



BARGE "HSM 3040"

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"

February 19, 2020

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

<http://www.pmacorp.net>



BARGE "HSM 3040"

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	00-1/8	- 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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	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"

February 19, 2020

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BARGE "HSM 3040"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	386	0	13,274	0	28,225	0	43,273	0	58,260	0	73,265	0	88,314	0	103,362	0	118,406	0	133,448
1/4	563	1/4	13,576	1/4	28,539	1/4	43,587	1/4	58,571	1/4	73,579	1/4	88,627	1/4	103,676	1/4	118,719	1/4	133,761
1/2	740	1/2	13,878	1/2	28,852	1/2	43,900	1/2	58,882	1/2	73,892	1/2	88,941	1/2	103,989	1/2	119,033	1/2	134,075
3/4	918	3/4	14,180	3/4	29,166	3/4	44,214	3/4	59,193	3/4	74,206	3/4	89,254	3/4	104,303	3/4	119,346	3/4	134,388
1	1,095	1	14,482	1	29,479	1	44,527	1	59,504	1	74,519	1	89,568	1	104,616	1	119,660	1	134,701
1/4	1,334	1/4	14,787	1/4	29,793	1/4	44,841	1/4	59,815	1/4	74,833	1/4	89,881	1/4	104,930	1/4	119,973	1/4	135,015
1/2	1,573	1/2	15,093	1/2	30,106	1/2	45,154	1/2	60,126	1/2	75,146	1/2	90,195	1/2	105,243	1/2	120,286	1/2	135,328
3/4	1,812	3/4	15,399	3/4	30,420	3/4	45,468	3/4	60,438	3/4	75,460	3/4	90,508	3/4	105,557	3/4	120,600	3/4	135,642
2	2,051	2	15,705	2	30,733	2	45,781	2	60,749	2	75,773	2	90,822	2	105,870	2	120,913	2	135,955
1/4	2,313	1/4	16,014	1/4	31,047	1/4	46,095	1/4	61,060	1/4	76,087	1/4	91,135	1/4	106,184	1/4	121,226	1/4	136,268
1/2	2,576	1/2	16,324	1/2	31,360	1/2	46,408	1/2	61,371	1/2	76,400	1/2	91,449	1/2	106,497	1/2	121,540	1/2	136,582
3/4	2,838	3/4	16,634	3/4	31,674	3/4	46,722	3/4	61,682	3/4	76,714	3/4	91,762	3/4	106,811	3/4	121,853	3/4	136,895
3	3,100	3	16,943	3	31,987	3	47,035	3	61,994	3	77,027	3	92,076	3	107,124	3	122,167	3	137,208
1/4	3,367	1/4	17,256	1/4	32,301	1/4	47,349	1/4	62,305	1/4	77,341	1/4	92,389	1/4	107,438	1/4	122,480	1/4	137,522
1/2	3,634	1/2	17,568	1/2	32,614	1/2	47,662	1/2	62,616	1/2	77,654	1/2	92,703	1/2	107,751	1/2	122,793	1/2	137,835
3/4	3,901	3/4	17,881	3/4	32,928	3/4	47,976	3/4	62,927	3/4	77,968	3/4	93,016	3/4	108,065	3/4	123,107	3/4	138,149
4	4,168	4	18,193	4	33,241	4	48,289	4	63,239	4	78,281	4	93,330	4	108,378	4	123,420	4	138,462
1/4	4,439	1/4	18,507	1/4	33,555	1/4	48,602	1/4	63,551	1/4	78,595	1/4	93,643	1/4	108,691	1/4	123,733	1/4	138,775
1/2	4,710	1/2	18,820	1/2	33,868	1/2	48,915	1/2	63,863	1/2	78,908	1/2	93,957	1/2	109,005	1/2	124,047	1/2	139,089
3/4	4,981	3/4	19,134	3/4	34,182	3/4	49,228	3/4	64,175	3/4	79,222	3/4	94,270	3/4	109,318	3/4	124,360	3/4	139,402
5	5,252	5	19,447	5	34,495	5	49,541	5	64,488	5	79,535	5	94,584	5	109,632	5	124,674	5	139,715
1/4	5,527	1/4	19,761	1/4	34,809	1/4	49,853	1/4	64,801	1/4	79,849	1/4	94,897	1/4	109,945	1/4	124,987	1/4	140,029
1/2	5,802	1/2	20,074	1/2	35,122	1/2	50,165	1/2	65,114	1/2	80,162	1/2	95,211	1/2	110,258	1/2	125,300	1/2	140,342
3/4	6,077	3/4	20,388	3/4	35,436	3/4	50,477	3/4	65,428	3/4	80,476	3/4	95,524	3/4	110,572	3/4	125,614	3/4	140,656
6	6,352	6	20,701	6	35,749	6	50,789	6	65,741	6	80,790	6	95,838	6	110,885	6	125,927	6	140,969
1/4	6,631	1/4	21,015	1/4	36,063	1/4	51,101	1/4	66,055	1/4	81,103	1/4	96,151	1/4	111,198	1/4	126,240	1/4	141,282
1/2	6,909	1/2	21,328	1/2	36,376	1/2	51,412	1/2	66,368	1/2	81,417	1/2	96,465	1/2	111,512	1/2	126,554	1/2	141,596
3/4	7,188	3/4	21,642	3/4	36,690	3/4	51,724	3/4	66,682	3/4	81,730	3/4	96,778	3/4	111,825	3/4	126,867	3/4	141,909
7	7,467	7	21,955	7	37,003	7	52,036	7	66,995	7	82,044	7	97,092	7	112,139	7	127,180	7	142,222
1/4	7,750	1/4	22,269	1/4	37,317	1/4	52,347	1/4	67,309	1/4	82,357	1/4	97,406	1/4	112,452	1/4	127,494	1/4	142,536
1/2	8,032	1/2	22,582	1/2	37,630	1/2	52,659	1/2	67,622	1/2	82,671	1/2	97,719	1/2	112,765	1/2	127,807	1/2	142,849
3/4	8,315	3/4	22,896	3/4	37,944	3/4	52,970	3/4	67,936	3/4	82,984	3/4	98,033	3/4	113,079	3/4	128,121	3/4	143,163
8	8,597	8	23,209	8	38,257	8	53,282	8	68,249	8	83,298	8	98,346	8	113,392	8	128,434	8	143,476
1/4	8,884	1/4	23,523	1/4	38,571	1/4	53,593	1/4	68,563	1/4	83,611	1/4	98,660	1/4	113,705	1/4	128,747	1/4	143,789
1/2	9,170	1/2	23,836	1/2	38,884	1/2	53,904	1/2	68,876	1/2	83,925	1/2	98,973	1/2	114,019	1/2	129,061	1/2	144,103
3/4	9,457	3/4	24,150	3/4	39,198	3/4	54,215	3/4	69,190	3/4	84,238	3/4	99,287	3/4	114,332	3/4	129,374	3/4	144,416
9	9,743	9	24,463	9	39,511	9	54,526	9	69,503	9	84,552	9	99,600	9	114,646	9	129,687	9	144,729
1/4	10,034	1/4	24,777	1/4	39,825	1/4	54,837	1/4	69,817	1/4	84,865	1/4	99,914	1/4	114,959	1/4	130,001	1/4	145,043
1/2	10,324	1/2	25,090	1/2	40,138	1/2	55,148	1/2	70,130	1/2	85,179	1/2	100,227	1/2	115,272	1/2	130,314	1/2	145,356
3/4	10,614	3/4	25,404	3/4	40,452	3/4	55,459	3/4	70,444	3/4	85,492	3/4	100,541	3/4	115,586	3/4	130,628	3/4	145,670
10	10,905	10	25,717	10	40,765	10	55,771	10	70,757	10	85,806	10	100,854	10	115,899	10	130,941	10	145,983
1/4	11,199	1/4	26,031	1/4	41,079	1/4	56,082	1/4	71,071	1/4	86,119	1/4	101,168	1/4	116,212	1/4	131,254	1/4	146,296
1/2	11,493	1/2	26,344	1/2	41,392	1/2	56,393	1/2	71,384	1/2	86,433	1/2	101,481	1/2	116,526	1/2	131,568	1/2	146,610
3/4	11,787	3/4	26,658	3/4	41,706	3/4	56,704	3/4	71,698	3/4	86,746	3/4	101,795	3/4	116,839	3/4	131,881	3/4	146,923
11	12,082	11	26,971	11	42,019	11	57,015	11	72,011	11	87,060	11	102,108	11	117,153	11	132,194	11	147,236
1/4	12,380	1/4	27,285	1/4	42,333	1/4	57,326	1/4	72,325	1/4	87,373	1/4	102,422	1/4	117,466	1/4	132,508	1/4	147,550
1/2	12,678	1/2	27,598	1/2	42,646	1/2	57,637	1/2	72,638	1/2	87,687	1/2	102,735	1/2	117,779	1/2	132,821	1/2	147,863
3/4	12,976	3/4	27,912	3/4	42,960	3/4	57,949	3/4	72,952	3/4	88,000	3/4	103,049	3/4	118,093	3/4	133,135	3/4	148,177

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 3040"

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	148,490	0	163,532	0	178,565	0	193,563	0	208,488	0		0		0		0		0	
1/4	148,803	1/4	163,845	1/4	178,877	1/4	193,875	1/4	208,769	1/4		1/4		1/4		1/4		1/4	
1/2	149,117	1/2	164,159	1/2	179,190	1/2	194,188	1/2	209,049	1/2		1/2		1/2		1/2		1/2	
3/4	149,430	3/4	164,472	3/4	179,502	3/4	194,500	3/4	209,330	3/4		3/4		3/4		3/4		3/4	
1	149,743	1	164,785	1	179,814	1	194,813	1	209,610	1		1		1		1		1	
1/4	150,057	1/4	165,099	1/4	180,127	1/4	195,125	1/4	209,843	1/4		1/4		1/4		1/4		1/4	
1/2	150,370	1/2	165,412	1/2	180,439	1/2	195,437	1/2	210,075	1/2		1/2		1/2		1/2		1/2	
3/4	150,684	3/4	165,725	3/4	180,752	3/4	195,750	3/4	210,307	3/4		3/4		3/4		3/4		3/4	
2	150,997	2	166,039	2	181,064	2	196,062	2	210,539	2		2		2		2		2	
1/4	151,310	1/4	166,352	1/4	181,377	1/4	196,375	1/4	210,719	1/4		1/4		1/4		1/4		1/4	
1/2	151,624	1/2	166,666	1/2	181,689	1/2	196,687	1/2	210,898	1/2		1/2		1/2		1/2		1/2	
3/4	151,937	3/4	166,979	3/4	182,002	3/4	197,000	3/4	211,078	3/4		3/4		3/4		3/4		3/4	
3	152,250	3	167,292	3	182,314	3	197,312	3	211,258	3		3		3		3		3	
1/4	152,564	1/4	167,606	1/4	182,627	1/4	197,625	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,877	1/2	167,919	1/2	182,939	1/2	197,937	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,191	3/4	168,232	3/4	183,252	3/4	198,250	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,504	4	168,546	4	183,564	4	198,562	4		4		4		4		4		4	
1/4	153,817	1/4	168,859	1/4	183,876	1/4	198,874	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,131	1/2	169,173	1/2	184,189	1/2	199,187	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,444	3/4	169,486	3/4	184,501	3/4	199,499	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,757	5	169,799	5	184,814	5	199,812	5		5		5		5		5		5	
1/4	155,071	1/4	170,113	1/4	185,126	1/4	200,123	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,384	1/2	170,426	1/2	185,439	1/2	200,435	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,697	3/4	170,739	3/4	185,751	3/4	200,746	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,011	6	171,053	6	186,064	6	201,057	6		6		6		6		6		6	
1/4	156,324	1/4	171,366	1/4	186,376	1/4	201,368	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,638	1/2	171,680	1/2	186,689	1/2	201,678	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,951	3/4	171,993	3/4	187,001	3/4	201,988	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,264	7	172,306	7	187,313	7	202,299	7		7		7		7		7		7	
1/4	157,578	1/4	172,620	1/4	187,626	1/4	202,609	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,891	1/2	172,933	1/2	187,938	1/2	202,919	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,204	3/4	173,246	3/4	188,251	3/4	203,230	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,518	8	173,560	8	188,563	8	203,540	8		8		8		8		8		8	
1/4	158,831	1/4	173,873	1/4	188,876	1/4	203,851	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,145	1/2	174,187	1/2	189,188	1/2	204,161	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,458	3/4	174,500	3/4	189,501	3/4	204,472	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,771	9	174,813	9	189,813	9	204,782	9		9		9		9		9		9	
1/4	160,085	1/4	175,126	1/4	190,126	1/4	205,092	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,398	1/2	175,439	1/2	190,438	1/2	205,403	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,711	3/4	175,752	3/4	190,751	3/4	205,713	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,025	10	176,065	10	191,063	10	206,023	10		10		10		10		10		10	
1/4	161,338	1/4	176,377	1/4	191,375	1/4	206,333	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,652	1/2	176,690	1/2	191,688	1/2	206,643	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,965	3/4	177,002	3/4	192,000	3/4	206,953	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,278	11	177,315	11	192,313	11	207,263	11		11		11		11		11		11	
1/4	162,592	1/4	177,627	1/4	192,625	1/4	207,569	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,905	1/2	177,940	1/2	192,938	1/2	207,876	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,218	3/4	178,252	3/4	193,250	3/4	208,182	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3040"

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	13,274	0	28,225	0	43,273	0	58,316	0	73,361	0	88,409	0	103,458	0	118,501	0	133,543
1/4	563	1/4	13,576	1/4	28,538	1/4	43,586	1/4	58,629	1/4	73,675	1/4	88,723	1/4	103,771	1/4	118,814	1/4	133,856
1/2	740	1/2	13,878	1/2	28,852	1/2	43,900	1/2	58,942	1/2	73,988	1/2	89,036	1/2	104,085	1/2	119,128	1/2	134,169
3/4	918	3/4	14,179	3/4	29,165	3/4	44,213	3/4	59,256	3/4	74,302	3/4	89,350	3/4	104,398	3/4	119,441	3/4	134,483
1	1,095	1	14,481	1	29,479	1	44,527	1	59,569	1	74,615	1	89,663	1	104,712	1	119,755	1	134,796
1/4	1,334	1/4	14,787	1/4	29,792	1/4	44,840	1/4	59,882	1/4	74,929	1/4	89,977	1/4	105,025	1/4	120,068	1/4	135,110
1/2	1,573	1/2	15,093	1/2	30,106	1/2	45,154	1/2	60,196	1/2	75,242	1/2	90,290	1/2	105,339	1/2	120,381	1/2	135,423
3/4	1,812	3/4	15,399	3/4	30,419	3/4	45,467	3/4	60,509	3/4	75,556	3/4	90,604	3/4	105,652	3/4	120,695	3/4	135,736
2	2,051	2	15,704	2	30,733	2	45,781	2	60,822	2	75,869	2	90,917	2	105,966	2	121,008	2	136,050
1/4	2,313	1/4	16,014	1/4	31,046	1/4	46,094	1/4	61,135	1/4	76,183	1/4	91,231	1/4	106,279	1/4	121,321	1/4	136,363
1/2	2,576	1/2	16,324	1/2	31,360	1/2	46,408	1/2	61,449	1/2	76,496	1/2	91,544	1/2	106,593	1/2	121,635	1/2	136,676
3/4	2,838	3/4	16,633	3/4	31,673	3/4	46,721	3/4	61,762	3/4	76,810	3/4	91,858	3/4	106,906	3/4	121,948	3/4	136,990
3	3,101	3	16,943	3	31,987	3	47,035	3	62,075	3	77,123	3	92,171	3	107,220	3	122,262	3	137,303
1/4	3,367	1/4	17,256	1/4	32,300	1/4	47,348	1/4	62,389	1/4	77,437	1/4	92,485	1/4	107,533	1/4	122,575	1/4	137,617
1/2	3,634	1/2	17,568	1/2	32,614	1/2	47,662	1/2	62,702	1/2	77,750	1/2	92,798	1/2	107,846	1/2	122,888	1/2	137,930
3/4	3,901	3/4	17,881	3/4	32,927	3/4	47,975	3/4	63,016	3/4	78,064	3/4	93,112	3/4	108,160	3/4	123,202	3/4	138,243
4	4,168	4	18,193	4	33,241	4	48,289	4	63,329	4	78,377	4	93,425	4	108,473	4	123,515	4	138,557
1/4	4,439	1/4	18,507	1/4	33,554	1/4	48,602	1/4	63,643	1/4	78,691	1/4	93,739	1/4	108,787	1/4	123,828	1/4	138,870
1/2	4,710	1/2	18,820	1/2	33,868	1/2	48,916	1/2	63,956	1/2	79,004	1/2	94,052	1/2	109,100	1/2	124,142	1/2	139,183
3/4	4,981	3/4	19,134	3/4	34,181	3/4	49,229	3/4	64,270	3/4	79,318	3/4	94,366	3/4	109,413	3/4	124,455	3/4	139,497
5	5,252	5	19,447	5	34,495	5	49,543	5	64,583	5	79,631	5	94,679	5	109,727	5	124,768	5	139,810
1/4	5,527	1/4	19,761	1/4	34,808	1/4	49,856	1/4	64,897	1/4	79,945	1/4	94,993	1/4	110,040	1/4	125,082	1/4	140,124
1/2	5,802	1/2	20,074	1/2	35,122	1/2	50,169	1/2	65,210	1/2	80,258	1/2	95,307	1/2	110,354	1/2	125,395	1/2	140,437
3/4	6,077	3/4	20,388	3/4	35,435	3/4	50,483	3/4	65,524	3/4	80,572	3/4	95,620	3/4	110,667	3/4	125,709	3/4	140,750
6	6,352	6	20,701	6	35,749	6	50,796	6	65,837	6	80,885	6	95,934	6	110,980	6	126,022	6	141,064
1/4	6,631	1/4	21,015	1/4	36,062	1/4	51,110	1/4	66,151	1/4	81,199	1/4	96,247	1/4	111,294	1/4	126,335	1/4	141,377
1/2	6,909	1/2	21,328	1/2	36,376	1/2	51,423	1/2	66,464	1/2	81,512	1/2	96,561	1/2	111,607	1/2	126,649	1/2	141,690
3/4	7,188	3/4	21,642	3/4	36,689	3/4	51,737	3/4	66,778	3/4	81,826	3/4	96,874	3/4	111,920	3/4	126,962	3/4	142,004
7	7,467	7	21,955	7	37,003	7	52,050	7	67,091	7	82,139	7	97,188	7	112,234	7	127,275	7	142,317
1/4	7,750	1/4	22,269	1/4	37,316	1/4	52,364	1/4	67,405	1/4	82,453	1/4	97,501	1/4	112,547	1/4	127,589	1/4	142,630
1/2	8,032	1/2	22,582	1/2	37,630	1/2	52,677	1/2	67,718	1/2	82,766	1/2	97,815	1/2	112,860	1/2	127,902	1/2	142,944
3/4	8,315	3/4	22,896	3/4	37,943	3/4	52,990	3/4	68,032	3/4	83,080	3/4	98,128	3/4	113,174	3/4	128,215	3/4	143,257
8	8,597	8	23,209	8	38,257	8	53,304	8	68,345	8	83,393	8	98,442	8	113,487	8	128,529	8	143,571
1/4	8,884	1/4	23,523	1/4	38,570	1/4	53,617	1/4	68,659	1/4	83,707	1/4	98,755	1/4	113,801	1/4	128,842	1/4	143,884
1/2	9,170	1/2	23,836	1/2	38,884	1/2	53,930	1/2	68,972	1/2	84,020	1/2	99,069	1/2	114,114	1/2	129,156	1/2	144,197
3/4	9,457	3/4	24,150	3/4	39,197	3/4	54,243	3/4	69,286	3/4	84,334	3/4	99,382	3/4	114,427	3/4	129,469	3/4	144,511
9	9,743	9	24,463	9	39,511	9	54,557	9	69,599	9	84,647	9	99,696	9	114,741	9	129,782	9	144,824
1/4	10,034	1/4	24,777	1/4	39,824	1/4	54,870	1/4	69,913	1/4	84,961	1/4	100,009	1/4	115,054	1/4	130,096	1/4	145,137
1/2	10,324	1/2	25,090	1/2	40,138	1/2	55,183	1/2	70,226	1/2	85,274	1/2	100,323	1/2	115,367	1/2	130,409	1/2	145,451
3/4	10,614	3/4	25,403	3/4	40,451	3/4	55,496	3/4	70,540	3/4	85,588	3/4	100,636	3/4	115,681	3/4	130,722	3/4	145,764
10	10,905	10	25,717	10	40,765	10	55,810	10	70,853	10	85,901	10	100,950	10	115,994	10	131,036	10	146,078
1/4	11,199	1/4	26,030	1/4	41,078	1/4	56,123	1/4	71,167	1/4	86,215	1/4	101,263	1/4	116,308	1/4	131,349	1/4	146,391
1/2	11,493	1/2	26,344	1/2	41,392	1/2	56,436	1/2	71,480	1/2	86,528	1/2	101,577	1/2	116,621	1/2	131,663	1/2	146,704
3/4	11,787	3/4	26,657	3/4	41,705	3/4	56,750	3/4	71,794	3/4	86,842	3/4	101,890	3/4	116,934	3/4	131,976	3/4	147,018
11	12,082	11	26,971	11	42,019	11	57,063	11	72,107	11	87,155	11	102,204	11	117,248	11	132,289	11	147,331
1/4	12,380	1/4	27,284	1/4	42,332	1/4	57,376	1/4	72,421	1/4	87,469	1/4	102,517	1/4	117,561	1/4	132,603	1/4	147,644
1/2	12,678	1/2	27,598	1/2	42,646	1/2	57,689	1/2	72,734	1/2	87,782	1/2	102,831	1/2	117,874	1/2	132,916	1/2	147,958
3/4	12,976	3/4	27,911	3/4	42,959	3/4	58,003	3/4	73,048	3/4	88,096	3/4	103,144	3/4	118,188	3/4	133,229	3/4	148,271

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 3040"

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	148,585	0	163,626	0	178,659	0	193,657	0	208,583	0		0		0		0		0	
1/4	148,898	1/4	163,940	1/4	178,972	1/4	193,970	1/4	208,863	1/4		1/4		1/4		1/4		1/4	
1/2	149,211	1/2	164,253	1/2	179,284	1/2	194,282	1/2	209,144	1/2		1/2		1/2		1/2		1/2	
3/4	149,525	3/4	164,567	3/4	179,597	3/4	194,595	3/4	209,424	3/4		3/4		3/4		3/4		3/4	
1	149,838	1	164,880	1	179,909	1	194,907	1	209,705	1		1		1		1		1	
1/4	150,151	1/4	165,193	1/4	180,221	1/4	195,220	1/4	209,937	1/4		1/4		1/4		1/4		1/4	
1/2	150,465	1/2	165,507	1/2	180,534	1/2	195,532	1/2	210,169	1/2		1/2		1/2		1/2		1/2	
3/4	150,778	3/4	165,820	3/4	180,846	3/4	195,844	3/4	210,401	3/4		3/4		3/4		3/4		3/4	
2	151,092	2	166,133	2	181,159	2	196,157	2	210,633	2		2		2		2		2	
1/4	151,405	1/4	166,447	1/4	181,471	1/4	196,469	1/4	210,813	1/4		1/4		1/4		1/4		1/4	
1/2	151,718	1/2	166,760	1/2	181,784	1/2	196,782	1/2	210,993	1/2		1/2		1/2		1/2		1/2	
3/4	152,032	3/4	167,074	3/4	182,096	3/4	197,094	3/4	211,173	3/4		3/4		3/4		3/4		3/4	
3	152,345	3	167,387	3	182,409	3	197,407	3	211,352	3		3		3		3		3	
1/4	152,658	1/4	167,700	1/4	182,721	1/4	197,719	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,972	1/2	168,014	1/2	183,034	1/2	198,032	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,285	3/4	168,327	3/4	183,346	3/4	198,344	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,599	4	168,640	4	183,659	4	198,657	4		4		4		4		4		4	
1/4	153,912	1/4	168,954	1/4	183,971	1/4	198,969	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,225	1/2	169,267	1/2	184,283	1/2	199,281	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,539	3/4	169,581	3/4	184,596	3/4	199,594	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,852	5	169,894	5	184,908	5	199,906	5		5		5		5		5		5	
1/4	155,165	1/4	170,207	1/4	185,221	1/4	200,218	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,479	1/2	170,521	1/2	185,533	1/2	200,529	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,792	3/4	170,834	3/4	185,846	3/4	200,841	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,106	6	171,147	6	186,158	6	201,152	6		6		6		6		6		6	
1/4	156,419	1/4	171,461	1/4	186,471	1/4	201,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,732	1/2	171,774	1/2	186,783	1/2	201,773	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,046	3/4	172,088	3/4	187,096	3/4	202,083	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,359	7	172,401	7	187,408	7	202,393	7		7		7		7		7		7	
1/4	157,672	1/4	172,714	1/4	187,720	1/4	202,704	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,986	1/2	173,028	1/2	188,033	1/2	203,014	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,299	3/4	173,341	3/4	188,345	3/4	203,324	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,612	8	173,654	8	188,658	8	203,635	8		8		8		8		8		8	
1/4	158,926	1/4	173,968	1/4	188,970	1/4	203,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,239	1/2	174,281	1/2	189,283	1/2	204,256	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,553	3/4	174,594	3/4	189,595	3/4	204,566	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,866	9	174,908	9	189,908	9	204,877	9		9		9		9		9		9	
1/4	160,179	1/4	175,221	1/4	190,220	1/4	205,187	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,493	1/2	175,534	1/2	190,533	1/2	205,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,806	3/4	175,847	3/4	190,845	3/4	205,808	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,119	10	176,160	10	191,158	10	206,118	10		10		10		10		10		10	
1/4	161,433	1/4	176,472	1/4	191,470	1/4	206,428	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,746	1/2	176,784	1/2	191,782	1/2	206,738	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,060	3/4	177,097	3/4	192,095	3/4	207,048	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,373	11	177,409	11	192,407	11	207,358	11		11		11		11		11		11	
1/4	162,686	1/4	177,722	1/4	192,720	1/4	207,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,000	1/2	178,034	1/2	193,032	1/2	207,970	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,313	3/4	178,347	3/4	193,345	3/4	208,276	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3040"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,032	0	15,707	0	30,780	0	45,481	0	59,977	0	74,841	0	89,917	0	104,992	0	120,063	0	135,131
1/4	1,268	1/4	16,021	1/4	31,094	1/4	45,783	1/4	60,279	1/4	75,155	1/4	90,231	1/4	105,306	1/4	120,377	1/4	135,445
1/2	1,503	1/2	16,335	1/2	31,408	1/2	46,084	1/2	60,582	1/2	75,469	1/2	90,545	1/2	105,621	1/2	120,691	1/2	135,759
3/4	1,739	3/4	16,649	3/4	31,722	3/4	46,385	3/4	60,884	3/4	75,783	3/4	90,859	3/4	105,935	3/4	121,005	3/4	136,073
1	1,974	1	16,963	1	32,036	1	46,687	1	61,186	1	76,097	1	91,173	1	106,249	1	121,319	1	136,387
1/4	2,268	1/4	17,277	1/4	32,350	1/4	46,988	1/4	61,488	1/4	76,411	1/4	91,487	1/4	106,563	1/4	121,632	1/4	136,701
1/2	2,562	1/2	17,591	1/2	32,664	1/2	47,290	1/2	61,791	1/2	76,725	1/2	91,801	1/2	106,877	1/2	121,946	1/2	137,015
3/4	2,855	3/4	17,905	3/4	32,978	3/4	47,591	3/4	62,093	3/4	77,039	3/4	92,115	3/4	107,191	3/4	122,260	3/4	137,328
2	3,149	2	18,219	2	33,292	2	47,892	2	62,395	2	77,353	2	92,429	2	107,505	2	122,574	2	137,642
1/4	3,462	1/4	18,533	1/4	33,606	1/4	48,194	1/4	62,698	1/4	77,668	1/4	92,743	1/4	107,819	1/4	122,888	1/4	137,956
1/2	3,775	1/2	18,847	1/2	33,920	1/2	48,495	1/2	63,000	1/2	77,982	1/2	93,057	1/2	108,133	1/2	123,202	1/2	138,270
3/4	4,088	3/4	19,161	3/4	34,234	3/4	48,797	3/4	63,302	3/4	78,296	3/4	93,371	3/4	108,447	3/4	123,516	3/4	138,584
3	4,401	3	19,475	3	34,549	3	49,098	3	63,605	3	78,610	3	93,686	3	108,761	3	123,830	3	138,898
1/4	4,715	1/4	19,790	1/4	34,863	1/4	49,400	1/4	63,907	1/4	78,924	1/4	94,000	1/4	109,075	1/4	124,144	1/4	139,212
1/2	5,029	1/2	20,104	1/2	35,177	1/2	49,701	1/2	64,209	1/2	79,238	1/2	94,314	1/2	109,389	1/2	124,458	1/2	139,526
3/4	5,343	3/4	20,418	3/4	35,491	3/4	50,003	3/4	64,512	3/4	79,552	3/4	94,628	3/4	109,703	3/4	124,772	3/4	139,840
4	5,657	4	20,732	4	35,805	4	50,305	4	64,814	4	79,866	4	94,942	4	110,017	4	125,086	4	140,154
1/4	5,971	1/4	21,046	1/4	36,113	1/4	50,607	1/4	65,122	1/4	80,180	1/4	95,256	1/4	110,331	1/4	125,399	1/4	140,468
1/2	6,285	1/2	21,360	1/2	36,421	1/2	50,909	1/2	65,430	1/2	80,494	1/2	95,570	1/2	110,645	1/2	125,713	1/2	140,782
3/4	6,599	3/4	21,674	3/4	36,729	3/4	51,210	3/4	65,738	3/4	80,808	3/4	95,884	3/4	110,959	3/4	126,027	3/4	141,096
5	6,913	5	21,988	5	37,038	5	51,512	5	66,047	5	81,122	5	96,198	5	111,273	5	126,341	5	141,409
1/4	7,227	1/4	22,302	1/4	37,340	1/4	51,815	1/4	66,361	1/4	81,436	1/4	96,512	1/4	111,587	1/4	126,655	1/4	141,723
1/2	7,541	1/2	22,616	1/2	37,642	1/2	52,117	1/2	66,675	1/2	81,751	1/2	96,826	1/2	111,901	1/2	126,969	1/2	142,037
3/4	7,855	3/4	22,930	3/4	37,944	3/4	52,419	3/4	66,989	3/4	82,065	3/4	97,140	3/4	112,215	3/4	127,283	3/4	142,351
6	8,169	6	23,244	6	38,247	6	52,722	6	67,303	6	82,379	6	97,454	6	112,529	6	127,597	6	142,665
1/4	8,483	1/4	23,558	1/4	38,549	1/4	53,024	1/4	67,617	1/4	82,693	1/4	97,769	1/4	112,843	1/4	127,911	1/4	142,979
1/2	8,797	1/2	23,872	1/2	38,850	1/2	53,326	1/2	67,931	1/2	83,007	1/2	98,083	1/2	113,157	1/2	128,225	1/2	143,293
3/4	9,111	3/4	24,187	3/4	39,152	3/4	53,629	3/4	68,245	3/4	83,321	3/4	98,397	3/4	113,470	3/4	128,539	3/4	143,607
7	9,425	7	24,501	7	39,454	7	53,931	7	68,559	7	83,635	7	98,711	7	113,784	7	128,853	7	143,921
1/4	9,739	1/4	24,815	1/4	39,755	1/4	54,233	1/4	68,873	1/4	83,949	1/4	99,025	1/4	114,098	1/4	129,167	1/4	144,235
1/2	10,053	1/2	25,129	1/2	40,057	1/2	54,535	1/2	69,187	1/2	84,263	1/2	99,339	1/2	114,412	1/2	129,480	1/2	144,549
3/4	10,367	3/4	25,443	3/4	40,358	3/4	54,838	3/4	69,501	3/4	84,577	3/4	99,653	3/4	114,726	3/4	129,794	3/4	144,863
8	10,682	8	25,757	8	40,660	8	55,140	8	69,816	8	84,891	8	99,967	8	115,040	8	130,108	8	145,177
1/4	10,996	1/4	26,071	1/4	40,961	1/4	55,442	1/4	70,130	1/4	85,205	1/4	100,281	1/4	115,354	1/4	130,422	1/4	145,490
1/2	11,310	1/2	26,385	1/2	41,262	1/2	55,745	1/2	70,444	1/2	85,519	1/2	100,595	1/2	115,668	1/2	130,736	1/2	145,804
3/4	11,624	3/4	26,699	3/4	41,564	3/4	56,047	3/4	70,758	3/4	85,834	3/4	100,909	3/4	115,982	3/4	131,050	3/4	146,118
9	11,938	9	27,013	9	41,865	9	56,349	9	71,072	9	86,148	9	101,223	9	116,296	9	131,364	9	146,432
1/4	12,252	1/4	27,327	1/4	42,166	1/4	56,652	1/4	71,386	1/4	86,462	1/4	101,538	1/4	116,610	1/4	131,678	1/4	146,746
1/2	12,566	1/2	27,641	1/2	42,468	1/2	56,954	1/2	71,700	1/2	86,776	1/2	101,852	1/2	116,924	1/2	131,992	1/2	147,060
3/4	12,880	3/4	27,954	3/4	42,769	3/4	57,256	3/4	72,014	3/4	87,090	3/4	102,166	3/4	117,238	3/4	132,306	3/4	147,374
10	13,194	10	28,268	10	43,070	10	57,559	10	72,328	10	87,404	10	102,480	10	117,551	10	132,620	10	147,688
1/4	13,508	1/4	28,582	1/4	43,372	1/4	57,861	1/4	72,642	1/4	87,718	1/4	102,794	1/4	117,865	1/4	132,934	1/4	148,002
1/2	13,822	1/2	28,896	1/2	43,673	1/2	58,163	1/2	72,956	1/2	88,032	1/2	103,108	1/2	118,179	1/2	133,248	1/2	148,316
3/4	14,136	3/4	29,210	3/4	43,975	3/4	58,465	3/4	73,270	3/4	88,346	3/4	103,422	3/4	118,493	3/4	133,561	3/4	148,630
11	14,450	11	29,524	11	44,276	11	58,768	11	73,584	11	88,660	11	103,736	11	118,807	11	133,875	11	148,944
1/4	14,764	1/4	29,838	1/4	44,577	1/4	59,070	1/4	73,899	1/4	88,974	1/4	104,050	1/4	119,121	1/4	134,189	1/4	149,258
1/2	15,079	1/2	30,152	1/2	44,879	1/2	59,372	1/2	74,213	1/2	89,288	1/2	104,364	1/2	119,435	1/2	134,503	1/2	149,571
3/4	15,393	3/4	30,466	3/4	45,180	3/4	59,675	3/4	74,527	3/4	89,603	3/4	104,678	3/4	119,749	3/4	134,817	3/4	149,885

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 3040"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,199	0	165,268	0	180,325	0	195,342	0	210,262	0		0		0		0		0	
1/4	150,513	1/4	165,581	1/4	180,638	1/4	195,655	1/4	210,542	1/4		1/4		1/4		1/4		1/4	
1/2	150,827	1/2	165,895	1/2	180,951	1/2	195,968	1/2	210,822	1/2		1/2		1/2		1/2		1/2	
3/4	151,141	3/4	166,209	3/4	181,264	3/4	196,281	3/4	211,102	3/4		3/4		3/4		3/4		3/4	
1	151,455	1	166,523	1	181,576	1	196,594	1	211,382	1		1		1		1		1	
1/4	151,769	1/4	166,837	1/4	181,889	1/4	196,906	1/4	211,613	1/4		1/4		1/4		1/4		1/4	
1/2	152,083	1/2	167,151	1/2	182,202	1/2	197,219	1/2	211,845	1/2		1/2		1/2		1/2		1/2	
3/4	152,397	3/4	167,465	3/4	182,515	3/4	197,532	3/4	212,076	3/4		3/4		3/4		3/4		3/4	
2	152,711	2	167,779	2	182,828	2	197,845	2	212,308	2		2		2		2		2	
1/4	153,025	1/4	168,093	1/4	183,141	1/4	198,158	1/4	212,487	1/4		1/4		1/4		1/4		1/4	
1/2	153,338	1/2	168,407	1/2	183,454	1/2	198,471	1/2	212,666	1/2		1/2		1/2		1/2		1/2	
3/4	153,652	3/4	168,721	3/4	183,766	3/4	198,784	3/4	212,845	3/4		3/4		3/4		3/4		3/4	
3	153,966	3	169,035	3	184,079	3	199,096	3	213,024	3		3		3		3		3	
1/4	154,280	1/4	169,348	1/4	184,392	1/4	199,409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,594	1/2	169,662	1/2	184,705	1/2	199,722	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,908	3/4	169,976	3/4	185,018	3/4	200,035	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,222	4	170,290	4	185,331	4	200,348	4		4		4		4		4		4	
1/4	155,536	1/4	170,604	1/4	185,644	1/4	200,661	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,850	1/2	170,918	1/2	185,956	1/2	200,974	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,164	3/4	171,232	3/4	186,269	3/4	201,286	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,478	5	171,546	5	186,582	5	201,599	5		5		5		5		5		5	
1/4	156,792	1/4	171,860	1/4	186,895	1/4	201,911	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,106	1/2	172,174	1/2	187,208	1/2	202,222	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,419	3/4	172,488	3/4	187,521	3/4	202,533	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,733	6	172,802	6	187,834	6	202,845	6		6		6		6		6		6	
1/4	158,047	1/4	173,116	1/4	188,146	1/4	203,154	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,361	1/2	173,429	1/2	188,459	1/2	203,464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,675	3/4	173,743	3/4	188,772	3/4	203,774	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,989	7	174,057	7	189,085	7	204,084	7		7		7		7		7		7	
1/4	159,303	1/4	174,371	1/4	189,398	1/4	204,393	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,617	1/2	174,685	1/2	189,711	1/2	204,703	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,931	3/4	174,999	3/4	190,024	3/4	205,013	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,245	8	175,313	8	190,336	8	205,323	8		8		8		8		8		8	
1/4	160,559	1/4	175,627	1/4	190,649	1/4	205,633	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,873	1/2	175,941	1/2	190,962	1/2	205,943	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,187	3/4	176,255	3/4	191,275	3/4	206,253	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,500	9	176,569	9	191,588	9	206,563	9		9		9		9		9		9	
1/4	161,814	1/4	176,882	1/4	191,901	1/4	206,872	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,128	1/2	177,195	1/2	192,214	1/2	207,182	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,442	3/4	177,509	3/4	192,526	3/4	207,492	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,756	10	177,822	10	192,839	10	207,802	10		10		10		10		10		10	
1/4	163,070	1/4	178,135	1/4	193,152	1/4	208,111	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,384	1/2	178,448	1/2	193,465	1/2	208,421	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,698	3/4	178,761	3/4	193,778	3/4	208,730	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,012	11	179,074	11	194,091	11	209,039	11		11		11		11		11		11	
1/4	164,326	1/4	179,387	1/4	194,404	1/4	209,345	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,640	1/2	179,699	1/2	194,716	1/2	209,651	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,954	3/4	180,012	3/4	195,029	3/4	209,957	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3040"

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	15,715	0	30,796	0	45,858	0	60,926	0	76,009	0	91,093	0	106,176	0	121,253	0	136,329
1/4	1,269	1/4	16,029	1/4	31,110	1/4	46,172	1/4	61,241	1/4	76,324	1/4	91,407	1/4	106,490	1/4	121,567	1/4	136,643
1/2	1,504	1/2	16,343	1/2	31,424	1/2	46,485	1/2	61,555	1/2	76,638	1/2	91,721	1/2	106,804	1/2	121,882	1/2	136,957
3/4	1,740	3/4	16,658	3/4	31,738	3/4	46,798	3/4	61,869	3/4	76,952	3/4	92,035	3/4	107,118	3/4	122,196	3/4	137,271
1	1,976	1	16,972	1	32,053	1	47,111	1	62,183	1	77,266	1	92,349	1	107,433	1	122,510	1	137,585
1/4	2,269	1/4	17,286	1/4	32,367	1/4	47,425	1/4	62,498	1/4	77,581	1/4	92,664	1/4	107,747	1/4	122,824	1/4	137,899
1/2	2,563	1/2	17,600	1/2	32,681	1/2	47,738	1/2	62,812	1/2	77,895	1/2	92,978	1/2	108,061	1/2	123,138	1/2	138,213
3/4	2,857	3/4	17,914	3/4	32,995	3/4	48,051	3/4	63,126	3/4	78,209	3/4	93,292	3/4	108,375	3/4	123,452	3/4	138,527
2	3,151	2	18,229	2	33,309	2	48,365	2	63,440	2	78,523	2	93,606	2	108,690	2	123,766	2	138,842
1/4	3,464	1/4	18,543	1/4	33,624	1/4	48,678	1/4	63,754	1/4	78,838	1/4	93,921	1/4	109,004	1/4	124,080	1/4	139,156
1/2	3,777	1/2	18,857	1/2	33,938	1/2	48,991	1/2	64,069	1/2	79,152	1/2	94,235	1/2	109,318	1/2	124,394	1/2	139,470
3/4	4,090	3/4	19,171	3/4	34,252	3/4	49,305	3/4	64,383	3/4	79,466	3/4	94,549	3/4	109,632	3/4	124,708	3/4	139,784
3	4,404	3	19,486	3	34,566	3	49,618	3	64,697	3	79,780	3	94,863	3	109,946	3	125,022	3	140,098
1/4	4,718	1/4	19,800	1/4	34,881	1/4	49,932	1/4	65,011	1/4	80,094	1/4	95,178	1/4	110,261	1/4	125,336	1/4	140,412
1/2	5,032	1/2	20,114	1/2	35,195	1/2	50,245	1/2	65,326	1/2	80,409	1/2	95,492	1/2	110,575	1/2	125,650	1/2	140,726
3/4	5,346	3/4	20,428	3/4	35,509	3/4	50,559	3/4	65,640	3/4	80,723	3/4	95,806	3/4	110,889	3/4	125,964	3/4	141,040
4	5,660	4	20,743	4	35,823	4	50,872	4	65,954	4	81,037	4	96,120	4	111,203	4	126,279	4	141,354
1/4	5,974	1/4	21,057	1/4	36,138	1/4	51,186	1/4	66,268	1/4	81,351	1/4	96,434	1/4	111,517	1/4	126,593	1/4	141,668
1/2	6,288	1/2	21,371	1/2	36,452	1/2	51,500	1/2	66,583	1/2	81,666	1/2	96,749	1/2	111,831	1/2	126,907	1/2	141,982
3/4	6,602	3/4	21,685	3/4	36,766	3/4	51,814	3/4	66,897	3/4	81,980	3/4	97,063	3/4	112,145	3/4	127,221	3/4	142,296
5	6,916	5	21,999	5	37,080	5	52,128	5	67,211	5	82,294	5	97,377	5	112,459	5	127,535	5	142,610
1/4	7,231	1/4	22,314	1/4	37,394	1/4	52,442	1/4	67,525	1/4	82,608	1/4	97,691	1/4	112,773	1/4	127,849	1/4	142,924
1/2	7,545	1/2	22,628	1/2	37,709	1/2	52,756	1/2	67,839	1/2	82,923	1/2	98,006	1/2	113,087	1/2	128,163	1/2	143,239
3/4	7,859	3/4	22,942	3/4	38,023	3/4	53,071	3/4	68,154	3/4	83,237	3/4	98,320	3/4	113,402	3/4	128,477	3/4	143,553
6	8,173	6	23,256	6	38,337	6	53,385	6	68,468	6	83,551	6	98,634	6	113,716	6	128,791	6	143,867
1/4	8,488	1/4	23,571	1/4	38,651	1/4	53,699	1/4	68,782	1/4	83,865	1/4	98,948	1/4	114,030	1/4	129,105	1/4	144,181
1/2	8,802	1/2	23,885	1/2	38,965	1/2	54,013	1/2	69,096	1/2	84,179	1/2	99,263	1/2	114,344	1/2	129,419	1/2	144,495
3/4	9,116	3/4	24,199	3/4	39,278	3/4	54,328	3/4	69,411	3/4	84,494	3/4	99,577	3/4	114,658	3/4	129,733	3/4	144,809
7	9,430	7	24,513	7	39,592	7	54,642	7	69,725	7	84,808	7	99,891	7	114,972	7	130,047	7	145,123
1/4	9,744	1/4	24,828	1/4	39,905	1/4	54,956	1/4	70,039	1/4	85,122	1/4	100,205	1/4	115,286	1/4	130,362	1/4	145,437
1/2	10,059	1/2	25,142	1/2	40,219	1/2	55,270	1/2	70,353	1/2	85,436	1/2	100,519	1/2	115,600	1/2	130,676	1/2	145,751
3/4	10,373	3/4	25,456	3/4	40,532	3/4	55,584	3/4	70,668	3/4	85,751	3/4	100,834	3/4	115,914	3/4	130,990	3/4	146,065
8	10,687	8	25,770	8	40,845	8	55,899	8	70,982	8	86,065	8	101,148	8	116,228	8	131,304	8	146,379
1/4	11,001	1/4	26,084	1/4	41,159	1/4	56,213	1/4	71,296	1/4	86,379	1/4	101,462	1/4	116,542	1/4	131,618	1/4	146,693
1/2	11,316	1/2	26,399	1/2	41,472	1/2	56,527	1/2	71,610	1/2	86,693	1/2	101,776	1/2	116,856	1/2	131,932	1/2	147,007
3/4	11,630	3/4	26,713	3/4	41,785	3/4	56,841	3/4	71,924	3/4	87,008	3/4	102,091	3/4	117,170	3/4	132,246	3/4	147,322
9	11,944	9	27,027	9	42,099	9	57,156	9	72,239	9	87,322	9	102,405	9	117,485	9	132,560	9	147,636
1/4	12,258	1/4	27,341	1/4	42,412	1/4	57,470	1/4	72,553	1/4	87,636	1/4	102,719	1/4	117,799	1/4	132,874	1/4	147,950
1/2	12,573	1/2	27,655	1/2	42,725	1/2	57,784	1/2	72,867	1/2	87,950	1/2	103,033	1/2	118,113	1/2	133,188	1/2	148,264
3/4	12,887	3/4	27,969	3/4	43,039	3/4	58,098	3/4	73,181	3/4	88,264	3/4	103,348	3/4	118,427	3/4	133,502	3/4	148,578
10	13,201	10	28,283	10	43,352	10	58,413	10	73,496	10	88,579	10	103,662	10	118,741	10	133,816	10	148,892
1/4	13,515	1/4	28,597	1/4	43,665	1/4	58,727	1/4	73,810	1/4	88,893	1/4	103,976	1/4	119,055	1/4	134,130	1/4	149,206
1/2	13,829	1/2	28,911	1/2	43,978	1/2	59,041	1/2	74,124	1/2	89,207	1/2	104,290	1/2	119,369	1/2	134,444	1/2	149,520
3/4	14,144	3/4	29,225	3/4	44,292	3/4	59,355	3/4	74,438	3/4	89,521	3/4	104,604	3/4	119,683	3/4	134,759	3/4	149,834
11	14,458	11	29,539	11	44,605	11	59,669	11	74,753	11	89,836	11	104,919	11	119,997	11	135,073	11	150,148
1/4	14,772	1/4	29,853	1/4	44,918	1/4	59,984	1/4	75,067	1/4	90,150	1/4	105,233	1/4	120,311	1/4	135,387	1/4	150,462
1/2	15,086	1/2	30,167	1/2	45,232	1/2	60,298	1/2	75,381	1/2	90,464	1/2	105,547	1/2	120,625	1/2	135,701	1/2	150,776
3/4	15,401	3/4	30,481	3/4	45,545	3/4	60,612	3/4	75,695	3/4	90,778	3/4	105,861	3/4	120,939	3/4	136,015	3/4	151,090

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 3040"

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	151,404	0	166,480	0	181,545	0	196,569	0	211,497	0		0		0		0		0	
1/4	151,719	1/4	166,794	1/4	181,858	1/4	196,882	1/4	211,777	1/4		1/4		1/4		1/4		1/4	
1/2	152,033	1/2	167,108	1/2	182,171	1/2	197,195	1/2	212,057	1/2		1/2		1/2		1/2		1/2	
3/4	152,347	3/4	167,422	3/4	182,484	3/4	197,508	3/4	212,337	3/4		3/4		3/4		3/4		3/4	
1	152,661	1	167,736	1	182,797	1	197,821	1	212,617	1		1		1		1		1	
1/4	152,975	1/4	168,050	1/4	183,110	1/4	198,134	1/4	212,849	1/4		1/4		1/4		1/4		1/4	
1/2	153,289	1/2	168,364	1/2	183,423	1/2	198,447	1/2	213,080	1/2		1/2		1/2		1/2		1/2	
3/4	153,603	3/4	168,679	3/4	183,736	3/4	198,760	3/4	213,312	3/4		3/4		3/4		3/4		3/4	
2	153,917	2	168,993	2	184,049	2	199,073	2	213,543	2		2		2		2		2	
1/4	154,231	1/4	169,307	1/4	184,362	1/4	199,386	1/4	213,722	1/4		1/4		1/4		1/4		1/4	
1/2	154,545	1/2	169,621	1/2	184,675	1/2	199,699	1/2	213,901	1/2		1/2		1/2		1/2		1/2	
3/4	154,859	3/4	169,935	3/4	184,988	3/4	200,012	3/4	214,081	3/4		3/4		3/4		3/4		3/4	
3	155,173	3	170,249	3	185,301	3	200,325	3	214,260	3		3		3		3		3	
1/4	155,487	1/4	170,563	1/4	185,614	1/4	200,638	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,801	1/2	170,877	1/2	185,927	1/2	200,951	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,116	3/4	171,191	3/4	186,240	3/4	201,264	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,430	4	171,505	4	186,553	4	201,577	4		4		4		4		4		4	
1/4	156,744	1/4	171,819	1/4	186,866	1/4	201,890	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,058	1/2	172,133	1/2	187,179	1/2	202,203	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,372	3/4	172,447	3/4	187,492	3/4	202,516	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,686	5	172,761	5	187,805	5	202,829	5		5		5		5		5		5	
1/4	158,000	1/4	173,076	1/4	188,118	1/4	203,141	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,314	1/2	173,390	1/2	188,431	1/2	203,452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,628	3/4	173,704	3/4	188,744	3/4	203,764	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,942	6	174,018	6	189,057	6	204,075	6		6		6		6		6		6	
1/4	159,256	1/4	174,332	1/4	189,370	1/4	204,385	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,570	1/2	174,646	1/2	189,683	1/2	204,695	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,884	3/4	174,960	3/4	189,996	3/4	205,005	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,199	7	175,274	7	190,309	7	205,315	7		7		7		7		7		7	
1/4	160,513	1/4	175,588	1/4	190,622	1/4	205,625	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,827	1/2	175,902	1/2	190,935	1/2	205,935	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,141	3/4	176,216	3/4	191,248	3/4	206,245	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,455	8	176,530	8	191,561	8	206,555	8		8		8		8		8		8	
1/4	161,769	1/4	176,844	1/4	191,874	1/4	206,865	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,083	1/2	177,158	1/2	192,187	1/2	207,175	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,397	3/4	177,473	3/4	192,500	3/4	207,485	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,711	9	177,787	9	192,813	9	207,795	9		9		9		9		9		9	
1/4	163,025	1/4	178,100	1/4	193,126	1/4	208,105	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,339	1/2	178,414	1/2	193,439	1/2	208,415	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,653	3/4	178,727	3/4	193,752	3/4	208,725	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,967	10	179,041	10	194,065	10	209,035	10		10		10		10		10		10	
1/4	164,281	1/4	179,354	1/4	194,378	1/4	209,345	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,596	1/2	179,667	1/2	194,691	1/2	209,654	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,910	3/4	179,980	3/4	195,004	3/4	209,964	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,224	11	180,293	11	195,317	11	210,273	11		11		11		11		11		11	
1/4	165,538	1/4	180,606	1/4	195,630	1/4	210,579	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,852	1/2	180,919	1/2	195,943	1/2	210,885	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,166	3/4	181,232	3/4	196,256	3/4	211,191	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3040"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,028	0	15,635	0	30,626	0	45,387	0	59,946	0	74,858	0	89,826	0	104,806	0	119,775	0	134,742
1/4	1,263	1/4	15,947	1/4	30,938	1/4	45,689	1/4	60,258	1/4	75,168	1/4	90,138	1/4	105,118	1/4	120,087	1/4	135,054
1/2	1,497	1/2	16,260	1/2	31,250	1/2	45,991	1/2	60,570	1/2	75,478	1/2	90,450	1/2	105,430	1/2	120,399	1/2	135,365
3/4	1,732	3/4	16,572	3/4	31,563	3/4	46,292	3/4	60,882	3/4	75,789	3/4	90,762	3/4	105,742	3/4	120,711	3/4	135,677
1	1,967	1	16,884	1	31,875	1	46,594	1	61,194	1	76,099	1	91,074	1	106,054	1	121,023	1	135,989
1/4	2,259	1/4	17,197	1/4	32,187	1/4	46,896	1/4	61,506	1/4	76,409	1/4	91,386	1/4	106,366	1/4	121,334	1/4	136,301
1/2	2,552	1/2	17,509	1/2	32,500	1/2	47,198	1/2	61,818	1/2	76,720	1/2	91,697	1/2	106,679	1/2	121,646	1/2	136,613
3/4	2,844	3/4	17,821	3/4	32,812	3/4	47,500	3/4	62,130	3/4	77,030	3/4	92,009	3/4	106,991	3/4	121,958	3/4	136,924
2	3,137	2	18,134	2	33,124	2	47,802	2	62,442	2	77,340	2	92,321	2	107,303	2	122,270	2	137,236
1/4	3,448	1/4	18,446	1/4	33,437	1/4	48,105	1/4	62,753	1/4	77,652	1/4	92,633	1/4	107,615	1/4	122,582	1/4	137,548
1/2	3,760	1/2	18,758	1/2	33,749	1/2	48,407	1/2	63,064	1/2	77,963	1/2	92,945	1/2	107,927	1/2	122,893	1/2	137,860
3/4	4,072	3/4	19,071	3/4	34,061	3/4	48,710	3/4	63,375	3/4	78,274	3/4	93,257	3/4	108,238	3/4	123,205	3/4	138,172
3	4,384	3	19,383	3	34,374	3	49,012	3	63,686	3	78,586	3	93,569	3	108,550	3	123,517	3	138,483
1/4	4,696	1/4	19,696	1/4	34,685	1/4	49,315	1/4	63,997	1/4	78,898	1/4	93,881	1/4	108,862	1/4	123,829	1/4	138,795
1/2	5,009	1/2	20,008	1/2	34,997	1/2	49,617	1/2	64,307	1/2	79,210	1/2	94,193	1/2	109,174	1/2	124,141	1/2	139,107
3/4	5,321	3/4	20,320	3/4	35,309	3/4	49,920	3/4	64,617	3/4	79,522	3/4	94,505	3/4	109,486	3/4	124,452	3/4	139,419
4	5,634	4	20,633	4	35,621	4	50,222	4	64,928	4	79,835	4	94,817	4	109,798	4	124,764	4	139,731
1/4	5,946	1/4	20,945	1/4	35,929	1/4	50,525	1/4	65,238	1/4	80,147	1/4	95,129	1/4	110,110	1/4	125,076	1/4	140,042
1/2	6,259	1/2	21,257	1/2	36,237	1/2	50,827	1/2	65,548	1/2	80,459	1/2	95,441	1/2	110,421	1/2	125,388	1/2	140,354
3/4	6,572	3/4	21,570	3/4	36,545	3/4	51,130	3/4	65,859	3/4	80,771	3/4	95,753	3/4	110,733	3/4	125,700	3/4	140,666
5	6,884	5	21,882	5	36,854	5	51,432	5	66,169	5	81,084	5	96,065	5	111,045	5	126,011	5	140,978
1/4	7,197	1/4	22,194	1/4	37,159	1/4	51,735	1/4	66,479	1/4	81,396	1/4	96,377	1/4	111,357	1/4	126,323	1/4	141,289
1/2	7,509	1/2	22,507	1/2	37,464	1/2	52,037	1/2	66,790	1/2	81,708	1/2	96,689	1/2	111,669	1/2	126,635	1/2	141,601
3/4	7,822	3/4	22,819	3/4	37,769	3/4	52,340	3/4	67,100	3/4	82,021	3/4	97,001	3/4	111,980	3/4	126,947	3/4	141,912
6	8,134	6	23,131	6	38,074	6	52,642	6	67,410	6	82,333	6	97,313	6	112,292	6	127,259	6	142,224
1/4	8,447	1/4	23,444	1/4	38,379	1/4	52,945	1/4	67,721	1/4	82,645	1/4	97,625	1/4	112,604	1/4	127,570	1/4	142,531
1/2	8,760	1/2	23,756	1/2	38,684	1/2	53,247	1/2	68,031	1/2	82,957	1/2	97,937	1/2	112,916	1/2	127,882	1/2	142,838
3/4	9,072	3/4	24,068	3/4	38,989	3/4	53,550	3/4	68,341	3/4	83,270	3/4	98,249	3/4	113,228	3/4	128,194	3/4	143,145
7	9,385	7	24,381	7	39,294	7	53,852	7	68,651	7	83,582	7	98,561	7	113,539	7	128,506	7	143,452
1/4	9,698	1/4	24,693	1/4	39,599	1/4	54,155	1/4	68,962	1/4	83,894	1/4	98,873	1/4	113,851	1/4	128,818	1/4	143,746
1/2	10,011	1/2	25,005	1/2	39,904	1/2	54,457	1/2	69,272	1/2	84,207	1/2	99,186	1/2	114,163	1/2	129,129	1/2	144,041
3/4	10,324	3/4	25,318	3/4	40,209	3/4	54,759	3/4	69,582	3/4	84,519	3/4	99,498	3/4	114,475	3/4	129,441	3/4	144,336
8	10,637	8	25,630	8	40,514	8	55,062	8	69,893	8	84,831	8	99,810	8	114,787	8	129,753	8	144,631
1/4	10,949	1/4	25,942	1/4	40,819	1/4	55,364	1/4	70,203	1/4	85,143	1/4	100,122	1/4	115,098	1/4	130,065	1/4	144,909
1/2	11,262	1/2	26,255	1/2	41,124	1/2	55,667	1/2	70,513	1/2	85,456	1/2	100,435	1/2	115,410	1/2	130,377	1/2	145,188
3/4	11,574	3/4	26,567	3/4	41,429	3/4	55,969	3/4	70,824	3/4	85,768	3/4	100,747	3/4	115,722	3/4	130,688	3/4	145,466
9	11,887	9	26,879	9	41,734	9	56,272	9	71,134	9	86,080	9	101,059	9	116,034	9	131,000	9	145,745
1/4	12,199	1/4	27,191	1/4	42,039	1/4	56,576	1/4	71,444	1/4	86,393	1/4	101,371	1/4	116,346	1/4	131,312	1/4	146,008
1/2	12,512	1/2	27,503	1/2	42,344	1/2	56,880	1/2	71,755	1/2	86,705	1/2	101,683	1/2	116,657	1/2	131,624	1/2	146,271
3/4	12,824	3/4	27,816	3/4	42,649	3/4	57,184	3/4	72,065	3/4	87,017	3/4	101,996	3/4	116,969	3/4	131,936	3/4	146,534
10	13,136	10	28,128	10	42,954	10	57,488	10	72,375	10	87,329	10	102,308	10	117,281	10	132,247	10	146,797
1/4	13,449	1/4	28,440	1/4	43,259	1/4	57,794	1/4	72,686	1/4	87,641	1/4	102,620	1/4	117,593	1/4	132,559	1/4	147,044
1/2	13,761	1/2	28,752	1/2	43,564	1/2	58,099	1/2	72,996	1/2	87,954	1/2	102,932	1/2	117,905	1/2	132,871	1/2	147,291
3/4	14,073	3/4	29,064	3/4	43,869	3/4	58,405	3/4	73,306	3/4	88,266	3/4	103,244	3/4	118,216	3/4	133,183	3/4	147,539
11	14,386	11	29,376	11	44,174	11	58,711	11	73,617	11	88,578	11	103,557	11	118,528	11	133,495	11	147,786
1/4	14,698	1/4	29,689	1/4	44,477	1/4	59,020	1/4	73,927	1/4	88,890	1/4	103,869	1/4	118,840	1/4	133,806	1/4	148,017
1/2	15,010	1/2	30,001	1/2	44,781	1/2	59,328	1/2	74,237	1/2	89,202	1/2	104,181	1/2	119,152	1/2	134,118	1/2	148,248
3/4	15,323	3/4	30,313	3/4	45,084	3/4	59,637	3/4	74,547	3/4	89,514	3/4	104,493	3/4	119,464	3/4	134,430	3/4	148,479

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 3040"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,710	0	159,093	0	169,455	0	179,787	0	190,105	0		0		0		0		0	
1/4	148,930	1/4	159,309	1/4	169,670	1/4	180,003	1/4	190,298	1/4		1/4		1/4		1/4		1/4	
1/2	149,149	1/2	159,525	1/2	169,885	1/2	180,218	1/2	190,492	1/2		1/2		1/2		1/2		1/2	
3/4	149,369	3/4	159,741	3/4	170,101	3/4	180,433	3/4	190,685	3/4		3/4		3/4		3/4		3/4	
1	149,588	1	159,957	1	170,316	1	180,648	1	190,878	1		1		1		1		1	
1/4	149,804	1/4	160,173	1/4	170,531	1/4	180,864	1/4	191,037	1/4		1/4		1/4		1/4		1/4	
1/2	150,020	1/2	160,389	1/2	170,746	1/2	181,079	1/2	191,197	1/2		1/2		1/2		1/2		1/2	
3/4	150,236	3/4	160,605	3/4	170,962	3/4	181,294	3/4	191,357	3/4		3/4		3/4		3/4		3/4	
2	150,452	2	160,822	2	171,177	2	181,509	2	191,516	2		2		2		2		2	
1/4	150,668	1/4	161,038	1/4	171,392	1/4	181,725	1/4	191,640	1/4		1/4		1/4		1/4		1/4	
1/2	150,885	1/2	161,254	1/2	171,607	1/2	181,940	1/2	191,764	1/2		1/2		1/2		1/2		1/2	
3/4	151,101	3/4	161,470	3/4	171,823	3/4	182,155	3/4	191,887	3/4		3/4		3/4		3/4		3/4	
3	151,317	3	161,686	3	172,038	3	182,370	3	192,011	3		3		3		3		3	
1/4	151,533	1/4	161,902	1/4	172,253	1/4	182,586	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,749	1/2	162,118	1/2	172,468	1/2	182,801	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,965	3/4	162,334	3/4	172,684	3/4	183,016	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,181	4	162,550	4	172,899	4	183,232	4		4		4		4		4		4	
1/4	152,397	1/4	162,766	1/4	173,114	1/4	183,447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,613	1/2	162,982	1/2	173,330	1/2	183,662	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,829	3/4	163,198	3/4	173,545	3/4	183,877	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,045	5	163,414	5	173,760	5	184,093	5		5		5		5		5		5	
1/4	153,261	1/4	163,630	1/4	173,975	1/4	184,308	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,477	1/2	163,846	1/2	174,191	1/2	184,523	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,693	3/4	164,062	3/4	174,406	3/4	184,738	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,909	6	164,278	6	174,621	6	184,954	6		6		6		6		6		6	
1/4	154,125	1/4	164,494	1/4	174,836	1/4	185,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,341	1/2	164,710	1/2	175,052	1/2	185,384	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,557	3/4	164,926	3/4	175,267	3/4	185,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,773	7	165,142	7	175,482	7	185,815	7		7		7		7		7		7	
1/4	154,989	1/4	165,358	1/4	175,697	1/4	186,030	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,205	1/2	165,574	1/2	175,913	1/2	186,245	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,421	3/4	165,790	3/4	176,128	3/4	186,461	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,637	8	166,006	8	176,343	8	186,676	8		8		8		8		8		8	
1/4	155,853	1/4	166,222	1/4	176,558	1/4	186,891	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,069	1/2	166,438	1/2	176,774	1/2	187,107	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,285	3/4	166,654	3/4	176,989	3/4	187,322	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,501	9	166,870	9	177,204	9	187,537	9		9		9		9		9		9	
1/4	156,717	1/4	167,086	1/4	177,419	1/4	187,753	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,933	1/2	167,301	1/2	177,635	1/2	187,968	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,149	3/4	167,517	3/4	177,850	3/4	188,183	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,365	10	167,733	10	178,065	10	188,399	10		10		10		10		10		10	
1/4	157,581	1/4	167,948	1/4	178,281	1/4	188,614	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,797	1/2	168,163	1/2	178,496	1/2	188,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,013	3/4	168,378	3/4	178,711	3/4	189,044	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,229	11	168,594	11	178,926	11	189,259	11		11		11		11		11		11	
1/4	158,445	1/4	168,809	1/4	179,142	1/4	189,470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,661	1/2	169,024	1/2	179,357	1/2	189,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,877	3/4	169,240	3/4	179,572	3/4	189,894	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3040"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,028	0	15,638	0	30,646	0	45,639	0	60,647	0	75,656	0	90,666	0	105,675	0	120,668	0	135,657
1/4	1,262	1/4	15,950	1/4	30,959	1/4	45,952	1/4	60,960	1/4	75,969	1/4	90,979	1/4	105,988	1/4	120,980	1/4	135,970
1/2	1,497	1/2	16,263	1/2	31,272	1/2	46,264	1/2	61,272	1/2	76,282	1/2	91,291	1/2	106,301	1/2	121,292	1/2	136,282
3/4	1,731	3/4	16,576	3/4	31,585	3/4	46,577	3/4	61,585	3/4	76,595	3/4	91,604	3/4	106,613	3/4	121,605	3/4	136,594
1	1,966	1	16,888	1	31,897	1	46,889	1	61,898	1	76,907	1	91,917	1	106,926	1	121,917	1	136,906
1/4	2,258	1/4	17,201	1/4	32,210	1/4	47,202	1/4	62,211	1/4	77,220	1/4	92,229	1/4	107,238	1/4	122,229	1/4	137,219
1/2	2,550	1/2	17,514	1/2	32,523	1/2	47,514	1/2	62,523	1/2	77,533	1/2	92,542	1/2	107,551	1/2	122,542	1/2	137,531
3/4	2,843	3/4	17,826	3/4	32,835	3/4	47,827	3/4	62,836	3/4	77,845	3/4	92,855	3/4	107,864	3/4	122,854	3/4	137,843
2	3,135	2	18,139	2	33,148	2	48,139	2	63,149	2	78,158	2	93,167	2	108,176	2	123,166	2	138,155
1/4	3,447	1/4	18,452	1/4	33,461	1/4	48,452	1/4	63,461	1/4	78,471	1/4	93,480	1/4	108,489	1/4	123,478	1/4	138,468
1/2	3,759	1/2	18,764	1/2	33,773	1/2	48,765	1/2	63,774	1/2	78,783	1/2	93,793	1/2	108,801	1/2	123,791	1/2	138,780
3/4	4,070	3/4	19,077	3/4	34,086	3/4	49,077	3/4	64,087	3/4	79,096	3/4	94,105	3/4	109,113	3/4	124,103	3/4	139,092
3	4,382	3	19,390	3	34,399	3	49,390	3	64,399	3	79,409	3	94,418	3	109,426	3	124,415	3	139,405
1/4	4,694	1/4	19,702	1/4	34,711	1/4	49,703	1/4	64,712	1/4	79,721	1/4	94,731	1/4	109,738	1/4	124,728	1/4	139,717
1/2	5,007	1/2	20,015	1/2	35,024	1/2	50,015	1/2	65,025	1/2	80,034	1/2	95,044	1/2	110,050	1/2	125,040	1/2	140,029
3/4	5,319	3/4	20,328	3/4	35,336	3/4	50,328	3/4	65,338	3/4	80,347	3/4	95,356	3/4	110,363	3/4	125,352	3/4	140,341
4	5,632	4	20,641	4	35,648	4	50,641	4	65,650	4	80,660	4	95,669	4	110,675	4	125,664	4	140,654
1/4	5,944	1/4	20,953	1/4	35,961	1/4	50,954	1/4	65,963	1/4	80,972	1/4	95,982	1/4	110,987	1/4	125,977	1/4	140,966
1/2	6,257	1/2	21,266	1/2	36,273	1/2	51,266	1/2	66,276	1/2	81,285	1/2	96,294	1/2	111,300	1/2	126,289	1/2	141,278
3/4	6,570	3/4	21,579	3/4	36,585	3/4	51,579	3/4	66,588	3/4	81,598	3/4	96,607	3/4	111,612	3/4	126,601	3/4	141,590
5	6,882	5	21,891	5	36,897	5	51,892	5	66,901	5	81,910	5	96,920	5	111,924	5	126,913	5	141,903
1/4	7,195	1/4	22,204	1/4	37,209	1/4	52,204	1/4	67,214	1/4	82,223	1/4	97,232	1/4	112,236	1/4	127,226	1/4	142,215
1/2	7,508	1/2	22,517	1/2	37,522	1/2	52,517	1/2	67,526	1/2	82,536	1/2	97,545	1/2	112,549	1/2	127,538	1/2	142,527
3/4	7,820	3/4	22,829	3/4	37,834	3/4	52,830	3/4	67,839	3/4	82,848	3/4	97,858	3/4	112,861	3/4	127,850	3/4	142,839
6	8,133	6	23,142	6	38,146	6	53,142	6	68,152	6	83,161	6	98,170	6	113,173	6	128,163	6	143,151
1/4	8,446	1/4	23,455	1/4	38,458	1/4	53,455	1/4	68,464	1/4	83,474	1/4	98,483	1/4	113,486	1/4	128,475	1/4	143,458
1/2	8,758	1/2	23,767	1/2	38,770	1/2	53,768	1/2	68,777	1/2	83,787	1/2	98,796	1/2	113,798	1/2	128,787	1/2	143,766
3/4	9,071	3/4	24,080	3/4	39,083	3/4	54,080	3/4	69,090	3/4	84,099	3/4	99,109	3/4	114,110	3/4	129,099	3/4	144,073
7	9,384	7	24,393	7	39,395	7	54,393	7	69,403	7	84,412	7	99,421	7	114,422	7	129,412	7	144,381
1/4	9,697	1/4	24,705	1/4	39,707	1/4	54,706	1/4	69,715	1/4	84,725	1/4	99,734	1/4	114,735	1/4	129,724	1/4	144,676
1/2	10,009	1/2	25,018	1/2	40,019	1/2	55,019	1/2	70,028	1/2	85,037	1/2	100,047	1/2	115,047	1/2	130,036	1/2	144,971
3/4	10,322	3/4	25,331	3/4	40,331	3/4	55,331	3/4	70,341	3/4	85,350	3/4	100,359	3/4	115,359	3/4	130,349	3/4	145,266
8	10,635	8	25,644	8	40,644	8	55,644	8	70,653	8	85,663	8	100,672	8	115,671	8	130,661	8	145,561
1/4	10,947	1/4	25,956	1/4	40,956	1/4	55,957	1/4	70,966	1/4	85,975	1/4	100,985	1/4	115,984	1/4	130,973	1/4	145,841
1/2	11,260	1/2	26,269	1/2	41,268	1/2	56,269	1/2	71,279	1/2	86,288	1/2	101,297	1/2	116,296	1/2	131,285	1/2	146,120
3/4	11,573	3/4	26,582	3/4	41,580	3/4	56,582	3/4	71,591	3/4	86,601	3/4	101,610	3/4	116,608	3/4	131,598	3/4	146,399
9	11,885	9	26,894	9	41,892	9	56,895	9	71,904	9	86,913	9	101,923	9	116,921	9	131,910	9	146,678
1/4	12,198	1/4	27,207	1/4	42,205	1/4	57,207	1/4	72,217	1/4	87,226	1/4	102,236	1/4	117,233	1/4	132,222	1/4	146,941
1/2	12,511	1/2	27,520	1/2	42,517	1/2	57,520	1/2	72,529	1/2	87,539	1/2	102,548	1/2	117,545	1/2	132,534	1/2	147,204
3/4	12,823	3/4	27,832	3/4	42,829	3/4	57,833	3/4	72,842	3/4	87,852	3/4	102,861	3/4	117,857	3/4	132,847	3/4	147,467
10	13,136	10	28,145	10	43,141	10	58,146	10	73,155	10	88,164	10	103,174	10	118,170	10	133,159	10	147,730
1/4	13,449	1/4	28,458	1/4	43,453	1/4	58,458	1/4	73,468	1/4	88,477	1/4	103,486	1/4	118,482	1/4	133,471	1/4	147,977
1/2	13,761	1/2	28,770	1/2	43,766	1/2	58,771	1/2	73,780	1/2	88,790	1/2	103,799	1/2	118,794	1/2	133,784	1/2	148,225
3/4	14,074	3/4	29,083	3/4	44,078	3/4	59,084	3/4	74,093	3/4	89,102	3/4	104,112	3/4	119,107	3/4	134,096	3/4	148,472
11	14,387	11	29,396	11	44,390	11	59,396	11	74,406	11	89,415	11	104,424	11	119,419	11	134,408	11	148,719
1/4	14,700	1/4	29,708	1/4	44,702	1/4	59,709	1/4	74,718	1/4	89,728	1/4	104,737	1/4	119,731	1/4	134,720	1/4	148,950
1/2	15,012	1/2	30,021	1/2	45,015	1/2	60,022	1/2	75,031	1/2	90,040	1/2	105,050	1/2	120,043	1/2	135,033	1/2	149,181
3/4	15,325	3/4	30,334	3/4	45,327	3/4	60,334	3/4	75,344	3/4	90,353	3/4	105,362	3/4	120,356	3/4	135,345	3/4	149,412

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 3040"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,643	0	160,020	0	170,374	0	180,700	0	191,011	0		0		0		0		0	
1/4	149,863	1/4	160,235	1/4	170,589	1/4	180,915	1/4	191,204	1/4		1/4		1/4		1/4		1/4	
1/2	150,082	1/2	160,451	1/2	170,804	1/2	181,130	1/2	191,397	1/2		1/2		1/2		1/2		1/2	
3/4	150,301	3/4	160,667	3/4	171,019	3/4	181,345	3/4	191,590	3/4		3/4		3/4		3/4		3/4	
1	150,521	1	160,883	1	171,235	1	181,560	1	191,783	1		1		1		1		1	
1/4	150,737	1/4	161,099	1/4	171,450	1/4	181,775	1/4	191,942	1/4		1/4		1/4		1/4		1/4	
1/2	150,953	1/2	161,315	1/2	171,665	1/2	181,991	1/2	192,102	1/2		1/2		1/2		1/2		1/2	
3/4	151,168	3/4	161,531	3/4	171,880	3/4	182,206	3/4	192,262	3/4		3/4		3/4		3/4		3/4	
2	151,384	2	161,747	2	172,095	2	182,421	2	192,421	2		2		2		2		2	
1/4	151,600	1/4	161,962	1/4	172,310	1/4	182,636	1/4	192,545	1/4		1/4		1/4		1/4		1/4	
1/2	151,816	1/2	162,178	1/2	172,525	1/2	182,851	1/2	192,668	1/2		1/2		1/2		1/2		1/2	
3/4	152,032	3/4	162,394	3/4	172,740	3/4	183,066	3/4	192,792	3/4		3/4		3/4		3/4		3/4	
3	152,248	3	162,610	3	172,956	3	183,281	3	192,915	3		3		3		3		3	
1/4	152,464	1/4	162,826	1/4	173,171	1/4	183,496	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,680	1/2	163,042	1/2	173,386	1/2	183,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,896	3/4	163,258	3/4	173,601	3/4	183,927	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,111	4	163,474	4	173,816	4	184,142	4		4		4		4		4		4	
1/4	153,327	1/4	163,689	1/4	174,031	1/4	184,357	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,543	1/2	163,905	1/2	174,246	1/2	184,572	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,759	3/4	164,121	3/4	174,461	3/4	184,787	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,975	5	164,337	5	174,677	5	185,002	5		5		5		5		5		5	
1/4	154,191	1/4	164,553	1/4	174,892	1/4	185,217	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,407	1/2	164,769	1/2	175,107	1/2	185,432	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,623	3/4	164,985	3/4	175,322	3/4	185,648	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,838	6	165,201	6	175,537	6	185,863	6		6		6		6		6		6	
1/4	155,054	1/4	165,416	1/4	175,752	1/4	186,078	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,270	1/2	165,632	1/2	175,967	1/2	186,293	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,486	3/4	165,848	3/4	176,182	3/4	186,508	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,702	7	166,064	7	176,397	7	186,723	7		7		7		7		7		7	
1/4	155,918	1/4	166,280	1/4	176,613	1/4	186,938	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,134	1/2	166,496	1/2	176,828	1/2	187,154	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,350	3/4	166,712	3/4	177,043	3/4	187,369	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,565	8	166,928	8	177,258	8	187,584	8		8		8		8		8		8	
1/4	156,781	1/4	167,144	1/4	177,473	1/4	187,799	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,997	1/2	167,359	1/2	177,688	1/2	188,014	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,213	3/4	167,575	3/4	177,903	3/4	188,230	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,429	9	167,791	9	178,118	9	188,445	9		9		9		9		9		9	
1/4	157,645	1/4	168,007	1/4	178,334	1/4	188,660	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,861	1/2	168,222	1/2	178,549	1/2	188,875	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,077	3/4	168,438	3/4	178,764	3/4	189,090	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,292	10	168,653	10	178,979	10	189,305	10		10		10		10		10		10	
1/4	158,508	1/4	168,868	1/4	179,194	1/4	189,520	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,724	1/2	169,083	1/2	179,409	1/2	189,735	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,940	3/4	169,299	3/4	179,624	3/4	189,950	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,156	11	169,514	11	179,839	11	190,165	11		11		11		11		11		11	
1/4	159,372	1/4	169,729	1/4	180,054	1/4	190,376	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,588	1/2	169,944	1/2	180,270	1/2	190,588	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,804	3/4	170,159	3/4	180,485	3/4	190,800	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HSM 3040"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 5'-07"

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: 02/18/2020 CL
CALCULATED: 02/18/2020 CL
PRINTED: 02/19/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2020

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



BARGE "HSM 3040"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-07"

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

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



BARGE "HSM 3040"

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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