



BARGE "HSM 3036"

INNAGE TRIM TABLE 8" GAUGE HATCH

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

January 22, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3036"

INNAGE TRIM TABLE "MMC" GAUGE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

January 22, 2020

**PRECISION MEASUREMENT
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BARGE "HSM 3036"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	386	0	13,263	0	28,201	0	43,237	0	58,210	0	73,203	0	88,239	0	103,274	0	118,305	0	133,335
1/4	563	1/4	13,564	1/4	28,515	1/4	43,550	1/4	58,521	1/4	73,516	1/4	88,552	1/4	103,588	1/4	118,619	1/4	133,648
1/2	740	1/2	13,866	1/2	28,828	1/2	43,863	1/2	58,832	1/2	73,830	1/2	88,865	1/2	103,901	1/2	118,932	1/2	133,961
3/4	917	3/4	14,168	3/4	29,141	3/4	44,176	3/4	59,143	3/4	74,143	3/4	89,178	3/4	104,214	3/4	119,245	3/4	134,274
1	1,094	1	14,469	1	29,454	1	44,490	1	59,454	1	74,456	1	89,492	1	104,527	1	119,558	1	134,587
1/4	1,333	1/4	14,775	1/4	29,768	1/4	44,803	1/4	59,765	1/4	74,769	1/4	89,805	1/4	104,841	1/4	119,871	1/4	134,900
1/2	1,572	1/2	15,080	1/2	30,081	1/2	45,116	1/2	60,075	1/2	75,083	1/2	90,118	1/2	105,154	1/2	120,184	1/2	135,213
3/4	1,810	3/4	15,386	3/4	30,394	3/4	45,429	3/4	60,386	3/4	75,396	3/4	90,431	3/4	105,467	3/4	120,497	3/4	135,526
2	2,049	2	15,691	2	30,707	2	45,742	2	60,697	2	75,709	2	90,745	2	105,780	2	120,810	2	135,839
1/4	2,311	1/4	16,001	1/4	31,021	1/4	46,056	1/4	61,008	1/4	76,022	1/4	91,058	1/4	106,094	1/4	121,123	1/4	136,153
1/2	2,574	1/2	16,310	1/2	31,334	1/2	46,369	1/2	61,319	1/2	76,335	1/2	91,371	1/2	106,407	1/2	121,437	1/2	136,466
3/4	2,836	3/4	16,619	3/4	31,647	3/4	46,682	3/4	61,630	3/4	76,649	3/4	91,684	3/4	106,720	3/4	121,750	3/4	136,779
3	3,098	3	16,929	3	31,960	3	46,995	3	61,941	3	76,962	3	91,998	3	107,033	3	122,063	3	137,092
1/4	3,365	1/4	17,241	1/4	32,273	1/4	47,309	1/4	62,252	1/4	77,275	1/4	92,311	1/4	107,346	1/4	122,376	1/4	137,405
1/2	3,631	1/2	17,553	1/2	32,587	1/2	47,622	1/2	62,563	1/2	77,588	1/2	92,624	1/2	107,660	1/2	122,689	1/2	137,718
3/4	3,898	3/4	17,866	3/4	32,900	3/4	47,935	3/4	62,874	3/4	77,902	3/4	92,937	3/4	107,973	3/4	123,002	3/4	138,031
4	4,165	4	18,178	4	33,213	4	48,248	4	63,185	4	78,215	4	93,251	4	108,286	4	123,315	4	138,344
1/4	4,435	1/4	18,491	1/4	33,526	1/4	48,561	1/4	63,497	1/4	78,528	1/4	93,564	1/4	108,599	1/4	123,628	1/4	138,657
1/2	4,706	1/2	18,804	1/2	33,840	1/2	48,873	1/2	63,809	1/2	78,841	1/2	93,877	1/2	108,912	1/2	123,941	1/2	138,971
3/4	4,977	3/4	19,118	3/4	34,153	3/4	49,186	3/4	64,121	3/4	79,155	3/4	94,190	3/4	109,225	3/4	124,254	3/4	139,284
5	5,248	5	19,431	5	34,466	5	49,498	5	64,433	5	79,468	5	94,504	5	109,538	5	124,568	5	139,597
1/4	5,523	1/4	19,744	1/4	34,779	1/4	49,810	1/4	64,746	1/4	79,781	1/4	94,817	1/4	109,852	1/4	124,881	1/4	139,910
1/2	5,797	1/2	20,057	1/2	35,093	1/2	50,122	1/2	65,059	1/2	80,094	1/2	95,130	1/2	110,165	1/2	125,194	1/2	140,223
3/4	6,072	3/4	20,371	3/4	35,406	3/4	50,434	3/4	65,372	3/4	80,408	3/4	95,443	3/4	110,478	3/4	125,507	3/4	140,536
6	6,347	6	20,684	6	35,719	6	50,746	6	65,685	6	80,721	6	95,757	6	110,791	6	125,820	6	140,849
1/4	6,625	1/4	20,997	1/4	36,032	1/4	51,057	1/4	65,998	1/4	81,034	1/4	96,070	1/4	111,104	1/4	126,133	1/4	141,162
1/2	6,904	1/2	21,310	1/2	36,345	1/2	51,369	1/2	66,312	1/2	81,347	1/2	96,383	1/2	111,417	1/2	126,446	1/2	141,475
3/4	7,182	3/4	21,624	3/4	36,659	3/4	51,680	3/4	66,625	3/4	81,661	3/4	96,696	3/4	111,730	3/4	126,759	3/4	141,789
7	7,461	7	21,937	7	36,972	7	51,992	7	66,938	7	81,974	7	97,010	7	112,043	7	127,072	7	142,102
1/4	7,743	1/4	22,250	1/4	37,285	1/4	52,303	1/4	67,251	1/4	82,287	1/4	97,323	1/4	112,356	1/4	127,386	1/4	142,415
1/2	8,025	1/2	22,563	1/2	37,598	1/2	52,614	1/2	67,565	1/2	82,600	1/2	97,636	1/2	112,670	1/2	127,699	1/2	142,728
3/4	8,308	3/4	22,876	3/4	37,912	3/4	52,925	3/4	67,878	3/4	82,914	3/4	97,949	3/4	112,983	3/4	128,012	3/4	143,041
8	8,590	8	23,190	8	38,225	8	53,236	8	68,191	8	83,227	8	98,262	8	113,296	8	128,325	8	143,354
1/4	8,876	1/4	23,503	1/4	38,538	1/4	53,547	1/4	68,504	1/4	83,540	1/4	98,576	1/4	113,609	1/4	128,638	1/4	143,667
1/2	9,163	1/2	23,816	1/2	38,851	1/2	53,858	1/2	68,818	1/2	83,853	1/2	98,889	1/2	113,922	1/2	128,951	1/2	143,980
3/4	9,449	3/4	24,129	3/4	39,165	3/4	54,169	3/4	69,131	3/4	84,167	3/4	99,202	3/4	114,235	3/4	129,264	3/4	144,293
9	9,735	9	24,443	9	39,478	9	54,480	9	69,444	9	84,480	9	99,515	9	114,548	9	129,577	9	144,606
1/4	10,025	1/4	24,756	1/4	39,791	1/4	54,791	1/4	69,757	1/4	84,793	1/4	99,829	1/4	114,861	1/4	129,890	1/4	144,920
1/2	10,315	1/2	25,069	1/2	40,104	1/2	55,101	1/2	70,071	1/2	85,106	1/2	100,142	1/2	115,174	1/2	130,204	1/2	145,233
3/4	10,605	3/4	25,382	3/4	40,418	3/4	55,412	3/4	70,384	3/4	85,420	3/4	100,455	3/4	115,487	3/4	130,517	3/4	145,546
10	10,896	10	25,696	10	40,731	10	55,723	10	70,697	10	85,733	10	100,768	10	115,801	10	130,830	10	145,859
1/4	11,190	1/4	26,009	1/4	41,044	1/4	56,034	1/4	71,010	1/4	86,046	1/4	101,082	1/4	116,114	1/4	131,143	1/4	146,172
1/2	11,483	1/2	26,322	1/2	41,357	1/2	56,345	1/2	71,324	1/2	86,359	1/2	101,395	1/2	116,427	1/2	131,456	1/2	146,485
3/4	11,777	3/4	26,635	3/4	41,670	3/4	56,656	3/4	71,637	3/4	86,673	3/4	101,708	3/4	116,740	3/4	131,769	3/4	146,798
11	12,071	11	26,948	11	41,984	11	56,967	11	71,950	11	86,986	11	102,021	11	117,053	11	132,082	11	147,111
1/4	12,369	1/4	27,262	1/4	42,297	1/4	57,278	1/4	72,263	1/4	87,299	1/4	102,335	1/4	117,366	1/4	132,395	1/4	147,424
1/2	12,667	1/2	27,575	1/2	42,610	1/2	57,588	1/2	72,577	1/2	87,612	1/2	102,648	1/2	117,679	1/2	132,708	1/2	147,738
3/4	12,965	3/4	27,888	3/4	42,923	3/4	57,899	3/4	72,890	3/4	87,925	3/4	102,961	3/4	117,992	3/4	133,021	3/4	148,051

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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BARGE "HSM 3036"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,364	0	163,393	0	178,413	0	193,398	0	208,311	0		0		0		0		0	
1/4	148,677	1/4	163,706	1/4	178,725	1/4	193,710	1/4	208,591	1/4		1/4		1/4		1/4		1/4	
1/2	148,990	1/2	164,019	1/2	179,037	1/2	194,023	1/2	208,872	1/2		1/2		1/2		1/2		1/2	
3/4	149,303	3/4	164,332	3/4	179,350	3/4	194,335	3/4	209,152	3/4		3/4		3/4		3/4		3/4	
1	149,616	1	164,645	1	179,662	1	194,647	1	209,432	1		1		1		1		1	
1/4	149,929	1/4	164,958	1/4	179,974	1/4	194,959	1/4	209,664	1/4		1/4		1/4		1/4		1/4	
1/2	150,242	1/2	165,272	1/2	180,286	1/2	195,271	1/2	209,896	1/2		1/2		1/2		1/2		1/2	
3/4	150,556	3/4	165,585	3/4	180,598	3/4	195,584	3/4	210,128	3/4		3/4		3/4		3/4		3/4	
2	150,869	2	165,898	2	180,910	2	195,896	2	210,360	2		2		2		2		2	
1/4	151,182	1/4	166,211	1/4	181,223	1/4	196,208	1/4	210,540	1/4		1/4		1/4		1/4		1/4	
1/2	151,495	1/2	166,524	1/2	181,535	1/2	196,520	1/2	210,719	1/2		1/2		1/2		1/2		1/2	
3/4	151,808	3/4	166,837	3/4	181,847	3/4	196,832	3/4	210,899	3/4		3/4		3/4		3/4		3/4	
3	152,121	3	167,150	3	182,159	3	197,145	3	211,079	3		3		3		3		3	
1/4	152,434	1/4	167,463	1/4	182,471	1/4	197,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,747	1/2	167,776	1/2	182,784	1/2	197,769	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,060	3/4	168,090	3/4	183,096	3/4	198,081	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,373	4	168,403	4	183,408	4	198,393	4		4		4		4		4		4	
1/4	153,687	1/4	168,716	1/4	183,720	1/4	198,706	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,000	1/2	169,029	1/2	184,032	1/2	199,018	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,313	3/4	169,342	3/4	184,345	3/4	199,330	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,626	5	169,655	5	184,657	5	199,642	5		5		5		5		5		5	
1/4	154,939	1/4	169,968	1/4	184,969	1/4	199,953	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,252	1/2	170,281	1/2	185,281	1/2	200,264	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,565	3/4	170,594	3/4	185,593	3/4	200,576	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,878	6	170,908	6	185,906	6	200,887	6		6		6		6		6		6	
1/4	156,191	1/4	171,221	1/4	186,218	1/4	201,197	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,505	1/2	171,534	1/2	186,530	1/2	201,507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,818	3/4	171,847	3/4	186,842	3/4	201,817	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,131	7	172,160	7	187,154	7	202,127	7		7		7		7		7		7	
1/4	157,444	1/4	172,473	1/4	187,467	1/4	202,437	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,757	1/2	172,786	1/2	187,779	1/2	202,747	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,070	3/4	173,099	3/4	188,091	3/4	203,057	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,383	8	173,412	8	188,403	8	203,367	8		8		8		8		8		8	
1/4	158,696	1/4	173,725	1/4	188,715	1/4	203,677	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,009	1/2	174,039	1/2	189,028	1/2	203,988	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,323	3/4	174,352	3/4	189,340	3/4	204,298	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,636	9	174,665	9	189,652	9	204,608	9		9		9		9		9		9	
1/4	159,949	1/4	174,977	1/4	189,964	1/4	204,918	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,262	1/2	175,290	1/2	190,276	1/2	205,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,575	3/4	175,603	3/4	190,589	3/4	205,538	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,888	10	175,915	10	190,901	10	205,848	10		10		10		10		10		10	
1/4	161,201	1/4	176,228	1/4	191,213	1/4	206,158	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,514	1/2	176,540	1/2	191,525	1/2	206,468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,827	3/4	176,852	3/4	191,837	3/4	206,777	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,140	11	177,164	11	192,149	11	207,087	11		11		11		11		11		11	
1/4	162,454	1/4	177,476	1/4	192,462	1/4	207,393	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,767	1/2	177,789	1/2	192,774	1/2	207,699	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,080	3/4	178,101	3/4	193,086	3/4	208,005	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

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



BARGE "HSM 3036"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,254	0	28,184	0	43,210	0	58,231	0	73,254	0	88,281	0	103,307	0	118,329	0	133,348
1/4	562	1/4	13,556	1/4	28,497	1/4	43,523	1/4	58,544	1/4	73,567	1/4	88,594	1/4	103,620	1/4	118,641	1/4	133,661
1/2	739	1/2	13,857	1/2	28,810	1/2	43,836	1/2	58,857	1/2	73,881	1/2	88,907	1/2	103,933	1/2	118,954	1/2	133,974
3/4	916	3/4	14,159	3/4	29,123	3/4	44,149	3/4	59,169	3/4	74,194	3/4	89,220	3/4	104,246	3/4	119,267	3/4	134,287
1	1,093	1	14,460	1	29,436	1	44,462	1	59,482	1	74,507	1	89,533	1	104,559	1	119,580	1	134,600
1/4	1,332	1/4	14,766	1/4	29,749	1/4	44,775	1/4	59,795	1/4	74,820	1/4	89,846	1/4	104,872	1/4	119,893	1/4	134,913
1/2	1,571	1/2	15,071	1/2	30,062	1/2	45,088	1/2	60,108	1/2	75,133	1/2	90,159	1/2	105,185	1/2	120,206	1/2	135,226
3/4	1,809	3/4	15,376	3/4	30,375	3/4	45,401	3/4	60,421	3/4	75,446	3/4	90,472	3/4	105,498	3/4	120,519	3/4	135,539
2	2,048	2	15,682	2	30,688	2	45,714	2	60,734	2	75,759	2	90,785	2	105,811	2	120,832	2	135,852
1/4	2,310	1/4	15,991	1/4	31,001	1/4	46,027	1/4	61,046	1/4	76,072	1/4	91,098	1/4	106,124	1/4	121,145	1/4	136,164
1/2	2,572	1/2	16,300	1/2	31,314	1/2	46,340	1/2	61,359	1/2	76,385	1/2	91,411	1/2	106,437	1/2	121,458	1/2	136,477
3/4	2,834	3/4	16,609	3/4	31,627	3/4	46,653	3/4	61,672	3/4	76,698	3/4	91,724	3/4	106,750	3/4	121,771	3/4	136,790
3	3,096	3	16,918	3	31,940	3	46,966	3	61,985	3	77,011	3	92,037	3	107,063	3	122,083	3	137,103
1/4	3,363	1/4	17,230	1/4	32,253	1/4	47,279	1/4	62,298	1/4	77,324	1/4	92,350	1/4	107,376	1/4	122,396	1/4	137,416
1/2	3,629	1/2	17,543	1/2	32,566	1/2	47,592	1/2	62,611	1/2	77,637	1/2	92,663	1/2	107,689	1/2	122,709	1/2	137,729
3/4	3,896	3/4	17,855	3/4	32,879	3/4	47,905	3/4	62,924	3/4	77,950	3/4	92,976	3/4	108,002	3/4	123,022	3/4	138,042
4	4,162	4	18,167	4	33,192	4	48,218	4	63,237	4	78,263	4	93,289	4	108,315	4	123,335	4	138,355
1/4	4,433	1/4	18,480	1/4	33,505	1/4	48,531	1/4	63,550	1/4	78,576	1/4	93,602	1/4	108,628	1/4	123,648	1/4	138,668
1/2	4,703	1/2	18,793	1/2	33,819	1/2	48,844	1/2	63,863	1/2	78,889	1/2	93,916	1/2	108,941	1/2	123,961	1/2	138,981
3/4	4,974	3/4	19,106	3/4	34,132	3/4	49,157	3/4	64,176	3/4	79,202	3/4	94,229	3/4	109,254	3/4	124,274	3/4	139,294
5	5,245	5	19,419	5	34,445	5	49,470	5	64,489	5	79,515	5	94,542	5	109,567	5	124,587	5	139,607
1/4	5,519	1/4	19,732	1/4	34,758	1/4	49,783	1/4	64,802	1/4	79,828	1/4	94,855	1/4	109,880	1/4	124,900	1/4	139,919
1/2	5,794	1/2	20,045	1/2	35,071	1/2	50,096	1/2	65,115	1/2	80,141	1/2	95,168	1/2	110,193	1/2	125,213	1/2	140,232
3/4	6,068	3/4	20,358	3/4	35,384	3/4	50,409	3/4	65,428	3/4	80,455	3/4	95,481	3/4	110,506	3/4	125,525	3/4	140,545
6	6,343	6	20,671	6	35,697	6	50,722	6	65,741	6	80,768	6	95,794	6	110,819	6	125,838	6	140,858
1/4	6,621	1/4	20,984	1/4	36,010	1/4	51,035	1/4	66,054	1/4	81,081	1/4	96,107	1/4	111,132	1/4	126,151	1/4	141,171
1/2	6,899	1/2	21,297	1/2	36,323	1/2	51,348	1/2	66,367	1/2	81,394	1/2	96,420	1/2	111,444	1/2	126,464	1/2	141,484
3/4	7,178	3/4	21,610	3/4	36,636	3/4	51,661	3/4	66,680	3/4	81,707	3/4	96,733	3/4	111,757	3/4	126,777	3/4	141,797
7	7,456	7	21,923	7	36,949	7	51,974	7	66,994	7	82,020	7	97,046	7	112,070	7	127,090	7	142,110
1/4	7,738	1/4	22,236	1/4	37,262	1/4	52,287	1/4	67,307	1/4	82,333	1/4	97,359	1/4	112,383	1/4	127,403	1/4	142,423
1/2	8,021	1/2	22,549	1/2	37,575	1/2	52,600	1/2	67,620	1/2	82,646	1/2	97,672	1/2	112,696	1/2	127,716	1/2	142,736
3/4	8,303	3/4	22,862	3/4	37,888	3/4	52,913	3/4	67,933	3/4	82,959	3/4	97,985	3/4	113,009	3/4	128,029	3/4	143,049
8	8,585	8	23,175	8	38,201	8	53,226	8	68,246	8	83,272	8	98,298	8	113,322	8	128,342	8	143,362
1/4	8,871	1/4	23,488	1/4	38,514	1/4	53,539	1/4	68,559	1/4	83,585	1/4	98,611	1/4	113,635	1/4	128,655	1/4	143,674
1/2	9,157	1/2	23,801	1/2	38,827	1/2	53,852	1/2	68,872	1/2	83,898	1/2	98,924	1/2	113,948	1/2	128,968	1/2	143,987
3/4	9,443	3/4	24,114	3/4	39,140	3/4	54,164	3/4	69,185	3/4	84,211	3/4	99,237	3/4	114,261	3/4	129,280	3/4	144,300
9	9,729	9	24,427	9	39,453	9	54,477	9	69,498	9	84,524	9	99,550	9	114,574	9	129,593	9	144,613
1/4	10,019	1/4	24,740	1/4	39,766	1/4	54,790	1/4	69,811	1/4	84,837	1/4	99,863	1/4	114,887	1/4	129,906	1/4	144,926
1/2	10,309	1/2	25,053	1/2	40,079	1/2	55,103	1/2	70,124	1/2	85,150	1/2	100,176	1/2	115,199	1/2	130,219	1/2	145,239
3/4	10,599	3/4	25,367	3/4	40,392	3/4	55,416	3/4	70,437	3/4	85,463	3/4	100,489	3/4	115,512	3/4	130,532	3/4	145,552
10	10,889	10	25,680	10	40,705	10	55,728	10	70,750	10	85,776	10	100,803	10	115,825	10	130,845	10	145,865
1/4	11,183	1/4	25,993	1/4	41,018	1/4	56,041	1/4	71,063	1/4	86,089	1/4	101,116	1/4	116,138	1/4	131,158	1/4	146,178
1/2	11,476	1/2	26,306	1/2	41,331	1/2	56,354	1/2	71,376	1/2	86,402	1/2	101,429	1/2	116,451	1/2	131,471	1/2	146,491
3/4	11,770	3/4	26,619	3/4	41,644	3/4	56,667	3/4	71,689	3/4	86,715	3/4	101,742	3/4	116,764	3/4	131,784	3/4	146,804
11	12,064	11	26,932	11	41,957	11	56,980	11	72,002	11	87,028	11	102,055	11	117,077	11	132,097	11	147,117
1/4	12,362	1/4	27,245	1/4	42,271	1/4	57,293	1/4	72,315	1/4	87,342	1/4	102,368	1/4	117,390	1/4	132,410	1/4	147,429
1/2	12,659	1/2	27,558	1/2	42,584	1/2	57,605	1/2	72,628	1/2	87,655	1/2	102,681	1/2	117,703	1/2	132,722	1/2	147,742
3/4	12,957	3/4	27,871	3/4	42,897	3/4	57,918	3/4	72,941	3/4	87,968	3/4	102,994	3/4	118,016	3/4	133,035	3/4	148,055

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3036"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,368	0	163,388	0	178,399	0	193,375	0	208,279	0		0		0		0		0	
1/4	148,681	1/4	163,701	1/4	178,711	1/4	193,687	1/4	208,559	1/4		1/4		1/4		1/4		1/4	
1/2	148,994	1/2	164,014	1/2	179,023	1/2	193,999	1/2	208,839	1/2		1/2		1/2		1/2		1/2	
3/4	149,307	3/4	164,327	3/4	179,335	3/4	194,311	3/4	209,119	3/4		3/4		3/4		3/4		3/4	
1	149,620	1	164,640	1	179,647	1	194,623	1	209,400	1		1		1		1		1	
1/4	149,933	1/4	164,953	1/4	179,959	1/4	194,935	1/4	209,631	1/4		1/4		1/4		1/4		1/4	
1/2	150,246	1/2	165,266	1/2	180,271	1/2	195,247	1/2	209,863	1/2		1/2		1/2		1/2		1/2	
3/4	150,559	3/4	165,579	3/4	180,583	3/4	195,559	3/4	210,095	3/4		3/4		3/4		3/4		3/4	
2	150,872	2	165,892	2	180,895	2	195,871	2	210,326	2		2		2		2		2	
1/4	151,184	1/4	166,204	1/4	181,207	1/4	196,183	1/4	210,506	1/4		1/4		1/4		1/4		1/4	
1/2	151,497	1/2	166,517	1/2	181,519	1/2	196,495	1/2	210,686	1/2		1/2		1/2		1/2		1/2	
3/4	151,810	3/4	166,830	3/4	181,831	3/4	196,807	3/4	210,865	3/4		3/4		3/4		3/4		3/4	
3	152,123	3	167,143	3	182,143	3	197,119	3	211,045	3		3		3		3		3	
1/4	152,436	1/4	167,456	1/4	182,455	1/4	197,431	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,749	1/2	167,769	1/2	182,767	1/2	197,743	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,062	3/4	168,082	3/4	183,079	3/4	198,055	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,375	4	168,395	4	183,391	4	198,367	4		4		4		4		4		4	
1/4	153,688	1/4	168,708	1/4	183,703	1/4	198,679	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,001	1/2	169,021	1/2	184,015	1/2	198,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,314	3/4	169,334	3/4	184,327	3/4	199,303	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,627	5	169,646	5	184,639	5	199,615	5		5		5		5		5		5	
1/4	154,939	1/4	169,959	1/4	184,951	1/4	199,926	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,252	1/2	170,272	1/2	185,263	1/2	200,237	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,565	3/4	170,585	3/4	185,575	3/4	200,548	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,878	6	170,898	6	185,887	6	200,859	6		6		6		6		6		6	
1/4	156,191	1/4	171,211	1/4	186,199	1/4	201,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,504	1/2	171,524	1/2	186,511	1/2	201,479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,817	3/4	171,837	3/4	186,823	3/4	201,789	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,130	7	172,150	7	187,135	7	202,098	7		7		7		7		7		7	
1/4	157,443	1/4	172,463	1/4	187,447	1/4	202,408	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,756	1/2	172,776	1/2	187,759	1/2	202,718	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,069	3/4	173,089	3/4	188,071	3/4	203,028	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,382	8	173,401	8	188,383	8	203,338	8		8		8		8		8		8	
1/4	158,694	1/4	173,714	1/4	188,695	1/4	203,648	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,007	1/2	174,027	1/2	189,007	1/2	203,958	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,320	3/4	174,340	3/4	189,319	3/4	204,268	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,633	9	174,653	9	189,631	9	204,578	9		9		9		9		9		9	
1/4	159,946	1/4	174,966	1/4	189,943	1/4	204,888	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,259	1/2	175,278	1/2	190,255	1/2	205,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,572	3/4	175,591	3/4	190,567	3/4	205,508	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,885	10	175,903	10	190,879	10	205,818	10		10		10		10		10		10	
1/4	161,198	1/4	176,215	1/4	191,191	1/4	206,127	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,511	1/2	176,527	1/2	191,503	1/2	206,437	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,824	3/4	176,839	3/4	191,815	3/4	206,746	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,137	11	177,151	11	192,127	11	207,056	11		11		11		11		11		11	
1/4	162,449	1/4	177,463	1/4	192,439	1/4	207,366	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,762	1/2	177,775	1/2	192,751	1/2	207,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,075	3/4	178,087	3/4	193,063	3/4	207,973	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HSM 3036"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,034	0	15,735	0	30,836	0	45,564	0	60,086	0	74,977	0	90,080	0	105,183	0	120,281	0	135,377
1/4	1,270	1/4	16,050	1/4	31,150	1/4	45,866	1/4	60,389	1/4	75,291	1/4	90,395	1/4	105,498	1/4	120,595	1/4	135,691
1/2	1,506	1/2	16,364	1/2	31,465	1/2	46,168	1/2	60,692	1/2	75,606	1/2	90,709	1/2	105,812	1/2	120,910	1/2	136,006
3/4	1,742	3/4	16,679	3/4	31,780	3/4	46,470	3/4	60,994	3/4	75,921	3/4	91,024	3/4	106,127	3/4	121,224	3/4	136,320
1	1,978	1	16,994	1	32,094	1	46,772	1	61,297	1	76,235	1	91,339	1	106,442	1	121,539	1	136,635
1/4	2,272	1/4	17,308	1/4	32,409	1/4	47,074	1/4	61,600	1/4	76,550	1/4	91,653	1/4	106,756	1/4	121,853	1/4	136,949
1/2	2,566	1/2	17,623	1/2	32,723	1/2	47,375	1/2	61,903	1/2	76,865	1/2	91,968	1/2	107,071	1/2	122,168	1/2	137,264
3/4	2,860	3/4	17,938	3/4	33,038	3/4	47,677	3/4	62,206	3/4	77,179	3/4	92,283	3/4	107,386	3/4	122,482	3/4	137,578
2	3,155	2	18,252	2	33,353	2	47,979	2	62,509	2	77,494	2	92,597	2	107,700	2	122,797	2	137,893
1/4	3,468	1/4	18,567	1/4	33,667	1/4	48,281	1/4	62,812	1/4	77,809	1/4	92,912	1/4	108,015	1/4	123,111	1/4	138,207
1/2	3,782	1/2	18,882	1/2	33,982	1/2	48,583	1/2	63,114	1/2	78,123	1/2	93,226	1/2	108,330	1/2	123,426	1/2	138,522
3/4	4,096	3/4	19,196	3/4	34,297	3/4	48,885	3/4	63,417	3/4	78,438	3/4	93,541	3/4	108,644	3/4	123,740	3/4	138,836
3	4,409	3	19,511	3	34,611	3	49,187	3	63,720	3	78,753	3	93,856	3	108,959	3	124,055	3	139,150
1/4	4,724	1/4	19,826	1/4	34,926	1/4	49,490	1/4	64,023	1/4	79,067	1/4	94,170	1/4	109,274	1/4	124,369	1/4	139,465
1/2	5,038	1/2	20,140	1/2	35,241	1/2	49,792	1/2	64,326	1/2	79,382	1/2	94,485	1/2	109,588	1/2	124,684	1/2	139,779
3/4	5,352	3/4	20,455	3/4	35,555	3/4	50,094	3/4	64,629	3/4	79,697	3/4	94,800	3/4	109,903	3/4	124,998	3/4	140,094
4	5,667	4	20,769	4	35,870	4	50,396	4	64,932	4	80,011	4	95,114	4	110,217	4	125,313	4	140,408
1/4	5,981	1/4	21,084	1/4	36,179	1/4	50,699	1/4	65,240	1/4	80,326	1/4	95,429	1/4	110,532	1/4	125,627	1/4	140,723
1/2	6,296	1/2	21,399	1/2	36,487	1/2	51,001	1/2	65,549	1/2	80,640	1/2	95,744	1/2	110,846	1/2	125,942	1/2	141,037
3/4	6,611	3/4	21,713	3/4	36,796	3/4	51,304	3/4	65,858	3/4	80,955	3/4	96,058	3/4	111,161	3/4	126,256	3/4	141,352
5	6,925	5	22,028	5	37,105	5	51,606	5	66,167	5	81,270	5	96,373	5	111,475	5	126,571	5	141,666
1/4	7,240	1/4	22,343	1/4	37,408	1/4	51,909	1/4	66,481	1/4	81,584	1/4	96,688	1/4	111,790	1/4	126,885	1/4	141,981
1/2	7,555	1/2	22,657	1/2	37,711	1/2	52,212	1/2	66,796	1/2	81,899	1/2	97,002	1/2	112,104	1/2	127,200	1/2	142,295
3/4	7,869	3/4	22,972	3/4	38,013	3/4	52,515	3/4	67,111	3/4	82,214	3/4	97,317	3/4	112,419	3/4	127,514	3/4	142,610
6	8,184	6	23,287	6	38,316	6	52,817	6	67,425	6	82,528	6	97,632	6	112,733	6	127,829	6	142,924
1/4	8,498	1/4	23,601	1/4	38,619	1/4	53,120	1/4	67,740	1/4	82,843	1/4	97,946	1/4	113,048	1/4	128,143	1/4	143,239
1/2	8,813	1/2	23,916	1/2	38,921	1/2	53,423	1/2	68,054	1/2	83,158	1/2	98,261	1/2	113,362	1/2	128,458	1/2	143,553
3/4	9,128	3/4	24,230	3/4	39,223	3/4	53,726	3/4	68,369	3/4	83,472	3/4	98,576	3/4	113,677	3/4	128,772	3/4	143,868
7	9,442	7	24,545	7	39,526	7	54,029	7	68,684	7	83,787	7	98,890	7	113,991	7	129,087	7	144,182
1/4	9,757	1/4	24,860	1/4	39,828	1/4	54,332	1/4	68,998	1/4	84,102	1/4	99,205	1/4	114,306	1/4	129,401	1/4	144,497
1/2	10,072	1/2	25,174	1/2	40,130	1/2	54,635	1/2	69,313	1/2	84,416	1/2	99,519	1/2	114,620	1/2	129,716	1/2	144,811
3/4	10,386	3/4	25,489	3/4	40,431	3/4	54,937	3/4	69,628	3/4	84,731	3/4	99,834	3/4	114,935	3/4	130,030	3/4	145,126
8	10,701	8	25,804	8	40,733	8	55,240	8	69,942	8	85,046	8	100,149	8	115,249	8	130,345	8	145,440
1/4	11,016	1/4	26,118	1/4	41,035	1/4	55,543	1/4	70,257	1/4	85,360	1/4	100,463	1/4	115,564	1/4	130,659	1/4	145,755
1/2	11,330	1/2	26,433	1/2	41,337	1/2	55,846	1/2	70,572	1/2	85,675	1/2	100,778	1/2	115,878	1/2	130,974	1/2	146,069
3/4	11,645	3/4	26,747	3/4	41,639	3/4	56,149	3/4	70,886	3/4	85,990	3/4	101,093	3/4	116,193	3/4	131,288	3/4	146,384
9	11,960	9	27,062	9	41,941	9	56,452	9	71,201	9	86,304	9	101,407	9	116,507	9	131,603	9	146,698
1/4	12,274	1/4	27,376	1/4	42,243	1/4	56,755	1/4	71,516	1/4	86,619	1/4	101,722	1/4	116,822	1/4	131,917	1/4	147,013
1/2	12,589	1/2	27,691	1/2	42,545	1/2	57,057	1/2	71,830	1/2	86,933	1/2	102,037	1/2	117,136	1/2	132,232	1/2	147,327
3/4	12,903	3/4	28,005	3/4	42,847	3/4	57,360	3/4	72,145	3/4	87,248	3/4	102,351	3/4	117,451	3/4	132,546	3/4	147,642
10	13,218	10	28,320	10	43,149	10	57,663	10	72,460	10	87,563	10	102,666	10	117,765	10	132,861	10	147,956
1/4	13,533	1/4	28,634	1/4	43,451	1/4	57,966	1/4	72,774	1/4	87,877	1/4	102,981	1/4	118,080	1/4	133,175	1/4	148,271
1/2	13,847	1/2	28,949	1/2	43,753	1/2	58,269	1/2	73,089	1/2	88,192	1/2	103,295	1/2	118,394	1/2	133,490	1/2	148,585
3/4	14,162	3/4	29,263	3/4	44,054	3/4	58,572	3/4	73,404	3/4	88,507	3/4	103,610	3/4	118,709	3/4	133,804	3/4	148,900
11	14,477	11	29,577	11	44,356	11	58,875	11	73,718	11	88,821	11	103,925	11	119,023	11	134,119	11	149,214
1/4	14,791	1/4	29,892	1/4	44,658	1/4	59,177	1/4	74,033	1/4	89,136	1/4	104,239	1/4	119,338	1/4	134,433	1/4	149,529
1/2	15,106	1/2	30,206	1/2	44,960	1/2	59,480	1/2	74,347	1/2	89,451	1/2	104,554	1/2	119,652	1/2	134,748	1/2	149,843
3/4	15,421	3/4	30,521	3/4	45,262	3/4	59,783	3/4	74,662	3/4	89,765	3/4	104,869	3/4	119,966	3/4	135,062	3/4	150,158

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD

GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3036"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,472	0	165,568	0	180,653	0	195,697	0	210,644	0		0		0		0		0	
1/4	150,787	1/4	165,882	1/4	180,966	1/4	196,011	1/4	210,925	1/4		1/4		1/4		1/4		1/4	
1/2	151,101	1/2	166,197	1/2	181,280	1/2	196,324	1/2	211,205	1/2		1/2		1/2		1/2		1/2	
3/4	151,416	3/4	166,511	3/4	181,593	3/4	196,637	3/4	211,486	3/4		3/4		3/4		3/4		3/4	
1	151,730	1	166,826	1	181,906	1	196,951	1	211,766	1		1		1		1		1	
1/4	152,045	1/4	167,140	1/4	182,220	1/4	197,264	1/4	211,998	1/4		1/4		1/4		1/4		1/4	
1/2	152,359	1/2	167,455	1/2	182,533	1/2	197,578	1/2	212,230	1/2		1/2		1/2		1/2		1/2	
3/4	152,674	3/4	167,769	3/4	182,847	3/4	197,891	3/4	212,462	3/4		3/4		3/4		3/4		3/4	
2	152,988	2	168,084	2	183,160	2	198,205	2	212,693	2		2		2		2		2	
1/4	153,303	1/4	168,398	1/4	183,474	1/4	198,518	1/4	212,873	1/4		1/4		1/4		1/4		1/4	
1/2	153,617	1/2	168,713	1/2	183,787	1/2	198,831	1/2	213,052	1/2		1/2		1/2		1/2		1/2	
3/4	153,932	3/4	169,027	3/4	184,100	3/4	199,145	3/4	213,232	3/4		3/4		3/4		3/4		3/4	
3	154,246	3	169,342	3	184,414	3	199,458	3	213,411	3		3		3		3		3	
1/4	154,561	1/4	169,656	1/4	184,727	1/4	199,772	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,875	1/2	169,971	1/2	185,041	1/2	200,085	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,190	3/4	170,285	3/4	185,354	3/4	200,398	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,504	4	170,600	4	185,668	4	200,712	4		4		4		4		4		4	
1/4	155,819	1/4	170,914	1/4	185,981	1/4	201,025	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,133	1/2	171,229	1/2	186,294	1/2	201,339	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,448	3/4	171,543	3/4	186,608	3/4	201,652	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,762	5	171,858	5	186,921	5	201,966	5		5		5		5		5		5	
1/4	157,077	1/4	172,172	1/4	187,235	1/4	202,277	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,391	1/2	172,487	1/2	187,548	1/2	202,589	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,706	3/4	172,801	3/4	187,862	3/4	202,901	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,020	6	173,116	6	188,175	6	203,213	6		6		6		6		6		6	
1/4	158,334	1/4	173,430	1/4	188,488	1/4	203,523	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,649	1/2	173,745	1/2	188,802	1/2	203,834	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,963	3/4	174,059	3/4	189,115	3/4	204,144	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,278	7	174,374	7	189,429	7	204,454	7		7		7		7		7		7	
1/4	159,592	1/4	174,688	1/4	189,742	1/4	204,765	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,907	1/2	175,003	1/2	190,055	1/2	205,075	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,221	3/4	175,317	3/4	190,369	3/4	205,386	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,536	8	175,632	8	190,682	8	205,696	8		8		8		8		8		8	
1/4	160,850	1/4	175,946	1/4	190,996	1/4	206,006	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,165	1/2	176,261	1/2	191,309	1/2	206,317	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,479	3/4	176,575	3/4	191,623	3/4	206,627	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,794	9	176,890	9	191,936	9	206,938	9		9		9		9		9		9	
1/4	162,108	1/4	177,203	1/4	192,249	1/4	207,248	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,423	1/2	177,517	1/2	192,563	1/2	207,559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,737	3/4	177,831	3/4	192,876	3/4	207,869	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,052	10	178,145	10	193,190	10	208,179	10		10		10		10		10		10	
1/4	163,366	1/4	178,459	1/4	193,503	1/4	208,489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,681	1/2	178,772	1/2	193,817	1/2	208,799	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,995	3/4	179,086	3/4	194,130	3/4	209,109	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,310	11	179,399	11	194,443	11	209,419	11		11		11		11		11		11	
1/4	164,624	1/4	179,712	1/4	194,757	1/4	209,726	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,939	1/2	180,026	1/2	195,070	1/2	210,032	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,253	3/4	180,339	3/4	195,384	3/4	210,338	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
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BARGE "HSM 3036"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,034	0	15,738	0	30,840	0	45,925	0	61,015	0	76,120	0	91,225	0	106,330	0	121,429	0	136,527
1/4	1,270	1/4	16,052	1/4	31,155	1/4	46,239	1/4	61,329	1/4	76,434	1/4	91,539	1/4	106,644	1/4	121,744	1/4	136,841
1/2	1,506	1/2	16,367	1/2	31,470	1/2	46,552	1/2	61,644	1/2	76,749	1/2	91,854	1/2	106,959	1/2	122,058	1/2	137,156
3/4	1,742	3/4	16,682	3/4	31,784	3/4	46,866	3/4	61,959	3/4	77,064	3/4	92,169	3/4	107,274	3/4	122,373	3/4	137,470
1	1,978	1	16,996	1	32,099	1	47,180	1	62,274	1	77,379	1	92,484	1	107,589	1	122,688	1	137,785
1/4	2,273	1/4	17,311	1/4	32,414	1/4	47,494	1/4	62,588	1/4	77,693	1/4	92,798	1/4	107,903	1/4	123,002	1/4	138,099
1/2	2,567	1/2	17,626	1/2	32,728	1/2	47,807	1/2	62,903	1/2	78,008	1/2	93,113	1/2	108,218	1/2	123,317	1/2	138,414
3/4	2,861	3/4	17,940	3/4	33,043	3/4	48,121	3/4	63,218	3/4	78,323	3/4	93,428	3/4	108,533	3/4	123,631	3/4	138,729
2	3,155	2	18,255	2	33,358	2	48,435	2	63,532	2	78,637	2	93,742	2	108,847	2	123,946	2	139,043
1/4	3,469	1/4	18,570	1/4	33,672	1/4	48,749	1/4	63,847	1/4	78,952	1/4	94,057	1/4	109,162	1/4	124,260	1/4	139,358
1/2	3,783	1/2	18,885	1/2	33,987	1/2	49,063	1/2	64,162	1/2	79,267	1/2	94,372	1/2	109,477	1/2	124,575	1/2	139,672
3/4	4,096	3/4	19,199	3/4	34,302	3/4	49,376	3/4	64,476	3/4	79,581	3/4	94,686	3/4	109,791	3/4	124,889	3/4	139,987
3	4,410	3	19,514	3	34,617	3	49,690	3	64,791	3	79,896	3	95,001	3	110,106	3	125,204	3	140,301
1/4	4,725	1/4	19,829	1/4	34,931	1/4	50,004	1/4	65,106	1/4	80,211	1/4	95,316	1/4	110,421	1/4	125,518	1/4	140,616
1/2	5,039	1/2	20,143	1/2	35,246	1/2	50,318	1/2	65,420	1/2	80,525	1/2	95,630	1/2	110,735	1/2	125,833	1/2	140,930
3/4	5,353	3/4	20,458	3/4	35,561	3/4	50,632	3/4	65,735	3/4	80,840	3/4	95,945	3/4	111,050	3/4	126,147	3/4	141,245
4	5,668	4	20,773	4	35,875	4	50,946	4	66,050	4	81,155	4	96,260	4	111,364	4	126,462	4	141,559
1/4	5,982	1/4	21,087	1/4	36,190	1/4	51,261	1/4	66,364	1/4	81,469	1/4	96,574	1/4	111,679	1/4	126,776	1/4	141,874
1/2	6,297	1/2	21,402	1/2	36,505	1/2	51,575	1/2	66,679	1/2	81,784	1/2	96,889	1/2	111,994	1/2	127,091	1/2	142,188
3/4	6,612	3/4	21,717	3/4	36,819	3/4	51,889	3/4	66,994	3/4	82,099	3/4	97,204	3/4	112,308	3/4	127,405	3/4	142,503
5	6,926	5	22,031	5	37,134	5	52,204	5	67,309	5	82,414	5	97,519	5	112,623	5	127,720	5	142,817
1/4	7,241	1/4	22,346	1/4	37,449	1/4	52,518	1/4	67,623	1/4	82,728	1/4	97,833	1/4	112,937	1/4	128,035	1/4	143,132
1/2	7,556	1/2	22,661	1/2	37,763	1/2	52,833	1/2	67,938	1/2	83,043	1/2	98,148	1/2	113,252	1/2	128,349	1/2	143,446
3/4	7,871	3/4	22,975	3/4	38,078	3/4	53,148	3/4	68,253	3/4	83,358	3/4	98,463	3/4	113,566	3/4	128,664	3/4	143,761
6	8,185	6	23,290	6	38,393	6	53,462	6	68,567	6	83,672	6	98,777	6	113,881	6	128,978	6	144,076
1/4	8,500	1/4	23,605	1/4	38,707	1/4	53,777	1/4	68,882	1/4	83,987	1/4	99,092	1/4	114,195	1/4	129,293	1/4	144,390
1/2	8,815	1/2	23,920	1/2	39,021	1/2	54,092	1/2	69,197	1/2	84,302	1/2	99,407	1/2	114,510	1/2	129,607	1/2	144,705
3/4	9,129	3/4	24,234	3/4	39,335	3/4	54,406	3/4	69,511	3/4	84,616	3/4	99,721	3/4	114,824	3/4	129,922	3/4	145,019
7	9,444	7	24,549	7	39,650	7	54,721	7	69,826	7	84,931	7	100,036	7	115,139	7	130,236	7	145,334
1/4	9,759	1/4	24,864	1/4	39,963	1/4	55,036	1/4	70,141	1/4	85,246	1/4	100,351	1/4	115,453	1/4	130,551	1/4	145,648
1/2	10,073	1/2	25,178	1/2	40,277	1/2	55,350	1/2	70,455	1/2	85,560	1/2	100,665	1/2	115,768	1/2	130,865	1/2	145,963
3/4	10,388	3/4	25,493	3/4	40,591	3/4	55,665	3/4	70,770	3/4	85,875	3/4	100,980	3/4	116,082	3/4	131,180	3/4	146,277
8	10,703	8	25,808	8	40,905	8	55,980	8	71,085	8	86,190	8	101,295	8	116,397	8	131,494	8	146,592
1/4	11,017	1/4	26,122	1/4	41,218	1/4	56,294	1/4	71,399	1/4	86,504	1/4	101,609	1/4	116,711	1/4	131,809	1/4	146,906
1/2	11,332	1/2	26,437	1/2	41,532	1/2	56,609	1/2	71,714	1/2	86,819	1/2	101,924	1/2	117,026	1/2	132,123	1/2	147,221
3/4	11,647	3/4	26,751	3/4	41,846	3/4	56,924	3/4	72,029	3/4	87,134	3/4	102,239	3/4	117,341	3/4	132,438	3/4	147,535
9	11,961	9	27,066	9	42,160	9	57,239	9	72,344	9	87,449	9	102,554	9	117,655	9	132,752	9	147,850
1/4	12,276	1/4	27,381	1/4	42,473	1/4	57,553	1/4	72,658	1/4	87,763	1/4	102,868	1/4	117,970	1/4	133,067	1/4	148,164
1/2	12,591	1/2	27,695	1/2	42,787	1/2	57,868	1/2	72,973	1/2	88,078	1/2	103,183	1/2	118,284	1/2	133,382	1/2	148,479
3/4	12,905	3/4	28,009	3/4	43,101	3/4	58,183	3/4	73,288	3/4	88,393	3/4	103,498	3/4	118,599	3/4	133,696	3/4	148,793
10	13,220	10	28,324	10	43,415	10	58,497	10	73,602	10	88,707	10	103,812	10	118,913	10	134,011	10	149,108
1/4	13,535	1/4	28,638	1/4	43,728	1/4	58,812	1/4	73,917	1/4	89,022	1/4	104,127	1/4	119,228	1/4	134,325	1/4	149,423
1/2	13,850	1/2	28,953	1/2	44,042	1/2	59,127	1/2	74,232	1/2	89,337	1/2	104,442	1/2	119,542	1/2	134,640	1/2	149,737
3/4	14,164	3/4	29,267	3/4	44,356	3/4	59,441	3/4	74,546	3/4	89,651	3/4	104,756	3/4	119,857	3/4	134,954	3/4	150,052
11	14,479	11	29,582	11	44,670	11	59,756	11	74,861	11	89,966	11	105,071	11	120,171	11	135,269	11	150,366
1/4	14,794	1/4	29,896	1/4	44,984	1/4	60,071	1/4	75,176	1/4	90,281	1/4	105,386	1/4	120,486	1/4	135,583	1/4	150,681
1/2	15,108	1/2	30,211	1/2	45,297	1/2	60,385	1/2	75,490	1/2	90,595	1/2	105,700	1/2	120,801	1/2	135,898	1/2	150,995
3/4	15,423	3/4	30,526	3/4	45,611	3/4	60,700	3/4	75,805	3/4	90,910	3/4	106,015	3/4	121,115	3/4	136,212	3/4	151,310

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "HSM 3036"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	151,624	0	166,722	0	181,808	0	196,855	0	211,804	0		0		0		0		0	
1/4	151,939	1/4	167,036	1/4	182,122	1/4	197,168	1/4	212,084	1/4		1/4		1/4		1/4		1/4	
1/2	152,253	1/2	167,351	1/2	182,435	1/2	197,482	1/2	212,365	1/2		1/2		1/2		1/2		1/2	
3/4	152,568	3/4	167,665	3/4	182,749	3/4	197,795	3/4	212,645	3/4		3/4		3/4		3/4		3/4	
1	152,882	1	167,980	1	183,062	1	198,108	1	212,926	1		1		1		1		1	
1/4	153,197	1/4	168,294	1/4	183,376	1/4	198,422	1/4	213,158	1/4		1/4		1/4		1/4		1/4	
1/2	153,511	1/2	168,609	1/2	183,689	1/2	198,735	1/2	213,389	1/2		1/2		1/2		1/2		1/2	
3/4	153,826	3/4	168,923	3/4	184,003	3/4	199,049	3/4	213,621	3/4		3/4		3/4		3/4		3/4	
2	154,140	2	169,238	2	184,316	2	199,362	2	213,853	2		2		2		2		2	
1/4	154,455	1/4	169,552	1/4	184,630	1/4	199,676	1/4	214,032	1/4		1/4		1/4		1/4		1/4	
1/2	154,770	1/2	169,867	1/2	184,943	1/2	199,989	1/2	214,212	1/2		1/2		1/2		1/2		1/2	
3/4	155,084	3/4	170,181	3/4	185,256	3/4	200,303	3/4	214,391	3/4		3/4		3/4		3/4		3/4	
3	155,399	3	170,496	3	185,570	3	200,616	3	214,571	3		3		3		3		3	
1/4	155,713	1/4	170,811	1/4	185,883	1/4	200,930	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,028	1/2	171,125	1/2	186,197	1/2	201,243	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,342	3/4	171,440	3/4	186,510	3/4	201,557	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,657	4	171,754	4	186,824	4	201,870	4		4		4		4		4		4	
1/4	156,971	1/4	172,069	1/4	187,137	1/4	202,183	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,286	1/2	172,383	1/2	187,451	1/2	202,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,600	3/4	172,698	3/4	187,764	3/4	202,810	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,915	5	173,012	5	188,078	5	203,124	5		5		5		5		5		5	
1/4	158,229	1/4	173,327	1/4	188,391	1/4	203,436	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,544	1/2	173,641	1/2	188,705	1/2	203,748	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,858	3/4	173,956	3/4	189,018	3/4	204,060	3/4		3/4		3/4		3/4		3/4		3/4	
6	159,173	6	174,270	6	189,331	6	204,371	6		6		6		6		6		6	
1/4	159,487	1/4	174,585	1/4	189,645	1/4	204,682	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,802	1/2	174,899	1/2	189,958	1/2	204,992	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,117	3/4	175,214	3/4	190,272	3/4	205,303	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,431	7	175,528	7	190,585	7	205,613	7		7		7		7		7		7	
1/4	160,746	1/4	175,843	1/4	190,899	1/4	205,923	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,060	1/2	176,158	1/2	191,212	1/2	206,234	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,375	3/4	176,472	3/4	191,526	3/4	206,544	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,689	8	176,787	8	191,839	8	206,855	8		8		8		8		8		8	
1/4	162,004	1/4	177,101	1/4	192,153	1/4	207,165	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,318	1/2	177,416	1/2	192,466	1/2	207,476	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,633	3/4	177,730	3/4	192,780	3/4	207,786	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,947	9	178,045	9	193,093	9	208,097	9		9		9		9		9		9	
1/4	163,262	1/4	178,359	1/4	193,406	1/4	208,407	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,576	1/2	178,673	1/2	193,720	1/2	208,718	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,891	3/4	178,987	3/4	194,033	3/4	209,028	3/4		3/4		3/4		3/4		3/4		3/4	
10	164,205	10	179,301	10	194,347	10	209,338	10		10		10		10		10		10	
1/4	164,520	1/4	179,614	1/4	194,660	1/4	209,648	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,834	1/2	179,928	1/2	194,974	1/2	209,958	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,149	3/4	180,241	3/4	195,287	3/4	210,268	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,464	11	180,555	11	195,601	11	210,578	11		11		11		11		11		11	
1/4	165,778	1/4	180,868	1/4	195,914	1/4	210,885	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,093	1/2	181,181	1/2	196,228	1/2	211,191	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,407	3/4	181,495	3/4	196,541	3/4	211,497	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3036"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,027	0	15,610	0	30,577	0	45,315	0	59,851	0	74,739	0	89,683	0	104,640	0	119,586	0	134,528
1/4	1,261	1/4	15,922	1/4	30,889	1/4	45,617	1/4	60,163	1/4	75,049	1/4	89,995	1/4	104,951	1/4	119,897	1/4	134,840
1/2	1,495	1/2	16,234	1/2	31,201	1/2	45,918	1/2	60,474	1/2	75,359	1/2	90,306	1/2	105,263	1/2	120,208	1/2	135,151
3/4	1,729	3/4	16,546	3/4	31,513	3/4	46,219	3/4	60,786	3/4	75,669	3/4	90,618	3/4	105,575	3/4	120,520	3/4	135,462
1	1,963	1	16,858	1	31,824	1	46,520	1	61,097	1	75,978	1	90,929	1	105,886	1	120,831	1	135,774
1/4	2,256	1/4	17,170	1/4	32,136	1/4	46,822	1/4	61,408	1/4	76,288	1/4	91,241	1/4	106,198	1/4	121,142	1/4	136,085
1/2	2,548	1/2	17,481	1/2	32,448	1/2	47,124	1/2	61,720	1/2	76,598	1/2	91,552	1/2	106,510	1/2	121,453	1/2	136,396
3/4	2,840	3/4	17,793	3/4	32,760	3/4	47,425	3/4	62,031	3/4	76,908	3/4	91,864	3/4	106,821	3/4	121,765	3/4	136,707
2	3,132	2	18,105	2	33,072	2	47,727	2	62,343	2	77,218	2	92,175	2	107,133	2	122,076	2	137,019
1/4	3,443	1/4	18,417	1/4	33,384	1/4	48,029	1/4	62,654	1/4	77,529	1/4	92,487	1/4	107,444	1/4	122,387	1/4	137,330
1/2	3,754	1/2	18,729	1/2	33,695	1/2	48,331	1/2	62,964	1/2	77,839	1/2	92,798	1/2	107,756	1/2	122,699	1/2	137,641
3/4	4,066	3/4	19,041	3/4	34,007	3/4	48,633	3/4	63,275	3/4	78,150	3/4	93,110	3/4	108,067	3/4	123,010	3/4	137,953
3	4,377	3	19,352	3	34,319	3	48,935	3	63,586	3	78,461	3	93,421	3	108,378	3	123,321	3	138,264
1/4	4,689	1/4	19,664	1/4	34,630	1/4	49,237	1/4	63,895	1/4	78,773	1/4	93,733	1/4	108,690	1/4	123,633	1/4	138,575
1/2	5,001	1/2	19,976	1/2	34,942	1/2	49,539	1/2	64,205	1/2	79,085	1/2	94,044	1/2	109,001	1/2	123,944	1/2	138,887
3/4	5,313	3/4	20,288	3/4	35,253	3/4	49,841	3/4	64,515	3/4	79,396	3/4	94,355	3/4	109,312	3/4	124,255	3/4	139,198
4	5,625	4	20,600	4	35,564	4	50,143	4	64,825	4	79,708	4	94,667	4	109,624	4	124,567	4	139,509
1/4	5,937	1/4	20,912	1/4	35,872	1/4	50,445	1/4	65,135	1/4	80,020	1/4	94,978	1/4	109,935	1/4	124,878	1/4	139,820
1/2	6,249	1/2	21,224	1/2	36,180	1/2	50,747	1/2	65,444	1/2	80,332	1/2	95,290	1/2	110,246	1/2	125,189	1/2	140,132
3/4	6,561	3/4	21,535	3/4	36,488	3/4	51,049	3/4	65,754	3/4	80,644	3/4	95,601	3/4	110,558	3/4	125,500	3/4	140,443
5	6,873	5	21,847	5	36,795	5	51,351	5	66,064	5	80,955	5	95,913	5	110,869	5	125,812	5	140,754
1/4	7,185	1/4	22,159	1/4	37,100	1/4	51,653	1/4	66,374	1/4	81,267	1/4	96,224	1/4	111,180	1/4	126,123	1/4	141,065
1/2	7,497	1/2	22,471	1/2	37,404	1/2	51,955	1/2	66,684	1/2	81,579	1/2	96,536	1/2	111,492	1/2	126,434	1/2	141,376
3/4	7,809	3/4	22,783	3/4	37,709	3/4	52,257	3/4	66,994	3/4	81,891	3/4	96,847	3/4	111,803	3/4	126,746	3/4	141,687
6	8,121	6	23,095	6	38,013	6	52,559	6	67,303	6	82,202	6	97,159	6	112,114	6	127,057	6	141,998
1/4	8,434	1/4	23,406	1/4	38,318	1/4	52,861	1/4	67,613	1/4	82,514	1/4	97,470	1/4	112,426	1/4	127,368	1/4	142,305
1/2	8,746	1/2	23,718	1/2	38,622	1/2	53,163	1/2	67,923	1/2	82,826	1/2	97,782	1/2	112,737	1/2	127,680	1/2	142,611
3/4	9,058	3/4	24,030	3/4	38,927	3/4	53,465	3/4	68,233	3/4	83,138	3/4	98,093	3/4	113,048	3/4	127,991	3/4	142,918
7	9,370	7	24,342	7	39,231	7	53,767	7	68,543	7	83,450	7	98,405	7	113,359	7	128,302	7	143,225
1/4	9,683	1/4	24,654	1/4	39,536	1/4	54,069	1/4	68,853	1/4	83,761	1/4	98,717	1/4	113,671	1/4	128,614	1/4	143,519
1/2	9,995	1/2	24,966	1/2	39,841	1/2	54,371	1/2	69,162	1/2	84,073	1/2	99,029	1/2	113,982	1/2	128,925	1/2	143,813
3/4	10,307	3/4	25,278	3/4	40,145	3/4	54,673	3/4	69,472	3/4	84,385	3/4	99,340	3/4	114,293	3/4	129,236	3/4	144,107
8	10,620	8	25,589	8	40,450	8	54,975	8	69,782	8	84,697	8	99,652	8	114,605	8	129,547	8	144,402
1/4	10,932	1/4	25,901	1/4	40,754	1/4	55,277	1/4	70,092	1/4	85,009	1/4	99,964	1/4	114,916	1/4	129,859	1/4	144,680
1/2	11,244	1/2	26,213	1/2	41,059	1/2	55,579	1/2	70,402	1/2	85,320	1/2	100,275	1/2	115,227	1/2	130,170	1/2	144,958
3/4	11,556	3/4	26,525	3/4	41,363	3/4	55,881	3/4	70,711	3/4	85,632	3/4	100,587	3/4	115,539	3/4	130,481	3/4	145,236
9	11,868	9	26,837	9	41,668	9	56,183	9	71,021	9	85,944	9	100,899	9	115,850	9	130,793	9	145,514
1/4	12,180	1/4	27,148	1/4	41,972	1/4	56,486	1/4	71,331	1/4	86,256	1/4	101,211	1/4	116,161	1/4	131,104	1/4	145,777
1/2	12,492	1/2	27,460	1/2	42,277	1/2	56,790	1/2	71,641	1/2	86,567	1/2	101,522	1/2	116,473	1/2	131,415	1/2	146,039
3/4	12,804	3/4	27,772	3/4	42,581	3/4	57,093	3/4	71,951	3/4	86,879	3/4	101,834	3/4	116,784	3/4	131,727	3/4	146,302
10	13,115	10	28,083	10	42,886	10	57,397	10	72,261	10	87,191	10	102,146	10	117,095	10	132,038	10	146,564
1/4	13,427	1/4	28,395	1/4	43,190	1/4	57,702	1/4	72,570	1/4	87,503	1/4	102,457	1/4	117,406	1/4	132,349	1/4	146,811
1/2	13,739	1/2	28,707	1/2	43,495	1/2	58,007	1/2	72,880	1/2	87,814	1/2	102,769	1/2	117,718	1/2	132,660	1/2	147,058
3/4	14,051	3/4	29,018	3/4	43,799	3/4	58,313	3/4	73,190	3/4	88,126	3/4	103,081	3/4	118,029	3/4	132,972	3/4	147,305
11	14,363	11	29,330	11	44,104	11	58,618	11	73,500	11	88,438	11	103,393	11	118,340	11	133,283	11	147,552
1/4	14,675	1/4	29,642	1/4	44,407	1/4	58,926	1/4	73,810	1/4	88,749	1/4	103,704	1/4	118,652	1/4	133,594	1/4	147,782
1/2	14,987	1/2	29,953	1/2	44,710	1/2	59,234	1/2	74,120	1/2	89,060	1/2	104,016	1/2	118,963	1/2	133,906	1/2	148,013
3/4	15,298	3/4	30,265	3/4	45,013	3/4	59,543	3/4	74,429	3/4	89,372	3/4	104,328	3/4	119,274	3/4	134,217	3/4	148,244

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
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BARGE "HSM 3036"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,475	0	158,841	0	169,186	0	179,503	0	189,804	0		0		0		0		0	
1/4	148,694	1/4	159,057	1/4	169,401	1/4	179,717	1/4	189,997	1/4		1/4		1/4		1/4		1/4	
1/2	148,913	1/2	159,273	1/2	169,616	1/2	179,932	1/2	190,190	1/2		1/2		1/2		1/2		1/2	
3/4	149,132	3/4	159,488	3/4	169,831	3/4	180,147	3/4	190,383	3/4		3/4		3/4		3/4		3/4	
1	149,351	1	159,704	1	170,046	1	180,362	1	190,575	1		1		1		1		1	
1/4	149,567	1/4	159,920	1/4	170,261	1/4	180,577	1/4	190,735	1/4		1/4		1/4		1/4		1/4	
1/2	149,783	1/2	160,135	1/2	170,476	1/2	180,792	1/2	190,894	1/2		1/2		1/2		1/2		1/2	
3/4	149,998	3/4	160,351	3/4	170,691	3/4	181,007	3/4	191,054	3/4		3/4		3/4		3/4		3/4	
2	150,214	2	160,567	2	170,906	2	181,222	2	191,213	2		2		2		2		2	
1/4	150,430	1/4	160,782	1/4	171,121	1/4	181,437	1/4	191,336	1/4		1/4		1/4		1/4		1/4	
1/2	150,645	1/2	160,998	1/2	171,336	1/2	181,652	1/2	191,460	1/2		1/2		1/2		1/2		1/2	
3/4	150,861	3/4	161,214	3/4	171,550	3/4	181,867	3/4	191,583	3/4		3/4		3/4		3/4		3/4	
3	151,077	3	161,429	3	171,765	3	182,082	3	191,707	3		3		3		3		3	
1/4	151,293	1/4	161,645	1/4	171,980	1/4	182,296	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,508	1/2	161,861	1/2	172,195	1/2	182,511	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,724	3/4	162,077	3/4	172,410	3/4	182,726	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,940	4	162,292	4	172,625	4	182,941	4		4		4		4		4		4	
1/4	152,155	1/4	162,508	1/4	172,840	1/4	183,156	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,371	1/2	162,724	1/2	173,055	1/2	183,371	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,587	3/4	162,939	3/4	173,270	3/4	183,586	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,802	5	163,155	5	173,485	5	183,801	5		5		5		5		5		5	
1/4	153,018	1/4	163,371	1/4	173,700	1/4	184,016	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,234	1/2	163,586	1/2	173,915	1/2	184,231	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,449	3/4	163,802	3/4	174,130	3/4	184,446	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,665	6	164,018	6	174,344	6	184,661	6		6		6		6		6		6	
1/4	153,881	1/4	164,233	1/4	174,559	1/4	184,876	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,096	1/2	164,449	1/2	174,774	1/2	185,090	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,312	3/4	164,665	3/4	174,989	3/4	185,305	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,528	7	164,880	7	175,204	7	185,520	7		7		7		7		7		7	
1/4	154,743	1/4	165,096	1/4	175,419	1/4	185,735	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,959	1/2	165,312	1/2	175,634	1/2	185,950	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,175	3/4	165,527	3/4	175,849	3/4	186,165	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,390	8	165,743	8	176,064	8	186,380	8		8		8		8		8		8	
1/4	155,606	1/4	165,959	1/4	176,279	1/4	186,595	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,822	1/2	166,174	1/2	176,494	1/2	186,810	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,037	3/4	166,390	3/4	176,709	3/4	187,025	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,253	9	166,606	9	176,923	9	187,240	9		9		9		9		9		9	
1/4	156,469	1/4	166,821	1/4	177,138	1/4	187,455	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,685	1/2	167,036	1/2	177,353	1/2	187,670	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,900	3/4	167,252	3/4	177,568	3/4	187,885	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,116	10	167,467	10	177,783	10	188,100	10		10		10		10		10		10	
1/4	157,332	1/4	167,682	1/4	177,998	1/4	188,315	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,547	1/2	167,897	1/2	178,213	1/2	188,530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,763	3/4	168,112	3/4	178,428	3/4	188,744	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,979	11	168,327	11	178,643	11	188,959	11		11		11		11		11		11	
1/4	158,194	1/4	168,542	1/4	178,858	1/4	189,170	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,410	1/2	168,756	1/2	179,073	1/2	189,382	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,626	3/4	168,971	3/4	179,288	3/4	189,593	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3036"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,028	0	15,635	0	30,641	0	45,631	0	60,636	0	75,643	0	90,650	0	105,657	0	120,647	0	135,633
1/4	1,262	1/4	15,947	1/4	30,954	1/4	45,944	1/4	60,949	1/4	75,956	1/4	90,962	1/4	105,969	1/4	120,959	1/4	135,946
1/2	1,496	1/2	16,260	1/2	31,266	1/2	46,256	1/2	61,262	1/2	76,268	1/2	91,275	1/2	106,282	1/2	121,271	1/2	136,258
3/4	1,731	3/4	16,573	3/4	31,579	3/4	46,568	3/4	61,574	3/4	76,581	3/4	91,588	3/4	106,594	3/4	121,583	3/4	136,570
1	1,965	1	16,885	1	31,892	1	46,881	1	61,887	1	76,894	1	91,900	1	106,907	1	121,896	1	136,882
1/4	2,258	1/4	17,198	1/4	32,204	1/4	47,193	1/4	62,200	1/4	77,206	1/4	92,213	1/4	107,220	1/4	122,208	1/4	137,194
1/2	2,550	1/2	17,511	1/2	32,517	1/2	47,506	1/2	62,512	1/2	77,519	1/2	92,526	1/2	107,532	1/2	122,520	1/2	137,507
3/4	2,842	3/4	17,823	3/4	32,829	3/4	47,818	3/4	62,825	3/4	77,832	3/4	92,838	3/4	107,845	3/4	122,832	3/4	137,819
2	3,135	2	18,136	2	33,142	2	48,131	2	63,138	2	78,144	2	93,151	2	108,157	2	123,144	2	138,131
1/4	3,446	1/4	18,448	1/4	33,455	1/4	48,443	1/4	63,450	1/4	78,457	1/4	93,464	1/4	108,469	1/4	123,457	1/4	138,443
1/2	3,758	1/2	18,761	1/2	33,767	1/2	48,756	1/2	63,763	1/2	78,770	1/2	93,776	1/2	108,782	1/2	123,769	1/2	138,756
3/4	4,070	3/4	19,074	3/4	34,080	3/4	49,069	3/4	64,075	3/4	79,082	3/4	94,089	3/4	109,094	3/4	124,081	3/4	139,068
3	4,381	3	19,386	3	34,393	3	49,381	3	64,388	3	79,395	3	94,402	3	109,406	3	124,393	3	139,380
1/4	4,694	1/4	19,699	1/4	34,705	1/4	49,694	1/4	64,701	1/4	79,707	1/4	94,714	1/4	109,719	1/4	124,706	1/4	139,692
1/2	5,006	1/2	20,012	1/2	35,017	1/2	50,007	1/2	65,013	1/2	80,020	1/2	95,027	1/2	110,031	1/2	125,018	1/2	140,005
3/4	5,318	3/4	20,324	3/4	35,330	3/4	50,319	3/4	65,326	3/4	80,333	3/4	95,339	3/4	110,343	3/4	125,330	3/4	140,317
4	5,631	4	20,637	4	35,642	4	50,632	4	65,639	4	80,645	4	95,652	4	110,656	4	125,642	4	140,629
1/4	5,943	1/4	20,950	1/4	35,954	1/4	50,945	1/4	65,951	1/4	80,958	1/4	95,965	1/4	110,968	1/4	125,954	1/4	140,941
1/2	6,256	1/2	21,262	1/2	36,266	1/2	51,257	1/2	66,264	1/2	81,271	1/2	96,277	1/2	111,280	1/2	126,267	1/2	141,253
3/4	6,569	3/4	21,575	3/4	36,579	3/4	51,570	3/4	66,577	3/4	81,583	3/4	96,590	3/4	111,592	3/4	126,579	3/4	141,565
5	6,881	5	21,887	5	36,891	5	51,882	5	66,889	5	81,896	5	96,903	5	111,904	5	126,891	5	141,878
1/4	7,194	1/4	22,200	1/4	37,203	1/4	52,195	1/4	67,202	1/4	82,209	1/4	97,215	1/4	112,217	1/4	127,203	1/4	142,189
1/2	7,506	1/2	22,513	1/2	37,515	1/2	52,508	1/2	67,514	1/2	82,521	1/2	97,528	1/2	112,529	1/2	127,516	1/2	142,501
3/4	7,819	3/4	22,825	3/4	37,827	3/4	52,820	3/4	67,827	3/4	82,834	3/4	97,841	3/4	112,841	3/4	127,828	3/4	142,813
6	8,132	6	23,138	6	38,139	6	53,133	6	68,140	6	83,146	6	98,153	6	113,153	6	128,140	6	143,125
1/4	8,444	1/4	23,451	1/4	38,451	1/4	53,446	1/4	68,452	1/4	83,459	1/4	98,466	1/4	113,466	1/4	128,452	1/4	143,433
1/2	8,757	1/2	23,763	1/2	38,764	1/2	53,758	1/2	68,765	1/2	83,772	1/2	98,778	1/2	113,778	1/2	128,764	1/2	143,740
3/4	9,070	3/4	24,076	3/4	39,076	3/4	54,071	3/4	69,078	3/4	84,084	3/4	99,091	3/4	114,090	3/4	129,077	3/4	144,048
7	9,382	7	24,388	7	39,388	7	54,384	7	69,390	7	84,397	7	99,404	7	114,402	7	129,389	7	144,355
1/4	9,695	1/4	24,701	1/4	39,700	1/4	54,696	1/4	69,703	1/4	84,710	1/4	99,716	1/4	114,714	1/4	129,701	1/4	144,650
1/2	10,007	1/2	25,014	1/2	40,012	1/2	55,009	1/2	70,016	1/2	85,022	1/2	100,029	1/2	115,027	1/2	130,013	1/2	144,945
3/4	10,320	3/4	25,326	3/4	40,324	3/4	55,322	3/4	70,328	3/4	85,335	3/4	100,342	3/4	115,339	3/4	130,326	3/4	145,241
8	10,633	8	25,639	8	40,637	8	55,634	8	70,641	8	85,648	8	100,654	8	115,651	8	130,638	8	145,536
1/4	10,945	1/4	25,952	1/4	40,949	1/4	55,947	1/4	70,954	1/4	85,960	1/4	100,967	1/4	115,963	1/4	130,950	1/4	145,815
1/2	11,258	1/2	26,264	1/2	41,261	1/2	56,259	1/2	71,266	1/2	86,273	1/2	101,280	1/2	116,276	1/2	131,262	1/2	146,094
3/4	11,571	3/4	26,577	3/4	41,573	3/4	56,572	3/4	71,579	3/4	86,586	3/4	101,592	3/4	116,588	3/4	131,574	3/4	146,373
9	11,883	9	26,890	9	41,885	9	56,885	9	71,891	9	86,898	9	101,905	9	116,900	9	131,887	9	146,652
1/4	12,196	1/4	27,202	1/4	42,197	1/4	57,197	1/4	72,204	1/4	87,211	1/4	102,218	1/4	117,212	1/4	132,199	1/4	146,915
1/2	12,509	1/2	27,515	1/2	42,509	1/2	57,510	1/2	72,517	1/2	87,523	1/2	102,530	1/2	117,524	1/2	132,511	1/2	147,178
3/4	12,821	3/4	27,827	3/4	42,822	3/4	57,823	3/4	72,829	3/4	87,836	3/4	102,843	3/4	117,837	3/4	132,823	3/4	147,441
10	13,134	10	28,140	10	43,134	10	58,135	10	73,142	10	88,149	10	103,155	10	118,149	10	133,136	10	147,704
1/4	13,446	1/4	28,453	1/4	43,446	1/4	58,448	1/4	73,455	1/4	88,461	1/4	103,468	1/4	118,461	1/4	133,448	1/4	147,951
1/2	13,759	1/2	28,765	1/2	43,758	1/2	58,761	1/2	73,767	1/2	88,774	1/2	103,781	1/2	118,773	1/2	133,760	1/2	148,199
3/4	14,072	3/4	29,078	3/4	44,070	3/4	59,073	3/4	74,080	3/4	89,087	3/4	104,093	3/4	119,086	3/4	134,072	3/4	148,446
11	14,384	11	29,391	11	44,382	11	59,386	11	74,393	11	89,399	11	104,406	11	119,398	11	134,384	11	148,693
1/4	14,697	1/4	29,703	1/4	44,695	1/4	59,698	1/4	74,705	1/4	89,712	1/4	104,719	1/4	119,710	1/4	134,697	1/4	148,924
1/2	15,010	1/2	30,016	1/2	45,007	1/2	60,011	1/2	75,018	1/2	90,025	1/2	105,031	1/2	120,022	1/2	135,009	1/2	149,155
3/4	15,322	3/4	30,328	3/4	45,319	3/4	60,324	3/4	75,330	3/4	90,337	3/4	105,344	3/4	120,334	3/4	135,321	3/4	149,386

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3036"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,617	0	159,991	0	170,344	0	180,668	0	190,977	0		0		0		0		0	
1/4	149,836	1/4	160,207	1/4	170,559	1/4	180,883	1/4	191,170	1/4		1/4		1/4		1/4		1/4	
1/2	150,056	1/2	160,423	1/2	170,774	1/2	181,098	1/2	191,363	1/2		1/2		1/2		1/2		1/2	
3/4	150,275	3/4	160,639	3/4	170,989	3/4	181,313	3/4	191,556	3/4		3/4		3/4		3/4		3/4	
1	150,494	1	160,855	1	171,204	1	181,528	1	191,749	1		1		1		1		1	
1/4	150,710	1/4	161,071	1/4	171,420	1/4	181,743	1/4	191,909	1/4		1/4		1/4		1/4		1/4	
1/2	150,926	1/2	161,286	1/2	171,635	1/2	181,958	1/2	192,068	1/2		1/2		1/2		1/2		1/2	
3/4	151,142	3/4	161,502	3/4	171,850	3/4	182,174	3/4	192,228	3/4		3/4		3/4		3/4		3/4	
2	151,358	2	161,718	2	172,065	2	182,389	2	192,387	2		2		2		2		2	
1/4	151,574	1/4	161,934	1/4	172,280	1/4	182,604	1/4	192,511	1/4		1/4		1/4		1/4		1/4	
1/2	151,789	1/2	162,150	1/2	172,495	1/2	182,819	1/2	192,634	1/2		1/2		1/2		1/2		1/2	
3/4	152,005	3/4	162,366	3/4	172,710	3/4	183,034	3/4	192,758	3/4		3/4		3/4		3/4		3/4	
3	152,221	3	162,581	3	172,925	3	183,249	3	192,881	3		3		3		3		3	
1/4	152,437	1/4	162,797	1/4	173,140	1/4	183,464	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,653	1/2	163,013	1/2	173,355	1/2	183,679	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,869	3/4	163,229	3/4	173,570	3/4	183,894	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,084	4	163,445	4	173,785	4	184,109	4		4		4		4		4		4	
1/4	153,300	1/4	163,661	1/4	174,000	1/4	184,324	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,516	1/2	163,876	1/2	174,216	1/2	184,539	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,732	3/4	164,092	3/4	174,431	3/4	184,755	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,948	5	164,308	5	174,646	5	184,970	5		5		5		5		5		5	
1/4	154,164	1/4	164,524	1/4	174,861	1/4	185,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,379	1/2	164,740	1/2	175,076	1/2	185,400	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,595	3/4	164,956	3/4	175,291	3/4	185,615	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,811	6	165,172	6	175,506	6	185,830	6		6		6		6		6		6	
1/4	155,027	1/4	165,387	1/4	175,721	1/4	186,045	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,243	1/2	165,603	1/2	175,936	1/2	186,260	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,459	3/4	165,819	3/4	176,151	3/4	186,475	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,675	7	166,035	7	176,366	7	186,690	7		7		7		7		7		7	
1/4	155,890	1/4	166,251	1/4	176,581	1/4	186,905	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,106	1/2	166,467	1/2	176,797	1/2	187,121	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,322	3/4	166,682	3/4	177,012	3/4	187,336	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,538	8	166,898	8	177,227	8	187,551	8		8		8		8		8		8	
1/4	156,754	1/4	167,114	1/4	177,442	1/4	187,766	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,970	1/2	167,330	1/2	177,657	1/2	187,981	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,185	3/4	167,546	3/4	177,872	3/4	188,196	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,401	9	167,762	9	178,087	9	188,412	9		9		9		9		9		9	
1/4	157,617	1/4	167,977	1/4	178,302	1/4	188,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,833	1/2	168,193	1/2	178,517	1/2	188,842	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,049	3/4	168,408	3/4	178,732	3/4	189,057	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,265	10	168,623	10	178,947	10	189,272	10		10		10		10		10		10	
1/4	158,480	1/4	168,839	1/4	179,162	1/4	189,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,696	1/2	169,054	1/2	179,378	1/2	189,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,912	3/4	169,269	3/4	179,593	3/4	189,917	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,128	11	169,484	11	179,808	11	190,131	11		11		11		11		11		11	
1/4	159,344	1/4	169,699	1/4	180,023	1/4	190,343	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,560	1/2	169,914	1/2	180,238	1/2	190,554	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,775	3/4	170,129	3/4	180,453	3/4	190,766	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/20/20

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3036"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1	1	1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2	2	2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3	3	3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4	4	4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5	5	5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6	6	6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7	7	7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8	8	8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9	9	9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10	10	10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11	11	11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 01/21/2020 CL
CALCULATED: 01/22/2020 CL
PRINTED: 01/22/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

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



BARGE "HSM 3036"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1	1	1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2	2	2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3	3	3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4	4	4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5	5	5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6	6	6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7	7	7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8	8	8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9	9	9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10	10	10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11	11	11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3036"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 4'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	99	0	254	0	406	0		0		0		0		0		0	
1/4	1	1/4	102	1/4	257	1/4	409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	105	1/2	260	1/2	411	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	108	3/4	264	3/4	414	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	111	1	267	1	417	1		1		1		1		1		1	
1/4	4	1/4	114	1/4	270	1/4	420	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	117	1/2	274	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	120	3/4	277	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	123	2	280	2	428	2		2		2		2		2		2	
1/4	9	1/4	126	1/4	284	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	130	1/2	287	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	133	3/4	290	3/4	435	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	136	3	294	3	438	3		3		3		3		3		3	
1/4	15	1/4	139	1/4	297	1/4	441	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	142	1/2	300	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	145	3/4	303	3/4	445	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	148	4	307	4	448	4		4		4		4		4		4	
1/4	22	1/4	152	1/4	310	1/4	450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	155	1/2	313	1/2	452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	158	3/4	317	3/4	455	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	161	5	320	5	457	5		5		5		5		5		5	
1/4	30	1/4	164	1/4	323	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	32	1/2	168	1/2	326	1/2	461	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	171	3/4	330	3/4	464	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	174	6	333	6	466	6		6		6		6		6		6	
1/4	39	1/4	177	1/4	336	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	181	1/2	339	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	184	3/4	342	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	187	7	346	7	474	7		7		7		7		7		7	
1/4	48	1/4	190	1/4	349	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	194	1/2	352	1/2	477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	197	3/4	355	3/4	479	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	200	8	358	8	481	8		8		8		8		8		8	
1/4	58	1/4	204	1/4	361	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	207	1/2	364	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	210	3/4	367	3/4	485	3/4		3/4		3/4		3/4		3/4		3/4	
9	66	9	214	9	370	9	487	9		9		9		9		9		9	
1/4	69	1/4	217	1/4	373	1/4	488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	220	1/2	376	1/2	489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	224	3/4	380	3/4	490	3/4		3/4		3/4		3/4		3/4		3/4	
10	77	10	227	10	383	10	491	10		10		10		10		10		10	
1/4	80	1/4	230	1/4	386	1/4	492	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	234	1/2	388	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	85	3/4	237	3/4	391	3/4	493	3/4		3/4		3/4		3/4		3/4		3/4	
11	88	11	240	11	394	11	494	11		11		11		11		11		11	
1/4	91	1/4	244	1/4	397	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	247	1/2	400	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	97	3/4	250	3/4	403	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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