



BARGE "HSM 3030"

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"

December 4, 2019

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HSM 3030"

INNAGE TRIM TABLE "MMC" GAUGE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

December 4, 2019

**PRECISION MEASUREMENT
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BARGE "HSM 3030"

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	385	0	13,256	0	28,188	0	43,216	0	58,182	0	73,167	0	88,196	0	103,224	0	118,248	0	133,270
1/4	562	1/4	13,558	1/4	28,501	1/4	43,529	1/4	58,493	1/4	73,481	1/4	88,509	1/4	103,537	1/4	118,561	1/4	133,583
1/2	739	1/2	13,859	1/2	28,814	1/2	43,842	1/2	58,803	1/2	73,794	1/2	88,822	1/2	103,850	1/2	118,874	1/2	133,896
3/4	916	3/4	14,161	3/4	29,127	3/4	44,155	3/4	59,114	3/4	74,107	3/4	89,135	3/4	104,163	3/4	119,187	3/4	134,209
1	1,093	1	14,462	1	29,440	1	44,468	1	59,425	1	74,420	1	89,448	1	104,477	1	119,500	1	134,522
1/4	1,332	1/4	14,768	1/4	29,753	1/4	44,781	1/4	59,735	1/4	74,733	1/4	89,761	1/4	104,790	1/4	119,813	1/4	134,835
1/2	1,571	1/2	15,073	1/2	30,066	1/2	45,094	1/2	60,046	1/2	75,046	1/2	90,074	1/2	105,103	1/2	120,126	1/2	135,148
3/4	1,810	3/4	15,378	3/4	30,379	3/4	45,407	3/4	60,357	3/4	75,359	3/4	90,387	3/4	105,416	3/4	120,439	3/4	135,461
2	2,048	2	15,684	2	30,692	2	45,720	2	60,668	2	75,672	2	90,701	2	105,729	2	120,752	2	135,773
1/4	2,310	1/4	15,993	1/4	31,005	1/4	46,033	1/4	60,978	1/4	75,985	1/4	91,014	1/4	106,042	1/4	121,065	1/4	136,086
1/2	2,572	1/2	16,302	1/2	31,319	1/2	46,346	1/2	61,289	1/2	76,298	1/2	91,327	1/2	106,355	1/2	121,378	1/2	136,399
3/4	2,834	3/4	16,611	3/4	31,632	3/4	46,660	3/4	61,600	3/4	76,611	3/4	91,640	3/4	106,668	3/4	121,690	3/4	136,712
3	3,096	3	16,921	3	31,945	3	46,973	3	61,911	3	76,925	3	91,953	3	106,981	3	122,003	3	137,025
1/4	3,363	1/4	17,233	1/4	32,258	1/4	47,286	1/4	62,222	1/4	77,238	1/4	92,266	1/4	107,294	1/4	122,316	1/4	137,338
1/2	3,629	1/2	17,545	1/2	32,571	1/2	47,599	1/2	62,533	1/2	77,551	1/2	92,579	1/2	107,607	1/2	122,629	1/2	137,651
3/4	3,896	3/4	17,857	3/4	32,884	3/4	47,912	3/4	62,843	3/4	77,864	3/4	92,892	3/4	107,920	3/4	122,942	3/4	137,964
4	4,163	4	18,169	4	33,197	4	48,225	4	63,154	4	78,177	4	93,205	4	108,233	4	123,255	4	138,277
1/4	4,433	1/4	18,482	1/4	33,510	1/4	48,537	1/4	63,466	1/4	78,490	1/4	93,518	1/4	108,546	1/4	123,568	1/4	138,590
1/2	4,704	1/2	18,795	1/2	33,823	1/2	48,850	1/2	63,778	1/2	78,803	1/2	93,831	1/2	108,859	1/2	123,881	1/2	138,903
3/4	4,975	3/4	19,108	3/4	34,136	3/4	49,162	3/4	64,090	3/4	79,116	3/4	94,145	3/4	109,172	3/4	124,194	3/4	139,216
5	5,245	5	19,421	5	34,449	5	49,474	5	64,402	5	79,429	5	94,458	5	109,485	5	124,507	5	139,529
1/4	5,520	1/4	19,735	1/4	34,762	1/4	49,786	1/4	64,715	1/4	79,742	1/4	94,771	1/4	109,798	1/4	124,820	1/4	139,842
1/2	5,794	1/2	20,048	1/2	35,076	1/2	50,098	1/2	65,027	1/2	80,055	1/2	95,084	1/2	110,111	1/2	125,133	1/2	140,155
3/4	6,069	3/4	20,361	3/4	35,389	3/4	50,409	3/4	65,340	3/4	80,369	3/4	95,397	3/4	110,424	3/4	125,446	3/4	140,468
6	6,343	6	20,674	6	35,702	6	50,721	6	65,653	6	80,682	6	95,710	6	110,737	6	125,759	6	140,781
1/4	6,622	1/4	20,987	1/4	36,015	1/4	51,032	1/4	65,966	1/4	80,995	1/4	96,023	1/4	111,050	1/4	126,072	1/4	141,094
1/2	6,900	1/2	21,300	1/2	36,328	1/2	51,344	1/2	66,279	1/2	81,308	1/2	96,336	1/2	111,363	1/2	126,385	1/2	141,407
3/4	7,179	3/4	21,613	3/4	36,641	3/4	51,655	3/4	66,593	3/4	81,621	3/4	96,649	3/4	111,676	3/4	126,698	3/4	141,720
7	7,457	7	21,926	7	36,954	7	51,967	7	66,906	7	81,934	7	96,962	7	111,989	7	127,011	7	142,033
1/4	7,739	1/4	22,239	1/4	37,267	1/4	52,278	1/4	67,219	1/4	82,247	1/4	97,275	1/4	112,302	1/4	127,324	1/4	142,346
1/2	8,022	1/2	22,552	1/2	37,580	1/2	52,588	1/2	67,532	1/2	82,560	1/2	97,589	1/2	112,615	1/2	127,637	1/2	142,658
3/4	8,304	3/4	22,865	3/4	37,893	3/4	52,899	3/4	67,845	3/4	82,873	3/4	97,902	3/4	112,928	3/4	127,950	3/4	142,971
8	8,586	8	23,178	8	38,206	8	53,210	8	68,158	8	83,186	8	98,215	8	113,241	8	128,263	8	143,284
1/4	8,872	1/4	23,491	1/4	38,519	1/4	53,521	1/4	68,471	1/4	83,499	1/4	98,528	1/4	113,554	1/4	128,575	1/4	143,597
1/2	9,158	1/2	23,805	1/2	38,832	1/2	53,832	1/2	68,784	1/2	83,813	1/2	98,841	1/2	113,867	1/2	128,888	1/2	143,910
3/4	9,444	3/4	24,118	3/4	39,146	3/4	54,143	3/4	69,097	3/4	84,126	3/4	99,154	3/4	114,180	3/4	129,201	3/4	144,223
9	9,730	9	24,431	9	39,459	9	54,453	9	69,410	9	84,439	9	99,467	9	114,492	9	129,514	9	144,536
1/4	10,020	1/4	24,744	1/4	39,772	1/4	54,764	1/4	69,723	1/4	84,752	1/4	99,780	1/4	114,805	1/4	129,827	1/4	144,849
1/2	10,310	1/2	25,057	1/2	40,085	1/2	55,075	1/2	70,037	1/2	85,065	1/2	100,093	1/2	115,118	1/2	130,140	1/2	145,162
3/4	10,600	3/4	25,370	3/4	40,398	3/4	55,385	3/4	70,350	3/4	85,378	3/4	100,406	3/4	115,431	3/4	130,453	3/4	145,475
10	10,890	10	25,683	10	40,711	10	55,696	10	70,663	10	85,691	10	100,719	10	115,744	10	130,766	10	145,788
1/4	11,184	1/4	25,996	1/4	41,024	1/4	56,007	1/4	70,976	1/4	86,004	1/4	101,033	1/4	116,057	1/4	131,079	1/4	146,101
1/2	11,478	1/2	26,309	1/2	41,337	1/2	56,318	1/2	71,289	1/2	86,317	1/2	101,346	1/2	116,370	1/2	131,392	1/2	146,414
3/4	11,772	3/4	26,622	3/4	41,650	3/4	56,628	3/4	71,602	3/4	86,630	3/4	101,659	3/4	116,683	3/4	131,705	3/4	146,727
11	12,066	11	26,935	11	41,963	11	56,939	11	71,915	11	86,943	11	101,972	11	116,996	11	132,018	11	147,040
1/4	12,363	1/4	27,248	1/4	42,276	1/4	57,250	1/4	72,228	1/4	87,257	1/4	102,285	1/4	117,309	1/4	132,331	1/4	147,353
1/2	12,661	1/2	27,562	1/2	42,589	1/2	57,560	1/2	72,541	1/2	87,570	1/2	102,598	1/2	117,622	1/2	132,644	1/2	147,666
3/4	12,958	3/4	27,875	3/4	42,903	3/4	57,871	3/4	72,854	3/4	87,883	3/4	102,911	3/4	117,935	3/4	132,957	3/4	147,979

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 3030"

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	148,292	0	163,314	0	178,326	0	193,304	0	208,210	0		0		0		0		0	
1/4	148,605	1/4	163,626	1/4	178,638	1/4	193,616	1/4	208,490	1/4		1/4		1/4		1/4		1/4	
1/2	148,918	1/2	163,939	1/2	178,950	1/2	193,928	1/2	208,770	1/2		1/2		1/2		1/2		1/2	
3/4	149,231	3/4	164,252	3/4	179,262	3/4	194,240	3/4	209,050	3/4		3/4		3/4		3/4		3/4	
1	149,543	1	164,565	1	179,574	1	194,552	1	209,331	1		1		1		1		1	
1/4	149,856	1/4	164,878	1/4	179,886	1/4	194,864	1/4	209,562	1/4		1/4		1/4		1/4		1/4	
1/2	150,169	1/2	165,191	1/2	180,199	1/2	195,177	1/2	209,794	1/2		1/2		1/2		1/2		1/2	
3/4	150,482	3/4	165,504	3/4	180,511	3/4	195,489	3/4	210,026	3/4		3/4		3/4		3/4		3/4	
2	150,795	2	165,817	2	180,823	2	195,801	2	210,258	2		2		2		2		2	
1/4	151,108	1/4	166,130	1/4	181,135	1/4	196,113	1/4	210,437	1/4		1/4		1/4		1/4		1/4	
1/2	151,421	1/2	166,443	1/2	181,447	1/2	196,425	1/2	210,617	1/2		1/2		1/2		1/2		1/2	
3/4	151,734	3/4	166,756	3/4	181,759	3/4	196,737	3/4	210,796	3/4		3/4		3/4		3/4		3/4	
3	152,047	3	167,069	3	182,071	3	197,049	3	210,976	3		3		3		3		3	
1/4	152,360	1/4	167,382	1/4	182,383	1/4	197,361	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,673	1/2	167,695	1/2	182,695	1/2	197,673	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,986	3/4	168,008	3/4	183,007	3/4	197,985	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,299	4	168,321	4	183,319	4	198,297	4		4		4		4		4		4	
1/4	153,612	1/4	168,634	1/4	183,631	1/4	198,609	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,925	1/2	168,947	1/2	183,943	1/2	198,921	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,238	3/4	169,260	3/4	184,255	3/4	199,233	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,551	5	169,573	5	184,567	5	199,545	5		5		5		5		5		5	
1/4	154,864	1/4	169,886	1/4	184,879	1/4	199,856	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,177	1/2	170,199	1/2	185,191	1/2	200,167	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,490	3/4	170,511	3/4	185,503	3/4	200,478	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,803	6	170,824	6	185,815	6	200,789	6		6		6		6		6		6	
1/4	156,116	1/4	171,137	1/4	186,127	1/4	201,099	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,429	1/2	171,450	1/2	186,439	1/2	201,409	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,741	3/4	171,763	3/4	186,751	3/4	201,719	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,054	7	172,076	7	187,063	7	202,029	7		7		7		7		7		7	
1/4	157,367	1/4	172,389	1/4	187,375	1/4	202,339	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,680	1/2	172,702	1/2	187,688	1/2	202,649	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,993	3/4	173,015	3/4	188,000	3/4	202,959	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,306	8	173,328	8	188,312	8	203,268	8		8		8		8		8		8	
1/4	158,619	1/4	173,641	1/4	188,624	1/4	203,579	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,932	1/2	173,954	1/2	188,936	1/2	203,889	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,245	3/4	174,267	3/4	189,248	3/4	204,199	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,558	9	174,580	9	189,560	9	204,509	9		9		9		9		9		9	
1/4	159,871	1/4	174,892	1/4	189,872	1/4	204,819	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,184	1/2	175,205	1/2	190,184	1/2	205,129	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,497	3/4	175,517	3/4	190,496	3/4	205,438	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,810	10	175,830	10	190,808	10	205,748	10		10		10		10		10		10	
1/4	161,123	1/4	176,142	1/4	191,120	1/4	206,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,436	1/2	176,454	1/2	191,432	1/2	206,367	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,749	3/4	176,766	3/4	191,744	3/4	206,677	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,062	11	177,078	11	192,056	11	206,987	11		11		11		11		11		11	
1/4	162,375	1/4	177,390	1/4	192,368	1/4	207,292	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,688	1/2	177,702	1/2	192,680	1/2	207,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,001	3/4	178,014	3/4	192,992	3/4	207,904	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3030"

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	386	0	13,261	0	28,198	0	43,231	0	58,259	0	73,290	0	88,324	0	103,357	0	118,386	0	133,413
1/4	563	1/4	13,562	1/4	28,511	1/4	43,544	1/4	58,572	1/4	73,603	1/4	88,637	1/4	103,670	1/4	118,699	1/4	133,726
1/2	740	1/2	13,864	1/2	28,824	1/2	43,857	1/2	58,885	1/2	73,916	1/2	88,950	1/2	103,984	1/2	119,012	1/2	134,039
3/4	917	3/4	14,166	3/4	29,137	3/4	44,170	3/4	59,198	3/4	74,230	3/4	89,263	3/4	104,297	3/4	119,325	3/4	134,352
1	1,094	1	14,467	1	29,450	1	44,483	1	59,511	1	74,543	1	89,576	1	104,610	1	119,638	1	134,665
1/4	1,333	1/4	14,773	1/4	29,763	1/4	44,797	1/4	59,824	1/4	74,856	1/4	89,890	1/4	104,923	1/4	119,951	1/4	134,978
1/2	1,571	1/2	15,078	1/2	30,077	1/2	45,110	1/2	60,137	1/2	75,169	1/2	90,203	1/2	105,236	1/2	120,264	1/2	135,291
3/4	1,810	3/4	15,384	3/4	30,390	3/4	45,423	3/4	60,450	3/4	75,482	3/4	90,516	3/4	105,550	3/4	120,578	3/4	135,605
2	2,049	2	15,689	2	30,703	2	45,736	2	60,763	2	75,796	2	90,829	2	105,863	2	120,891	2	135,918
1/4	2,311	1/4	15,999	1/4	31,016	1/4	46,049	1/4	61,076	1/4	76,109	1/4	91,142	1/4	106,176	1/4	121,204	1/4	136,231
1/2	2,573	1/2	16,308	1/2	31,329	1/2	46,363	1/2	61,389	1/2	76,422	1/2	91,456	1/2	106,489	1/2	121,517	1/2	136,544
3/4	2,835	3/4	16,617	3/4	31,643	3/4	46,676	3/4	61,702	3/4	76,735	3/4	91,769	3/4	106,802	3/4	121,830	3/4	136,857
3	3,098	3	16,927	3	31,956	3	46,989	3	62,015	3	77,048	3	92,082	3	107,116	3	122,143	3	137,170
1/4	3,364	1/4	17,239	1/4	32,269	1/4	47,302	1/4	62,328	1/4	77,362	1/4	92,395	1/4	107,429	1/4	122,456	1/4	137,483
1/2	3,631	1/2	17,551	1/2	32,582	1/2	47,615	1/2	62,641	1/2	77,675	1/2	92,708	1/2	107,742	1/2	122,769	1/2	137,796
3/4	3,898	3/4	17,863	3/4	32,895	3/4	47,928	3/4	62,955	3/4	77,988	3/4	93,022	3/4	108,055	3/4	123,082	3/4	138,109
4	4,164	4	18,175	4	33,209	4	48,242	4	63,268	4	78,301	4	93,335	4	108,368	4	123,395	4	138,422
1/4	4,435	1/4	18,489	1/4	33,522	1/4	48,555	1/4	63,581	1/4	78,614	1/4	93,648	1/4	108,681	1/4	123,708	1/4	138,735
1/2	4,706	1/2	18,802	1/2	33,835	1/2	48,868	1/2	63,894	1/2	78,928	1/2	93,961	1/2	108,994	1/2	124,021	1/2	139,048
3/4	4,976	3/4	19,115	3/4	34,148	3/4	49,181	3/4	64,207	3/4	79,241	3/4	94,274	3/4	109,307	3/4	124,334	3/4	139,361
5	5,247	5	19,428	5	34,461	5	49,494	5	64,521	5	79,554	5	94,588	5	109,620	5	124,647	5	139,674
1/4	5,522	1/4	19,741	1/4	34,775	1/4	49,808	1/4	64,834	1/4	79,867	1/4	94,901	1/4	109,933	1/4	124,960	1/4	139,987
1/2	5,796	1/2	20,055	1/2	35,088	1/2	50,121	1/2	65,147	1/2	80,180	1/2	95,214	1/2	110,246	1/2	125,273	1/2	140,301
3/4	6,071	3/4	20,368	3/4	35,401	3/4	50,434	3/4	65,460	3/4	80,494	3/4	95,527	3/4	110,559	3/4	125,587	3/4	140,614
6	6,346	6	20,681	6	35,714	6	50,747	6	65,773	6	80,807	6	95,840	6	110,873	6	125,900	6	140,927
1/4	6,624	1/4	20,994	1/4	36,027	1/4	51,060	1/4	66,086	1/4	81,120	1/4	96,154	1/4	111,186	1/4	126,213	1/4	141,240
1/2	6,903	1/2	21,307	1/2	36,340	1/2	51,373	1/2	66,400	1/2	81,433	1/2	96,467	1/2	111,499	1/2	126,526	1/2	141,553
3/4	7,181	3/4	21,621	3/4	36,654	3/4	51,687	3/4	66,713	3/4	81,746	3/4	96,780	3/4	111,812	3/4	126,839	3/4	141,866
7	7,460	7	21,934	7	36,967	7	52,000	7	67,026	7	82,060	7	97,093	7	112,125	7	127,152	7	142,179
1/4	7,742	1/4	22,247	1/4	37,280	1/4	52,313	1/4	67,339	1/4	82,373	1/4	97,406	1/4	112,438	1/4	127,465	1/4	142,492
1/2	8,024	1/2	22,560	1/2	37,593	1/2	52,626	1/2	67,652	1/2	82,686	1/2	97,720	1/2	112,751	1/2	127,778	1/2	142,805
3/4	8,307	3/4	22,873	3/4	37,906	3/4	52,939	3/4	67,966	3/4	82,999	3/4	98,033	3/4	113,064	3/4	128,091	3/4	143,118
8	8,589	8	23,187	8	38,220	8	53,252	8	68,279	8	83,312	8	98,346	8	113,377	8	128,404	8	143,431
1/4	8,875	1/4	23,500	1/4	38,533	1/4	53,565	1/4	68,592	1/4	83,626	1/4	98,659	1/4	113,690	1/4	128,717	1/4	143,744
1/2	9,162	1/2	23,813	1/2	38,846	1/2	53,878	1/2	68,905	1/2	83,939	1/2	98,972	1/2	114,003	1/2	129,030	1/2	144,057
3/4	9,448	3/4	24,126	3/4	39,159	3/4	54,191	3/4	69,218	3/4	84,252	3/4	99,286	3/4	114,316	3/4	129,343	3/4	144,370
9	9,734	9	24,439	9	39,472	9	54,504	9	69,532	9	84,565	9	99,599	9	114,629	9	129,656	9	144,684
1/4	10,024	1/4	24,752	1/4	39,786	1/4	54,817	1/4	69,845	1/4	84,878	1/4	99,912	1/4	114,942	1/4	129,969	1/4	144,997
1/2	10,314	1/2	25,066	1/2	40,099	1/2	55,130	1/2	70,158	1/2	85,192	1/2	100,225	1/2	115,255	1/2	130,282	1/2	145,310
3/4	10,604	3/4	25,379	3/4	40,412	3/4	55,443	3/4	70,471	3/4	85,505	3/4	100,538	3/4	115,568	3/4	130,596	3/4	145,623
10	10,894	10	25,692	10	40,725	10	55,756	10	70,784	10	85,818	10	100,852	10	115,882	10	130,909	10	145,936
1/4	11,188	1/4	26,005	1/4	41,038	1/4	56,069	1/4	71,098	1/4	86,131	1/4	101,165	1/4	116,195	1/4	131,222	1/4	146,249
1/2	11,482	1/2	26,318	1/2	41,351	1/2	56,381	1/2	71,411	1/2	86,444	1/2	101,478	1/2	116,508	1/2	131,535	1/2	146,562
3/4	11,776	3/4	26,632	3/4	41,665	3/4	56,694	3/4	71,724	3/4	86,758	3/4	101,791	3/4	116,821	3/4	131,848	3/4	146,875
11	12,070	11	26,945	11	41,978	11	57,007	11	72,037	11	87,071	11	102,104	11	117,134	11	132,161	11	147,188
1/4	12,368	1/4	27,258	1/4	42,291	1/4	57,320	1/4	72,350	1/4	87,384	1/4	102,418	1/4	117,447	1/4	132,474	1/4	147,501
1/2	12,665	1/2	27,571	1/2	42,604	1/2	57,633	1/2	72,664	1/2	87,697	1/2	102,731	1/2	117,760	1/2	132,787	1/2	147,814
3/4	12,963	3/4	27,884	3/4	42,917	3/4	57,946	3/4	72,977	3/4	88,010	3/4	103,044	3/4	118,073	3/4	133,100	3/4	148,127

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 3030"

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	148,440	0	163,468	0	178,486	0	193,469	0	208,380	0		0		0		0		0	
1/4	148,753	1/4	163,781	1/4	178,798	1/4	193,781	1/4	208,661	1/4		1/4		1/4		1/4		1/4	
1/2	149,066	1/2	164,094	1/2	179,110	1/2	194,094	1/2	208,941	1/2		1/2		1/2		1/2		1/2	
3/4	149,380	3/4	164,407	3/4	179,422	3/4	194,406	3/4	209,221	3/4		3/4		3/4		3/4		3/4	
1	149,693	1	164,720	1	179,734	1	194,718	1	209,501	1		1		1		1		1	
1/4	150,006	1/4	165,033	1/4	180,047	1/4	195,030	1/4	209,733	1/4		1/4		1/4		1/4		1/4	
1/2	150,319	1/2	165,346	1/2	180,359	1/2	195,342	1/2	209,965	1/2		1/2		1/2		1/2		1/2	
3/4	150,632	3/4	165,659	3/4	180,671	3/4	195,654	3/4	210,197	3/4		3/4		3/4		3/4		3/4	
2	150,945	2	165,972	2	180,983	2	195,966	2	210,429	2		2		2		2		2	
1/4	151,258	1/4	166,285	1/4	181,295	1/4	196,279	1/4	210,608	1/4		1/4		1/4		1/4		1/4	
1/2	151,571	1/2	166,598	1/2	181,607	1/2	196,591	1/2	210,788	1/2		1/2		1/2		1/2		1/2	
3/4	151,884	3/4	166,911	3/4	181,919	3/4	196,903	3/4	210,968	3/4		3/4		3/4		3/4		3/4	
3	152,197	3	167,224	3	182,232	3	197,215	3	211,147	3		3		3		3		3	
1/4	152,510	1/4	167,537	1/4	182,544	1/4	197,527	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,823	1/2	167,851	1/2	182,856	1/2	197,839	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,136	3/4	168,164	3/4	183,168	3/4	198,152	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,449	4	168,477	4	183,480	4	198,464	4		4		4		4		4		4	
1/4	153,762	1/4	168,790	1/4	183,792	1/4	198,776	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,076	1/2	169,103	1/2	184,105	1/2	199,088	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,389	3/4	169,416	3/4	184,417	3/4	199,400	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,702	5	169,729	5	184,729	5	199,712	5		5		5		5		5		5	
1/4	155,015	1/4	170,042	1/4	185,041	1/4	200,023	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,328	1/2	170,355	1/2	185,353	1/2	200,334	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,641	3/4	170,668	3/4	185,665	3/4	200,646	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,954	6	170,981	6	185,977	6	200,957	6		6		6		6		6		6	
1/4	156,267	1/4	171,294	1/4	186,290	1/4	201,267	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,580	1/2	171,607	1/2	186,602	1/2	201,577	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,893	3/4	171,920	3/4	186,914	3/4	201,887	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,206	7	172,234	7	187,226	7	202,197	7		7		7		7		7		7	
1/4	157,519	1/4	172,547	1/4	187,538	1/4	202,507	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,832	1/2	172,860	1/2	187,850	1/2	202,817	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,145	3/4	173,173	3/4	188,163	3/4	203,127	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,459	8	173,486	8	188,475	8	203,437	8		8		8		8		8		8	
1/4	158,772	1/4	173,799	1/4	188,787	1/4	203,747	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,085	1/2	174,112	1/2	189,099	1/2	204,057	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,398	3/4	174,425	3/4	189,411	3/4	204,367	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,711	9	174,738	9	189,723	9	204,678	9		9		9		9		9		9	
1/4	160,024	1/4	175,051	1/4	190,035	1/4	204,988	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,337	1/2	175,363	1/2	190,348	1/2	205,298	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,650	3/4	175,676	3/4	190,660	3/4	205,608	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,963	10	175,989	10	190,972	10	205,918	10		10		10		10		10		10	
1/4	161,276	1/4	176,301	1/4	191,284	1/4	206,227	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,589	1/2	176,613	1/2	191,596	1/2	206,537	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,902	3/4	176,925	3/4	191,908	3/4	206,847	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,215	11	177,237	11	192,221	11	207,156	11		11		11		11		11		11	
1/4	162,528	1/4	177,549	1/4	192,533	1/4	207,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,841	1/2	177,861	1/2	192,845	1/2	207,768	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,155	3/4	178,174	3/4	193,157	3/4	208,074	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HSM 3030"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,716	0	30,798	0	45,509	0	60,013	0	74,886	0	89,971	0	105,056	0	120,136	0	135,213
1/4	1,269	1/4	16,030	1/4	31,113	1/4	45,810	1/4	60,316	1/4	75,200	1/4	90,285	1/4	105,370	1/4	120,450	1/4	135,527
1/2	1,504	1/2	16,345	1/2	31,427	1/2	46,112	1/2	60,618	1/2	75,515	1/2	90,600	1/2	105,685	1/2	120,764	1/2	135,841
3/4	1,740	3/4	16,659	3/4	31,741	3/4	46,414	3/4	60,921	3/4	75,829	3/4	90,914	3/4	105,999	3/4	121,078	3/4	136,155
1	1,976	1	16,973	1	32,055	1	46,715	1	61,223	1	76,143	1	91,228	1	106,313	1	121,392	1	136,469
1/4	2,269	1/4	17,287	1/4	32,370	1/4	47,017	1/4	61,526	1/4	76,457	1/4	91,542	1/4	106,627	1/4	121,706	1/4	136,783
1/2	2,563	1/2	17,602	1/2	32,684	1/2	47,318	1/2	61,828	1/2	76,772	1/2	91,857	1/2	106,942	1/2	122,020	1/2	137,098
3/4	2,857	3/4	17,916	3/4	32,998	3/4	47,620	3/4	62,131	3/4	77,086	3/4	92,171	3/4	107,256	3/4	122,334	3/4	137,412
2	3,151	2	18,230	2	33,312	2	47,921	2	62,433	2	77,400	2	92,485	2	107,570	2	122,648	2	137,726
1/4	3,464	1/4	18,545	1/4	33,627	1/4	48,223	1/4	62,736	1/4	77,715	1/4	92,799	1/4	107,884	1/4	122,963	1/4	138,040
1/2	3,777	1/2	18,859	1/2	33,941	1/2	48,525	1/2	63,038	1/2	78,029	1/2	93,114	1/2	108,199	1/2	123,277	1/2	138,354
3/4	4,091	3/4	19,173	3/4	34,255	3/4	48,826	3/4	63,341	3/4	78,343	3/4	93,428	3/4	108,513	3/4	123,591	3/4	138,668
3	4,404	3	19,487	3	34,569	3	49,128	3	63,643	3	78,657	3	93,742	3	108,827	3	123,905	3	138,982
1/4	4,718	1/4	19,802	1/4	34,884	1/4	49,430	1/4	63,946	1/4	78,972	1/4	94,057	1/4	109,141	1/4	124,219	1/4	139,296
1/2	5,032	1/2	20,116	1/2	35,198	1/2	49,732	1/2	64,248	1/2	79,286	1/2	94,371	1/2	109,456	1/2	124,533	1/2	139,610
3/4	5,346	3/4	20,430	3/4	35,512	3/4	50,033	3/4	64,551	3/4	79,600	3/4	94,685	3/4	109,770	3/4	124,847	3/4	139,925
4	5,660	4	20,744	4	35,826	4	50,335	4	64,853	4	79,914	4	94,999	4	110,084	4	125,161	4	140,239
1/4	5,974	1/4	21,059	1/4	36,135	1/4	50,637	1/4	65,161	1/4	80,229	1/4	95,314	1/4	110,398	1/4	125,475	1/4	140,553
1/2	6,288	1/2	21,373	1/2	36,443	1/2	50,939	1/2	65,470	1/2	80,543	1/2	95,628	1/2	110,712	1/2	125,790	1/2	140,867
3/4	6,603	3/4	21,687	3/4	36,752	3/4	51,241	3/4	65,778	3/4	80,857	3/4	95,942	3/4	111,026	3/4	126,104	3/4	141,181
5	6,917	5	22,001	5	37,060	5	51,544	5	66,087	5	81,172	5	96,256	5	111,340	5	126,418	5	141,495
1/4	7,231	1/4	22,316	1/4	37,362	1/4	51,846	1/4	66,401	1/4	81,486	1/4	96,571	1/4	111,655	1/4	126,732	1/4	141,809
1/2	7,545	1/2	22,630	1/2	37,665	1/2	52,149	1/2	66,715	1/2	81,800	1/2	96,885	1/2	111,969	1/2	127,046	1/2	142,123
3/4	7,860	3/4	22,944	3/4	37,967	3/4	52,451	3/4	67,029	3/4	82,114	3/4	97,199	3/4	112,283	3/4	127,360	3/4	142,437
6	8,174	6	23,258	6	38,270	6	52,754	6	67,344	6	82,429	6	97,514	6	112,597	6	127,674	6	142,752
1/4	8,488	1/4	23,573	1/4	38,572	1/4	53,056	1/4	67,658	1/4	82,743	1/4	97,828	1/4	112,911	1/4	127,988	1/4	143,066
1/2	8,802	1/2	23,887	1/2	38,874	1/2	53,359	1/2	67,972	1/2	83,057	1/2	98,142	1/2	113,225	1/2	128,302	1/2	143,380
3/4	9,117	3/4	24,201	3/4	39,176	3/4	53,661	3/4	68,286	3/4	83,371	3/4	98,456	3/4	113,539	3/4	128,617	3/4	143,694
7	9,431	7	24,515	7	39,478	7	53,964	7	68,601	7	83,686	7	98,771	7	113,853	7	128,931	7	144,008
1/4	9,745	1/4	24,830	1/4	39,779	1/4	54,266	1/4	68,915	1/4	84,000	1/4	99,085	1/4	114,167	1/4	129,245	1/4	144,322
1/2	10,059	1/2	25,144	1/2	40,081	1/2	54,568	1/2	69,229	1/2	84,314	1/2	99,399	1/2	114,482	1/2	129,559	1/2	144,636
3/4	10,374	3/4	25,458	3/4	40,383	3/4	54,871	3/4	69,544	3/4	84,628	3/4	99,713	3/4	114,796	3/4	129,873	3/4	144,950
8	10,688	8	25,772	8	40,684	8	55,173	8	69,858	8	84,943	8	100,028	8	115,110	8	130,187	8	145,264
1/4	11,002	1/4	26,087	1/4	40,986	1/4	55,476	1/4	70,172	1/4	85,257	1/4	100,342	1/4	115,424	1/4	130,501	1/4	145,579
1/2	11,317	1/2	26,401	1/2	41,287	1/2	55,778	1/2	70,486	1/2	85,571	1/2	100,656	1/2	115,738	1/2	130,815	1/2	145,893
3/4	11,631	3/4	26,715	3/4	41,589	3/4	56,081	3/4	70,801	3/4	85,886	3/4	100,970	3/4	116,052	3/4	131,129	3/4	146,207
9	11,945	9	27,029	9	41,890	9	56,383	9	71,115	9	86,200	9	101,285	9	116,366	9	131,444	9	146,521
1/4	12,259	1/4	27,343	1/4	42,192	1/4	56,686	1/4	71,429	1/4	86,514	1/4	101,599	1/4	116,680	1/4	131,758	1/4	146,835
1/2	12,574	1/2	27,657	1/2	42,493	1/2	56,988	1/2	71,743	1/2	86,828	1/2	101,913	1/2	116,994	1/2	132,072	1/2	147,149
3/4	12,888	3/4	27,971	3/4	42,795	3/4	57,291	3/4	72,058	3/4	87,143	3/4	102,228	3/4	117,309	3/4	132,386	3/4	147,463
10	13,202	10	28,285	10	43,097	10	57,593	10	72,372	10	87,457	10	102,542	10	117,623	10	132,700	10	147,777
1/4	13,516	1/4	28,599	1/4	43,398	1/4	57,896	1/4	72,686	1/4	87,771	1/4	102,856	1/4	117,937	1/4	133,014	1/4	148,091
1/2	13,831	1/2	28,913	1/2	43,700	1/2	58,198	1/2	73,001	1/2	88,085	1/2	103,170	1/2	118,251	1/2	133,328	1/2	148,406
3/4	14,145	3/4	29,228	3/4	44,001	3/4	58,501	3/4	73,315	3/4	88,400	3/4	103,485	3/4	118,565	3/4	133,642	3/4	148,720
11	14,459	11	29,542	11	44,303	11	58,803	11	73,629	11	88,714	11	103,799	11	118,879	11	133,956	11	149,034
1/4	14,773	1/4	29,856	1/4	44,604	1/4	59,106	1/4	73,943	1/4	89,028	1/4	104,113	1/4	119,193	1/4	134,271	1/4	149,348
1/2	15,088	1/2	30,170	1/2	44,906	1/2	59,408	1/2	74,258	1/2	89,343	1/2	104,427	1/2	119,507	1/2	134,585	1/2	149,662
3/4	15,402	3/4	30,484	3/4	45,207	3/4	59,711	3/4	74,572	3/4	89,657	3/4	104,742	3/4	119,821	3/4	134,899	3/4	149,976

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 3030"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,290	0	165,368	0	180,434	0	195,460	0	210,390	0		0		0		0		0	
1/4	150,604	1/4	165,682	1/4	180,747	1/4	195,774	1/4	210,670	1/4		1/4		1/4		1/4		1/4	
1/2	150,918	1/2	165,996	1/2	181,060	1/2	196,087	1/2	210,950	1/2		1/2		1/2		1/2		1/2	
3/4	151,233	3/4	166,310	3/4	181,373	3/4	196,400	3/4	211,230	3/4		3/4		3/4		3/4		3/4	
1	151,547	1	166,624	1	181,686	1	196,713	1	211,510	1		1		1		1		1	
1/4	151,861	1/4	166,938	1/4	182,000	1/4	197,026	1/4	211,742	1/4		1/4		1/4		1/4		1/4	
1/2	152,175	1/2	167,252	1/2	182,313	1/2	197,339	1/2	211,973	1/2		1/2		1/2		1/2		1/2	
3/4	152,489	3/4	167,566	3/4	182,626	3/4	197,652	3/4	212,205	3/4		3/4		3/4		3/4		3/4	
2	152,803	2	167,880	2	182,939	2	197,965	2	212,436	2		2		2		2		2	
1/4	153,117	1/4	168,195	1/4	183,252	1/4	198,278	1/4	212,615	1/4		1/4		1/4		1/4		1/4	
1/2	153,431	1/2	168,509	1/2	183,565	1/2	198,591	1/2	212,795	1/2		1/2		1/2		1/2		1/2	
3/4	153,745	3/4	168,823	3/4	183,878	3/4	198,904	3/4	212,974	3/4		3/4		3/4		3/4		3/4	
3	154,060	3	169,137	3	184,191	3	199,217	3	213,153	3		3		3		3		3	
1/4	154,374	1/4	169,451	1/4	184,504	1/4	199,530	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,688	1/2	169,765	1/2	184,817	1/2	199,843	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,002	3/4	170,079	3/4	185,130	3/4	200,156	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,316	4	170,393	4	185,443	4	200,469	4		4		4		4		4		4	
1/4	155,630	1/4	170,707	1/4	185,756	1/4	200,782	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,944	1/2	171,022	1/2	186,069	1/2	201,095	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,258	3/4	171,336	3/4	186,382	3/4	201,408	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,572	5	171,650	5	186,695	5	201,721	5		5		5		5		5		5	
1/4	156,887	1/4	171,964	1/4	187,008	1/4	202,033	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,201	1/2	172,278	1/2	187,321	1/2	202,344	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,515	3/4	172,592	3/4	187,634	3/4	202,656	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,829	6	172,906	6	187,947	6	202,967	6		6		6		6		6		6	
1/4	158,143	1/4	173,220	1/4	188,260	1/4	203,277	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,457	1/2	173,534	1/2	188,573	1/2	203,587	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,771	3/4	173,849	3/4	188,887	3/4	203,897	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,085	7	174,163	7	189,200	7	204,207	7		7		7		7		7		7	
1/4	159,399	1/4	174,477	1/4	189,513	1/4	204,517	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,714	1/2	174,791	1/2	189,826	1/2	204,827	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,028	3/4	175,105	3/4	190,139	3/4	205,137	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,342	8	175,419	8	190,452	8	205,447	8		8		8		8		8		8	
1/4	160,656	1/4	175,733	1/4	190,765	1/4	205,757	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,970	1/2	176,047	1/2	191,078	1/2	206,067	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,284	3/4	176,362	3/4	191,391	3/4	206,378	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,598	9	176,676	9	191,704	9	206,688	9		9		9		9		9		9	
1/4	161,912	1/4	176,989	1/4	192,017	1/4	206,998	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,226	1/2	177,303	1/2	192,330	1/2	207,308	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,541	3/4	177,616	3/4	192,643	3/4	207,618	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,855	10	177,930	10	192,956	10	207,928	10		10		10		10		10		10	
1/4	163,169	1/4	178,243	1/4	193,269	1/4	208,237	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,483	1/2	178,556	1/2	193,582	1/2	208,547	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,797	3/4	178,869	3/4	193,895	3/4	208,856	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,111	11	179,182	11	194,208	11	209,166	11		11		11		11		11		11	
1/4	164,425	1/4	179,495	1/4	194,521	1/4	209,472	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,739	1/2	179,808	1/2	194,834	1/2	209,778	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,053	3/4	180,121	3/4	195,147	3/4	210,084	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3030"

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	1,033	0	15,717	0	30,799	0	45,864	0	60,934	0	76,019	0	91,104	0	106,189	0	121,268	0	136,345
1/4	1,269	1/4	16,031	1/4	31,114	1/4	46,177	1/4	61,248	1/4	76,333	1/4	91,418	1/4	106,503	1/4	121,582	1/4	136,660
1/2	1,504	1/2	16,345	1/2	31,428	1/2	46,490	1/2	61,562	1/2	76,647	1/2	91,732	1/2	106,817	1/2	121,896	1/2	136,974
3/4	1,740	3/4	16,660	3/4	31,742	3/4	46,804	3/4	61,877	3/4	76,961	3/4	92,046	3/4	107,131	3/4	122,210	3/4	137,288
1	1,976	1	16,974	1	32,056	1	47,117	1	62,191	1	77,276	1	92,361	1	107,446	1	122,525	1	137,602
1/4	2,270	1/4	17,288	1/4	32,371	1/4	47,430	1/4	62,505	1/4	77,590	1/4	92,675	1/4	107,760	1/4	122,839	1/4	137,916
1/2	2,563	1/2	17,602	1/2	32,685	1/2	47,744	1/2	62,819	1/2	77,904	1/2	92,989	1/2	108,074	1/2	123,153	1/2	138,230
3/4	2,857	3/4	17,917	3/4	32,999	3/4	48,057	3/4	63,134	3/4	78,219	3/4	93,303	3/4	108,388	3/4	123,467	3/4	138,544
2	3,151	2	18,231	2	33,313	2	48,370	2	63,448	2	78,533	2	93,618	2	108,703	2	123,781	2	138,858
1/4	3,464	1/4	18,545	1/4	33,628	1/4	48,684	1/4	63,762	1/4	78,847	1/4	93,932	1/4	109,017	1/4	124,095	1/4	139,172
1/2	3,778	1/2	18,859	1/2	33,942	1/2	48,997	1/2	64,076	1/2	79,161	1/2	94,246	1/2	109,331	1/2	124,409	1/2	139,487
3/4	4,091	3/4	19,174	3/4	34,256	3/4	49,311	3/4	64,391	3/4	79,476	3/4	94,561	3/4	109,645	3/4	124,723	3/4	139,801
3	4,404	3	19,488	3	34,571	3	49,624	3	64,705	3	79,790	3	94,875	3	109,960	3	125,037	3	140,115
1/4	4,718	1/4	19,802	1/4	34,885	1/4	49,938	1/4	65,019	1/4	80,104	1/4	95,189	1/4	110,274	1/4	125,352	1/4	140,429
1/2	5,032	1/2	20,117	1/2	35,199	1/2	50,251	1/2	65,334	1/2	80,418	1/2	95,503	1/2	110,588	1/2	125,666	1/2	140,743
3/4	5,346	3/4	20,431	3/4	35,513	3/4	50,565	3/4	65,648	3/4	80,733	3/4	95,818	3/4	110,902	3/4	125,980	3/4	141,057
4	5,660	4	20,745	4	35,828	4	50,879	4	65,962	4	81,047	4	96,132	4	111,217	4	126,294	4	141,371
1/4	5,975	1/4	21,059	1/4	36,142	1/4	51,192	1/4	66,276	1/4	81,361	1/4	96,446	1/4	111,531	1/4	126,608	1/4	141,685
1/2	6,289	1/2	21,374	1/2	36,456	1/2	51,506	1/2	66,591	1/2	81,676	1/2	96,760	1/2	111,845	1/2	126,922	1/2	141,999
3/4	6,603	3/4	21,688	3/4	36,770	3/4	51,820	3/4	66,905	3/4	81,990	3/4	97,075	3/4	112,159	3/4	127,236	3/4	142,314
5	6,917	5	22,002	5	37,085	5	52,134	5	67,219	5	82,304	5	97,389	5	112,473	5	127,550	5	142,628
1/4	7,232	1/4	22,316	1/4	37,399	1/4	52,448	1/4	67,533	1/4	82,618	1/4	97,703	1/4	112,787	1/4	127,864	1/4	142,942
1/2	7,546	1/2	22,631	1/2	37,713	1/2	52,763	1/2	67,848	1/2	82,933	1/2	98,018	1/2	113,101	1/2	128,179	1/2	143,256
3/4	7,860	3/4	22,945	3/4	38,028	3/4	53,077	3/4	68,162	3/4	83,247	3/4	98,332	3/4	113,415	3/4	128,493	3/4	143,570
6	8,174	6	23,259	6	38,342	6	53,391	6	68,476	6	83,561	6	98,646	6	113,729	6	128,807	6	143,884
1/4	8,489	1/4	23,573	1/4	38,656	1/4	53,706	1/4	68,790	1/4	83,875	1/4	98,960	1/4	114,044	1/4	129,121	1/4	144,198
1/2	8,803	1/2	23,888	1/2	38,969	1/2	54,020	1/2	69,105	1/2	84,190	1/2	99,275	1/2	114,358	1/2	129,435	1/2	144,512
3/4	9,117	3/4	24,202	3/4	39,283	3/4	54,334	3/4	69,419	3/4	84,504	3/4	99,589	3/4	114,672	3/4	129,749	3/4	144,826
7	9,431	7	24,516	7	39,597	7	54,648	7	69,733	7	84,818	7	99,903	7	114,986	7	130,063	7	145,141
1/4	9,746	1/4	24,831	1/4	39,910	1/4	54,963	1/4	70,048	1/4	85,132	1/4	100,217	1/4	115,300	1/4	130,377	1/4	145,455
1/2	10,060	1/2	25,145	1/2	40,224	1/2	55,277	1/2	70,362	1/2	85,447	1/2	100,532	1/2	115,614	1/2	130,691	1/2	145,769
3/4	10,374	3/4	25,459	3/4	40,537	3/4	55,591	3/4	70,676	3/4	85,761	3/4	100,846	3/4	115,928	3/4	131,006	3/4	146,083
8	10,688	8	25,773	8	40,850	8	55,905	8	70,990	8	86,075	8	101,160	8	116,242	8	131,320	8	146,397
1/4	11,003	1/4	26,088	1/4	41,164	1/4	56,220	1/4	71,305	1/4	86,390	1/4	101,474	1/4	116,556	1/4	131,634	1/4	146,711
1/2	11,317	1/2	26,402	1/2	41,477	1/2	56,534	1/2	71,619	1/2	86,704	1/2	101,789	1/2	116,871	1/2	131,948	1/2	147,025
3/4	11,631	3/4	26,716	3/4	41,790	3/4	56,848	3/4	71,933	3/4	87,018	3/4	102,103	3/4	117,185	3/4	132,262	3/4	147,339
9	11,946	9	27,030	9	42,104	9	57,163	9	72,247	9	87,332	9	102,417	9	117,499	9	132,576	9	147,653
1/4	12,260	1/4	27,344	1/4	42,417	1/4	57,477	1/4	72,562	1/4	87,647	1/4	102,732	1/4	117,813	1/4	132,890	1/4	147,968
1/2	12,574	1/2	27,658	1/2	42,730	1/2	57,791	1/2	72,876	1/2	87,961	1/2	103,046	1/2	118,127	1/2	133,204	1/2	148,282
3/4	12,888	3/4	27,972	3/4	43,044	3/4	58,105	3/4	73,190	3/4	88,275	3/4	103,360	3/4	118,441	3/4	133,518	3/4	148,596
10	13,203	10	28,286	10	43,357	10	58,420	10	73,505	10	88,589	10	103,674	10	118,755	10	133,833	10	148,910
1/4	13,517	1/4	28,600	1/4	43,670	1/4	58,734	1/4	73,819	1/4	88,904	1/4	103,989	1/4	119,069	1/4	134,147	1/4	149,224
1/2	13,831	1/2	28,914	1/2	43,984	1/2	59,048	1/2	74,133	1/2	89,218	1/2	104,303	1/2	119,383	1/2	134,461	1/2	149,538
3/4	14,145	3/4	29,228	3/4	44,297	3/4	59,362	3/4	74,447	3/4	89,532	3/4	104,617	3/4	119,698	3/4	134,775	3/4	149,852
11	14,460	11	29,543	11	44,610	11	59,677	11	74,762	11	89,847	11	104,931	11	120,012	11	135,089	11	150,166
1/4	14,774	1/4	29,857	1/4	44,924	1/4	59,991	1/4	75,076	1/4	90,161	1/4	105,246	1/4	120,326	1/4	135,403	1/4	150,480
1/2	15,088	1/2	30,171	1/2	45,237	1/2	60,305	1/2	75,390	1/2	90,475	1/2	105,560	1/2	120,640	1/2	135,717	1/2	150,795
3/4	15,402	3/4	30,485	3/4	45,550	3/4	60,619	3/4	75,704	3/4	90,789	3/4	105,874	3/4	120,954	3/4	136,031	3/4	151,109

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 3030"

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	151,423	0	166,500	0	181,567	0	196,593	0	211,522	0		0		0		0		0	
1/4	151,737	1/4	166,814	1/4	181,880	1/4	196,906	1/4	211,802	1/4		1/4		1/4		1/4		1/4	
1/2	152,051	1/2	167,128	1/2	182,193	1/2	197,219	1/2	212,083	1/2		1/2		1/2		1/2		1/2	
3/4	152,365	3/4	167,443	3/4	182,506	3/4	197,532	3/4	212,363	3/4		3/4		3/4		3/4		3/4	
1	152,679	1	167,757	1	182,819	1	197,845	1	212,643	1		1		1		1		1	
1/4	152,993	1/4	168,071	1/4	183,132	1/4	198,158	1/4	212,874	1/4		1/4		1/4		1/4		1/4	
1/2	153,307	1/2	168,385	1/2	183,445	1/2	198,471	1/2	213,106	1/2		1/2		1/2		1/2		1/2	
3/4	153,622	3/4	168,699	3/4	183,758	3/4	198,784	3/4	213,337	3/4		3/4		3/4		3/4		3/4	
2	153,936	2	169,013	2	184,071	2	199,097	2	213,569	2		2		2		2		2	
1/4	154,250	1/4	169,327	1/4	184,384	1/4	199,410	1/4	213,748	1/4		1/4		1/4		1/4		1/4	
1/2	154,564	1/2	169,641	1/2	184,697	1/2	199,724	1/2	213,927	1/2		1/2		1/2		1/2		1/2	
3/4	154,878	3/4	169,955	3/4	185,010	3/4	200,037	3/4	214,106	3/4		3/4		3/4		3/4		3/4	
3	155,192	3	170,270	3	185,323	3	200,350	3	214,286	3		3		3		3		3	
1/4	155,506	1/4	170,584	1/4	185,636	1/4	200,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,820	1/2	170,898	1/2	185,950	1/2	200,976	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,134	3/4	171,212	3/4	186,263	3/4	201,289	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,449	4	171,526	4	186,576	4	201,602	4		4		4		4		4		4	
1/4	156,763	1/4	171,840	1/4	186,889	1/4	201,915	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,077	1/2	172,154	1/2	187,202	1/2	202,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,391	3/4	172,468	3/4	187,515	3/4	202,541	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,705	5	172,782	5	187,828	5	202,854	5		5		5		5		5		5	
1/4	158,019	1/4	173,097	1/4	188,141	1/4	203,165	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,333	1/2	173,411	1/2	188,454	1/2	203,477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,647	3/4	173,725	3/4	188,767	3/4	203,788	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,961	6	174,039	6	189,080	6	204,100	6		6		6		6		6		6	
1/4	159,276	1/4	174,353	1/4	189,393	1/4	204,410	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,590	1/2	174,667	1/2	189,706	1/2	204,720	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,904	3/4	174,981	3/4	190,019	3/4	205,030	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,218	7	175,295	7	190,332	7	205,340	7		7		7		7		7		7	
1/4	160,532	1/4	175,609	1/4	190,645	1/4	205,650	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,846	1/2	175,924	1/2	190,958	1/2	205,960	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,160	3/4	176,238	3/4	191,271	3/4	206,270	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,474	8	176,552	8	191,584	8	206,580	8		8		8		8		8		8	
1/4	161,788	1/4	176,866	1/4	191,897	1/4	206,890	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,103	1/2	177,180	1/2	192,210	1/2	207,200	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,417	3/4	177,494	3/4	192,523	3/4	207,510	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,731	9	177,808	9	192,837	9	207,820	9		9		9		9		9		9	
1/4	163,045	1/4	178,122	1/4	193,150	1/4	208,130	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,359	1/2	178,435	1/2	193,463	1/2	208,440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,673	3/4	178,749	3/4	193,776	3/4	208,750	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,987	10	179,062	10	194,089	10	209,060	10		10		10		10		10		10	
1/4	164,301	1/4	179,376	1/4	194,402	1/4	209,370	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,615	1/2	179,689	1/2	194,715	1/2	209,680	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,930	3/4	180,002	3/4	195,028	3/4	209,989	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,244	11	180,315	11	195,341	11	210,299	11		11		11		11		11		11	
1/4	165,558	1/4	180,628	1/4	195,654	1/4	210,605	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,872	1/2	180,941	1/2	195,967	1/2	210,911	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,186	3/4	181,254	3/4	196,280	3/4	211,216	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3030"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3030"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,501	0	158,869	0	169,216	0	179,534	0	189,838	0		0		0		0		0	
1/4	148,720	1/4	159,085	1/4	169,431	1/4	179,749	1/4	190,031	1/4		1/4		1/4		1/4		1/4	
1/2	148,939	1/2	159,301	1/2	169,646	1/2	179,964	1/2	190,223	1/2		1/2		1/2		1/2		1/2	
3/4	149,158	3/4	159,516	3/4	169,861	3/4	180,179	3/4	190,416	3/4		3/4		3/4		3/4		3/4	
1	149,378	1	159,732	1	170,076	1	180,394	1	190,609	1		1		1		1		1	
1/4	149,593	1/4	159,948	1/4	170,291	1/4	180,609	1/4	190,768	1/4		1/4		1/4		1/4		1/4	
1/2	149,809	1/2	160,164	1/2	170,506	1/2	180,824	1/2	190,928	1/2		1/2		1/2		1/2		1/2	
3/4	150,025	3/4	160,379	3/4	170,721	3/4	181,039	3/4	191,087	3/4		3/4		3/4		3/4		3/4	
2	150,241	2	160,595	2	170,936	2	181,254	2	191,247	2		2		2		2		2	
1/4	150,456	1/4	160,811	1/4	171,151	1/4	181,469	1/4	191,370	1/4		1/4		1/4		1/4		1/4	
1/2	150,672	1/2	161,026	1/2	171,366	1/2	181,684	1/2	191,494	1/2		1/2		1/2		1/2		1/2	
3/4	150,888	3/4	161,242	3/4	171,581	3/4	181,899	3/4	191,617	3/4		3/4		3/4		3/4		3/4	
3	151,103	3	161,458	3	171,796	3	182,114	3	191,741	3		3		3		3		3	
1/4	151,319	1/4	161,674	1/4	172,011	1/4	182,329	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,535	1/2	161,889	1/2	172,226	1/2	182,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,751	3/4	162,105	3/4	172,441	3/4	182,759	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,966	4	162,321	4	172,656	4	182,974	4		4		4		4		4		4	
1/4	152,182	1/4	162,537	1/4	172,870	1/4	183,188	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,398	1/2	162,752	1/2	173,085	1/2	183,403	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,613	3/4	162,968	3/4	173,300	3/4	183,618	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,829	5	163,184	5	173,515	5	183,833	5		5		5		5		5		5	
1/4	153,045	1/4	163,399	1/4	173,730	1/4	184,048	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,261	1/2	163,615	1/2	173,945	1/2	184,263	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,476	3/4	163,831	3/4	174,160	3/4	184,478	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,692	6	164,047	6	174,375	6	184,693	6		6		6		6		6		6	
1/4	153,908	1/4	164,262	1/4	174,590	1/4	184,908	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,124	1/2	164,478	1/2	174,805	1/2	185,123	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,339	3/4	164,694	3/4	175,020	3/4	185,338	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,555	7	164,909	7	175,235	7	185,553	7		7		7		7		7		7	
1/4	154,771	1/4	165,125	1/4	175,450	1/4	185,768	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,986	1/2	165,341	1/2	175,665	1/2	185,983	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,202	3/4	165,557	3/4	175,880	3/4	186,198	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,418	8	165,772	8	176,095	8	186,413	8		8		8		8		8		8	
1/4	155,634	1/4	165,988	1/4	176,310	1/4	186,628	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,849	1/2	166,204	1/2	176,525	1/2	186,843	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,065	3/4	166,419	3/4	176,740	3/4	187,058	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,281	9	166,635	9	176,955	9	187,273	9		9		9		9		9		9	
1/4	156,496	1/4	166,850	1/4	177,170	1/4	187,488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,712	1/2	167,066	1/2	177,385	1/2	187,703	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,928	3/4	167,281	3/4	177,600	3/4	187,918	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,144	10	167,496	10	177,815	10	188,133	10		10		10		10		10		10	
1/4	157,359	1/4	167,711	1/4	178,029	1/4	188,348	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,575	1/2	167,926	1/2	178,244	1/2	188,563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,791	3/4	168,141	3/4	178,459	3/4	188,778	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,006	11	168,356	11	178,674	11	188,992	11		11		11		11		11		11	
1/4	158,222	1/4	168,571	1/4	178,889	1/4	189,204	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,438	1/2	168,786	1/2	179,104	1/2	189,415	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,654	3/4	169,001	3/4	179,319	3/4	189,626	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3030"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	1,027	0	15,629	0	30,630	0	45,615	0	60,615	0	75,616	0	90,618	0	105,619	0	120,604	0	135,586
1/4	1,262	1/4	15,942	1/4	30,943	1/4	45,927	1/4	60,928	1/4	75,929	1/4	90,930	1/4	105,932	1/4	120,916	1/4	135,898
1/2	1,496	1/2	16,254	1/2	31,255	1/2	46,240	1/2	61,240	1/2	76,242	1/2	91,243	1/2	106,244	1/2	121,228	1/2	136,210
3/4	1,730	3/4	16,567	3/4	31,568	3/4	46,552	3/4	61,553	3/4	76,554	3/4	91,555	3/4	106,557	3/4	121,540	3/4	136,522
1	1,965	1	16,879	1	31,880	1	46,864	1	61,865	1	76,867	1	91,868	1	106,869	1	121,853	1	136,834
1/4	2,257	1/4	17,192	1/4	32,193	1/4	47,177	1/4	62,178	1/4	77,179	1/4	92,181	1/4	107,182	1/4	122,165	1/4	137,146
1/2	2,549	1/2	17,504	1/2	32,505	1/2	47,489	1/2	62,490	1/2	77,492	1/2	92,493	1/2	107,494	1/2	122,477	1/2	137,458
3/4	2,841	3/4	17,817	3/4	32,818	3/4	47,801	3/4	62,803	3/4	77,804	3/4	92,806	3/4	107,807	3/4	122,789	3/4	137,770
2	3,133	2	18,129	2	33,130	2	48,114	2	63,115	2	78,117	2	93,118	2	108,119	2	123,101	2	138,082
1/4	3,445	1/4	18,442	1/4	33,443	1/4	48,426	1/4	63,428	1/4	78,429	1/4	93,431	1/4	108,431	1/4	123,413	1/4	138,395
1/2	3,757	1/2	18,755	1/2	33,755	1/2	48,739	1/2	63,740	1/2	78,742	1/2	93,743	1/2	108,743	1/2	123,725	1/2	138,707
3/4	4,068	3/4	19,067	3/4	34,068	3/4	49,051	3/4	64,053	3/4	79,054	3/4	94,056	3/4	109,056	3/4	124,037	3/4	139,019
3	4,380	3	19,380	3	34,381	3	49,364	3	64,365	3	79,367	3	94,368	3	109,368	3	124,350	3	139,331
1/4	4,692	1/4	19,692	1/4	34,693	1/4	49,676	1/4	64,678	1/4	79,679	1/4	94,681	1/4	109,680	1/4	124,662	1/4	139,643
1/2	5,004	1/2	20,005	1/2	35,005	1/2	49,989	1/2	64,990	1/2	79,992	1/2	94,993	1/2	109,992	1/2	124,974	1/2	139,955
3/4	5,316	3/4	20,317	3/4	35,317	3/4	50,302	3/4	65,303	3/4	80,304	3/4	95,306	3/4	110,304	3/4	125,286	3/4	140,267
4	5,629	4	20,630	4	35,630	4	50,614	4	65,616	4	80,617	4	95,618	4	110,617	4	125,598	4	140,579
1/4	5,941	1/4	20,942	1/4	35,942	1/4	50,927	1/4	65,928	1/4	80,929	1/4	95,931	1/4	110,929	1/4	125,910	1/4	140,891
1/2	6,254	1/2	21,255	1/2	36,254	1/2	51,239	1/2	66,241	1/2	81,242	1/2	96,243	1/2	111,241	1/2	126,222	1/2	141,203
3/4	6,566	3/4	21,567	3/4	36,566	3/4	51,552	3/4	66,553	3/4	81,555	3/4	96,556	3/4	111,553	3/4	126,534	3/4	141,516
5	6,879	5	21,880	5	36,878	5	51,864	5	66,866	5	81,867	5	96,868	5	111,865	5	126,846	5	141,828
1/4	7,191	1/4	22,192	1/4	37,190	1/4	52,177	1/4	67,178	1/4	82,180	1/4	97,181	1/4	112,177	1/4	127,159	1/4	142,139
1/2	7,504	1/2	22,505	1/2	37,502	1/2	52,489	1/2	67,491	1/2	82,492	1/2	97,494	1/2	112,489	1/2	127,471	1/2	142,451
3/4	7,816	3/4	22,817	3/4	37,814	3/4	52,802	3/4	67,803	3/4	82,805	3/4	97,806	3/4	112,801	3/4	127,783	3/4	142,763
6	8,129	6	23,130	6	38,126	6	53,114	6	68,116	6	83,117	6	98,119	6	113,113	6	128,095	6	143,075
1/4	8,441	1/4	23,442	1/4	38,438	1/4	53,427	1/4	68,428	1/4	83,430	1/4	98,431	1/4	113,426	1/4	128,407	1/4	143,382
1/2	8,754	1/2	23,755	1/2	38,750	1/2	53,739	1/2	68,741	1/2	83,742	1/2	98,744	1/2	113,738	1/2	128,719	1/2	143,690
3/4	9,066	3/4	24,067	3/4	39,062	3/4	54,052	3/4	69,053	3/4	84,055	3/4	99,056	3/4	114,050	3/4	129,031	3/4	143,997
7	9,379	7	24,380	7	39,374	7	54,364	7	69,366	7	84,367	7	99,369	7	114,362	7	129,343	7	144,304
1/4	9,691	1/4	24,692	1/4	39,686	1/4	54,677	1/4	69,678	1/4	84,680	1/4	99,681	1/4	114,674	1/4	129,655	1/4	144,599
1/2	10,004	1/2	25,005	1/2	39,998	1/2	54,990	1/2	69,991	1/2	84,992	1/2	99,994	1/2	114,986	1/2	129,968	1/2	144,894
3/4	10,316	3/4	25,317	3/4	40,310	3/4	55,302	3/4	70,303	3/4	85,305	3/4	100,306	3/4	115,298	3/4	130,280	3/4	145,189
8	10,629	8	25,630	8	40,622	8	55,615	8	70,616	8	85,617	8	100,619	8	115,610	8	130,592	8	145,485
1/4	10,942	1/4	25,942	1/4	40,934	1/4	55,927	1/4	70,929	1/4	85,930	1/4	100,931	1/4	115,922	1/4	130,904	1/4	145,763
1/2	11,254	1/2	26,255	1/2	41,246	1/2	56,240	1/2	71,241	1/2	86,242	1/2	101,244	1/2	116,235	1/2	131,216	1/2	146,042
3/4	11,567	3/4	26,568	3/4	41,558	3/4	56,552	3/4	71,554	3/4	86,555	3/4	101,556	3/4	116,547	3/4	131,528	3/4	146,321
9	11,879	9	26,880	9	41,870	9	56,865	9	71,866	9	86,868	9	101,869	9	116,859	9	131,840	9	146,600
1/4	12,192	1/4	27,193	1/4	42,182	1/4	57,177	1/4	72,179	1/4	87,180	1/4	102,182	1/4	117,171	1/4	132,152	1/4	146,863
1/2	12,504	1/2	27,505	1/2	42,494	1/2	57,490	1/2	72,491	1/2	87,493	1/2	102,494	1/2	117,483	1/2	132,464	1/2	147,126
3/4	12,817	3/4	27,818	3/4	42,806	3/4	57,802	3/4	72,804	3/4	87,805	3/4	102,807	3/4	117,795	3/4	132,777	3/4	147,389
10	13,129	10	28,130	10	43,118	10	58,115	10	73,116	10	88,118	10	103,119	10	118,107	10	133,089	10	147,652
1/4	13,442	1/4	28,443	1/4	43,431	1/4	58,427	1/4	73,429	1/4	88,430	1/4	103,432	1/4	118,419	1/4	133,401	1/4	147,899
1/2	13,754	1/2	28,755	1/2	43,743	1/2	58,740	1/2	73,741	1/2	88,743	1/2	103,744	1/2	118,731	1/2	133,713	1/2	148,146
3/4	14,067	3/4	29,068	3/4	44,055	3/4	59,052	3/4	74,054	3/4	89,055	3/4	104,057	3/4	119,044	3/4	134,025	3/4	148,393
11	14,379	11	29,380	11	44,367	11	59,365	11	74,366	11	89,368	11	104,369	11	119,356	11	134,337	11	148,640
1/4	14,692	1/4	29,693	1/4	44,679	1/4	59,677	1/4	74,679	1/4	89,680	1/4	104,682	1/4	119,668	1/4	134,649	1/4	148,871
1/2	15,004	1/2	30,005	1/2	44,991	1/2	59,990	1/2	74,991	1/2	89,993	1/2	104,994	1/2	119,980	1/2	134,961	1/2	149,102
3/4	15,317	3/4	30,318	3/4	45,303	3/4	60,303	3/4	75,304	3/4	90,305	3/4	105,307	3/4	120,292	3/4	135,273	3/4	149,333

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 3030"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 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	149,564	0	159,935	0	170,284	0	180,604	0	190,910	0		0		0		0		0	
1/4	149,783	1/4	160,151	1/4	170,499	1/4	180,819	1/4	191,103	1/4		1/4		1/4		1/4		1/4	
1/2	150,003	1/2	160,366	1/2	170,714	1/2	181,034	1/2	191,296	1/2		1/2		1/2		1/2		1/2	
3/4	150,222	3/4	160,582	3/4	170,929	3/4	181,249	3/4	191,489	3/4		3/4		3/4		3/4		3/4	
1	150,441	1	160,798	1	171,144	1	181,464	1	191,682	1		1		1		1		1	
1/4	150,657	1/4	161,014	1/4	171,359	1/4	181,679	1/4	191,841	1/4		1/4		1/4		1/4		1/4	
1/2	150,873	1/2	161,230	1/2	171,574	1/2	181,894	1/2	192,000	1/2		1/2		1/2		1/2		1/2	
3/4	151,089	3/4	161,445	3/4	171,789	3/4	182,109	3/4	192,160	3/4		3/4		3/4		3/4		3/4	
2	151,304	2	161,661	2	172,004	2	182,324	2	192,319	2		2		2		2		2	
1/4	151,520	1/4	161,877	1/4	172,219	1/4	182,539	1/4	192,443	1/4		1/4		1/4		1/4		1/4	
1/2	151,736	1/2	162,093	1/2	172,434	1/2	182,754	1/2	192,566	1/2		1/2		1/2		1/2		1/2	
3/4	151,952	3/4	162,308	3/4	172,649	3/4	182,969	3/4	192,690	3/4		3/4		3/4		3/4		3/4	
3	152,167	3	162,524	3	172,864	3	183,184	3	192,813	3		3		3		3		3	
1/4	152,383	1/4	162,740	1/4	173,079	1/4	183,399	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,599	1/2	162,956	1/2	173,294	1/2	183,614	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,815	3/4	163,171	3/4	173,509	3/4	183,829	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,030	4	163,387	4	173,724	4	184,044	4		4		4		4		4		4	
1/4	153,246	1/4	163,603	1/4	173,939	1/4	184,259	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,462	1/2	163,819	1/2	174,154	1/2	184,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,678	3/4	164,034	3/4	174,369	3/4	184,689	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,894	5	164,250	5	174,584	5	184,904	5		5		5		5		5		5	
1/4	154,109	1/4	164,466	1/4	174,799	1/4	185,119	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,325	1/2	164,682	1/2	175,014	1/2	185,334	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,541	3/4	164,898	3/4	175,229	3/4	185,549	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,757	6	165,113	6	175,444	6	185,764	6		6		6		6		6		6	
1/4	154,972	1/4	165,329	1/4	175,659	1/4	185,979	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,188	1/2	165,545	1/2	175,874	1/2	186,194	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,404	3/4	165,761	3/4	176,089	3/4	186,409	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,620	7	165,976	7	176,304	7	186,624	7		7		7		7		7		7	
1/4	155,835	1/4	166,192	1/4	176,519	1/4	186,840	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,051	1/2	166,408	1/2	176,734	1/2	187,055	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,267	3/4	166,624	3/4	176,949	3/4	187,270	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,483	8	166,839	8	177,164	8	187,485	8		8		8		8		8		8	
1/4	156,698	1/4	167,055	1/4	177,379	1/4	187,700	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,914	1/2	167,271	1/2	177,594	1/2	187,915	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,130	3/4	167,487	3/4	177,809	3/4	188,130	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,346	9	167,702	9	178,024	9	188,345	9		9		9		9		9		9	
1/4	157,562	1/4	167,918	1/4	178,239	1/4	188,560	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,777	1/2	168,133	1/2	178,454	1/2	188,775	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,993	3/4	168,349	3/4	178,669	3/4	188,990	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,209	10	168,564	10	178,884	10	189,205	10		10		10		10		10		10	
1/4	158,425	1/4	168,779	1/4	179,099	1/4	189,420	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,640	1/2	168,994	1/2	179,314	1/2	189,635	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,856	3/4	169,209	3/4	179,529	3/4	189,850	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,072	11	169,424	11	179,744	11	190,064	11		11		11		11		11		11	
1/4	159,288	1/4	169,639	1/4	179,959	1/4	190,276	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,503	1/2	169,854	1/2	180,174	1/2	190,487	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,719	3/4	170,069	3/4	180,389	3/4	190,699	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HSM 3030"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	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: 12/04/2019 CL
CALCULATED: 12/04/2019 CL
PRINTED: 12/04/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2019

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



BARGE "HSM 3030"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	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 3030"

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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