



BARGE "HSM 3044"

INNAGE TRIM TABLE "MMC"

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

(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 1 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 238'-09"

May 10, 2019

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

<http://www.pmacorp.net>



BARGE "HSM 3044"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	328	0	13,294	0	28,227	0	43,141	0	58,190	0	73,247	0	88,304	0	103,362	0	118,419	0	133,476
1/4	530	1/4	13,594	1/4	28,541	1/4	43,453	1/4	58,504	1/4	73,561	1/4	88,618	1/4	103,675	1/4	118,732	1/4	133,790
1/2	731	1/2	13,894	1/2	28,855	1/2	43,765	1/2	58,817	1/2	73,875	1/2	88,932	1/2	103,989	1/2	119,046	1/2	134,103
3/4	933	3/4	14,194	3/4	29,168	3/4	44,076	3/4	59,131	3/4	74,188	3/4	89,245	3/4	104,303	3/4	119,360	3/4	134,417
1	1,134	1	14,495	1	29,482	1	44,388	1	59,445	1	74,502	1	89,559	1	104,616	1	119,673	1	134,731
1/4	1,388	1/4	14,799	1/4	29,792	1/4	44,701	1/4	59,759	1/4	74,816	1/4	89,873	1/4	104,930	1/4	119,987	1/4	135,044
1/2	1,642	1/2	15,103	1/2	30,102	1/2	45,015	1/2	60,072	1/2	75,129	1/2	90,187	1/2	105,244	1/2	120,301	1/2	135,358
3/4	1,896	3/4	15,407	3/4	30,413	3/4	45,329	3/4	60,386	3/4	75,443	3/4	90,500	3/4	105,557	3/4	120,615	3/4	135,672
2	2,150	2	15,711	2	30,723	2	45,642	2	60,700	2	75,757	2	90,814	2	105,871	2	120,928	2	135,985
1/4	2,409	1/4	16,019	1/4	31,033	1/4	45,956	1/4	61,013	1/4	76,070	1/4	91,128	1/4	106,185	1/4	121,242	1/4	136,299
1/2	2,669	1/2	16,327	1/2	31,343	1/2	46,270	1/2	61,327	1/2	76,384	1/2	91,441	1/2	106,498	1/2	121,556	1/2	136,613
3/4	2,928	3/4	16,635	3/4	31,654	3/4	46,584	3/4	61,641	3/4	76,698	3/4	91,755	3/4	106,812	3/4	121,869	3/4	136,926
3	3,188	3	16,942	3	31,964	3	46,897	3	61,954	3	77,012	3	92,069	3	107,126	3	122,183	3	137,240
1/4	3,452	1/4	17,254	1/4	32,274	1/4	47,211	1/4	62,268	1/4	77,325	1/4	92,382	1/4	107,440	1/4	122,497	1/4	137,554
1/2	3,716	1/2	17,566	1/2	32,585	1/2	47,525	1/2	62,582	1/2	77,639	1/2	92,696	1/2	107,753	1/2	122,810	1/2	137,868
3/4	3,981	3/4	17,878	3/4	32,895	3/4	47,838	3/4	62,895	3/4	77,953	3/4	93,010	3/4	108,067	3/4	123,124	3/4	138,181
4	4,245	4	18,189	4	33,205	4	48,152	4	63,209	4	78,266	4	93,323	4	108,381	4	123,438	4	138,495
1/4	4,514	1/4	18,503	1/4	33,515	1/4	48,466	1/4	63,523	1/4	78,580	1/4	93,637	1/4	108,694	1/4	123,751	1/4	138,809
1/2	4,783	1/2	18,817	1/2	33,826	1/2	48,779	1/2	63,837	1/2	78,894	1/2	93,951	1/2	109,008	1/2	124,065	1/2	139,122
3/4	5,051	3/4	19,130	3/4	34,136	3/4	49,093	3/4	64,150	3/4	79,207	3/4	94,265	3/4	109,322	3/4	124,379	3/4	139,436
5	5,320	5	19,444	5	34,446	5	49,407	5	64,464	5	79,521	5	94,578	5	109,635	5	124,693	5	139,750
1/4	5,593	1/4	19,758	1/4	34,756	1/4	49,720	1/4	64,778	1/4	79,835	1/4	94,892	1/4	109,949	1/4	125,006	1/4	140,063
1/2	5,866	1/2	20,072	1/2	35,067	1/2	50,034	1/2	65,091	1/2	80,148	1/2	95,206	1/2	110,263	1/2	125,320	1/2	140,377
3/4	6,139	3/4	20,385	3/4	35,377	3/4	50,348	3/4	65,405	3/4	80,462	3/4	95,519	3/4	110,576	3/4	125,634	3/4	140,691
6	6,412	6	20,699	6	35,687	6	50,662	6	65,719	6	80,776	6	95,833	6	110,890	6	125,947	6	141,004
1/4	6,690	1/4	21,013	1/4	35,997	1/4	50,975	1/4	66,032	1/4	81,090	1/4	96,147	1/4	111,204	1/4	126,261	1/4	141,318
1/2	6,967	1/2	21,326	1/2	36,308	1/2	51,289	1/2	66,346	1/2	81,403	1/2	96,460	1/2	111,518	1/2	126,575	1/2	141,632
3/4	7,244	3/4	21,640	3/4	36,618	3/4	51,603	3/4	66,660	3/4	81,717	3/4	96,774	3/4	111,831	3/4	126,888	3/4	141,946
7	7,521	7	21,954	7	36,928	7	51,916	7	66,973	7	82,031	7	97,088	7	112,145	7	127,202	7	142,259
1/4	7,802	1/4	22,267	1/4	37,238	1/4	52,230	1/4	67,287	1/4	82,344	1/4	97,401	1/4	112,459	1/4	127,516	1/4	142,573
1/2	8,083	1/2	22,581	1/2	37,549	1/2	52,544	1/2	67,601	1/2	82,658	1/2	97,715	1/2	112,772	1/2	127,829	1/2	142,887
3/4	8,364	3/4	22,895	3/4	37,859	3/4	52,857	3/4	67,915	3/4	82,972	3/4	98,029	3/4	113,086	3/4	128,143	3/4	143,200
8	8,645	8	23,208	8	38,169	8	53,171	8	68,228	8	83,285	8	98,343	8	113,400	8	128,457	8	143,514
1/4	8,929	1/4	23,522	1/4	38,479	1/4	53,485	1/4	68,542	1/4	83,599	1/4	98,656	1/4	113,713	1/4	128,771	1/4	143,828
1/2	9,214	1/2	23,836	1/2	38,790	1/2	53,798	1/2	68,856	1/2	83,913	1/2	98,970	1/2	114,027	1/2	129,084	1/2	144,141
3/4	9,499	3/4	24,149	3/4	39,100	3/4	54,112	3/4	69,169	3/4	84,226	3/4	99,284	3/4	114,341	3/4	129,398	3/4	144,455
9	9,784	9	24,463	9	39,410	9	54,426	9	69,483	9	84,540	9	99,597	9	114,654	9	129,712	9	144,769
1/4	10,072	1/4	24,777	1/4	39,721	1/4	54,740	1/4	69,797	1/4	84,854	1/4	99,911	1/4	114,968	1/4	130,025	1/4	145,082
1/2	10,361	1/2	25,090	1/2	40,031	1/2	55,053	1/2	70,110	1/2	85,168	1/2	100,225	1/2	115,282	1/2	130,339	1/2	145,396
3/4	10,650	3/4	25,404	3/4	40,342	3/4	55,367	3/4	70,424	3/4	85,481	3/4	100,538	3/4	115,596	3/4	130,653	3/4	145,710
10	10,938	10	25,718	10	40,652	10	55,681	10	70,738	10	85,795	10	100,852	10	115,909	10	130,966	10	146,024
1/4	11,231	1/4	26,031	1/4	40,963	1/4	55,994	1/4	71,051	1/4	86,109	1/4	101,166	1/4	116,223	1/4	131,280	1/4	146,337
1/2	11,523	1/2	26,345	1/2	41,274	1/2	56,308	1/2	71,365	1/2	86,422	1/2	101,479	1/2	116,537	1/2	131,594	1/2	146,651
3/4	11,816	3/4	26,659	3/4	41,584	3/4	56,622	3/4	71,679	3/4	86,736	3/4	101,793	3/4	116,850	3/4	131,907	3/4	146,965
11	12,108	11	26,973	11	41,895	11	56,935	11	71,993	11	87,050	11	102,107	11	117,164	11	132,221	11	147,278
1/4	12,405	1/4	27,286	1/4	42,206	1/4	57,249	1/4	72,306	1/4	87,363	1/4	102,421	1/4	117,478	1/4	132,535	1/4	147,592
1/2	12,701	1/2	27,600	1/2	42,518	1/2	57,563	1/2	72,620	1/2	87,677	1/2	102,734	1/2	117,791	1/2	132,848	1/2	147,906
3/4	12,997	3/4	27,914	3/4	42,830	3/4	57,876	3/4	72,934	3/4	87,991	3/4	103,048	3/4	118,105	3/4	133,162	3/4	148,219

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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
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 Pearland, Texas 77588
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BARGE "HSM 3044"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	148,533	0	163,590	0	178,647	0	193,675	0	208,661	0		0		0		0		0	
1/4	148,847	1/4	163,904	1/4	178,961	1/4	193,988	1/4	208,935	1/4		1/4		1/4		1/4		1/4	
1/2	149,160	1/2	164,218	1/2	179,275	1/2	194,301	1/2	209,208	1/2		1/2		1/2		1/2		1/2	
3/4	149,474	3/4	164,531	3/4	179,588	3/4	194,614	3/4	209,482	3/4		3/4		3/4		3/4		3/4	
1	149,788	1	164,845	1	179,902	1	194,926	1	209,755	1		1		1		1		1	
1/4	150,101	1/4	165,159	1/4	180,216	1/4	195,239	1/4	209,984	1/4		1/4		1/4		1/4		1/4	
1/2	150,415	1/2	165,472	1/2	180,529	1/2	195,552	1/2	210,212	1/2		1/2		1/2		1/2		1/2	
3/4	150,729	3/4	165,786	3/4	180,843	3/4	195,865	3/4	210,440	3/4		3/4		3/4		3/4		3/4	
2	151,043	2	166,100	2	181,157	2	196,178	2	210,668	2		2		2		2		2	
1/4	151,356	1/4	166,413	1/4	181,471	1/4	196,490	1/4	210,857	1/4		1/4		1/4		1/4		1/4	
1/2	151,670	1/2	166,727	1/2	181,784	1/2	196,803	1/2	211,046	1/2		1/2		1/2		1/2		1/2	
3/4	151,984	3/4	167,041	3/4	182,098	3/4	197,116	3/4	211,235	3/4		3/4		3/4		3/4		3/4	
3	152,297	3	167,354	3	182,412	3	197,429	3	211,424	3		3		3		3		3	
1/4	152,611	1/4	167,668	1/4	182,725	1/4	197,742	1/4	211,574	1/4		1/4		1/4		1/4		1/4	
1/2	152,925	1/2	167,982	1/2	183,039	1/2	198,054	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,238	3/4	168,296	3/4	183,353	3/4	198,367	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,552	4	168,609	4	183,666	4	198,680	4		4		4		4		4		4	
1/4	153,866	1/4	168,923	1/4	183,979	1/4	198,993	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,179	1/2	169,237	1/2	184,292	1/2	199,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,493	3/4	169,550	3/4	184,605	3/4	199,618	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,807	5	169,864	5	184,918	5	199,931	5		5		5		5		5		5	
1/4	155,121	1/4	170,178	1/4	185,230	1/4	200,244	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,434	1/2	170,491	1/2	185,543	1/2	200,557	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,748	3/4	170,805	3/4	185,856	3/4	200,869	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,062	6	171,119	6	186,169	6	201,182	6		6		6		6		6		6	
1/4	156,375	1/4	171,432	1/4	186,481	1/4	201,495	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,689	1/2	171,746	1/2	186,794	1/2	201,808	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,003	3/4	172,060	3/4	187,107	3/4	202,120	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,316	7	172,374	7	187,420	7	202,433	7		7		7		7		7		7	
1/4	157,630	1/4	172,687	1/4	187,733	1/4	202,746	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,944	1/2	173,001	1/2	188,045	1/2	203,059	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,257	3/4	173,315	3/4	188,358	3/4	203,372	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,571	8	173,628	8	188,671	8	203,684	8		8		8		8		8		8	
1/4	158,885	1/4	173,942	1/4	188,984	1/4	203,997	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,199	1/2	174,256	1/2	189,296	1/2	204,310	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,512	3/4	174,569	3/4	189,609	3/4	204,623	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,826	9	174,883	9	189,922	9	204,935	9		9		9		9		9		9	
1/4	160,140	1/4	175,197	1/4	190,235	1/4	205,248	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,453	1/2	175,510	1/2	190,548	1/2	205,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,767	3/4	175,824	3/4	190,860	3/4	205,873	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,081	10	176,138	10	191,173	10	206,186	10		10		10		10		10		10	
1/4	161,394	1/4	176,452	1/4	191,486	1/4	206,498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,708	1/2	176,765	1/2	191,799	1/2	206,810	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,022	3/4	177,079	3/4	192,111	3/4	207,122	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,335	11	177,393	11	192,424	11	207,434	11		11		11		11		11		11	
1/4	162,649	1/4	177,706	1/4	192,737	1/4	207,741	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,963	1/2	178,020	1/2	193,050	1/2	208,047	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,276	3/4	178,334	3/4	193,363	3/4	208,354	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3044"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08"

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	328	0	13,307	0	28,258	0	43,303	0	58,378	0	73,454	0	88,529	0	103,605	0	118,680	0	133,755
1/4	530	1/4	13,607	1/4	28,572	1/4	43,617	1/4	58,692	1/4	73,768	1/4	88,843	1/4	103,919	1/4	118,994	1/4	134,069
1/2	731	1/2	13,908	1/2	28,886	1/2	43,931	1/2	59,007	1/2	74,082	1/2	89,157	1/2	104,233	1/2	119,308	1/2	134,384
3/4	933	3/4	14,208	3/4	29,200	3/4	44,245	3/4	59,321	3/4	74,396	3/4	89,471	3/4	104,547	3/4	119,622	3/4	134,698
1	1,135	1	14,509	1	29,514	1	44,559	1	59,635	1	74,710	1	89,785	1	104,861	1	119,936	1	135,012
1/4	1,389	1/4	14,813	1/4	29,828	1/4	44,873	1/4	59,949	1/4	75,024	1/4	90,100	1/4	105,175	1/4	120,250	1/4	135,326
1/2	1,643	1/2	15,118	1/2	30,141	1/2	45,187	1/2	60,263	1/2	75,338	1/2	90,414	1/2	105,489	1/2	120,564	1/2	135,640
3/4	1,897	3/4	15,422	3/4	30,454	3/4	45,501	3/4	60,577	3/4	75,652	3/4	90,728	3/4	105,803	3/4	120,878	3/4	135,954
2	2,151	2	15,727	2	30,767	2	45,816	2	60,891	2	75,966	2	91,042	2	106,117	2	121,193	2	136,268
1/4	2,411	1/4	16,035	1/4	31,081	1/4	46,130	1/4	61,205	1/4	76,280	1/4	91,356	1/4	106,431	1/4	121,507	1/4	136,582
1/2	2,670	1/2	16,343	1/2	31,394	1/2	46,444	1/2	61,519	1/2	76,594	1/2	91,670	1/2	106,745	1/2	121,821	1/2	136,896
3/4	2,930	3/4	16,651	3/4	31,707	3/4	46,758	3/4	61,833	3/4	76,909	3/4	91,984	3/4	107,059	3/4	122,135	3/4	137,210
3	3,190	3	16,960	3	32,020	3	47,072	3	62,147	3	77,223	3	92,298	3	107,373	3	122,449	3	137,524
1/4	3,455	1/4	17,272	1/4	32,334	1/4	47,386	1/4	62,461	1/4	77,537	1/4	92,612	1/4	107,687	1/4	122,763	1/4	137,838
1/2	3,719	1/2	17,584	1/2	32,647	1/2	47,700	1/2	62,775	1/2	77,851	1/2	92,926	1/2	108,002	1/2	123,077	1/2	138,152
3/4	3,984	3/4	17,896	3/4	32,960	3/4	48,014	3/4	63,089	3/4	78,165	3/4	93,240	3/4	108,316	3/4	123,391	3/4	138,466
4	4,248	4	18,208	4	33,273	4	48,328	4	63,404	4	78,479	4	93,554	4	108,630	4	123,705	4	138,781
1/4	4,517	1/4	18,522	1/4	33,586	1/4	48,642	1/4	63,718	1/4	78,793	1/4	93,868	1/4	108,944	1/4	124,019	1/4	139,095
1/2	4,786	1/2	18,836	1/2	33,900	1/2	48,956	1/2	64,032	1/2	79,107	1/2	94,182	1/2	109,258	1/2	124,333	1/2	139,409
3/4	5,056	3/4	19,150	3/4	34,213	3/4	49,270	3/4	64,346	3/4	79,421	3/4	94,497	3/4	109,572	3/4	124,647	3/4	139,723
5	5,325	5	19,464	5	34,526	5	49,584	5	64,660	5	79,735	5	94,811	5	109,886	5	124,961	5	140,037
1/4	5,598	1/4	19,778	1/4	34,839	1/4	49,898	1/4	64,974	1/4	80,049	1/4	95,125	1/4	110,200	1/4	125,275	1/4	140,351
1/2	5,871	1/2	20,092	1/2	35,153	1/2	50,213	1/2	65,288	1/2	80,363	1/2	95,439	1/2	110,514	1/2	125,590	1/2	140,665
3/4	6,145	3/4	20,407	3/4	35,466	3/4	50,527	3/4	65,602	3/4	80,677	3/4	95,753	3/4	110,828	3/4	125,904	3/4	140,979
6	6,418	6	20,721	6	35,779	6	50,841	6	65,916	6	80,991	6	96,067	6	111,142	6	126,218	6	141,293
1/4	6,695	1/4	21,035	1/4	36,092	1/4	51,155	1/4	66,230	1/4	81,306	1/4	96,381	1/4	111,456	1/4	126,532	1/4	141,607
1/2	6,973	1/2	21,349	1/2	36,406	1/2	51,469	1/2	66,544	1/2	81,620	1/2	96,695	1/2	111,770	1/2	126,846	1/2	141,921
3/4	7,250	3/4	21,663	3/4	36,719	3/4	51,783	3/4	66,858	3/4	81,934	3/4	97,009	3/4	112,084	3/4	127,160	3/4	142,235
7	7,527	7	21,977	7	37,032	7	52,097	7	67,172	7	82,248	7	97,323	7	112,399	7	127,474	7	142,549
1/4	7,809	1/4	22,291	1/4	37,345	1/4	52,411	1/4	67,486	1/4	82,562	1/4	97,637	1/4	112,713	1/4	127,788	1/4	142,863
1/2	8,090	1/2	22,605	1/2	37,659	1/2	52,725	1/2	67,801	1/2	82,876	1/2	97,951	1/2	113,027	1/2	128,102	1/2	143,177
3/4	8,371	3/4	22,919	3/4	37,972	3/4	53,039	3/4	68,115	3/4	83,190	3/4	98,265	3/4	113,341	3/4	128,416	3/4	143,492
8	8,652	8	23,233	8	38,285	8	53,353	8	68,429	8	83,504	8	98,579	8	113,655	8	128,730	8	143,806
1/4	8,937	1/4	23,547	1/4	38,598	1/4	53,667	1/4	68,743	1/4	83,818	1/4	98,894	1/4	113,969	1/4	129,044	1/4	144,120
1/2	9,223	1/2	23,861	1/2	38,912	1/2	53,981	1/2	69,057	1/2	84,132	1/2	99,208	1/2	114,283	1/2	129,358	1/2	144,434
3/4	9,508	3/4	24,175	3/4	39,225	3/4	54,295	3/4	69,371	3/4	84,446	3/4	99,522	3/4	114,597	3/4	129,672	3/4	144,748
9	9,793	9	24,489	9	39,538	9	54,610	9	69,685	9	84,760	9	99,836	9	114,911	9	129,987	9	145,062
1/4	10,082	1/4	24,803	1/4	39,852	1/4	54,924	1/4	69,999	1/4	85,074	1/4	100,150	1/4	115,225	1/4	130,301	1/4	145,376
1/2	10,371	1/2	25,117	1/2	40,165	1/2	55,238	1/2	70,313	1/2	85,388	1/2	100,464	1/2	115,539	1/2	130,615	1/2	145,690
3/4	10,660	3/4	25,432	3/4	40,479	3/4	55,552	3/4	70,627	3/4	85,703	3/4	100,778	3/4	115,853	3/4	130,929	3/4	146,004
10	10,949	10	25,746	10	40,792	10	55,866	10	70,941	10	86,017	10	101,092	10	116,167	10	131,243	10	146,318
1/4	11,241	1/4	26,060	1/4	41,106	1/4	56,180	1/4	71,255	1/4	86,331	1/4	101,406	1/4	116,481	1/4	131,557	1/4	146,632
1/2	11,534	1/2	26,374	1/2	41,420	1/2	56,494	1/2	71,569	1/2	86,645	1/2	101,720	1/2	116,796	1/2	131,871	1/2	146,946
3/4	11,827	3/4	26,688	3/4	41,733	3/4	56,808	3/4	71,883	3/4	86,959	3/4	102,034	3/4	117,110	3/4	132,185	3/4	147,260
11	12,120	11	27,002	11	42,047	11	57,122	11	72,197	11	87,273	11	102,348	11	117,424	11	132,499	11	147,574
1/4	12,417	1/4	27,316	1/4	42,361	1/4	57,436	1/4	72,512	1/4	87,587	1/4	102,662	1/4	117,738	1/4	132,813	1/4	147,889
1/2	12,713	1/2	27,630	1/2	42,675	1/2	57,750	1/2	72,826	1/2	87,901	1/2	102,976	1/2	118,052	1/2	133,127	1/2	148,203
3/4	13,010	3/4	27,944	3/4	42,989	3/4	58,064	3/4	73,140	3/4	88,215	3/4	103,291	3/4	118,366	3/4	133,441	3/4	148,517

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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3044"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08"

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	148,831	0	163,906	0	178,982	0	194,028	0	209,032	0		0		0		0		0	
1/4	149,145	1/4	164,220	1/4	179,296	1/4	194,341	1/4	209,306	1/4		1/4		1/4		1/4		1/4	
1/2	149,459	1/2	164,534	1/2	179,610	1/2	194,654	1/2	209,579	1/2		1/2		1/2		1/2		1/2	
3/4	149,773	3/4	164,848	3/4	179,924	3/4	194,967	3/4	209,853	3/4		3/4		3/4		3/4		3/4	
1	150,087	1	165,162	1	180,238	1	195,280	1	210,127	1		1		1		1		1	
1/4	150,401	1/4	165,477	1/4	180,552	1/4	195,594	1/4	210,356	1/4		1/4		1/4		1/4		1/4	
1/2	150,715	1/2	165,791	1/2	180,866	1/2	195,907	1/2	210,584	1/2		1/2		1/2		1/2		1/2	
3/4	151,029	3/4	166,105	3/4	181,180	3/4	196,220	3/4	210,813	3/4		3/4		3/4		3/4		3/4	
2	151,343	2	166,419	2	181,494	2	196,533	2	211,041	2		2		2		2		2	
1/4	151,657	1/4	166,733	1/4	181,808	1/4	196,846	1/4	211,230	1/4		1/4		1/4		1/4		1/4	
1/2	151,971	1/2	167,047	1/2	182,122	1/2	197,159	1/2	211,419	1/2		1/2		1/2		1/2		1/2	
3/4	152,286	3/4	167,361	3/4	182,436	3/4	197,472	3/4	211,608	3/4		3/4		3/4		3/4		3/4	
3	152,600	3	167,675	3	182,750	3	197,786	3	211,798	3		3		3		3		3	
1/4	152,914	1/4	167,989	1/4	183,064	1/4	198,099	1/4	211,948	1/4		1/4		1/4		1/4		1/4	
1/2	153,228	1/2	168,303	1/2	183,379	1/2	198,412	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,542	3/4	168,617	3/4	183,693	3/4	198,725	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,856	4	168,931	4	184,007	4	199,038	4		4		4		4		4		4	
1/4	154,170	1/4	169,245	1/4	184,320	1/4	199,351	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,484	1/2	169,559	1/2	184,633	1/2	199,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,798	3/4	169,874	3/4	184,946	3/4	199,978	3/4		3/4		3/4		3/4		3/4		3/4	
5	155,112	5	170,188	5	185,259	5	200,291	5		5		5		5		5		5	
1/4	155,426	1/4	170,502	1/4	185,572	1/4	200,604	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,740	1/2	170,816	1/2	185,886	1/2	200,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,054	3/4	171,130	3/4	186,199	3/4	201,230	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,368	6	171,444	6	186,512	6	201,544	6		6		6		6		6		6	
1/4	156,683	1/4	171,758	1/4	186,825	1/4	201,857	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,997	1/2	172,072	1/2	187,138	1/2	202,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,311	3/4	172,386	3/4	187,451	3/4	202,483	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,625	7	172,700	7	187,765	7	202,796	7		7		7		7		7		7	
1/4	157,939	1/4	173,014	1/4	188,078	1/4	203,109	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,253	1/2	173,328	1/2	188,391	1/2	203,422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,567	3/4	173,642	3/4	188,704	3/4	203,736	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,881	8	173,956	8	189,017	8	204,049	8		8		8		8		8		8	
1/4	159,195	1/4	174,271	1/4	189,330	1/4	204,362	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,509	1/2	174,585	1/2	189,644	1/2	204,675	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,823	3/4	174,899	3/4	189,957	3/4	204,988	3/4		3/4		3/4		3/4		3/4		3/4	
9	160,137	9	175,213	9	190,270	9	205,301	9		9		9		9		9		9	
1/4	160,451	1/4	175,527	1/4	190,583	1/4	205,614	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,765	1/2	175,841	1/2	190,896	1/2	205,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,080	3/4	176,155	3/4	191,209	3/4	206,240	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,394	10	176,469	10	191,522	10	206,553	10		10		10		10		10		10	
1/4	161,708	1/4	176,783	1/4	191,836	1/4	206,866	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,022	1/2	177,097	1/2	192,149	1/2	207,178	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,336	3/4	177,411	3/4	192,462	3/4	207,490	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,650	11	177,725	11	192,775	11	207,803	11		11		11		11		11		11	
1/4	162,964	1/4	178,039	1/4	193,088	1/4	208,110	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,278	1/2	178,353	1/2	193,401	1/2	208,417	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,592	3/4	178,667	3/4	193,715	3/4	208,724	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HSM 3044"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	855	0	15,727	0	30,842	0	45,382	0	60,450	0	75,566	0	90,681	0	105,797	0	120,913	0	136,028
1/4	1,117	1/4	16,042	1/4	31,157	1/4	45,685	1/4	60,765	1/4	75,881	1/4	90,996	1/4	106,112	1/4	121,227	1/4	136,343
1/2	1,380	1/2	16,356	1/2	31,472	1/2	45,988	1/2	61,080	1/2	76,195	1/2	91,311	1/2	106,427	1/2	121,542	1/2	136,658
3/4	1,642	3/4	16,671	3/4	31,787	3/4	46,291	3/4	61,395	3/4	76,510	3/4	91,626	3/4	106,742	3/4	121,857	3/4	136,973
1	1,904	1	16,986	1	32,101	1	46,594	1	61,710	1	76,825	1	91,941	1	107,057	1	122,172	1	137,288
1/4	2,215	1/4	17,301	1/4	32,403	1/4	46,909	1/4	62,025	1/4	77,140	1/4	92,256	1/4	107,371	1/4	122,487	1/4	137,603
1/2	2,526	1/2	17,616	1/2	32,705	1/2	47,224	1/2	62,339	1/2	77,455	1/2	92,571	1/2	107,686	1/2	122,802	1/2	137,918
3/4	2,837	3/4	17,931	3/4	33,006	3/4	47,539	3/4	62,654	3/4	77,770	3/4	92,886	3/4	108,001	3/4	123,117	3/4	138,233
2	3,148	2	18,246	2	33,308	2	47,854	2	62,969	2	78,085	2	93,201	2	108,316	2	123,432	2	138,547
1/4	3,460	1/4	18,561	1/4	33,610	1/4	48,168	1/4	63,284	1/4	78,400	1/4	93,515	1/4	108,631	1/4	123,747	1/4	138,862
1/2	3,773	1/2	18,876	1/2	33,911	1/2	48,483	1/2	63,599	1/2	78,715	1/2	93,830	1/2	108,946	1/2	124,062	1/2	139,177
3/4	4,086	3/4	19,191	3/4	34,213	3/4	48,798	3/4	63,914	3/4	79,030	3/4	94,145	3/4	109,261	3/4	124,377	3/4	139,492
3	4,398	3	19,505	3	34,515	3	49,113	3	64,229	3	79,345	3	94,460	3	109,576	3	124,691	3	139,807
1/4	4,712	1/4	19,820	1/4	34,816	1/4	49,428	1/4	64,544	1/4	79,659	1/4	94,775	1/4	109,891	1/4	125,006	1/4	140,122
1/2	5,026	1/2	20,135	1/2	35,118	1/2	49,743	1/2	64,859	1/2	79,974	1/2	95,090	1/2	110,206	1/2	125,321	1/2	140,437
3/4	5,339	3/4	20,450	3/4	35,420	3/4	50,058	3/4	65,174	3/4	80,289	3/4	95,405	3/4	110,521	3/4	125,636	3/4	140,752
4	5,653	4	20,765	4	35,721	4	50,373	4	65,489	4	80,604	4	95,720	4	110,835	4	125,951	4	141,067
1/4	5,967	1/4	21,080	1/4	36,023	1/4	50,688	1/4	65,803	1/4	80,919	1/4	96,035	1/4	111,150	1/4	126,266	1/4	141,382
1/2	6,282	1/2	21,395	1/2	36,324	1/2	51,003	1/2	66,118	1/2	81,234	1/2	96,350	1/2	111,465	1/2	126,581	1/2	141,697
3/4	6,596	3/4	21,710	3/4	36,626	3/4	51,318	3/4	66,433	3/4	81,549	3/4	96,665	3/4	111,780	3/4	126,896	3/4	142,011
5	6,910	5	22,025	5	36,928	5	51,632	5	66,748	5	81,864	5	96,979	5	112,095	5	127,211	5	142,326
1/4	7,225	1/4	22,340	1/4	37,229	1/4	51,947	1/4	67,063	1/4	82,179	1/4	97,294	1/4	112,410	1/4	127,526	1/4	142,641
1/2	7,540	1/2	22,654	1/2	37,531	1/2	52,262	1/2	67,378	1/2	82,494	1/2	97,609	1/2	112,725	1/2	127,841	1/2	142,956
3/4	7,854	3/4	22,969	3/4	37,833	3/4	52,577	3/4	67,693	3/4	82,809	3/4	97,924	3/4	113,040	3/4	128,155	3/4	143,271
6	8,169	6	23,284	6	38,134	6	52,892	6	68,008	6	83,123	6	98,239	6	113,355	6	128,470	6	143,586
1/4	8,484	1/4	23,599	1/4	38,436	1/4	53,207	1/4	68,323	1/4	83,438	1/4	98,554	1/4	113,670	1/4	128,785	1/4	143,901
1/2	8,799	1/2	23,914	1/2	38,738	1/2	53,522	1/2	68,638	1/2	83,753	1/2	98,869	1/2	113,985	1/2	129,100	1/2	144,216
3/4	9,114	3/4	24,229	3/4	39,039	3/4	53,837	3/4	68,953	3/4	84,068	3/4	99,184	3/4	114,299	3/4	129,415	3/4	144,531
7	9,429	7	24,544	7	39,341	7	54,152	7	69,267	7	84,383	7	99,499	7	114,614	7	129,730	7	144,846
1/4	9,744	1/4	24,859	1/4	39,643	1/4	54,467	1/4	69,582	1/4	84,698	1/4	99,814	1/4	114,929	1/4	130,045	1/4	145,161
1/2	10,058	1/2	25,174	1/2	39,944	1/2	54,782	1/2	69,897	1/2	85,013	1/2	100,129	1/2	115,244	1/2	130,360	1/2	145,475
3/4	10,373	3/4	25,489	3/4	40,246	3/4	55,097	3/4	70,212	3/4	85,328	3/4	100,443	3/4	115,559	3/4	130,675	3/4	145,790
8	10,688	8	25,803	8	40,547	8	55,411	8	70,527	8	85,643	8	100,758	8	115,874	8	130,990	8	146,105
1/4	11,003	1/4	26,118	1/4	40,849	1/4	55,726	1/4	70,842	1/4	85,958	1/4	101,073	1/4	116,189	1/4	131,305	1/4	146,420
1/2	11,318	1/2	26,433	1/2	41,151	1/2	56,041	1/2	71,157	1/2	86,273	1/2	101,388	1/2	116,504	1/2	131,619	1/2	146,735
3/4	11,633	3/4	26,748	3/4	41,452	3/4	56,356	3/4	71,472	3/4	86,587	3/4	101,703	3/4	116,819	3/4	131,934	3/4	147,050
9	11,948	9	27,063	9	41,754	9	56,671	9	71,787	9	86,902	9	102,018	9	117,134	9	132,249	9	147,365
1/4	12,263	1/4	27,378	1/4	42,056	1/4	56,986	1/4	72,102	1/4	87,217	1/4	102,333	1/4	117,449	1/4	132,564	1/4	147,680
1/2	12,578	1/2	27,693	1/2	42,358	1/2	57,301	1/2	72,417	1/2	87,532	1/2	102,648	1/2	117,763	1/2	132,879	1/2	147,995
3/4	12,893	3/4	28,008	3/4	42,660	3/4	57,616	3/4	72,731	3/4	87,847	3/4	102,963	3/4	118,078	3/4	133,194	3/4	148,310
10	13,207	10	28,323	10	42,962	10	57,931	10	73,046	10	88,162	10	103,278	10	118,393	10	133,509	10	148,625
1/4	13,522	1/4	28,638	1/4	43,264	1/4	58,246	1/4	73,361	1/4	88,477	1/4	103,593	1/4	118,708	1/4	133,824	1/4	148,940
1/2	13,837	1/2	28,952	1/2	43,566	1/2	58,561	1/2	73,676	1/2	88,792	1/2	103,907	1/2	119,023	1/2	134,139	1/2	149,254
3/4	14,152	3/4	29,267	3/4	43,868	3/4	58,875	3/4	73,991	3/4	89,107	3/4	104,222	3/4	119,338	3/4	134,454	3/4	149,569
11	14,467	11	29,582	11	44,170	11	59,190	11	74,306	11	89,422	11	104,537	11	119,653	11	134,769	11	149,884
1/4	14,782	1/4	29,897	1/4	44,473	1/4	59,505	1/4	74,621	1/4	89,737	1/4	104,852	1/4	119,968	1/4	135,083	1/4	150,199
1/2	15,097	1/2	30,212	1/2	44,776	1/2	59,820	1/2	74,936	1/2	90,051	1/2	105,167	1/2	120,283	1/2	135,398	1/2	150,514
3/4	15,412	3/4	30,527	3/4	45,079	3/4	60,135	3/4	75,251	3/4	90,366	3/4	105,482	3/4	120,598	3/4	135,713	3/4	150,829

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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3044"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	151,144	0	166,260	0	181,375	0	196,462	0	211,506	0		0		0		0		0	
1/4	151,459	1/4	166,574	1/4	181,690	1/4	196,776	1/4	211,780	1/4		1/4		1/4		1/4		1/4	
1/2	151,774	1/2	166,889	1/2	182,005	1/2	197,090	1/2	212,055	1/2		1/2		1/2		1/2		1/2	
3/4	152,089	3/4	167,204	3/4	182,320	3/4	197,404	3/4	212,330	3/4		3/4		3/4		3/4		3/4	
1	152,404	1	167,519	1	182,635	1	197,718	1	212,604	1		1		1		1		1	
1/4	152,718	1/4	167,834	1/4	182,950	1/4	198,032	1/4	212,833	1/4		1/4		1/4		1/4		1/4	
1/2	153,033	1/2	168,149	1/2	183,265	1/2	198,346	1/2	213,062	1/2		1/2		1/2		1/2		1/2	
3/4	153,348	3/4	168,464	3/4	183,580	3/4	198,660	3/4	213,291	3/4		3/4		3/4		3/4		3/4	
2	153,663	2	168,779	2	183,894	2	198,974	2	213,520	2		2		2		2		2	
1/4	153,978	1/4	169,094	1/4	184,209	1/4	199,288	1/4	213,710	1/4		1/4		1/4		1/4		1/4	
1/2	154,293	1/2	169,409	1/2	184,524	1/2	199,602	1/2	213,900	1/2		1/2		1/2		1/2		1/2	
3/4	154,608	3/4	169,724	3/4	184,839	3/4	199,916	3/4	214,089	3/4		3/4		3/4		3/4		3/4	
3	154,923	3	170,038	3	185,154	3	200,230	3	214,279	3		3		3		3		3	
1/4	155,238	1/4	170,353	1/4	185,469	1/4	200,544	1/4	214,429	1/4		1/4		1/4		1/4		1/4	
1/2	155,553	1/2	170,668	1/2	185,784	1/2	200,858	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,868	3/4	170,983	3/4	186,099	3/4	201,172	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,182	4	171,298	4	186,414	4	201,486	4		4		4		4		4		4	
1/4	156,497	1/4	171,613	1/4	186,728	1/4	201,800	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,812	1/2	171,928	1/2	187,042	1/2	202,114	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,127	3/4	172,243	3/4	187,356	3/4	202,428	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,442	5	172,558	5	187,670	5	202,742	5		5		5		5		5		5	
1/4	157,757	1/4	172,873	1/4	187,984	1/4	203,055	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,072	1/2	173,188	1/2	188,298	1/2	203,369	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,387	3/4	173,502	3/4	188,612	3/4	203,683	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,702	6	173,817	6	188,926	6	203,997	6		6		6		6		6		6	
1/4	159,017	1/4	174,132	1/4	189,240	1/4	204,311	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,332	1/2	174,447	1/2	189,554	1/2	204,625	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,646	3/4	174,762	3/4	189,868	3/4	204,939	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,961	7	175,077	7	190,182	7	205,253	7		7		7		7		7		7	
1/4	160,276	1/4	175,392	1/4	190,496	1/4	205,567	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,591	1/2	175,707	1/2	190,810	1/2	205,881	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,906	3/4	176,022	3/4	191,124	3/4	206,195	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,221	8	176,337	8	191,438	8	206,509	8		8		8		8		8		8	
1/4	161,536	1/4	176,652	1/4	191,752	1/4	206,823	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,851	1/2	176,966	1/2	192,066	1/2	207,137	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,166	3/4	177,281	3/4	192,380	3/4	207,451	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,481	9	177,596	9	192,694	9	207,765	9		9		9		9		9		9	
1/4	162,796	1/4	177,911	1/4	193,008	1/4	208,079	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,110	1/2	178,226	1/2	193,322	1/2	208,393	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,425	3/4	178,541	3/4	193,636	3/4	208,707	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,740	10	178,856	10	193,950	10	209,021	10		10		10		10		10		10	
1/4	164,055	1/4	179,171	1/4	194,264	1/4	209,334	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,370	1/2	179,486	1/2	194,578	1/2	209,647	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,685	3/4	179,801	3/4	194,892	3/4	209,960	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,000	11	180,116	11	195,206	11	210,273	11		11		11		11		11		11	
1/4	165,315	1/4	180,430	1/4	195,520	1/4	210,587	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,630	1/2	180,745	1/2	195,834	1/2	210,890	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,945	3/4	181,060	3/4	196,148	3/4	211,198	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3044"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	854	0	15,714	0	30,817	0	45,890	0	60,993	0	76,097	0	91,200	0	106,304	0	121,407	0	136,511
1/4	1,116	1/4	16,029	1/4	31,132	1/4	46,205	1/4	61,308	1/4	76,412	1/4	91,515	1/4	106,618	1/4	121,722	1/4	136,825
1/2	1,378	1/2	16,343	1/2	31,446	1/2	46,519	1/2	61,623	1/2	76,726	1/2	91,830	1/2	106,933	1/2	122,037	1/2	137,140
3/4	1,640	3/4	16,658	3/4	31,761	3/4	46,834	3/4	61,937	3/4	77,041	3/4	92,144	3/4	107,248	3/4	122,351	3/4	137,455
1	1,903	1	16,973	1	32,076	1	47,149	1	62,252	1	77,356	1	92,459	1	107,562	1	122,666	1	137,769
1/4	2,213	1/4	17,287	1/4	32,389	1/4	47,463	1/4	62,567	1/4	77,670	1/4	92,774	1/4	107,877	1/4	122,981	1/4	138,084
1/2	2,524	1/2	17,602	1/2	32,703	1/2	47,778	1/2	62,881	1/2	77,985	1/2	93,088	1/2	108,192	1/2	123,295	1/2	138,399
3/4	2,835	3/4	17,917	3/4	33,017	3/4	48,093	3/4	63,196	3/4	78,300	3/4	93,403	3/4	108,506	3/4	123,610	3/4	138,713
2	3,145	2	18,231	2	33,331	2	48,407	2	63,511	2	78,614	2	93,718	2	108,821	2	123,925	2	139,028
1/4	3,458	1/4	18,546	1/4	33,645	1/4	48,722	1/4	63,825	1/4	78,929	1/4	94,032	1/4	109,136	1/4	124,239	1/4	139,343
1/2	3,770	1/2	18,860	1/2	33,959	1/2	49,037	1/2	64,140	1/2	79,243	1/2	94,347	1/2	109,450	1/2	124,554	1/2	139,657
3/4	4,082	3/4	19,175	3/4	34,272	3/4	49,351	3/4	64,455	3/4	79,558	3/4	94,662	3/4	109,765	3/4	124,868	3/4	139,972
3	4,395	3	19,490	3	34,586	3	49,666	3	64,769	3	79,873	3	94,976	3	110,080	3	125,183	3	140,287
1/4	4,708	1/4	19,804	1/4	34,900	1/4	49,981	1/4	65,084	1/4	80,187	1/4	95,291	1/4	110,394	1/4	125,498	1/4	140,601
1/2	5,022	1/2	20,119	1/2	35,214	1/2	50,295	1/2	65,399	1/2	80,502	1/2	95,606	1/2	110,709	1/2	125,812	1/2	140,916
3/4	5,335	3/4	20,434	3/4	35,528	3/4	50,610	3/4	65,713	3/4	80,817	3/4	95,920	3/4	111,024	3/4	126,127	3/4	141,231
4	5,649	4	20,748	4	35,842	4	50,924	4	66,028	4	81,131	4	96,235	4	111,338	4	126,442	4	141,545
1/4	5,963	1/4	21,063	1/4	36,155	1/4	51,239	1/4	66,343	1/4	81,446	1/4	96,550	1/4	111,653	1/4	126,756	1/4	141,860
1/2	6,277	1/2	21,378	1/2	36,469	1/2	51,554	1/2	66,657	1/2	81,761	1/2	96,864	1/2	111,968	1/2	127,071	1/2	142,175
3/4	6,591	3/4	21,692	3/4	36,783	3/4	51,868	3/4	66,972	3/4	82,075	3/4	97,179	3/4	112,282	3/4	127,386	3/4	142,489
5	6,905	5	22,007	5	37,097	5	52,183	5	67,287	5	82,390	5	97,493	5	112,597	5	127,700	5	142,804
1/4	7,219	1/4	22,322	1/4	37,411	1/4	52,498	1/4	67,601	1/4	82,705	1/4	97,808	1/4	112,912	1/4	128,015	1/4	143,118
1/2	7,534	1/2	22,636	1/2	37,724	1/2	52,812	1/2	67,916	1/2	83,019	1/2	98,123	1/2	113,226	1/2	128,330	1/2	143,433
3/4	7,848	3/4	22,951	3/4	38,038	3/4	53,127	3/4	68,231	3/4	83,334	3/4	98,437	3/4	113,541	3/4	128,644	3/4	143,748
6	8,163	6	23,266	6	38,352	6	53,442	6	68,545	6	83,649	6	98,752	6	113,856	6	128,959	6	144,062
1/4	8,477	1/4	23,580	1/4	38,666	1/4	53,756	1/4	68,860	1/4	83,963	1/4	99,067	1/4	114,170	1/4	129,274	1/4	144,377
1/2	8,792	1/2	23,895	1/2	38,980	1/2	54,071	1/2	69,175	1/2	84,278	1/2	99,381	1/2	114,485	1/2	129,588	1/2	144,692
3/4	9,106	3/4	24,209	3/4	39,294	3/4	54,386	3/4	69,489	3/4	84,593	3/4	99,696	3/4	114,800	3/4	129,903	3/4	145,006
7	9,421	7	24,524	7	39,607	7	54,700	7	69,804	7	84,907	7	100,011	7	115,114	7	130,218	7	145,321
1/4	9,736	1/4	24,839	1/4	39,921	1/4	55,015	1/4	70,118	1/4	85,222	1/4	100,325	1/4	115,429	1/4	130,532	1/4	145,636
1/2	10,050	1/2	25,153	1/2	40,235	1/2	55,330	1/2	70,433	1/2	85,537	1/2	100,640	1/2	115,743	1/2	130,847	1/2	145,950
3/4	10,365	3/4	25,468	3/4	40,549	3/4	55,644	3/4	70,748	3/4	85,851	3/4	100,955	3/4	116,058	3/4	131,162	3/4	146,265
8	10,680	8	25,783	8	40,863	8	55,959	8	71,062	8	86,166	8	101,269	8	116,373	8	131,476	8	146,580
1/4	10,994	1/4	26,097	1/4	41,177	1/4	56,274	1/4	71,377	1/4	86,481	1/4	101,584	1/4	116,687	1/4	131,791	1/4	146,894
1/2	11,309	1/2	26,412	1/2	41,490	1/2	56,588	1/2	71,692	1/2	86,795	1/2	101,899	1/2	117,002	1/2	132,106	1/2	147,209
3/4	11,624	3/4	26,727	3/4	41,804	3/4	56,903	3/4	72,006	3/4	87,110	3/4	102,213	3/4	117,317	3/4	132,420	3/4	147,524
9	11,938	9	27,041	9	42,118	9	57,218	9	72,321	9	87,425	9	102,528	9	117,631	9	132,735	9	147,838
1/4	12,253	1/4	27,356	1/4	42,432	1/4	57,532	1/4	72,636	1/4	87,739	1/4	102,843	1/4	117,946	1/4	133,050	1/4	148,153
1/2	12,568	1/2	27,671	1/2	42,746	1/2	57,847	1/2	72,950	1/2	88,054	1/2	103,157	1/2	118,261	1/2	133,364	1/2	148,468
3/4	12,882	3/4	27,985	3/4	43,061	3/4	58,162	3/4	73,265	3/4	88,368	3/4	103,472	3/4	118,575	3/4	133,679	3/4	148,782
10	13,197	10	28,300	10	43,375	10	58,476	10	73,580	10	88,683	10	103,787	10	118,890	10	133,993	10	149,097
1/4	13,511	1/4	28,614	1/4	43,689	1/4	58,791	1/4	73,894	1/4	88,998	1/4	104,101	1/4	119,205	1/4	134,308	1/4	149,412
1/2	13,826	1/2	28,929	1/2	44,003	1/2	59,106	1/2	74,209	1/2	89,312	1/2	104,416	1/2	119,519	1/2	134,623	1/2	149,726
3/4	14,141	3/4	29,244	3/4	44,317	3/4	59,420	3/4	74,524	3/4	89,627	3/4	104,731	3/4	119,834	3/4	134,937	3/4	150,041
11	14,455	11	29,558	11	44,631	11	59,735	11	74,838	11	89,942	11	105,045	11	120,149	11	135,252	11	150,356
1/4	14,770	1/4	29,873	1/4	44,946	1/4	60,050	1/4	75,153	1/4	90,256	1/4	105,360	1/4	120,463	1/4	135,567	1/4	150,670
1/2	15,085	1/2	30,188	1/2	45,261	1/2	60,364	1/2	75,468	1/2	90,571	1/2	105,675	1/2	120,778	1/2	135,881	1/2	150,985
3/4	15,399	3/4	30,502	3/4	45,575	3/4	60,679	3/4	75,782	3/4	90,886	3/4	105,989	3/4	121,093	3/4	136,196	3/4	151,300

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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3044"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-08 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	151,614	0	166,718	0	181,821	0	196,895	0	211,927	0		0		0		0		0	
1/4	151,929	1/4	167,032	1/4	182,136	1/4	197,209	1/4	212,202	1/4		1/4		1/4		1/4		1/4	
1/2	152,243	1/2	167,347	1/2	182,450	1/2	197,523	1/2	212,476	1/2		1/2		1/2		1/2		1/2	
3/4	152,558	3/4	167,662	3/4	182,765	3/4	197,837	3/4	212,751	3/4		3/4		3/4		3/4		3/4	
1	152,873	1	167,976	1	183,080	1	198,150	1	213,025	1		1		1		1		1	
1/4	153,187	1/4	168,291	1/4	183,394	1/4	198,464	1/4	213,254	1/4		1/4		1/4		1/4		1/4	
1/2	153,502	1/2	168,606	1/2	183,709	1/2	198,778	1/2	213,483	1/2		1/2		1/2		1/2		1/2	
3/4	153,817	3/4	168,920	3/4	184,024	3/4	199,092	3/4	213,712	3/4		3/4		3/4		3/4		3/4	
2	154,131	2	169,235	2	184,338	2	199,405	2	213,941	2		2		2		2		2	
1/4	154,446	1/4	169,550	1/4	184,653	1/4	199,719	1/4	214,130	1/4		1/4		1/4		1/4		1/4	
1/2	154,761	1/2	169,864	1/2	184,968	1/2	200,033	1/2	214,320	1/2		1/2		1/2		1/2		1/2	
3/4	155,075	3/4	170,179	3/4	185,282	3/4	200,347	3/4	214,509	3/4		3/4		3/4		3/4		3/4	
3	155,390	3	170,493	3	185,597	3	200,660	3	214,699	3		3		3		3		3	
1/4	155,705	1/4	170,808	1/4	185,912	1/4	200,974	1/4	214,849	1/4		1/4		1/4		1/4		1/4	
1/2	156,019	1/2	171,123	1/2	186,226	1/2	201,288	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,334	3/4	171,437	3/4	186,541	3/4	201,602	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,649	4	171,752	4	186,856	4	201,915	4		4		4		4		4		4	
1/4	156,963	1/4	172,067	1/4	187,169	1/4	202,229	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,278	1/2	172,381	1/2	187,483	1/2	202,543	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,593	3/4	172,696	3/4	187,797	3/4	202,857	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,907	5	173,011	5	188,111	5	203,170	5		5		5		5		5		5	
1/4	158,222	1/4	173,325	1/4	188,424	1/4	203,484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,537	1/2	173,640	1/2	188,738	1/2	203,798	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,851	3/4	173,955	3/4	189,052	3/4	204,111	3/4		3/4		3/4		3/4		3/4		3/4	
6	159,166	6	174,269	6	189,366	6	204,425	6		6		6		6		6		6	
1/4	159,481	1/4	174,584	1/4	189,679	1/4	204,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,795	1/2	174,899	1/2	189,993	1/2	205,053	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,110	3/4	175,213	3/4	190,307	3/4	205,366	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,425	7	175,528	7	190,620	7	205,680	7		7		7		7		7		7	
1/4	160,739	1/4	175,843	1/4	190,934	1/4	205,994	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,054	1/2	176,157	1/2	191,248	1/2	206,308	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,368	3/4	176,472	3/4	191,562	3/4	206,621	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,683	8	176,787	8	191,875	8	206,935	8		8		8		8		8		8	
1/4	161,998	1/4	177,101	1/4	192,189	1/4	207,249	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,312	1/2	177,416	1/2	192,503	1/2	207,563	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,627	3/4	177,731	3/4	192,817	3/4	207,876	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,942	9	178,045	9	193,130	9	208,190	9		9		9		9		9		9	
1/4	163,256	1/4	178,360	1/4	193,444	1/4	208,504	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,571	1/2	178,675	1/2	193,758	1/2	208,817	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,886	3/4	178,989	3/4	194,072	3/4	209,131	3/4		3/4		3/4		3/4		3/4		3/4	
10	164,200	10	179,304	10	194,385	10	209,444	10		10		10		10		10		10	
1/4	164,515	1/4	179,618	1/4	194,699	1/4	209,757	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,830	1/2	179,933	1/2	195,013	1/2	210,070	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,144	3/4	180,248	3/4	195,327	3/4	210,383	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,459	11	180,562	11	195,640	11	210,696	11		11		11		11		11		11	
1/4	165,774	1/4	180,877	1/4	195,954	1/4	211,004	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,088	1/2	181,192	1/2	196,268	1/2	211,312	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,403	3/4	181,506	3/4	196,582	3/4	211,620	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3044"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-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	852	0	15,649	0	30,676	0	45,083	0	60,070	0	75,095	0	90,120	0	105,145	0	120,160	0	135,170
1/4	1,113	1/4	15,962	1/4	30,990	1/4	45,387	1/4	60,383	1/4	75,408	1/4	90,433	1/4	105,458	1/4	120,472	1/4	135,483
1/2	1,374	1/2	16,275	1/2	31,303	1/2	45,690	1/2	60,696	1/2	75,721	1/2	90,746	1/2	105,771	1/2	120,785	1/2	135,795
3/4	1,635	3/4	16,588	3/4	31,616	3/4	45,993	3/4	61,009	3/4	76,034	3/4	91,059	3/4	106,084	3/4	121,098	3/4	136,108
1	1,896	1	16,901	1	31,929	1	46,297	1	61,322	1	76,347	1	91,372	1	106,397	1	121,411	1	136,421
1/4	2,206	1/4	17,214	1/4	32,227	1/4	46,610	1/4	61,635	1/4	76,660	1/4	91,685	1/4	106,710	1/4	121,723	1/4	136,733
1/2	2,515	1/2	17,527	1/2	32,526	1/2	46,923	1/2	61,948	1/2	76,973	1/2	91,998	1/2	107,023	1/2	122,036	1/2	137,046
3/4	2,825	3/4	17,840	3/4	32,824	3/4	47,236	3/4	62,261	3/4	77,286	3/4	92,311	3/4	107,336	3/4	122,349	3/4	137,359
2	3,134	2	18,153	2	33,123	2	47,549	2	62,574	2	77,599	2	92,624	2	107,649	2	122,661	2	137,672
1/4	3,446	1/4	18,466	1/4	33,421	1/4	47,862	1/4	62,887	1/4	77,912	1/4	92,937	1/4	107,962	1/4	122,974	1/4	137,984
1/2	3,757	1/2	18,779	1/2	33,720	1/2	48,175	1/2	63,200	1/2	78,225	1/2	93,250	1/2	108,275	1/2	123,287	1/2	138,297
3/4	4,068	3/4	19,092	3/4	34,018	3/4	48,488	3/4	63,513	3/4	78,538	3/4	93,563	3/4	108,588	3/4	123,600	3/4	138,610
3	4,380	3	19,405	3	34,317	3	48,801	3	63,826	3	78,851	3	93,876	3	108,901	3	123,912	3	138,922
1/4	4,692	1/4	19,719	1/4	34,615	1/4	49,114	1/4	64,139	1/4	79,164	1/4	94,189	1/4	109,214	1/4	124,225	1/4	139,235
1/2	5,004	1/2	20,032	1/2	34,913	1/2	49,427	1/2	64,452	1/2	79,477	1/2	94,502	1/2	109,527	1/2	124,538	1/2	139,548
3/4	5,317	3/4	20,345	3/4	35,212	3/4	49,740	3/4	64,765	3/4	79,790	3/4	94,815	3/4	109,840	3/4	124,850	3/4	139,860
4	5,629	4	20,658	4	35,510	4	50,053	4	65,078	4	80,103	4	95,128	4	110,153	4	125,163	4	140,173
1/4	5,942	1/4	20,971	1/4	35,809	1/4	50,366	1/4	65,391	1/4	80,416	1/4	95,441	1/4	110,466	1/4	125,476	1/4	140,486
1/2	6,255	1/2	21,284	1/2	36,107	1/2	50,679	1/2	65,704	1/2	80,729	1/2	95,754	1/2	110,778	1/2	125,789	1/2	140,799
3/4	6,568	3/4	21,597	3/4	36,406	3/4	50,992	3/4	66,017	3/4	81,042	3/4	96,067	3/4	111,091	3/4	126,101	3/4	141,111
5	6,881	5	21,910	5	36,704	5	51,305	5	66,330	5	81,355	5	96,380	5	111,404	5	126,414	5	141,424
1/4	7,195	1/4	22,223	1/4	37,003	1/4	51,618	1/4	66,643	1/4	81,668	1/4	96,693	1/4	111,717	1/4	126,727	1/4	141,737
1/2	7,508	1/2	22,536	1/2	37,301	1/2	51,931	1/2	66,956	1/2	81,981	1/2	97,006	1/2	112,029	1/2	127,039	1/2	142,049
3/4	7,821	3/4	22,849	3/4	37,600	3/4	52,244	3/4	67,269	3/4	82,294	3/4	97,319	3/4	112,342	3/4	127,352	3/4	142,362
6	8,135	6	23,162	6	37,898	6	52,557	6	67,582	6	82,607	6	97,632	6	112,655	6	127,665	6	142,675
1/4	8,448	1/4	23,475	1/4	38,196	1/4	52,870	1/4	67,895	1/4	82,920	1/4	97,945	1/4	112,967	1/4	127,978	1/4	142,988
1/2	8,761	1/2	23,788	1/2	38,495	1/2	53,183	1/2	68,208	1/2	83,233	1/2	98,258	1/2	113,280	1/2	128,290	1/2	143,300
3/4	9,074	3/4	24,101	3/4	38,793	3/4	53,496	3/4	68,521	3/4	83,546	3/4	98,571	3/4	113,593	3/4	128,603	3/4	143,613
7	9,387	7	24,414	7	39,092	7	53,809	7	68,834	7	83,859	7	98,884	7	113,906	7	128,916	7	143,926
1/4	9,700	1/4	24,728	1/4	39,390	1/4	54,122	1/4	69,147	1/4	84,172	1/4	99,197	1/4	114,218	1/4	129,228	1/4	144,237
1/2	10,013	1/2	25,041	1/2	39,689	1/2	54,435	1/2	69,460	1/2	84,485	1/2	99,510	1/2	114,531	1/2	129,541	1/2	144,548
3/4	10,327	3/4	25,354	3/4	39,987	3/4	54,748	3/4	69,773	3/4	84,798	3/4	99,823	3/4	114,844	3/4	129,854	3/4	144,860
8	10,640	8	25,667	8	40,286	8	55,061	8	70,086	8	85,111	8	100,136	8	115,156	8	130,166	8	145,171
1/4	10,953	1/4	25,980	1/4	40,584	1/4	55,374	1/4	70,399	1/4	85,424	1/4	100,449	1/4	115,469	1/4	130,479	1/4	145,482
1/2	11,266	1/2	26,293	1/2	40,882	1/2	55,687	1/2	70,712	1/2	85,737	1/2	100,762	1/2	115,782	1/2	130,792	1/2	145,793
3/4	11,579	3/4	26,606	3/4	41,181	3/4	56,000	3/4	71,025	3/4	86,050	3/4	101,075	3/4	116,095	3/4	131,105	3/4	146,105
9	11,892	9	26,919	9	41,479	9	56,313	9	71,338	9	86,363	9	101,388	9	116,407	9	131,417	9	146,416
1/4	12,205	1/4	27,232	1/4	41,778	1/4	56,627	1/4	71,651	1/4	86,676	1/4	101,701	1/4	116,720	1/4	131,730	1/4	146,727
1/2	12,518	1/2	27,545	1/2	42,077	1/2	56,940	1/2	71,965	1/2	86,990	1/2	102,014	1/2	117,033	1/2	132,043	1/2	147,039
3/4	12,831	3/4	27,858	3/4	42,376	3/4	57,253	3/4	72,278	3/4	87,303	3/4	102,328	3/4	117,345	3/4	132,355	3/4	147,350
10	13,144	10	28,172	10	42,675	10	57,566	10	72,591	10	87,616	10	102,641	10	117,658	10	132,668	10	147,661
1/4	13,457	1/4	28,485	1/4	42,973	1/4	57,879	1/4	72,904	1/4	87,929	1/4	102,954	1/4	117,971	1/4	132,981	1/4	147,973
1/2	13,770	1/2	28,798	1/2	43,272	1/2	58,192	1/2	73,217	1/2	88,242	1/2	103,267	1/2	118,283	1/2	133,294	1/2	148,284
3/4	14,083	3/4	29,111	3/4	43,571	3/4	58,505	3/4	73,530	3/4	88,555	3/4	103,580	3/4	118,596	3/4	133,606	3/4	148,595
11	14,396	11	29,424	11	43,870	11	58,818	11	73,843	11	88,868	11	103,893	11	118,909	11	133,919	11	148,907
1/4	14,709	1/4	29,737	1/4	44,173	1/4	59,131	1/4	74,156	1/4	89,181	1/4	104,206	1/4	119,222	1/4	134,232	1/4	149,218
1/2	15,023	1/2	30,050	1/2	44,476	1/2	59,444	1/2	74,469	1/2	89,494	1/2	104,519	1/2	119,534	1/2	134,544	1/2	149,530
3/4	15,336	3/4	30,363	3/4	44,780	3/4	59,757	3/4	74,782	3/4	89,807	3/4	104,832	3/4	119,847	3/4	134,857	3/4	149,841

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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3044"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	150,152	0	160,933	0	171,334	0	181,715	0	192,059	0		0		0		0		0	
1/4	150,464	1/4	161,150	1/4	171,551	1/4	181,931	1/4	192,236	1/4		1/4		1/4		1/4		1/4	
1/2	150,776	1/2	161,367	1/2	171,767	1/2	182,148	1/2	192,413	1/2		1/2		1/2		1/2		1/2	
3/4	151,087	3/4	161,583	3/4	171,984	3/4	182,364	3/4	192,590	3/4		3/4		3/4		3/4		3/4	
1	151,399	1	161,800	1	172,201	1	182,580	1	192,767	1		1		1		1		1	
1/4	151,616	1/4	162,017	1/4	172,417	1/4	182,796	1/4	192,900	1/4		1/4		1/4		1/4		1/4	
1/2	151,832	1/2	162,233	1/2	172,634	1/2	183,012	1/2	193,034	1/2		1/2		1/2		1/2		1/2	
3/4	152,049	3/4	162,450	3/4	172,851	3/4	183,228	3/4	193,167	3/4		3/4		3/4		3/4		3/4	
2	152,266	2	162,667	2	173,067	2	183,444	2	193,301	2		2		2		2		2	
1/4	152,483	1/4	162,883	1/4	173,284	1/4	183,660	1/4	193,395	1/4		1/4		1/4		1/4		1/4	
1/2	152,699	1/2	163,100	1/2	173,501	1/2	183,876	1/2	193,489	1/2		1/2		1/2		1/2		1/2	
3/4	152,916	3/4	163,317	3/4	173,718	3/4	184,092	3/4	193,583	3/4		3/4		3/4		3/4		3/4	
3	153,133	3	163,533	3	173,934	3	184,308	3	193,677	3		3		3		3		3	
1/4	153,349	1/4	163,750	1/4	174,151	1/4	184,524	1/4	193,732	1/4		1/4		1/4		1/4		1/4	
1/2	153,566	1/2	163,967	1/2	174,368	1/2	184,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,783	3/4	164,183	3/4	174,584	3/4	184,957	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,999	4	164,400	4	174,801	4	185,173	4		4		4		4		4		4	
1/4	154,216	1/4	164,617	1/4	175,017	1/4	185,389	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,433	1/2	164,834	1/2	175,233	1/2	185,605	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,649	3/4	165,050	3/4	175,449	3/4	185,821	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,866	5	165,267	5	175,665	5	186,037	5		5		5		5		5		5	
1/4	155,083	1/4	165,484	1/4	175,881	1/4	186,253	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,299	1/2	165,700	1/2	176,097	1/2	186,469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,516	3/4	165,917	3/4	176,313	3/4	186,685	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,733	6	166,134	6	176,530	6	186,901	6		6		6		6		6		6	
1/4	155,949	1/4	166,350	1/4	176,746	1/4	187,117	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,166	1/2	166,567	1/2	176,962	1/2	187,333	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,383	3/4	166,784	3/4	177,178	3/4	187,549	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,600	7	167,000	7	177,394	7	187,765	7		7		7		7		7		7	
1/4	156,816	1/4	167,217	1/4	177,610	1/4	187,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,033	1/2	167,434	1/2	177,826	1/2	188,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,250	3/4	167,650	3/4	178,042	3/4	188,414	3/4		3/4		3/4		3/4		3/4		3/4	
8	157,466	8	167,867	8	178,258	8	188,630	8		8		8		8		8		8	
1/4	157,683	1/4	168,084	1/4	178,474	1/4	188,846	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,900	1/2	168,300	1/2	178,690	1/2	189,062	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,116	3/4	168,517	3/4	178,906	3/4	189,278	3/4		3/4		3/4		3/4		3/4		3/4	
9	158,333	9	168,734	9	179,122	9	189,494	9		9		9		9		9		9	
1/4	158,550	1/4	168,951	1/4	179,339	1/4	189,710	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,766	1/2	169,167	1/2	179,555	1/2	189,926	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,983	3/4	169,384	3/4	179,771	3/4	190,142	3/4		3/4		3/4		3/4		3/4		3/4	
10	159,200	10	169,601	10	179,987	10	190,358	10		10		10		10		10		10	
1/4	159,416	1/4	169,817	1/4	180,203	1/4	190,573	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,633	1/2	170,034	1/2	180,419	1/2	190,788	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,850	3/4	170,251	3/4	180,635	3/4	191,004	3/4		3/4		3/4		3/4		3/4		3/4	
11	160,066	11	170,467	11	180,851	11	191,219	11		11		11		11		11		11	
1/4	160,283	1/4	170,684	1/4	181,067	1/4	191,429	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,500	1/2	170,901	1/2	181,283	1/2	191,639	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,717	3/4	171,117	3/4	181,499	3/4	191,849	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3044"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-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	852	0	15,670	0	30,730	0	45,760	0	60,821	0	75,882	0	90,943	0	106,004	0	121,055	0	136,100
1/4	1,113	1/4	15,983	1/4	31,044	1/4	46,074	1/4	61,135	1/4	76,196	1/4	91,257	1/4	106,317	1/4	121,368	1/4	136,414
1/2	1,375	1/2	16,297	1/2	31,358	1/2	46,388	1/2	61,449	1/2	76,510	1/2	91,570	1/2	106,631	1/2	121,681	1/2	136,727
3/4	1,636	3/4	16,611	3/4	31,671	3/4	46,702	3/4	61,763	3/4	76,823	3/4	91,884	3/4	106,945	3/4	121,995	3/4	137,041
1	1,897	1	16,925	1	31,985	1	47,015	1	62,076	1	77,137	1	92,198	1	107,259	1	122,308	1	137,354
1/4	2,207	1/4	17,239	1/4	32,298	1/4	47,329	1/4	62,390	1/4	77,451	1/4	92,512	1/4	107,573	1/4	122,622	1/4	137,668
1/2	2,517	1/2	17,552	1/2	32,611	1/2	47,643	1/2	62,704	1/2	77,765	1/2	92,825	1/2	107,886	1/2	122,935	1/2	137,981
3/4	2,827	3/4	17,866	3/4	32,924	3/4	47,957	3/4	63,018	3/4	78,078	3/4	93,139	3/4	108,200	3/4	123,249	3/4	138,295
2	3,136	2	18,180	2	33,237	2	48,271	2	63,331	2	78,392	2	93,453	2	108,514	2	123,562	2	138,608
1/4	3,448	1/4	18,494	1/4	33,550	1/4	48,584	1/4	63,645	1/4	78,706	1/4	93,767	1/4	108,828	1/4	123,876	1/4	138,922
1/2	3,759	1/2	18,807	1/2	33,863	1/2	48,898	1/2	63,959	1/2	79,020	1/2	94,081	1/2	109,141	1/2	124,189	1/2	139,235
3/4	4,071	3/4	19,121	3/4	34,176	3/4	49,212	3/4	64,273	3/4	79,333	3/4	94,394	3/4	109,455	3/4	124,503	3/4	139,548
3	4,383	3	19,435	3	34,489	3	49,526	3	64,586	3	79,647	3	94,708	3	109,769	3	124,816	3	139,862
1/4	4,695	1/4	19,749	1/4	34,802	1/4	49,839	1/4	64,900	1/4	79,961	1/4	95,022	1/4	110,083	1/4	125,129	1/4	140,175
1/2	5,008	1/2	20,062	1/2	35,115	1/2	50,153	1/2	65,214	1/2	80,275	1/2	95,336	1/2	110,396	1/2	125,443	1/2	140,489
3/4	5,320	3/4	20,376	3/4	35,427	3/4	50,467	3/4	65,528	3/4	80,589	3/4	95,649	3/4	110,710	3/4	125,756	3/4	140,802
4	5,633	4	20,690	4	35,740	4	50,781	4	65,841	4	80,902	4	95,963	4	111,024	4	126,070	4	141,116
1/4	5,946	1/4	21,004	1/4	36,053	1/4	51,094	1/4	66,155	1/4	81,216	1/4	96,277	1/4	111,337	1/4	126,383	1/4	141,429
1/2	6,259	1/2	21,317	1/2	36,366	1/2	51,408	1/2	66,469	1/2	81,530	1/2	96,591	1/2	111,651	1/2	126,697	1/2	141,743
3/4	6,572	3/4	21,631	3/4	36,679	3/4	51,722	3/4	66,783	3/4	81,844	3/4	96,904	3/4	111,964	3/4	127,010	3/4	142,056
5	6,885	5	21,945	5	36,992	5	52,036	5	67,097	5	82,157	5	97,218	5	112,278	5	127,324	5	142,370
1/4	7,199	1/4	22,259	1/4	37,305	1/4	52,349	1/4	67,410	1/4	82,471	1/4	97,532	1/4	112,591	1/4	127,637	1/4	142,683
1/2	7,513	1/2	22,572	1/2	37,618	1/2	52,663	1/2	67,724	1/2	82,785	1/2	97,846	1/2	112,905	1/2	127,951	1/2	142,996
3/4	7,826	3/4	22,886	3/4	37,931	3/4	52,977	3/4	68,038	3/4	83,099	3/4	98,159	3/4	113,218	3/4	128,264	3/4	143,310
6	8,140	6	23,200	6	38,244	6	53,291	6	68,352	6	83,412	6	98,473	6	113,532	6	128,578	6	143,623
1/4	8,453	1/4	23,514	1/4	38,557	1/4	53,605	1/4	68,665	1/4	83,726	1/4	98,787	1/4	113,845	1/4	128,891	1/4	143,937
1/2	8,767	1/2	23,827	1/2	38,870	1/2	53,918	1/2	68,979	1/2	84,040	1/2	99,101	1/2	114,159	1/2	129,204	1/2	144,250
3/4	9,081	3/4	24,141	3/4	39,183	3/4	54,232	3/4	69,293	3/4	84,354	3/4	99,415	3/4	114,472	3/4	129,518	3/4	144,564
7	9,395	7	24,455	7	39,496	7	54,546	7	69,607	7	84,668	7	99,728	7	114,785	7	129,831	7	144,877
1/4	9,708	1/4	24,769	1/4	39,809	1/4	54,860	1/4	69,920	1/4	84,981	1/4	100,042	1/4	115,099	1/4	130,145	1/4	145,189
1/2	10,022	1/2	25,082	1/2	40,121	1/2	55,173	1/2	70,234	1/2	85,295	1/2	100,356	1/2	115,412	1/2	130,458	1/2	145,500
3/4	10,336	3/4	25,396	3/4	40,434	3/4	55,487	3/4	70,548	3/4	85,609	3/4	100,670	3/4	115,726	3/4	130,772	3/4	145,812
8	10,650	8	25,710	8	40,747	8	55,801	8	70,862	8	85,923	8	100,983	8	116,039	8	131,085	8	146,123
1/4	10,963	1/4	26,024	1/4	41,060	1/4	56,115	1/4	71,176	1/4	86,236	1/4	101,297	1/4	116,353	1/4	131,399	1/4	146,435
1/2	11,277	1/2	26,337	1/2	41,373	1/2	56,428	1/2	71,489	1/2	86,550	1/2	101,611	1/2	116,666	1/2	131,712	1/2	146,746
3/4	11,591	3/4	26,651	3/4	41,686	3/4	56,742	3/4	71,803	3/4	86,864	3/4	101,925	3/4	116,980	3/4	132,026	3/4	147,058
9	11,905	9	26,965	9	41,999	9	57,056	9	72,117	9	87,178	9	102,238	9	117,293	9	132,339	9	147,370
1/4	12,218	1/4	27,279	1/4	42,312	1/4	57,370	1/4	72,431	1/4	87,491	1/4	102,552	1/4	117,607	1/4	132,652	1/4	147,681
1/2	12,532	1/2	27,593	1/2	42,626	1/2	57,684	1/2	72,744	1/2	87,805	1/2	102,866	1/2	117,920	1/2	132,966	1/2	147,993
3/4	12,846	3/4	27,906	3/4	42,939	3/4	57,997	3/4	73,058	3/4	88,119	3/4	103,180	3/4	118,233	3/4	133,279	3/4	148,304
10	13,160	10	28,220	10	43,252	10	58,311	10	73,372	10	88,433	10	103,494	10	118,547	10	133,593	10	148,616
1/4	13,473	1/4	28,534	1/4	43,565	1/4	58,625	1/4	73,686	1/4	88,746	1/4	103,807	1/4	118,860	1/4	133,906	1/4	148,927
1/2	13,787	1/2	28,848	1/2	43,879	1/2	58,939	1/2	73,999	1/2	89,060	1/2	104,121	1/2	119,174	1/2	134,220	1/2	149,239
3/4	14,101	3/4	29,161	3/4	44,192	3/4	59,252	3/4	74,313	3/4	89,374	3/4	104,435	3/4	119,487	3/4	134,533	3/4	149,550
11	14,415	11	29,475	11	44,505	11	59,566	11	74,627	11	89,688	11	104,749	11	119,801	11	134,847	11	149,862
1/4	14,728	1/4	29,789	1/4	44,819	1/4	59,880	1/4	74,941	1/4	90,002	1/4	105,062	1/4	120,114	1/4	135,160	1/4	150,173
1/2	15,042	1/2	30,103	1/2	45,133	1/2	60,194	1/2	75,254	1/2	90,315	1/2	105,376	1/2	120,428	1/2	135,474	1/2	150,485
3/4	15,356	3/4	30,416	3/4	45,447	3/4	60,507	3/4	75,568	3/4	90,629	3/4	105,690	3/4	120,741	3/4	135,787	3/4	150,797

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 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 TOP LIP OF 2" MMC VALVE
 GAUGE POINT: (MMC) LOCATED 12'-06" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HSM 3044"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	151,108	0	161,893	0	172,298	0	182,684	0	193,032	0		0		0		0		0	
1/4	151,420	1/4	162,110	1/4	172,515	1/4	182,900	1/4	193,209	1/4		1/4		1/4		1/4		1/4	
1/2	151,732	1/2	162,327	1/2	172,732	1/2	183,116	1/2	193,386	1/2		1/2		1/2		1/2		1/2	
3/4	152,044	3/4	162,544	3/4	172,949	3/4	183,332	3/4	193,563	3/4		3/4		3/4		3/4		3/4	
1	152,355	1	162,760	1	173,165	1	183,549	1	193,740	1		1		1		1		1	
1/4	152,572	1/4	162,977	1/4	173,382	1/4	183,765	1/4	193,873	1/4		1/4		1/4		1/4		1/4	
1/2	152,789	1/2	163,194	1/2	173,599	1/2	183,981	1/2	194,007	1/2		1/2		1/2		1/2		1/2	
3/4	153,006	3/4	163,411	3/4	173,816	3/4	184,197	3/4	194,140	3/4		3/4		3/4		3/4		3/4	
2	153,223	2	163,628	2	174,033	2	184,413	2	194,274	2		2		2		2		2	
1/4	153,439	1/4	163,844	1/4	174,249	1/4	184,629	1/4	194,368	1/4		1/4		1/4		1/4		1/4	
1/2	153,656	1/2	164,061	1/2	174,466	1/2	184,846	1/2	194,462	1/2		1/2		1/2		1/2		1/2	
3/4	153,873	3/4	164,278	3/4	174,683	3/4	185,062	3/4	194,556	3/4		3/4		3/4		3/4		3/4	
3	154,090	3	164,495	3	174,900	3	185,278	3	194,651	3		3		3		3		3	
1/4	154,306	1/4	164,711	1/4	175,116	1/4	185,494	1/4	194,706	1/4		1/4		1/4		1/4		1/4	
1/2	154,523	1/2	164,928	1/2	175,333	1/2	185,710	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,740	3/4	165,145	3/4	175,550	3/4	185,926	3/4		3/4		3/4		3/4		3/4		3/4	
4	154,957	4	165,362	4	175,767	4	186,143	4		4		4		4		4		4	
1/4	155,173	1/4	165,578	1/4	175,983	1/4	186,359	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,390	1/2	165,795	1/2	176,199	1/2	186,575	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,607	3/4	166,012	3/4	176,415	3/4	186,791	3/4		3/4		3/4		3/4		3/4		3/4	
5	155,824	5	166,229	5	176,631	5	187,007	5		5		5		5		5		5	
1/4	156,041	1/4	166,446	1/4	176,848	1/4	187,223	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,257	1/2	166,662	1/2	177,064	1/2	187,439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,474	3/4	166,879	3/4	177,280	3/4	187,656	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,691	6	167,096	6	177,496	6	187,872	6		6		6		6		6		6	
1/4	156,908	1/4	167,313	1/4	177,712	1/4	188,088	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,124	1/2	167,529	1/2	177,928	1/2	188,304	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,341	3/4	167,746	3/4	178,145	3/4	188,520	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,558	7	167,963	7	178,361	7	188,736	7		7		7		7		7		7	
1/4	157,775	1/4	168,180	1/4	178,577	1/4	188,953	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,992	1/2	168,397	1/2	178,793	1/2	189,169	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,208	3/4	168,613	3/4	179,009	3/4	189,385	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,425	8	168,830	8	179,225	8	189,601	8		8		8		8		8		8	
1/4	158,642	1/4	169,047	1/4	179,441	1/4	189,817	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,859	1/2	169,264	1/2	179,658	1/2	190,033	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,075	3/4	169,480	3/4	179,874	3/4	190,250	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,292	9	169,697	9	180,090	9	190,466	9		9		9		9		9		9	
1/4	159,509	1/4	169,914	1/4	180,306	1/4	190,682	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,726	1/2	170,131	1/2	180,522	1/2	190,898	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,942	3/4	170,347	3/4	180,738	3/4	191,114	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,159	10	170,564	10	180,955	10	191,330	10		10		10		10		10		10	
1/4	160,376	1/4	170,781	1/4	181,171	1/4	191,545	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,593	1/2	170,998	1/2	181,387	1/2	191,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,810	3/4	171,215	3/4	181,603	3/4	191,976	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,026	11	171,431	11	181,819	11	192,191	11		11		11		11		11		11	
1/4	161,243	1/4	171,648	1/4	182,035	1/4	192,401	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,460	1/2	171,865	1/2	182,252	1/2	192,612	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,677	3/4	172,082	3/4	182,468	3/4	192,822	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/08/2019 CL
CALCULATED: 05/09/2019 CL
PRINTED: 05/10/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019

PRECISION MEASUREMENT
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BARGE "HSM 3044"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-10 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	24	0	1,183	0	2,343	0	3,502	0	4,661	0		0		0		0		0	
1/4	48	1/4	1,208	1/4	2,367	1/4	3,526	1/4	4,685	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	72	1/2	1,232	1/2	2,391	1/2	3,550	1/2	4,709	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	97	3/4	1,256	3/4	2,415	3/4	3,574	3/4	4,733	3/4		3/4		3/4	3/4	3/4		3/4	3/4
1	121	1	1,280	1	2,439	1	3,599	1	4,757	1		1		1	1	1		1	1
1/4	145	1/4	1,304	1/4	2,463	1/4	3,623	1/4	4,781	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	169	1/2	1,328	1/2	2,488	1/2	3,647	1/2	4,805	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	193	3/4	1,353	3/4	2,512	3/4	3,671	3/4	4,829	3/4		3/4		3/4	3/4	3/4		3/4	3/4
2	217	2	1,377	2	2,536	2	3,695	2	4,852	2		2		2	2	2		2	2
1/4	242	1/4	1,401	1/4	2,560	1/4	3,719	1/4	4,876	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	266	1/2	1,425	1/2	2,584	1/2	3,744	1/2	4,900	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	290	3/4	1,449	3/4	2,608	3/4	3,768	3/4	4,924	3/4		3/4		3/4	3/4	3/4		3/4	3/4
3	314	3	1,473	3	2,633	3	3,792	3	4,947	3		3		3	3	3		3	3
1/4	338	1/4	1,497	1/4	2,657	1/4	3,816	1/4	4,971	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	362	1/2	1,522	1/2	2,681	1/2	3,840	1/2	4,995	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	386	3/4	1,546	3/4	2,705	3/4	3,864	3/4	5,019	3/4		3/4		3/4	3/4	3/4		3/4	3/4
4	411	4	1,570	4	2,729	4	3,888	4	5,043	4		4		4	4	4		4	4
1/4	435	1/4	1,594	1/4	2,753	1/4	3,913	1/4	5,066	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	459	1/2	1,618	1/2	2,777	1/2	3,937	1/2	5,090	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	483	3/4	1,642	3/4	2,802	3/4	3,961	3/4	5,114	3/4		3/4		3/4	3/4	3/4		3/4	3/4
5	507	5	1,666	5	2,826	5	3,985	5	5,138	5		5		5	5	5		5	5
1/4	531	1/4	1,691	1/4	2,850	1/4	4,009	1/4	5,162	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	555	1/2	1,715	1/2	2,874	1/2	4,033	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	580	3/4	1,739	3/4	2,898	3/4	4,057	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
6	604	6	1,763	6	2,922	6	4,082	6		6		6		6	6	6		6	6
1/4	628	1/4	1,787	1/4	2,947	1/4	4,106	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	652	1/2	1,811	1/2	2,971	1/2	4,130	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	676	3/4	1,836	3/4	2,995	3/4	4,154	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
7	700	7	1,860	7	3,019	7	4,178	7		7		7		7	7	7		7	7
1/4	725	1/4	1,884	1/4	3,043	1/4	4,202	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	749	1/2	1,908	1/2	3,067	1/2	4,227	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	773	3/4	1,932	3/4	3,091	3/4	4,251	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
8	797	8	1,956	8	3,116	8	4,275	8		8		8		8	8	8		8	8
1/4	821	1/4	1,980	1/4	3,140	1/4	4,299	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	845	1/2	2,005	1/2	3,164	1/2	4,323	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	869	3/4	2,029	3/4	3,188	3/4	4,347	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
9	894	9	2,053	9	3,212	9	4,371	9		9		9		9	9	9		9	9
1/4	918	1/4	2,077	1/4	3,236	1/4	4,396	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	942	1/2	2,101	1/2	3,260	1/2	4,420	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	966	3/4	2,125	3/4	3,285	3/4	4,444	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
10	990	10	2,150	10	3,309	10	4,468	10		10		10		10	10	10		10	10
1/4	1,014	1/4	2,174	1/4	3,333	1/4	4,492	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,039	1/2	2,198	1/2	3,357	1/2	4,516	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,063	3/4	2,222	3/4	3,381	3/4	4,541	3/4		3/4		3/4		3/4	3/4	3/4		3/4	3/4
11	1,087	11	2,246	11	3,405	11	4,565	11		11		11		11	11	11		11	11
1/4	1,111	1/4	2,270	1/4	3,430	1/4	4,589	1/4		1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,135	1/2	2,294	1/2	3,454	1/2	4,613	1/2		1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,159	3/4	2,319	3/4	3,478	3/4	4,637	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
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE

STRAPPED: 05/08/2019 CL
 CALCULATED: 05/09/2019 CL
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CANCELS AND SUPERCEDES
 ALL PRIOR TO 05/2019



BARGE "HSM 3044"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-10 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	24	0	1,180	0	2,336	0	3,493	0	4,649	0		0		0		0		0	
1/4	48	1/4	1,204	1/4	2,361	1/4	3,517	1/4	4,673	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	72	1/2	1,228	1/2	2,385	1/2	3,541	1/2	4,697	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	96	3/4	1,253	3/4	2,409	3/4	3,565	3/4	4,721	3/4		3/4		3/4	3/4	3/4		3/4	
1	120	1	1,277	1	2,433	1	3,589	1	4,744	1		1		1	1	1		1	
1/4	145	1/4	1,301	1/4	2,457	1/4	3,613	1/4	4,768	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	169	1/2	1,325	1/2	2,481	1/2	3,637	1/2	4,792	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	193	3/4	1,349	3/4	2,505	3/4	3,661	3/4	4,816	3/4		3/4		3/4	3/4	3/4		3/4	
2	217	2	1,373	2	2,529	2	3,685	2	4,839	2		2		2	2	2		2	
1/4	241	1/4	1,397	1/4	2,553	1/4	3,709	1/4	4,863	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	265	1/2	1,421	1/2	2,577	1/2	3,734	1/2	4,887	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	289	3/4	1,445	3/4	2,601	3/4	3,758	3/4	4,911	3/4		3/4		3/4	3/4	3/4		3/4	
3	313	3	1,469	3	2,626	3	3,782	3	4,934	3		3		3	3	3		3	
1/4	337	1/4	1,493	1/4	2,650	1/4	3,806	1/4	4,958	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	361	1/2	1,518	1/2	2,674	1/2	3,830	1/2	4,982	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	385	3/4	1,542	3/4	2,698	3/4	3,854	3/4	5,005	3/4		3/4		3/4	3/4	3/4		3/4	
4	409	4	1,566	4	2,722	4	3,878	4	5,029	4		4		4	4	4		4	
1/4	434	1/4	1,590	1/4	2,746	1/4	3,902	1/4	5,053	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	458	1/2	1,614	1/2	2,770	1/2	3,926	1/2	5,077	1/2		1/2		1/2	1/2	1/2		1/2	
3/4	482	3/4	1,638	3/4	2,794	3/4	3,950	3/4	5,100	3/4		3/4		3/4	3/4	3/4		3/4	
5	506	5	1,662	5	2,818	5	3,974	5	5,124	5		5		5	5	5		5	
1/4	530	1/4	1,686	1/4	2,842	1/4	3,999	1/4	5,148	1/4		1/4		1/4	1/4	1/4		1/4	
1/2	554	1/2	1,710	1/2	2,866	1/2	4,023	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	578	3/4	1,734	3/4	2,890	3/4	4,047	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
6	602	6	1,758	6	2,915	6	4,071	6		6		6		6	6	6		6	
1/4	626	1/4	1,782	1/4	2,939	1/4	4,095	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	650	1/2	1,807	1/2	2,963	1/2	4,119	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	674	3/4	1,831	3/4	2,987	3/4	4,143	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
7	699	7	1,855	7	3,011	7	4,167	7		7		7		7	7	7		7	
1/4	723	1/4	1,879	1/4	3,035	1/4	4,191	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	747	1/2	1,903	1/2	3,059	1/2	4,215	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	771	3/4	1,927	3/4	3,083	3/4	4,239	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
8	795	8	1,951	8	3,107	8	4,263	8		8		8		8	8	8		8	
1/4	819	1/4	1,975	1/4	3,131	1/4	4,288	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	843	1/2	1,999	1/2	3,155	1/2	4,312	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	867	3/4	2,023	3/4	3,180	3/4	4,336	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
9	891	9	2,047	9	3,204	9	4,360	9		9		9		9	9	9		9	
1/4	915	1/4	2,072	1/4	3,228	1/4	4,384	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	939	1/2	2,096	1/2	3,252	1/2	4,408	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	964	3/4	2,120	3/4	3,276	3/4	4,432	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
10	988	10	2,144	10	3,300	10	4,456	10		10		10		10	10	10		10	
1/4	1,012	1/4	2,168	1/4	3,324	1/4	4,480	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,036	1/2	2,192	1/2	3,348	1/2	4,504	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,060	3/4	2,216	3/4	3,372	3/4	4,528	3/4		3/4		3/4		3/4	3/4	3/4		3/4	
11	1,084	11	2,240	11	3,396	11	4,553	11		11		11		11	11	11		11	
1/4	1,108	1/4	2,264	1/4	3,420	1/4	4,577	1/4		1/4		1/4		1/4	1/4	1/4		1/4	
1/2	1,132	1/2	2,288	1/2	3,445	1/2	4,601	1/2		1/2		1/2		1/2	1/2	1/2		1/2	
3/4	1,156	3/4	2,312	3/4	3,469	3/4	4,625	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
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" MMC VALVE

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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2019



BARGE "HSM 3044"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-03"

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	116	0	295	0	470	0		0		0		0		0		0	
1/4	1	1/4	120	1/4	299	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	123	1/2	303	1/2	476	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	126	3/4	307	3/4	479	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	130	1	311	1	482	1		1		1		1		1		1	
1/4	4	1/4	133	1/4	314	1/4	485	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	137	1/2	318	1/2	488	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	140	3/4	322	3/4	491	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	144	2	326	2	494	2		2		2		2		2		2	
1/4	10	1/4	148	1/4	330	1/4	497	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	12	1/2	151	1/2	334	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	155	3/4	337	3/4	503	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	158	3	341	3	506	3		3		3		3		3		3	
1/4	18	1/4	162	1/4	345	1/4	508	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	20	1/2	166	1/2	349	1/2	511	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	22	3/4	169	3/4	353	3/4	514	3/4		3/4		3/4		3/4		3/4		3/4	
4	24	4	173	4	356	4	516	4		4		4		4		4		4	
1/4	26	1/4	177	1/4	360	1/4	519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	28	1/2	180	1/2	364	1/2	521	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	31	3/4	184	3/4	368	3/4	524	3/4		3/4		3/4		3/4		3/4		3/4	
5	33	5	188	5	372	5	526	5		5		5		5		5		5	
1/4	35	1/4	192	1/4	375	1/4	529	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	38	1/2	195	1/2	379	1/2	531	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	40	3/4	199	3/4	383	3/4	533	3/4		3/4		3/4		3/4		3/4		3/4	
6	43	6	203	6	386	6	536	6		6		6		6		6		6	
1/4	46	1/4	207	1/4	390	1/4	538	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	48	1/2	210	1/2	394	1/2	540	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	51	3/4	214	3/4	397	3/4	542	3/4		3/4		3/4		3/4		3/4		3/4	
7	54	7	218	7	401	7	544	7		7		7		7		7		7	
1/4	57	1/4	222	1/4	405	1/4	546	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	59	1/2	226	1/2	408	1/2	547	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	230	3/4	412	3/4	549	3/4		3/4		3/4		3/4		3/4		3/4	
8	65	8	233	8	415	8	551	8		8		8		8		8		8	
1/4	68	1/4	237	1/4	419	1/4	552	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	241	1/2	422	1/2	554	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	245	3/4	426	3/4	555	3/4		3/4		3/4		3/4		3/4		3/4	
9	77	9	249	9	429	9	556	9		9		9		9		9		9	
1/4	80	1/4	253	1/4	433	1/4	557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	256	1/2	436	1/2	558	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	260	3/4	440	3/4	559	3/4		3/4		3/4		3/4		3/4		3/4	
10	90	10	264	10	443	10	559	10		10		10		10		10		10	
1/4	93	1/4	268	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	96	1/2	272	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	99	3/4	276	3/4	453	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	103	11	280	11	457	11		11		11		11		11		11		11	
1/4	106	1/4	284	1/4	460	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	109	1/2	287	1/2	463	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	113	3/4	291	3/4	466	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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