544	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2019 CL
CALCULATED: 09/24/2019 CL
REPRINTED: 10/10/2019 SW

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 3020"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	203,141	0	188,118	0	173,076	0	158,000	0	142,925	0	127,849	0	112,774	0	97,692		
1/4		1/4		1/4	202,829	1/4	187,805	1/4	172,762	1/4	157,686	1/4	142,611	1/4	127,535	1/4	112,460	1/4	97,378		
1/2		1/2		1/2	202,517	1/2	187,492	1/2	172,448	1/2	157,372	1/2	142,297	1/2	127,221	1/2	112,146	1/2	97,063		
3/4		3/4		3/4	202,204	3/4	187,179	3/4	172,134	3/4	157,058	3/4	141,983	3/4	126,907	3/4	111,832	3/4	96,749		
1		1		1	201,891	1	186,866	1	171,820	1	156,744	1	141,669	1	126,593	1	111,517	1	96,435		
1/4		1/4		1/4	201,578	1/4	186,553	1/4	171,506	1/4	156,430	1/4	141,354	1/4	126,279	1/4	111,203	1/4	96,121		
1/2		1/2		1/2	201,265	1/2	186,240	1/2	171,191	1/2	156,116	1/2	141,040	1/2	125,965	1/2	110,889	1/2	95,806		
3/4		3/4		3/4	200,952	3/4	185,927	3/4	170,877	3/4	155,802	3/4	140,726	3/4	125,651	3/4	110,575	3/4	95,492		
2		2		2	200,639	2	185,614	2	170,563	2	155,488	2	140,412	2	125,337	2	110,261	2	95,178		
1/4		1/4		1/4	214,260	1/4	200,326	1/4	185,301	1/4	170,249	1/4	155,174	1/4	140,098	1/4	125,023	1/4	109,947	1/4	94,864
1/2		1/2		1/2	214,081	1/2	200,013	1/2	184,988	1/2	169,935	1/2	154,860	1/2	139,784	1/2	124,709	1/2	109,633	1/2	94,549
3/4		3/4		3/4	213,902	3/4	199,700	3/4	184,675	3/4	169,621	3/4	154,546	3/4	139,470	3/4	124,394	3/4	109,318	3/4	94,235
3		3		3	213,723	3	199,387	3	184,362	3	169,307	3	154,231	3	139,156	3	124,080	3	109,004	3	93,921
1/4		1/4		1/4	213,530	1/4	199,074	1/4	184,049	1/4	168,993	1/4	153,917	1/4	138,842	1/4	123,766	1/4	108,690	1/4	93,607
1/2		1/2		1/2	213,312	1/2	198,761	1/2	183,736	1/2	168,679	1/2	153,603	1/2	138,528	1/2	123,452	1/2	108,376	1/2	93,293
3/4		3/4		3/4	213,080	3/4	198,448	3/4	183,423	3/4	168,365	3/4	153,289	3/4	138,214	3/4	123,138	3/4	108,061	3/4	92,978
4		4		4	212,849	4	198,135	4	183,110	4	168,051	4	152,975	4	137,900	4	122,824	4	107,747	4	92,664
1/4		1/4		1/4	212,605	1/4	197,822	1/4	182,797	1/4	167,737	1/4	152,661	1/4	137,586	1/4	122,510	1/4	107,433	1/4	92,350
1/2		1/2		1/2	212,337	1/2	197,509	1/2	182,484	1/2	167,423	1/2	152,347	1/2	137,271	1/2	122,196	1/2	107,119	1/2	92,036
3/4		3/4		3/4	212,057	3/4	197,196	3/4	182,171	3/4	167,108	3/4	152,033	3/4	136,957	3/4	121,882	3/4	106,804	3/4	91,721
5		5		5	211,777	5	196,883	5	181,858	5	166,794	5	151,719	5	136,643	5	121,568	5	106,490	5	91,407
1/4		1/4		1/4	211,491	1/4	196,570	1/4	181,545	1/4	166,480	1/4	151,405	1/4	136,329	1/4	121,254	1/4	106,176	1/4	91,093
1/2		1/2		1/2	211,191	1/2	196,257	1/2	181,232	1/2	166,166	1/2	151,091	1/2	136,015	1/2	120,940	1/2	105,862	1/2	90,779
3/4		3/4		3/4	210,885	3/4	195,944	3/4	180,919	3/4	165,852	3/4	150,777	3/4	135,701	3/4	120,626	3/4	105,548	3/4	90,464
6		6		6	210,579	6	195,631	6	180,606	6	165,538	6	150,463	6	135,387	6	120,312	6	105,233	6	90,150
1/4		1/4		1/4	210,273	1/4	195,318	1/4	180,293	1/4	165,224	1/4	150,149	1/4	135,073	1/4	119,997	1/4	104,919	1/4	89,836
1/2		1/2		1/2	209,964	1/2	195,005	1/2	179,980	1/2	164,910	1/2	149,834	1/2	134,759	1/2	119,683	1/2	104,605	1/2	89,522
3/4		3/4		3/4	209,654	3/4	194,692	3/4	179,667	3/4	164,596	3/4	149,520	3/4	134,445	3/4	119,369	3/4	104,291	3/4	89,208
7		7		7	209,345	7	194,379	7	179,354	7	164,282	7	149,206	7	134,131	7	119,055	7	103,976	7	88,893
1/4		1/4		1/4	209,035	1/4	194,066	1/4	179,041	1/4	163,968	1/4	148,892	1/4	133,817	1/4	118,741	1/4	103,662	1/4	88,579
1/2		1/2		1/2	208,725	1/2	193,753	1/2	178,728	1/2	163,654	1/2	148,578	1/2	133,503	1/2	118,427	1/2	103,348	1/2	88,265
3/4		3/4		3/4	208,415	3/4	193,440	3/4	178,414	3/4	163,340	3/4	148,264	3/4	133,189	3/4	118,113	3/4	103,034	3/4	87,951
8		8		8	208,105	8	193,127	8	178,101	8	163,026	8	147,950	8	132,874	8	117,799	8	102,719	8	87,636
1/4		1/4		1/4	207,795	1/4	192,814	1/4	177,787	1/4	162,711	1/4	147,636	1/4	132,560	1/4	117,485	1/4	102,405	1/4	87,322
1/2		1/2		1/2	207,485	1/2	192,500	1/2	177,473	1/2	162,397	1/2	147,322	1/2	132,246	1/2	117,171	1/2	102,091	1/2	87,008
3/4		3/4		3/4	207,175	3/4	192,187	3/4	177,159	3/4	162,083	3/4	147,008	3/4	131,932	3/4	116,857	3/4	101,777	3/4	86,694
9		9		9	206,865	9	191,874	9	176,845	9	161,769	9	146,694	9	131,618	9	116,543	9	101,463	9	86,379
1/4		1/4		1/4	206,555	1/4	191,561	1/4	176,531	1/4	161,455	1/4	146,380	1/4	131,304	1/4	116,229	1/4	101,148	1/4	86,065
1/2		1/2		1/2	206,245	1/2	191,248	1/2	176,217	1/2	161,141	1/2	146,066	1/2	130,990	1/2	115,914	1/2	100,834	1/2	85,751
3/4		3/4		3/4	205,935	3/4	190,935	3/4	175,903	3/4	160,827	3/4	145,751	3/4	130,676	3/4	115,600	3/4	100,520	3/4	85,437
10		10		10	205,625	10	190,622	10	175,588	10	160,513	10	145,437	10	130,362	10	115,286	10	100,206	10	85,123
1/4		1/4		1/4	205,315	1/4	190,309	1/4	175,274	1/4	160,199	1/4	145,123	1/4	130,048	1/4	114,972	1/4	99,891	1/4	84,808
1/2		1/2		1/2	205,005	1/2	189,996	1/2	174,960	1/2	159,885	1/2	144,809	1/2	129,734	1/2	114,658	1/2	99,577	1/2	84,494
3/4		3/4		3/4	204,695	3/4	189,683	3/4	174,646	3/4	159,571	3/4	144,495	3/4	129,420	3/4	114,344	3/4	99,263	3/4	84,180
11		11		11	204,386	11	189,370	11	174,332	11	159,257	11	144,181	11	129,106	11	114,030	11	98,949	11	83,866
1/4		1/4		1/4	204,075	1/4	189,057	1/4	174,018	1/4	158,943	1/4	143,867	1/4	128,792	1/4	113,716	1/4	98,634	1/4	83,551
1/2		1/2		1/2	203,764	1/2	188,744	1/2	173,704	1/2	158,628	1/2	143,553	1/2	128,477	1/2	113,402	1/2	98,320	1/2	83,237
3/4		3/4		3/4	203,453	3/4	188,431	3/4	173,390	3/4	158,314	3/4	143,239	3/4	128,163	3/4	113,088	3/4	98,006	3/4	82,923

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

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 3020"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	82,609	0	67,526	0	52,442	0	37,395	0	22,314	0	7,231	0		0		0		0	
1/4	82,294	1/4	67,211	1/4	52,128	1/4	37,081	1/4	22,000	1/4	6,917	1/4		1/4		1/4		1/4	
1/2	81,980	1/2	66,897	1/2	51,814	1/2	36,766	1/2	21,686	1/2	6,603	1/2		1/2		1/2		1/2	
3/4	81,666	3/4	66,583	3/4	51,500	3/4	36,452	3/4	21,371	3/4	6,288	3/4		3/4		3/4		3/4	
1	81,352	1	66,269	1	51,187	1	36,138	1	21,057	1	5,974	1		1		1		1	
1/4	81,037	1/4	65,954	1/4	50,873	1/4	35,824	1/4	20,743	1/4	5,660	1/4		1/4		1/4		1/4	
1/2	80,723	1/2	65,640	1/2	50,559	1/2	35,509	1/2	20,429	1/2	5,346	1/2		1/2		1/2		1/2	
3/4	80,409	3/4	65,326	3/4	50,246	3/4	35,195	3/4	20,114	3/4	5,032	3/4		3/4		3/4		3/4	
2	80,095	2	65,012	2	49,932	2	34,881	2	19,800	2	4,718	2		2		2		2	
1/4	79,781	1/4	64,697	1/4	49,619	1/4	34,567	1/4	19,486	1/4	4,404	1/4		1/4		1/4		1/4	
1/2	79,466	1/2	64,383	1/2	49,305	1/2	34,252	1/2	19,172	1/2	4,091	1/2		1/2		1/2		1/2	
3/4	79,152	3/4	64,069	3/4	48,992	3/4	33,938	3/4	18,857	3/4	3,778	3/4		3/4		3/4		3/4	
3	78,838	3	63,755	3	48,678	3	33,624	3	18,543	3	3,464	3		3		3		3	
1/4	78,524	1/4	63,441	1/4	48,365	1/4	33,310	1/4	18,229	1/4	3,156	1/4		1/4		1/4		1/4	
1/2	78,209	1/2	63,126	1/2	48,052	1/2	32,996	1/2	17,915	1/2	2,857	1/2		1/2		1/2		1/2	
3/4	77,895	3/4	62,812	3/4	47,738	3/4	32,681	3/4	17,601	3/4	2,563	3/4		3/4		3/4		3/4	
4	77,581	4	62,498	4	47,425	4	32,367	4	17,286	4	2,270	4		4		4		4	
1/4	77,267	1/4	62,184	1/4	47,112	1/4	32,053	1/4	16,972	1/4	1,990	1/4		1/4		1/4		1/4	
1/2	76,952	1/2	61,869	1/2	46,798	1/2	31,739	1/2	16,658	1/2	1,740	1/2		1/2		1/2		1/2	
3/4	76,638	3/4	61,555	3/4	46,485	3/4	31,424	3/4	16,344	3/4	1,505	3/4		3/4		3/4		3/4	
5	76,324	5	61,241	5	46,172	5	31,110	5	16,029	5	1,269	5		5		5		5	
1/4	76,010	1/4	60,927	1/4	45,859	1/4	30,796	1/4	15,715	1/4	1,151	1/4		1/4		1/4		1/4	
1/2	75,696	1/2	60,612	1/2	45,545	1/2	30,482	1/2	15,401	1/2		1/2		1/2		1/2		1/2	
3/4	75,381	3/4	60,298	3/4	45,232	3/4	30,168	3/4	15,087	3/4		3/4		3/4		3/4		3/4	
6	75,067	6	59,984	6	44,919	6	29,853	6	14,773	6		6		6		6		6	
1/4	74,753	1/4	59,670	1/4	44,605	1/4	29,539	1/4	14,458	1/4		1/4		1/4		1/4		1/4	
1/2	74,439	1/2	59,356	1/2	44,292	1/2	29,225	1/2	14,144	1/2		1/2		1/2		1/2		1/2	
3/4	74,124	3/4	59,041	3/4	43,979	3/4	28,911	3/4	13,830	3/4		3/4		3/4		3/4		3/4	
7	73,810	7	58,727	7	43,665	7	28,597	7	13,516	7		7		7		7		7	
1/4	73,496	1/4	58,413	1/4	43,352	1/4	28,283	1/4	13,201	1/4		1/4		1/4		1/4		1/4	
1/2	73,182	1/2	58,099	1/2	43,039	1/2	27,969	1/2	12,887	1/2		1/2		1/2		1/2		1/2	
3/4	72,867	3/4	57,784	3/4	42,726	3/4	27,655	3/4	12,573	3/4		3/4		3/4		3/4		3/4	
8	72,553	8	57,470	8	42,412	8	27,341	8	12,259	8		8		8		8		8	
1/4	72,239	1/4	57,156	1/4	42,099	1/4	27,027	1/4	11,944	1/4		1/4		1/4		1/4		1/4	
1/2	71,925	1/2	56,842	1/2	41,786	1/2	26,713	1/2	11,630	1/2		1/2		1/2		1/2		1/2	
3/4	71,611	3/4	56,527	3/4	41,472	3/4	26,399	3/4	11,316	3/4		3/4		3/4		3/4		3/4	
9	71,296	9	56,213	9	41,159	9	26,085	9	11,002	9		9		9		9		9	
1/4	70,982	1/4	55,899	1/4	40,846	1/4	25,771	1/4	10,688	1/4		1/4		1/4		1/4		1/4	
1/2	70,668	1/2	55,585	1/2	40,532	1/2	25,456	1/2	10,373	1/2		1/2		1/2		1/2		1/2	
3/4	70,354	3/4	55,271	3/4	40,219	3/4	25,142	3/4	10,059	3/4		3/4		3/4		3/4		3/4	
10	70,039	10	54,956	10	39,906	10	24,828	10	9,745	10		10		10		10		10	
1/4	69,725	1/4	54,642	1/4	39,592	1/4	24,514	1/4	9,431	1/4		1/4		1/4		1/4		1/4	
1/2	69,411	1/2	54,328	1/2	39,279	1/2	24,199	1/2	9,116	1/2		1/2		1/2		1/2		1/2	
3/4	69,097	3/4	54,014	3/4	38,965	3/4	23,885	3/4	8,802	3/4		3/4		3/4		3/4		3/4	
11	68,782	11	53,699	11	38,651	11	23,571	11	8,488	11		11		11		11		11	
1/4	68,468	1/4	53,385	1/4	38,337	1/4	23,257	1/4	8,174	1/4		1/4		1/4		1/4		1/4	
1/2	68,154	1/2	53,071	1/2	38,023	1/2	22,942	1/2	7,859	1/2		1/2		1/2		1/2		1/2	
3/4	67,840	3/4	52,757	3/4	37,709	3/4	22,628	3/4	7,545	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2019 CL
CALCULATED: 09/24/2019 CL
REPRINTED: 10/10/2019 SW

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 3020"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 7/8"

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	184,158	0	173,822	0	163,472	0	153,099	0	141,027	0	126,056	0	111,084	0	96,099
1/4		1/4		1/4	183,942	1/4	173,606	1/4	163,256	1/4	152,883	1/4	140,716	1/4	125,744	1/4	110,773	1/4	95,787
1/2		1/2		1/2	183,727	1/2	173,391	1/2	163,039	1/2	152,667	1/2	140,404	1/2	125,432	1/2	110,461	1/2	95,475
3/4		3/4		3/4	183,512	3/4	173,176	3/4	162,823	3/4	152,451	3/4	140,092	3/4	125,120	3/4	110,149	3/4	95,163
1		1		1	183,296	1	172,960	1	162,607	1	152,235	1	139,780	1	124,808	1	109,837	1	94,851
1/4		1/4		1/4	183,081	1/4	172,745	1/4	162,391	1/4	152,018	1/4	139,468	1/4	124,497	1/4	109,525	1/4	94,539
1/2		1/2		1/2	182,866	1/2	172,530	1/2	162,175	1/2	151,802	1/2	139,156	1/2	124,185	1/2	109,213	1/2	94,227
3/4		3/4		3/4	182,650	3/4	172,314	3/4	161,959	3/4	151,586	3/4	138,844	3/4	123,873	3/4	108,901	3/4	93,915
2		2		2	192,079	2	182,435	2	172,099	2	161,743	2	151,370	2	138,533	2	123,561	2	93,603
1/4		1/4		1/4	191,955	1/4	182,220	1/4	171,884	1/4	161,527	1/4	138,221	1/4	123,249	1/4	108,277	1/4	93,291
1/2		1/2		1/2	191,832	1/2	182,004	1/2	171,668	1/2	161,311	1/2	137,909	1/2	122,937	1/2	107,965	1/2	92,978
3/4		3/4		3/4	191,708	3/4	181,789	3/4	171,453	3/4	161,095	3/4	137,597	3/4	122,625	3/4	107,653	3/4	92,666
3		3		3	191,575	3	181,574	3	171,238	3	160,879	3	137,285	3	122,313	3	107,341	3	92,354
1/4		1/4		1/4	191,425	1/4	181,358	1/4	171,022	1/4	160,662	1/4	136,973	1/4	122,001	1/4	107,029	1/4	92,042
1/2		1/2		1/2	191,265	1/2	181,143	1/2	170,807	1/2	160,446	1/2	136,661	1/2	121,689	1/2	106,716	1/2	91,730
3/4		3/4		3/4	191,105	3/4	180,928	3/4	170,592	3/4	160,230	3/4	136,349	3/4	121,377	3/4	106,404	3/4	91,418
4		4		4	190,937	4	180,712	4	170,376	4	160,014	4	149,641	4	121,066	4	106,092	4	91,106
1/4		1/4		1/4	190,752	1/4	180,497	1/4	170,161	1/4	159,798	1/4	149,422	1/4	120,754	1/4	105,780	1/4	90,794
1/2		1/2		1/2	190,559	1/2	180,282	1/2	169,946	1/2	159,582	1/2	149,202	1/2	120,442	1/2	105,467	1/2	90,482
3/4		3/4		3/4	190,366	3/4	180,066	3/4	169,730	3/4	159,366	3/4	148,983	3/4	120,130	3/4	105,155	3/4	90,170
5		5		5	190,168	5	179,851	5	169,515	5	159,150	5	148,760	5	134,790	5	104,843	5	89,858
1/4		1/4		1/4	189,961	1/4	179,636	1/4	169,299	1/4	158,934	1/4	148,532	1/4	134,478	1/4	104,530	1/4	89,546
1/2		1/2		1/2	189,749	1/2	179,420	1/2	169,084	1/2	158,718	1/2	148,301	1/2	134,166	1/2	104,218	1/2	89,234
3/4		3/4		3/4	189,538	3/4	179,205	3/4	168,869	3/4	158,501	3/4	148,069	3/4	133,854	3/4	103,906	3/4	88,921
6		6		6	189,325	6	178,990	6	168,653	6	158,285	6	147,834	6	133,542	6	103,594	6	88,609
1/4		1/4		1/4	189,111	1/4	178,774	1/4	168,438	1/4	158,069	1/4	147,591	1/4	133,230	1/4	103,281	1/4	88,297
1/2		1/2		1/2	188,896	1/2	178,559	1/2	168,223	1/2	157,853	1/2	147,344	1/2	132,918	1/2	102,969	1/2	87,985
3/4		3/4		3/4	188,681	3/4	178,344	3/4	168,007	3/4	157,637	3/4	147,096	3/4	132,606	3/4	102,657	3/4	87,673
7		7		7	188,465	7	178,128	7	167,792	7	157,421	7	146,845	7	132,294	7	102,344	7	87,360
1/4		1/4		1/4	188,250	1/4	177,913	1/4	167,576	1/4	157,205	1/4	146,586	1/4	131,982	1/4	102,032	1/4	87,048
1/2		1/2		1/2	188,035	1/2	177,698	1/2	167,361	1/2	156,989	1/2	146,323	1/2	131,670	1/2	101,720	1/2	86,736
3/4		3/4		3/4	187,819	3/4	177,482	3/4	167,145	3/4	156,773	3/4	146,060	3/4	131,359	3/4	101,407	3/4	86,423
8		8		8	187,604	8	177,267	8	166,929	8	156,557	8	145,793	8	131,047	8	101,095	8	86,111
1/4		1/4		1/4	187,388	1/4	177,052	1/4	166,713	1/4	156,340	1/4	145,518	1/4	130,735	1/4	100,783	1/4	85,799
1/2		1/2		1/2	187,173	1/2	176,836	1/2	166,497	1/2	156,124	1/2	145,239	1/2	130,423	1/2	100,470	1/2	85,486
3/4		3/4		3/4	186,958	3/4	176,621	3/4	166,281	3/4	155,908	3/4	144,961	3/4	130,111	3/4	100,158	3/4	85,174
9		9		9	186,742	9	176,406	9	166,065	9	155,692	9	144,678	9	129,799	9	99,846	9	84,861
1/4		1/4		1/4	186,527	1/4	176,190	1/4	165,849	1/4	155,476	1/4	144,387	1/4	129,487	1/4	99,533	1/4	84,549
1/2		1/2		1/2	186,311	1/2	175,975	1/2	165,633	1/2	155,260	1/2	144,092	1/2	129,175	1/2	99,221	1/2	84,237
3/4		3/4		3/4	186,096	3/4	175,760	3/4	165,417	3/4	155,044	3/4	143,797	3/4	128,863	3/4	98,909	3/4	83,924
10		10		10	185,880	10	175,544	10	165,200	10	154,828	10	143,500	10	128,551	10	98,596	10	83,612
1/4		1/4		1/4	185,665	1/4	175,329	1/4	164,984	1/4	154,612	1/4	143,195	1/4	128,239	1/4	98,284	1/4	83,299
1/2		1/2		1/2	185,450	1/2	175,114	1/2	164,768	1/2	154,396	1/2	142,888	1/2	127,928	1/2	97,972	1/2	82,987
3/4		3/4		3/4	185,234	3/4	174,898	3/4	164,552	3/4	154,179	3/4	142,581	3/4	127,616	3/4	97,660	3/4	82,675
11		11		11	185,019	11	174,683	11	164,336	11	153,963	11	142,273	11	127,304	11	97,348	11	82,362
1/4		1/4		1/4	184,804	1/4	174,468	1/4	164,120	1/4	153,747	1/4	141,962	1/4	126,992	1/4	97,035	1/4	82,050
1/2		1/2		1/2	184,588	1/2	174,252	1/2	163,904	1/2	153,531	1/2	141,651	1/2	126,680	1/2	96,723	1/2	81,737
3/4		3/4		3/4	184,373	3/4	174,037	3/4	163,688	3/4	153,315	3/4	141,339	3/4	126,368	3/4	96,411	3/4	81,425

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

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 3020"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 7/8"

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	81,113	0	66,193	0	51,451	0	36,866	0	21,890	0	6,887	0		0		0		0	
1/4	80,800	1/4	65,882	1/4	51,148	1/4	36,559	1/4	21,578	1/4	6,574	1/4		1/4		1/4		1/4	
1/2	80,488	1/2	65,572	1/2	50,846	1/2	36,250	1/2	21,265	1/2	6,262	1/2		1/2		1/2		1/2	
3/4	80,176	3/4	65,261	3/4	50,543	3/4	35,942	3/4	20,953	3/4	5,949	3/4		3/4		3/4		3/4	
1	79,863	1	64,951	1	50,240	1	35,633	1	20,640	1	5,636	1		1		1		1	
1/4	79,551	1/4	64,641	1/4	49,938	1/4	35,322	1/4	20,328	1/4	5,324	1/4		1/4		1/4		1/4	
1/2	79,238	1/2	64,330	1/2	49,635	1/2	35,010	1/2	20,015	1/2	5,011	1/2		1/2		1/2		1/2	
3/4	78,926	3/4	64,020	3/4	49,333	3/4	34,698	3/4	19,703	3/4	4,699	3/4		3/4		3/4		3/4	
2	78,614	2	63,709	2	49,030	2	34,386	2	19,390	2	4,386	2		2		2		2	
1/4	78,302	1/4	63,398	1/4	48,727	1/4	34,074	1/4	19,078	1/4	4,074	1/4		1/4		1/4		1/4	
1/2	77,991	1/2	63,087	1/2	48,425	1/2	33,761	1/2	18,765	1/2	3,762	1/2		1/2		1/2		1/2	
3/4	77,679	3/4	62,775	3/4	48,122	3/4	33,449	3/4	18,453	3/4	3,450	3/4		3/4		3/4		3/4	
3	77,368	3	62,464	3	47,820	3	33,136	3	18,141	3	3,143	3		3		3		3	
1/4	77,057	1/4	62,152	1/4	47,517	1/4	32,824	1/4	17,828	1/4	2,845	1/4		1/4		1/4		1/4	
1/2	76,747	1/2	61,840	1/2	47,215	1/2	32,511	1/2	17,516	1/2	2,553	1/2		1/2		1/2		1/2	
3/4	76,437	3/4	61,528	3/4	46,913	3/4	32,199	3/4	17,203	3/4	2,260	3/4		3/4		3/4		3/4	
4	76,126	4	61,216	4	46,611	4	31,886	4	16,891	4	1,982	4		4		4		4	
1/4	75,816	1/4	60,904	1/4	46,309	1/4	31,574	1/4	16,578	1/4	1,733	1/4		1/4		1/4		1/4	
1/2	75,505	1/2	60,592	1/2	46,007	1/2	31,262	1/2	16,266	1/2	1,498	1/2		1/2		1/2		1/2	
3/4	75,195	3/4	60,280	3/4	45,706	3/4	30,949	3/4	15,953	3/4	1,264	3/4		3/4		3/4		3/4	
5	74,885	5	59,968	5	45,403	5	30,637	5	15,641	7/8	1,146	5		5		5		5	
1/4	74,574	1/4	59,659	1/4	45,100	1/4	30,324	1/4	15,328	1/4		1/4		1/4		1/4		1/4	
1/2	74,264	1/2	59,350	1/2	44,797	1/2	30,012	1/2	15,016	1/2		1/2		1/2		1/2		1/2	
3/4	73,953	3/4	59,041	3/4	44,493	3/4	29,700	3/4	14,704	3/4		3/4		3/4		3/4		3/4	
6	73,643	6	58,733	6	44,189	6	29,387	6	14,391	6		6		6		6		6	
1/4	73,332	1/4	58,426	1/4	43,885	1/4	29,075	1/4	14,079	1/4		1/4		1/4		1/4		1/4	
1/2	73,022	1/2	58,120	1/2	43,580	1/2	28,763	1/2	13,766	1/2		1/2		1/2		1/2		1/2	
3/4	72,712	3/4	57,815	3/4	43,275	3/4	28,450	3/4	13,454	3/4		3/4		3/4		3/4		3/4	
7	72,401	7	57,509	7	42,969	7	28,138	7	13,141	7		7		7		7		7	
1/4	72,091	1/4	57,205	1/4	42,664	1/4	27,826	1/4	12,829	1/4		1/4		1/4		1/4		1/4	
1/2	71,780	1/2	56,900	1/2	42,359	1/2	27,514	1/2	12,516	1/2		1/2		1/2		1/2		1/2	
3/4	71,470	3/4	56,596	3/4	42,054	3/4	27,201	3/4	12,204	3/4		3/4		3/4		3/4		3/4	
8	71,159	8	56,292	8	41,749	8	26,889	8	11,891	8		8		8		8		8	
1/4	70,849	1/4	55,989	1/4	41,444	1/4	26,577	1/4	11,579	1/4		1/4		1/4		1/4		1/4	
1/2	70,539	1/2	55,687	1/2	41,139	1/2	26,264	1/2	11,266	1/2		1/2		1/2		1/2		1/2	
3/4	70,228	3/4	55,384	3/4	40,834	3/4	25,952	3/4	10,953	3/4		3/4		3/4		3/4		3/4	
9	69,918	9	55,082	9	40,528	9	25,639	9	10,641	9		9		9		9		9	
1/4	69,607	1/4	54,779	1/4	40,223	1/4	25,327	1/4	10,328	1/4		1/4		1/4		1/4		1/4	
1/2	69,297	1/2	54,477	1/2	39,918	1/2	25,015	1/2	10,015	1/2		1/2		1/2		1/2		1/2	
3/4	68,986	3/4	54,174	3/4	39,613	3/4	24,702	3/4	9,702	3/4		3/4		3/4		3/4		3/4	
10	68,676	10	53,871	10	39,308	10	24,390	10	9,389	10		10		10		10		10	
1/4	68,366	1/4	53,569	1/4	39,003	1/4	24,077	1/4	9,076	1/4		1/4		1/4		1/4		1/4	
1/2	68,055	1/2	53,266	1/2	38,698	1/2	23,765	1/2	8,763	1/2		1/2		1/2		1/2		1/2	
3/4	67,745	3/4	52,964	3/4	38,393	3/4	23,452	3/4	8,450	3/4		3/4		3/4		3/4		3/4	
11	67,434	11	52,661	11	38,087	11	23,140	11	8,138	11		11		11		11		11	
1/4	67,124	1/4	52,358	1/4	37,782	1/4	22,827	1/4	7,825	1/4		1/4		1/4		1/4		1/4	
1/2	66,813	1/2	52,056	1/2	37,477	1/2	22,515	1/2	7,512	1/2		1/2		1/2		1/2		1/2	
3/4	66,503	3/4	51,753	3/4	37,172	3/4	22,202	3/4	7,200	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/23/2019 CL
CALCULATED: 09/24/2019 CL
REPRINTED: 10/10/2019 SW

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 3020"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	185,543	0	175,199	0	164,843	0	154,462	0	142,465	0	127,450	0	112,434	0	97,403
1/4		1/4		1/4	185,328	1/4	174,984	1/4	164,626	1/4	154,246	1/4	142,152	1/4	127,137	1/4	112,121	1/4	97,090
1/2		1/2		1/2	185,112	1/2	174,768	1/2	164,410	1/2	154,030	1/2	141,840	1/2	126,824	1/2	111,808	1/2	96,777
3/4		3/4		3/4	184,897	3/4	174,553	3/4	164,194	3/4	153,813	3/4	141,527	3/4	126,511	3/4	111,495	3/4	96,464
1		1		1	184,681	1	174,337	1	163,978	1	153,597	1	141,214	1	126,198	1	111,183	1	96,150
1/4		1/4		1/4	184,466	1/4	174,122	1/4	163,761	1/4	153,381	1/4	140,901	1/4	125,886	1/4	110,870	1/4	95,837
1/2		1/2		1/2	184,250	1/2	173,906	1/2	163,545	1/2	153,165	1/2	140,588	1/2	125,573	1/2	110,557	1/2	95,524
3/4		3/4		3/4	184,035	3/4	173,691	3/4	163,329	3/4	152,948	3/4	140,276	3/4	125,260	3/4	110,244	3/4	95,211
2		2		2	183,819	2	173,475	2	163,113	2	152,732	2	139,963	2	124,947	2	109,931	2	94,897
1/4		1/4		1/4	193,255	1/4	183,604	1/4	173,260	1/4	162,896	1/4	152,516	1/4	139,650	1/4	124,634	1/4	109,618
1/2		1/2		1/2	193,131	1/2	183,388	1/2	173,044	1/2	162,680	1/2	152,300	1/2	139,337	1/2	124,321	1/2	109,305
3/4		3/4		3/4	193,007	3/4	183,173	3/4	172,829	3/4	162,464	3/4	152,083	3/4	139,024	3/4	124,009	3/4	108,992
3		3		3	192,884	3	182,957	3	172,613	3	162,248	3	151,867	3	138,711	3	123,696	3	108,679
1/4		1/4		1/4	192,751	1/4	182,742	1/4	172,398	1/4	162,031	1/4	151,651	1/4	138,399	1/4	123,383	1/4	108,366
1/2		1/2		1/2	192,600	1/2	182,526	1/2	172,182	1/2	161,815	1/2	151,435	1/2	138,086	1/2	123,070	1/2	108,053
3/4		3/4		3/4	192,440	3/4	182,311	3/4	171,967	3/4	161,599	3/4	151,218	3/4	137,773	3/4	122,757	3/4	107,740
4		4		4	192,280	4	182,095	4	171,751	4	161,382	4	151,002	4	137,460	4	122,444	4	107,427
1/4		1/4		1/4	192,112	1/4	181,880	1/4	171,536	1/4	161,166	1/4	150,785	1/4	137,147	1/4	122,132	1/4	107,114
1/2		1/2		1/2	191,927	1/2	181,664	1/2	171,321	1/2	160,950	1/2	150,566	1/2	136,834	1/2	121,819	1/2	106,801
3/4		3/4		3/4	191,734	3/4	181,449	3/4	171,105	3/4	160,734	3/4	150,346	3/4	136,522	3/4	121,506	3/4	106,488
5		5		5	191,541	5	181,233	5	170,890	5	160,517	5	150,126	5	136,209	5	121,193	5	106,174
1/4		1/4		1/4	191,343	1/4	181,018	1/4	170,674	1/4	160,301	1/4	149,904	1/4	135,896	1/4	120,880	1/4	105,861
1/2		1/2		1/2	191,135	1/2	180,802	1/2	170,459	1/2	160,085	1/2	149,675	1/2	135,583	1/2	120,567	1/2	105,548
3/4		3/4		3/4	190,924	3/4	180,587	3/4	170,243	3/4	159,869	3/4	149,444	3/4	135,270	3/4	120,255	3/4	105,235
6		6		6	190,712	6	180,371	6	170,028	6	159,652	6	149,212	6	134,958	6	119,942	6	104,921
1/4		1/4		1/4	190,499	1/4	180,156	1/4	169,812	1/4	159,436	1/4	148,977	1/4	134,645	1/4	119,629	1/4	104,608
1/2		1/2		1/2	190,284	1/2	179,940	1/2	169,597	1/2	159,220	1/2	148,733	1/2	134,332	1/2	119,316	1/2	104,295
3/4		3/4		3/4	190,069	3/4	179,725	3/4	169,381	3/4	159,004	3/4	148,485	3/4	134,019	3/4	119,003	3/4	103,982
7		7		7	189,854	7	179,509	7	169,166	7	158,787	7	148,238	7	133,706	7	118,690	7	103,668
1/4		1/4		1/4	189,639	1/4	179,294	1/4	168,950	1/4	158,571	1/4	147,986	1/4	133,393	1/4	118,378	1/4	103,355
1/2		1/2		1/2	189,423	1/2	179,078	1/2	168,734	1/2	158,355	1/2	147,727	1/2	133,081	1/2	118,065	1/2	103,042
3/4		3/4		3/4	189,208	3/4	178,863	3/4	168,518	3/4	158,139	3/4	147,463	3/4	132,768	3/4	117,752	3/4	102,729
8		8		8	188,992	8	178,647	8	168,302	8	157,922	8	147,200	8	132,455	8	117,439	8	102,415
1/4		1/4		1/4	188,776	1/4	178,432	1/4	168,086	1/4	157,706	1/4	146,932	1/4	132,142	1/4	117,126	1/4	102,102
1/2		1/2		1/2	188,561	1/2	178,216	1/2	167,870	1/2	157,490	1/2	146,656	1/2	131,829	1/2	116,813	1/2	101,789
3/4		3/4		3/4	188,345	3/4	178,001	3/4	167,654	3/4	157,274	3/4	146,377	3/4	131,516	3/4	116,501	3/4	101,476
9		9		9	188,130	9	177,785	9	167,438	9	157,057	9	146,097	9	131,204	9	116,188	9	101,162
1/4		1/4		1/4	187,914	1/4	177,570	1/4	167,221	1/4	156,841	1/4	145,814	1/4	130,891	1/4	115,875	1/4	100,849
1/2		1/2		1/2	187,699	1/2	177,354	1/2	167,005	1/2	156,625	1/2	145,522	1/2	130,578	1/2	115,562	1/2	100,536
3/4		3/4		3/4	187,483	3/4	177,139	3/4	166,789	3/4	156,408	3/4	145,226	3/4	130,265	3/4	115,249	3/4	100,223
10		10		10	187,267	10	176,923	10	166,573	10	156,192	10	144,930	10	129,952	10	114,937	10	99,909
1/4		1/4		1/4	187,052	1/4	176,708	1/4	166,356	1/4	155,976	1/4	144,632	1/4	129,639	1/4	114,624	1/4	99,596
1/2		1/2		1/2	186,836	1/2	176,492	1/2	166,140	1/2	155,760	1/2	144,327	1/2	129,327	1/2	114,311	1/2	99,283
3/4		3/4		3/4	186,621	3/4	176,277	3/4	165,924	3/4	155,543	3/4	144,019	3/4	129,014	3/4	113,998	3/4	98,970
11		11		11	186,405	11	176,061	11	165,708	11	155,327	11	143,711	11	128,701	11	113,685	11	98,656
1/4		1/4		1/4	186,190	1/4	175,846	1/4	165,491	1/4	155,111	1/4	143,401	1/4	128,388	1/4	113,372	1/4	98,343
1/2		1/2		1/2	185,974	1/2	175,630	1/2	165,275	1/2	154,895	1/2	143,090	1/2	128,075	1/2	113,060	1/2	98,030
3/4		3/4		3/4	185,759	3/4	175,415	3/4	165,059	3/4	154,678	3/4	142,777	3/4	127,762	3/4	112,747	3/4	97,717

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 3020"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/8"

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	82,368	0	67,332	0	52,296	0	37,275	0	22,243	0	7,208	0		0		0		0	
1/4	82,054	1/4	67,019	1/4	51,983	1/4	36,962	1/4	21,930	1/4	6,894	1/4		1/4		1/4		1/4	
1/2	81,741	1/2	66,705	1/2	51,670	1/2	36,649	1/2	21,616	1/2	6,581	1/2		1/2		1/2		1/2	
3/4	81,428	3/4	66,392	3/4	51,356	3/4	36,337	3/4	21,303	3/4	6,268	3/4		3/4		3/4		3/4	
1	81,115	1	66,079	1	51,043	1	36,024	1	20,990	1	5,955	1		1		1		1	
1/4	80,801	1/4	65,766	1/4	50,730	1/4	35,711	1/4	20,677	1/4	5,641	1/4		1/4		1/4		1/4	
1/2	80,488	1/2	65,452	1/2	50,417	1/2	35,398	1/2	20,363	1/2	5,328	1/2		1/2		1/2		1/2	
3/4	80,175	3/4	65,139	3/4	50,103	3/4	35,085	3/4	20,050	3/4	5,015	3/4		3/4		3/4		3/4	
2	79,862	2	64,826	2	49,790	2	34,772	2	19,737	2	4,702	2		2		2		2	
1/4	79,548	1/4	64,513	1/4	49,477	1/4	34,459	1/4	19,424	1/4	4,390	1/4		1/4		1/4		1/4	
1/2	79,235	1/2	64,199	1/2	49,164	1/2	34,146	1/2	19,110	1/2	4,077	1/2		1/2		1/2		1/2	
3/4	78,922	3/4	63,886	3/4	48,850	3/4	33,833	3/4	18,797	3/4	3,765	3/4		3/4		3/4		3/4	
3	78,609	3	63,573	3	48,537	3	33,519	3	18,484	3	3,453	3		3		3		3	
1/4	78,295	1/4	63,260	1/4	48,224	1/4	33,206	1/4	18,171	1/4	3,145	1/4		1/4		1/4		1/4	
1/2	77,982	1/2	62,946	1/2	47,911	1/2	32,893	1/2	17,858	1/2	2,848	1/2		1/2		1/2		1/2	
3/4	77,669	3/4	62,633	3/4	47,598	3/4	32,580	3/4	17,544	3/4	2,555	3/4		3/4		3/4		3/4	
4	77,356	4	62,320	4	47,285	4	32,266	4	17,231	4	2,262	4		4		4		4	
1/4	77,042	1/4	62,007	1/4	46,971	1/4	31,953	1/4	16,918	1/4	1,983	1/4		1/4		1/4		1/4	
1/2	76,729	1/2	61,693	1/2	46,658	1/2	31,640	1/2	16,605	1/2	1,734	1/2		1/2		1/2		1/2	
3/4	76,416	3/4	61,380	3/4	46,345	3/4	31,327	3/4	16,291	3/4	1,499	3/4		3/4		3/4		3/4	
5	76,103	5	61,067	5	46,032	5	31,013	5	15,978	5	1,264	5		5		5		5	
1/4	75,789	1/4	60,754	1/4	45,720	1/4	30,700	1/4	15,665	1/4	1,147	1/4		1/4		1/4		1/4	
1/2	75,476	1/2	60,440	1/2	45,407	1/2	30,387	1/2	15,352	1/2		1/2		1/2		1/2		1/2	
3/4	75,163	3/4	60,127	3/4	45,094	3/4	30,074	3/4	15,038	3/4		3/4		3/4		3/4		3/4	
6	74,850	6	59,814	6	44,781	6	29,761	6	14,725	6		6		6		6		6	
1/4	74,537	1/4	59,501	1/4	44,468	1/4	29,447	1/4	14,412	1/4		1/4		1/4		1/4		1/4	
1/2	74,223	1/2	59,187	1/2	44,155	1/2	29,134	1/2	14,099	1/2		1/2		1/2		1/2		1/2	
3/4	73,910	3/4	58,874	3/4	43,843	3/4	28,821	3/4	13,785	3/4		3/4		3/4		3/4		3/4	
7	73,597	7	58,561	7	43,530	7	28,508	7	13,472	7		7		7		7		7	
1/4	73,284	1/4	58,248	1/4	43,217	1/4	28,194	1/4	13,159	1/4		1/4		1/4		1/4		1/4	
1/2	72,970	1/2	57,934	1/2	42,904	1/2	27,881	1/2	12,846	1/2		1/2		1/2		1/2		1/2	
3/4	72,657	3/4	57,621	3/4	42,592	3/4	27,568	3/4	12,533	3/4		3/4		3/4		3/4		3/4	
8	72,344	8	57,308	8	42,279	8	27,255	8	12,219	8		8		8		8		8	
1/4	72,031	1/4	56,995	1/4	41,966	1/4	26,941	1/4	11,906	1/4		1/4		1/4		1/4		1/4	
1/2	71,717	1/2	56,681	1/2	41,653	1/2	26,628	1/2	11,593	1/2		1/2		1/2		1/2		1/2	
3/4	71,404	3/4	56,368	3/4	41,341	3/4	26,315	3/4	11,280	3/4		3/4		3/4		3/4		3/4	
9	71,091	9	56,055	9	41,028	9	26,002	9	10,966	9		9		9		9		9	
1/4	70,778	1/4	55,742	1/4	40,715	1/4	25,688	1/4	10,653	1/4		1/4		1/4		1/4		1/4	
1/2	70,464	1/2	55,429	1/2	40,402	1/2	25,375	1/2	10,340	1/2		1/2		1/2		1/2		1/2	
3/4	70,151	3/4	55,115	3/4	40,090	3/4	25,062	3/4	10,027	3/4		3/4		3/4		3/4		3/4	
10	69,838	10	54,802	10	39,777	10	24,749	10	9,713	10		10		10		10		10	
1/4	69,525	1/4	54,489	1/4	39,464	1/4	24,436	1/4	9,400	1/4		1/4		1/4		1/4		1/4	
1/2	69,211	1/2	54,176	1/2	39,151	1/2	24,122	1/2	9,087	1/2		1/2		1/2		1/2		1/2	
3/4	68,898	3/4	53,862	3/4	38,839	3/4	23,809	3/4	8,774	3/4		3/4		3/4		3/4		3/4	
11	68,585	11	53,549	11	38,526	11	23,496	11	8,460	11		11		11		11		11	
1/4	68,272	1/4	53,236	1/4	38,213	1/4	23,183	1/4	8,147	1/4		1/4		1/4		1/4		1/4	
1/2	67,958	1/2	52,923	1/2	37,900	1/2	22,869	1/2	7,834	1/2		1/2		1/2		1/2		1/2	
3/4	67,645	3/4	52,609	3/4	37,588	3/4	22,556	3/4	7,521	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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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>