



BARGE "HSM 3006"

INNAGE TRIM TABLE

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

December 14, 2016

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

<http://www.pmacorp.net>



BARGE "HSM 3006"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,236	0	28,146	0	43,151	0	58,095	0	73,058	0	88,064	0	103,070	0	118,071	0	133,070
1/4	562	1/4	13,537	1/4	28,458	1/4	43,464	1/4	58,405	1/4	73,371	1/4	88,377	1/4	103,382	1/4	118,384	1/4	133,383
1/2	738	1/2	13,838	1/2	28,771	1/2	43,776	1/2	58,715	1/2	73,683	1/2	88,689	1/2	103,695	1/2	118,696	1/2	133,695
3/4	915	3/4	14,140	3/4	29,083	3/4	44,089	3/4	59,026	3/4	73,996	3/4	89,002	3/4	104,008	3/4	119,009	3/4	134,008
1	1,092	1	14,441	1	29,396	1	44,401	1	59,336	1	74,309	1	89,314	1	104,320	1	119,321	1	134,320
1/4	1,330	1/4	14,746	1/4	29,709	1/4	44,714	1/4	59,646	1/4	74,621	1/4	89,627	1/4	104,633	1/4	119,634	1/4	134,633
1/2	1,568	1/2	15,050	1/2	30,021	1/2	45,027	1/2	59,956	1/2	74,934	1/2	89,940	1/2	104,946	1/2	119,946	1/2	134,945
3/4	1,807	3/4	15,355	3/4	30,334	3/4	45,339	3/4	60,267	3/4	75,246	3/4	90,252	3/4	105,258	3/4	120,258	3/4	135,258
2	2,045	2	15,660	2	30,646	2	45,652	2	60,577	2	75,559	2	90,565	2	105,571	2	120,571	2	135,570
1/4	2,307	1/4	15,969	1/4	30,959	1/4	45,964	1/4	60,887	1/4	75,872	1/4	90,878	1/4	105,883	1/4	120,883	1/4	135,883
1/2	2,568	1/2	16,278	1/2	31,272	1/2	46,277	1/2	61,198	1/2	76,184	1/2	91,190	1/2	106,196	1/2	121,196	1/2	136,195
3/4	2,830	3/4	16,587	3/4	31,584	3/4	46,590	3/4	61,508	3/4	76,497	3/4	91,503	3/4	106,509	3/4	121,508	3/4	136,508
3	3,092	3	16,895	3	31,897	3	46,902	3	61,818	3	76,810	3	91,815	3	106,821	3	121,821	3	136,820
1/4	3,358	1/4	17,207	1/4	32,210	1/4	47,215	1/4	62,129	1/4	77,122	1/4	92,128	1/4	107,134	1/4	122,133	1/4	137,133
1/2	3,624	1/2	17,519	1/2	32,522	1/2	47,528	1/2	62,439	1/2	77,435	1/2	92,441	1/2	107,446	1/2	122,446	1/2	137,445
3/4	3,890	3/4	17,830	3/4	32,835	3/4	47,840	3/4	62,749	3/4	77,747	3/4	92,753	3/4	107,759	3/4	122,758	3/4	137,758
4	4,156	4	18,142	4	33,147	4	48,153	4	63,060	4	78,060	4	93,066	4	108,071	4	123,071	4	138,070
1/4	4,427	1/4	18,455	1/4	33,460	1/4	48,465	1/4	63,371	1/4	78,373	1/4	93,378	1/4	108,384	1/4	123,383	1/4	138,383
1/2	4,697	1/2	18,767	1/2	33,773	1/2	48,777	1/2	63,683	1/2	78,685	1/2	93,691	1/2	108,696	1/2	123,696	1/2	138,695
3/4	4,967	3/4	19,080	3/4	34,085	3/4	49,088	3/4	63,994	3/4	78,998	3/4	94,004	3/4	109,009	3/4	124,008	3/4	139,008
5	5,237	5	19,392	5	34,398	5	49,400	5	64,305	5	79,310	5	94,316	5	109,321	5	124,321	5	139,320
1/4	5,512	1/4	19,705	1/4	34,710	1/4	49,712	1/4	64,618	1/4	79,623	1/4	94,629	1/4	109,634	1/4	124,633	1/4	139,633
1/2	5,786	1/2	20,018	1/2	35,023	1/2	50,023	1/2	64,930	1/2	79,936	1/2	94,942	1/2	109,946	1/2	124,946	1/2	139,945
3/4	6,060	3/4	20,330	3/4	35,336	3/4	50,334	3/4	65,243	3/4	80,248	3/4	95,254	3/4	110,259	3/4	125,258	3/4	140,258
6	6,334	6	20,643	6	35,648	6	50,645	6	65,555	6	80,561	6	95,567	6	110,571	6	125,571	6	140,570
1/4	6,612	1/4	20,955	1/4	35,961	1/4	50,956	1/4	65,868	1/4	80,874	1/4	95,879	1/4	110,884	1/4	125,883	1/4	140,883
1/2	6,890	1/2	21,268	1/2	36,273	1/2	51,267	1/2	66,180	1/2	81,186	1/2	96,192	1/2	111,196	1/2	126,196	1/2	141,195
3/4	7,168	3/4	21,581	3/4	36,586	3/4	51,578	3/4	66,493	3/4	81,499	3/4	96,505	3/4	111,509	3/4	126,508	3/4	141,508
7	7,446	7	21,893	7	36,899	7	51,889	7	66,806	7	81,811	7	96,817	7	111,821	7	126,821	7	141,820
1/4	7,728	1/4	22,206	1/4	37,211	1/4	52,199	1/4	67,118	1/4	82,124	1/4	97,130	1/4	112,134	1/4	127,133	1/4	142,133
1/2	8,010	1/2	22,519	1/2	37,524	1/2	52,510	1/2	67,431	1/2	82,437	1/2	97,443	1/2	112,446	1/2	127,446	1/2	142,445
3/4	8,291	3/4	22,831	3/4	37,837	3/4	52,820	3/4	67,743	3/4	82,749	3/4	97,755	3/4	112,759	3/4	127,758	3/4	142,758
8	8,573	8	23,144	8	38,149	8	53,131	8	68,056	8	83,062	8	98,068	8	113,071	8	128,071	8	143,070
1/4	8,859	1/4	23,456	1/4	38,462	1/4	53,441	1/4	68,369	1/4	83,375	1/4	98,380	1/4	113,384	1/4	128,383	1/4	143,383
1/2	9,145	1/2	23,769	1/2	38,774	1/2	53,751	1/2	68,681	1/2	83,687	1/2	98,693	1/2	113,696	1/2	128,696	1/2	143,695
3/4	9,430	3/4	24,082	3/4	39,087	3/4	54,062	3/4	68,994	3/4	84,000	3/4	99,006	3/4	114,009	3/4	129,008	3/4	144,008
9	9,716	9	24,394	9	39,400	9	54,372	9	69,307	9	84,312	9	99,318	9	114,321	9	129,321	9	144,320
1/4	10,005	1/4	24,707	1/4	39,712	1/4	54,682	1/4	69,619	1/4	84,625	1/4	99,631	1/4	114,634	1/4	129,633	1/4	144,632
1/2	10,295	1/2	25,019	1/2	40,025	1/2	54,992	1/2	69,932	1/2	84,938	1/2	99,944	1/2	114,946	1/2	129,946	1/2	144,945
3/4	10,584	3/4	25,332	3/4	40,337	3/4	55,303	3/4	70,244	3/4	85,250	3/4	100,256	3/4	115,259	3/4	130,258	3/4	145,257
10	10,874	10	25,645	10	40,650	10	55,613	10	70,557	10	85,563	10	100,569	10	115,571	10	130,571	10	145,570
1/4	11,167	1/4	25,957	1/4	40,963	1/4	55,923	1/4	70,870	1/4	85,876	1/4	100,881	1/4	115,884	1/4	130,883	1/4	145,882
1/2	11,461	1/2	26,270	1/2	41,275	1/2	56,233	1/2	71,182	1/2	86,188	1/2	101,194	1/2	116,196	1/2	131,196	1/2	146,195
3/4	11,754	3/4	26,582	3/4	41,588	3/4	56,544	3/4	71,495	3/4	86,501	3/4	101,507	3/4	116,509	3/4	131,508	3/4	146,507
11	12,047	11	26,895	11	41,901	11	56,854	11	71,808	11	86,813	11	101,819	11	116,821	11	131,821	11	146,820
1/4	12,345	1/4	27,208	1/4	42,213	1/4	57,164	1/4	72,120	1/4	87,126	1/4	102,132	1/4	117,134	1/4	132,133	1/4	147,132
1/2	12,642	1/2	27,520	1/2	42,526	1/2	57,474	1/2	72,433	1/2	87,439	1/2	102,445	1/2	117,446	1/2	132,445	1/2	147,445
3/4	12,939	3/4	27,833	3/4	42,838	3/4	57,785	3/4	72,745	3/4	87,751	3/4	102,757	3/4	117,759	3/4	132,758	3/4	147,757

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 OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HSM 3006"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,070	0	163,069	0	178,059	0	193,015	0	207,898	0		0		0		0		0	
1/4	148,382	1/4	163,382	1/4	178,371	1/4	193,327	1/4	208,178	1/4		1/4		1/4		1/4		1/4	
1/2	148,695	1/2	163,694	1/2	178,683	1/2	193,638	1/2	208,458	1/2		1/2		1/2		1/2		1/2	
3/4	149,007	3/4	164,007	3/4	178,994	3/4	193,950	3/4	208,738	3/4		3/4		3/4		3/4		3/4	
1	149,320	1	164,319	1	179,306	1	194,261	1	209,017	1		1		1		1		1	
1/4	149,632	1/4	164,632	1/4	179,617	1/4	194,573	1/4	209,249	1/4		1/4		1/4		1/4		1/4	
1/2	149,945	1/2	164,944	1/2	179,929	1/2	194,885	1/2	209,480	1/2		1/2		1/2		1/2		1/2	
3/4	150,257	3/4	165,257	3/4	180,241	3/4	195,196	3/4	209,712	3/4		3/4		3/4		3/4		3/4	
2	150,570	2	165,569	2	180,552	2	195,508	2	209,943	2		2		2		2		2	
1/4	150,882	1/4	165,882	1/4	180,864	1/4	195,819	1/4	210,122	1/4		1/4		1/4		1/4		1/4	
1/2	151,195	1/2	166,194	1/2	181,175	1/2	196,131	1/2	210,302	1/2		1/2		1/2		1/2		1/2	
3/4	151,507	3/4	166,507	3/4	181,487	3/4	196,442	3/4	210,481	3/4		3/4		3/4		3/4		3/4	
3	151,820	3	166,819	3	181,798	3	196,754	3	210,660	3		3		3		3		3	
1/4	152,132	1/4	167,132	1/4	182,110	1/4	197,066	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,445	1/2	167,444	1/2	182,422	1/2	197,377	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,757	3/4	167,757	3/4	182,733	3/4	197,689	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,070	4	168,069	4	183,045	4	198,000	4		4		4		4		4		4	
1/4	153,382	1/4	168,382	1/4	183,356	1/4	198,312	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,695	1/2	168,694	1/2	183,668	1/2	198,623	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,007	3/4	169,006	3/4	183,979	3/4	198,935	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,320	5	169,319	5	184,291	5	199,247	5		5		5		5		5		5	
1/4	154,632	1/4	169,631	1/4	184,603	1/4	199,557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,945	1/2	169,944	1/2	184,914	1/2	199,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,257	3/4	170,256	3/4	185,226	3/4	200,178	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,570	6	170,569	6	185,537	6	200,489	6		6		6		6		6		6	
1/4	155,882	1/4	170,881	1/4	185,849	1/4	200,798	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,195	1/2	171,194	1/2	186,160	1/2	201,108	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,507	3/4	171,506	3/4	186,472	3/4	201,417	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,819	7	171,819	7	186,784	7	201,726	7		7		7		7		7		7	
1/4	157,132	1/4	172,131	1/4	187,095	1/4	202,036	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,444	1/2	172,444	1/2	187,407	1/2	202,345	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,757	3/4	172,756	3/4	187,718	3/4	202,655	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,069	8	173,069	8	188,030	8	202,964	8		8		8		8		8		8	
1/4	158,382	1/4	173,381	1/4	188,341	1/4	203,274	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,694	1/2	173,694	1/2	188,653	1/2	203,584	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,007	3/4	174,006	3/4	188,965	3/4	203,893	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,319	9	174,319	9	189,276	9	204,203	9		9		9		9		9		9	
1/4	159,632	1/4	174,631	1/4	189,588	1/4	204,512	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,944	1/2	174,943	1/2	189,899	1/2	204,822	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,257	3/4	175,255	3/4	190,211	3/4	205,131	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,569	10	175,567	10	190,523	10	205,441	10		10		10		10		10		10	
1/4	160,882	1/4	175,878	1/4	190,834	1/4	205,750	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,194	1/2	176,190	1/2	191,146	1/2	206,059	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,507	3/4	176,502	3/4	191,457	3/4	206,368	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,819	11	176,813	11	191,769	11	206,677	11		11		11		11		11		11	
1/4	162,132	1/4	177,125	1/4	192,080	1/4	206,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,444	1/2	177,436	1/2	192,392	1/2	207,288	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,757	3/4	177,748	3/4	192,704	3/4	207,593	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

PRECISION MEASUREMENT
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BARGE "HSM 3006"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,233	0	28,138	0	43,140	0	58,137	0	73,136	0	88,138	0	103,140	0	118,137	0	133,133
1/4	561	1/4	13,534	1/4	28,451	1/4	43,452	1/4	58,449	1/4	73,449	1/4	88,450	1/4	103,452	1/4	118,450	1/4	133,445
1/2	738	1/2	13,835	1/2	28,763	1/2	43,765	1/2	58,761	1/2	73,761	1/2	88,763	1/2	103,765	1/2	118,762	1/2	133,757
3/4	915	3/4	14,136	3/4	29,076	3/4	44,077	3/4	59,074	3/4	74,074	3/4	89,076	3/4	104,077	3/4	119,074	3/4	134,070
1	1,091	1	14,437	1	29,388	1	44,390	1	59,386	1	74,386	1	89,388	1	104,390	1	119,387	1	134,382
1/4	1,330	1/4	14,742	1/4	29,701	1/4	44,702	1/4	59,698	1/4	74,699	1/4	89,701	1/4	104,703	1/4	119,699	1/4	134,695
1/2	1,568	1/2	15,047	1/2	30,013	1/2	45,015	1/2	60,011	1/2	75,011	1/2	90,013	1/2	105,015	1/2	120,012	1/2	135,007
3/4	1,807	3/4	15,351	3/4	30,326	3/4	45,327	3/4	60,323	3/4	75,324	3/4	90,326	3/4	105,328	3/4	120,324	3/4	135,319
2	2,045	2	15,656	2	30,638	2	45,640	2	60,635	2	75,636	2	90,638	2	105,640	2	120,636	2	135,632
1/4	2,306	1/4	15,965	1/4	30,951	1/4	45,952	1/4	60,948	1/4	75,949	1/4	90,951	1/4	105,953	1/4	120,949	1/4	135,944
1/2	2,568	1/2	16,274	1/2	31,264	1/2	46,265	1/2	61,260	1/2	76,261	1/2	91,263	1/2	106,265	1/2	121,261	1/2	136,257
3/4	2,829	3/4	16,582	3/4	31,576	3/4	46,578	3/4	61,572	3/4	76,574	3/4	91,576	3/4	106,578	3/4	121,574	3/4	136,569
3	3,091	3	16,891	3	31,889	3	46,890	3	61,885	3	76,886	3	91,888	3	106,890	3	121,886	3	136,881
1/4	3,357	1/4	17,203	1/4	32,201	1/4	47,203	1/4	62,197	1/4	77,199	1/4	92,201	1/4	107,203	1/4	122,198	1/4	137,194
1/2	3,623	1/2	17,514	1/2	32,514	1/2	47,515	1/2	62,510	1/2	77,512	1/2	92,513	1/2	107,515	1/2	122,511	1/2	137,506
3/4	3,889	3/4	17,826	3/4	32,826	3/4	47,828	3/4	62,822	3/4	77,824	3/4	92,826	3/4	107,828	3/4	122,823	3/4	137,819
4	4,155	4	18,137	4	33,139	4	48,140	4	63,135	4	78,137	4	93,139	4	108,140	4	123,136	4	138,131
1/4	4,426	1/4	18,450	1/4	33,451	1/4	48,453	1/4	63,447	1/4	78,449	1/4	93,451	1/4	108,453	1/4	123,448	1/4	138,443
1/2	4,696	1/2	18,762	1/2	33,764	1/2	48,765	1/2	63,760	1/2	78,762	1/2	93,764	1/2	108,765	1/2	123,760	1/2	138,756
3/4	4,966	3/4	19,075	3/4	34,076	3/4	49,078	3/4	64,072	3/4	79,074	3/4	94,076	3/4	109,077	3/4	124,073	3/4	139,068
5	5,236	5	19,387	5	34,389	5	49,390	5	64,385	5	79,387	5	94,389	5	109,390	5	124,385	5	139,381
1/4	5,510	1/4	19,700	1/4	34,701	1/4	49,703	1/4	64,697	1/4	79,699	1/4	94,701	1/4	109,702	1/4	124,698	1/4	139,693
1/2	5,784	1/2	20,012	1/2	35,014	1/2	50,015	1/2	65,010	1/2	80,012	1/2	95,014	1/2	110,015	1/2	125,010	1/2	140,006
3/4	6,058	3/4	20,325	3/4	35,326	3/4	50,328	3/4	65,322	3/4	80,324	3/4	95,326	3/4	110,327	3/4	125,322	3/4	140,318
6	6,332	6	20,638	6	35,639	6	50,640	6	65,635	6	80,637	6	95,639	6	110,639	6	125,635	6	140,630
1/4	6,610	1/4	20,950	1/4	35,952	1/4	50,953	1/4	65,948	1/4	80,949	1/4	95,951	1/4	110,952	1/4	125,947	1/4	140,943
1/2	6,888	1/2	21,263	1/2	36,264	1/2	51,265	1/2	66,260	1/2	81,262	1/2	96,264	1/2	111,264	1/2	126,260	1/2	141,255
3/4	7,166	3/4	21,575	3/4	36,577	3/4	51,578	3/4	66,573	3/4	81,575	3/4	96,576	3/4	111,577	3/4	126,572	3/4	141,568
7	7,444	7	21,888	7	36,889	7	51,890	7	66,885	7	81,887	7	96,889	7	111,889	7	126,884	7	141,880
1/4	7,726	1/4	22,200	1/4	37,202	1/4	52,203	1/4	67,198	1/4	82,200	1/4	97,202	1/4	112,201	1/4	127,197	1/4	142,192
1/2	8,008	1/2	22,513	1/2	37,514	1/2	52,515	1/2	67,510	1/2	82,512	1/2	97,514	1/2	112,514	1/2	127,509	1/2	142,505
3/4	8,289	3/4	22,825	3/4	37,827	3/4	52,827	3/4	67,823	3/4	82,825	3/4	97,827	3/4	112,826	3/4	127,822	3/4	142,817
8	8,571	8	23,138	8	38,139	8	53,140	8	68,135	8	83,137	8	98,139	8	113,139	8	128,134	8	143,130
1/4	8,857	1/4	23,450	1/4	38,452	1/4	53,452	1/4	68,448	1/4	83,450	1/4	98,452	1/4	113,451	1/4	128,446	1/4	143,442
1/2	9,142	1/2	23,763	1/2	38,764	1/2	53,764	1/2	68,760	1/2	83,762	1/2	98,764	1/2	113,763	1/2	128,759	1/2	143,754
3/4	9,428	3/4	24,075	3/4	39,077	3/4	54,077	3/4	69,073	3/4	84,075	3/4	99,077	3/4	114,076	3/4	129,071	3/4	144,067
9	9,713	9	24,388	9	39,389	9	54,389	9	69,385	9	84,387	9	99,389	9	114,388	9	129,384	9	144,379
1/4	10,003	1/4	24,700	1/4	39,702	1/4	54,701	1/4	69,698	1/4	84,700	1/4	99,702	1/4	114,701	1/4	129,696	1/4	144,692
1/2	10,292	1/2	25,013	1/2	40,014	1/2	55,014	1/2	70,011	1/2	85,012	1/2	100,014	1/2	115,013	1/2	130,009	1/2	145,004
3/4	10,582	3/4	25,325	3/4	40,327	3/4	55,326	3/4	70,323	3/4	85,325	3/4	100,327	3/4	115,325	3/4	130,321	3/4	145,317
10	10,871	10	25,638	10	40,639	10	55,638	10	70,636	10	85,638	10	100,640	10	115,638	10	130,633	10	145,629
1/4	11,165	1/4	25,951	1/4	40,952	1/4	55,951	1/4	70,948	1/4	85,950	1/4	100,952	1/4	115,950	1/4	130,946	1/4	145,941
1/2	11,458	1/2	26,263	1/2	41,265	1/2	56,263	1/2	71,261	1/2	86,263	1/2	101,265	1/2	116,263	1/2	131,258	1/2	146,254
3/4	11,751	3/4	26,576	3/4	41,577	3/4	56,575	3/4	71,573	3/4	86,575	3/4	101,577	3/4	116,575	3/4	131,571	3/4	146,566
11	12,044	11	26,888	11	41,890	11	56,888	11	71,886	11	86,888	11	101,890	11	116,888	11	131,883	11	146,879
1/4	12,342	1/4	27,201	1/4	42,202	1/4	57,200	1/4	72,198	1/4	87,200	1/4	102,202	1/4	117,200	1/4	132,195	1/4	147,191
1/2	12,639	1/2	27,513	1/2	42,515	1/2	57,512	1/2	72,511	1/2	87,513	1/2	102,515	1/2	117,512	1/2	132,508	1/2	147,503
3/4	12,936	3/4	27,826	3/4	42,827	3/4	57,824	3/4	72,823	3/4	87,825	3/4	102,827	3/4	117,825	3/4	132,820	3/4	147,816

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 OF THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3006"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,128	0	163,124	0	178,110	0	193,062	0	207,942	0		0		0		0		0	
1/4	148,441	1/4	163,436	1/4	178,422	1/4	193,374	1/4	208,222	1/4		1/4		1/4		1/4		1/4	
1/2	148,753	1/2	163,749	1/2	178,733	1/2	193,685	1/2	208,501	1/2		1/2		1/2		1/2		1/2	
3/4	149,065	3/4	164,061	3/4	179,045	3/4	193,997	3/4	208,781	3/4		3/4		3/4		3/4		3/4	
1	149,378	1	164,374	1	179,356	1	194,308	1	209,061	1		1		1		1		1	
1/4	149,690	1/4	164,686	1/4	179,668	1/4	194,620	1/4	209,292	1/4		1/4		1/4		1/4		1/4	
1/2	150,003	1/2	164,998	1/2	179,979	1/2	194,931	1/2	209,524	1/2		1/2		1/2		1/2		1/2	
3/4	150,315	3/4	165,311	3/4	180,291	3/4	195,243	3/4	209,755	3/4		3/4		3/4		3/4		3/4	
2	150,627	2	165,623	2	180,602	2	195,554	2	209,986	2		2		2		2		2	
1/4	150,940	1/4	165,936	1/4	180,914	1/4	195,866	1/4	210,166	1/4		1/4		1/4		1/4		1/4	
1/2	151,252	1/2	166,248	1/2	181,225	1/2	196,177	1/2	210,345	1/2		1/2		1/2		1/2		1/2	
3/4	151,565	3/4	166,560	3/4	181,537	3/4	196,489	3/4	210,524	3/4		3/4		3/4		3/4		3/4	
3	151,877	3	166,873	3	181,848	3	196,800	3	210,703	3		3		3		3		3	
1/4	152,190	1/4	167,185	1/4	182,160	1/4	197,112	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,502	1/2	167,498	1/2	182,471	1/2	197,423	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,814	3/4	167,810	3/4	182,783	3/4	197,735	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,127	4	168,122	4	183,094	4	198,046	4		4		4		4		4		4	
1/4	153,439	1/4	168,435	1/4	183,406	1/4	198,358	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,752	1/2	168,747	1/2	183,717	1/2	198,669	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,064	3/4	169,060	3/4	184,029	3/4	198,981	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,376	5	169,372	5	184,340	5	199,292	5		5		5		5		5		5	
1/4	154,689	1/4	169,685	1/4	184,652	1/4	199,603	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,001	1/2	169,997	1/2	184,963	1/2	199,913	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,314	3/4	170,309	3/4	185,275	3/4	200,224	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,626	6	170,622	6	185,586	6	200,534	6		6		6		6		6		6	
1/4	155,938	1/4	170,934	1/4	185,898	1/4	200,843	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,251	1/2	171,247	1/2	186,209	1/2	201,153	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,563	3/4	171,559	3/4	186,521	3/4	201,462	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,876	7	171,871	7	186,832	7	201,772	7		7		7		7		7		7	
1/4	157,188	1/4	172,184	1/4	187,144	1/4	202,081	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,501	1/2	172,496	1/2	187,455	1/2	202,390	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,813	3/4	172,809	3/4	187,767	3/4	202,700	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,125	8	173,121	8	188,078	8	203,009	8		8		8		8		8		8	
1/4	158,438	1/4	173,433	1/4	188,390	1/4	203,319	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,750	1/2	173,746	1/2	188,701	1/2	203,628	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,063	3/4	174,058	3/4	189,013	3/4	203,938	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,375	9	174,371	9	189,324	9	204,247	9		9		9		9		9		9	
1/4	159,687	1/4	174,683	1/4	189,636	1/4	204,557	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,000	1/2	174,995	1/2	189,947	1/2	204,866	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,312	3/4	175,307	3/4	190,259	3/4	205,175	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,625	10	175,618	10	190,570	10	205,485	10		10		10		10		10		10	
1/4	160,937	1/4	175,930	1/4	190,882	1/4	205,794	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,249	1/2	176,241	1/2	191,193	1/2	206,103	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,562	3/4	176,553	3/4	191,505	3/4	206,412	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,874	11	176,864	11	191,816	11	206,721	11		11		11		11		11		11	
1/4	162,187	1/4	177,176	1/4	192,128	1/4	207,026	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,499	1/2	177,487	1/2	192,439	1/2	207,331	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,811	3/4	177,799	3/4	192,751	3/4	207,637	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

PRECISION MEASUREMENT
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BARGE "HSM 3006"

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	1,031	0	15,687	0	30,741	0	45,424	0	59,902	0	74,747	0	89,804	0	104,861	0	119,913	0	134,962
1/4	1,266	1/4	16,001	1/4	31,055	1/4	45,725	1/4	60,204	1/4	75,061	1/4	90,118	1/4	105,175	1/4	120,226	1/4	135,275
1/2	1,501	1/2	16,314	1/2	31,369	1/2	46,026	1/2	60,506	1/2	75,374	1/2	90,431	1/2	105,488	1/2	120,540	1/2	135,589
3/4	1,737	3/4	16,628	3/4	31,682	3/4	46,327	3/4	60,808	3/4	75,688	3/4	90,745	3/4	105,802	3/4	120,853	3/4	135,902
1	1,972	1	16,942	1	31,996	1	46,628	1	61,110	1	76,002	1	91,059	1	106,116	1	121,167	1	136,216
1/4	2,265	1/4	17,255	1/4	32,310	1/4	46,929	1/4	61,411	1/4	76,316	1/4	91,372	1/4	106,429	1/4	121,480	1/4	136,530
1/2	2,558	1/2	17,569	1/2	32,623	1/2	47,230	1/2	61,713	1/2	76,629	1/2	91,686	1/2	106,743	1/2	121,794	1/2	136,843
3/4	2,852	3/4	17,883	3/4	32,937	3/4	47,531	3/4	62,015	3/4	76,943	3/4	92,000	3/4	107,057	3/4	122,107	3/4	137,157
2	3,145	2	18,196	2	33,251	2	47,832	2	62,317	2	77,257	2	92,314	2	107,370	2	122,421	2	137,470
1/4	3,458	1/4	18,510	1/4	33,564	1/4	48,133	1/4	62,619	1/4	77,570	1/4	92,627	1/4	107,684	1/4	122,734	1/4	137,784
1/2	3,770	1/2	18,824	1/2	33,878	1/2	48,435	1/2	62,921	1/2	77,884	1/2	92,941	1/2	107,998	1/2	123,048	1/2	138,097
3/4	4,083	3/4	19,137	3/4	34,192	3/4	48,736	3/4	63,223	3/4	78,198	3/4	93,255	3/4	108,311	3/4	123,361	3/4	138,411
3	4,396	3	19,451	3	34,505	3	49,037	3	63,525	3	78,511	3	93,568	3	108,625	3	123,675	3	138,724
1/4	4,709	1/4	19,765	1/4	34,819	1/4	49,338	1/4	63,827	1/4	78,825	1/4	93,882	1/4	108,939	1/4	123,988	1/4	139,038
1/2	5,023	1/2	20,078	1/2	35,133	1/2	49,639	1/2	64,129	1/2	79,139	1/2	94,196	1/2	109,252	1/2	124,302	1/2	139,351
3/4	5,336	3/4	20,392	3/4	35,446	3/4	49,940	3/4	64,431	3/4	79,452	3/4	94,509	3/4	109,566	3/4	124,615	3/4	139,665
4	5,649	4	20,706	4	35,760	4	50,242	4	64,733	4	79,766	4	94,823	4	109,880	4	124,929	4	139,978
1/4	5,963	1/4	21,019	1/4	36,068	1/4	50,543	1/4	65,040	1/4	80,080	1/4	95,137	1/4	110,193	1/4	125,242	1/4	140,292
1/2	6,277	1/2	21,333	1/2	36,376	1/2	50,845	1/2	65,348	1/2	80,393	1/2	95,450	1/2	110,507	1/2	125,556	1/2	140,605
3/4	6,590	3/4	21,647	3/4	36,683	3/4	51,146	3/4	65,656	3/4	80,707	3/4	95,764	3/4	110,820	3/4	125,870	3/4	140,919
5	6,904	5	21,961	5	36,991	5	51,448	5	65,964	5	81,021	5	96,078	5	111,134	5	126,183	5	141,232
1/4	7,218	1/4	22,274	1/4	37,293	1/4	51,750	1/4	66,278	1/4	81,335	1/4	96,391	1/4	111,447	1/4	126,497	1/4	141,546
1/2	7,531	1/2	22,588	1/2	37,595	1/2	52,052	1/2	66,591	1/2	81,648	1/2	96,705	1/2	111,761	1/2	126,810	1/2	141,859
3/4	7,845	3/4	22,902	3/4	37,897	3/4	52,354	3/4	66,905	3/4	81,962	3/4	97,019	3/4	112,074	3/4	127,124	3/4	142,173
6	8,159	6	23,215	6	38,199	6	52,656	6	67,219	6	82,276	6	97,332	6	112,388	6	127,437	6	142,487
1/4	8,472	1/4	23,529	1/4	38,500	1/4	52,958	1/4	67,532	1/4	82,589	1/4	97,646	1/4	112,701	1/4	127,751	1/4	142,800
1/2	8,786	1/2	23,843	1/2	38,802	1/2	53,259	1/2	67,846	1/2	82,903	1/2	97,960	1/2	113,015	1/2	128,064	1/2	143,114
3/4	9,100	3/4	24,156	3/4	39,103	3/4	53,561	3/4	68,160	3/4	83,217	3/4	98,274	3/4	113,328	3/4	128,378	3/4	143,427
7	9,413	7	24,470	7	39,405	7	53,863	7	68,473	7	83,530	7	98,587	7	113,642	7	128,691	7	143,741
1/4	9,727	1/4	24,784	1/4	39,706	1/4	54,165	1/4	68,787	1/4	83,844	1/4	98,901	1/4	113,955	1/4	129,005	1/4	144,054
1/2	10,041	1/2	25,097	1/2	40,007	1/2	54,467	1/2	69,101	1/2	84,158	1/2	99,215	1/2	114,269	1/2	129,318	1/2	144,368
3/4	10,354	3/4	25,411	3/4	40,308	3/4	54,769	3/4	69,414	3/4	84,471	3/4	99,528	3/4	114,583	3/4	129,632	3/4	144,681
8	10,668	8	25,725	8	40,609	8	55,071	8	69,728	8	84,785	8	99,842	8	114,896	8	129,945	8	144,995
1/4	10,982	1/4	26,038	1/4	40,910	1/4	55,373	1/4	70,042	1/4	85,099	1/4	100,156	1/4	115,210	1/4	130,259	1/4	145,308
1/2	11,296	1/2	26,352	1/2	41,211	1/2	55,675	1/2	70,355	1/2	85,412	1/2	100,469	1/2	115,523	1/2	130,572	1/2	145,622
3/4	11,609	3/4	26,665	3/4	41,512	3/4	55,977	3/4	70,669	3/4	85,726	3/4	100,783	3/4	115,837	3/4	130,886	3/4	145,935
9	11,923	9	26,979	9	41,813	9	56,279	9	70,983	9	86,040	9	101,097	9	116,150	9	131,200	9	146,249
1/4	12,237	1/4	27,293	1/4	42,114	1/4	56,581	1/4	71,297	1/4	86,353	1/4	101,410	1/4	116,464	1/4	131,513	1/4	146,562
1/2	12,550	1/2	27,606	1/2	42,415	1/2	56,883	1/2	71,610	1/2	86,667	1/2	101,724	1/2	116,777	1/2	131,827	1/2	146,876
3/4	12,864	3/4	27,919	3/4	42,716	3/4	57,185	3/4	71,924	3/4	86,981	3/4	102,038	3/4	117,091	3/4	132,140	3/4	147,189
10	13,178	10	28,233	10	43,017	10	57,486	10	72,238	10	87,295	10	102,351	10	117,404	10	132,454	10	147,503
1/4	13,491	1/4	28,546	1/4	43,317	1/4	57,788	1/4	72,551	1/4	87,608	1/4	102,665	1/4	117,718	1/4	132,767	1/4	147,817
1/2	13,805	1/2	28,860	1/2	43,618	1/2	58,090	1/2	72,865	1/2	87,922	1/2	102,979	1/2	118,031	1/2	133,081	1/2	148,130
3/4	14,119	3/4	29,173	3/4	43,919	3/4	58,392	3/4	73,179	3/4	88,236	3/4	103,293	3/4	118,345	3/4	133,394	3/4	148,444
11	14,432	11	29,487	11	44,220	11	58,694	11	73,492	11	88,549	11	103,606	11	118,658	11	133,708	11	148,757
1/4	14,746	1/4	29,800	1/4	44,521	1/4	58,996	1/4	73,806	1/4	88,863	1/4	103,920	1/4	118,972	1/4	134,021	1/4	149,071
1/2	15,060	1/2	30,114	1/2	44,822	1/2	59,298	1/2	74,120	1/2	89,177	1/2	104,234	1/2	119,285	1/2	134,335	1/2	149,384
3/4	15,373	3/4	30,428	3/4	45,123	3/4	59,600	3/4	74,433	3/4	89,490	3/4	104,547	3/4	119,599	3/4	134,648	3/4	149,698

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

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





BARGE "HSM 3006"

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	150,011	0	165,061	0	180,099	0	195,098	0	209,999	0		0		0		0		0	
1/4	150,325	1/4	165,374	1/4	180,412	1/4	195,410	1/4	210,279	1/4		1/4		1/4		1/4		1/4	
1/2	150,638	1/2	165,688	1/2	180,724	1/2	195,723	1/2	210,558	1/2		1/2		1/2		1/2		1/2	
3/4	150,952	3/4	166,001	3/4	181,037	3/4	196,035	3/4	210,838	3/4		3/4		3/4		3/4		3/4	
1	151,265	1	166,315	1	181,349	1	196,347	1	211,117	1		1		1		1		1	
1/4	151,579	1/4	166,628	1/4	181,662	1/4	196,660	1/4	211,349	1/4		1/4		1/4		1/4		1/4	
1/2	151,892	1/2	166,942	1/2	181,974	1/2	196,972	1/2	211,580	1/2		1/2		1/2		1/2		1/2	
3/4	152,206	3/4	167,255	3/4	182,287	3/4	197,285	3/4	211,811	3/4		3/4		3/4		3/4		3/4	
2	152,519	2	167,569	2	182,599	2	197,597	2	212,042	2		2		2		2		2	
1/4	152,833	1/4	167,882	1/4	182,911	1/4	197,910	1/4	212,221	1/4		1/4		1/4		1/4		1/4	
1/2	153,147	1/2	168,196	1/2	183,224	1/2	198,222	1/2	212,400	1/2		1/2		1/2		1/2		1/2	
3/4	153,460	3/4	168,509	3/4	183,536	3/4	198,535	3/4	212,578	3/4		3/4		3/4		3/4		3/4	
3	153,774	3	168,823	3	183,849	3	198,847	3	212,757	3		3		3		3		3	
1/4	154,087	1/4	169,136	1/4	184,161	1/4	199,160	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,401	1/2	169,450	1/2	184,474	1/2	199,472	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,714	3/4	169,764	3/4	184,786	3/4	199,785	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,028	4	170,077	4	185,099	4	200,097	4		4		4		4		4		4	
1/4	155,341	1/4	170,391	1/4	185,411	1/4	200,409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,655	1/2	170,704	1/2	185,724	1/2	200,722	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,968	3/4	171,018	3/4	186,036	3/4	201,034	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,282	5	171,331	5	186,349	5	201,347	5		5		5		5		5		5	
1/4	156,595	1/4	171,645	1/4	186,661	1/4	201,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,909	1/2	171,958	1/2	186,974	1/2	201,969	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,222	3/4	172,272	3/4	187,286	3/4	202,280	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,536	6	172,585	6	187,598	6	202,591	6		6		6		6		6		6	
1/4	157,849	1/4	172,899	1/4	187,911	1/4	202,900	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,163	1/2	173,212	1/2	188,223	1/2	203,209	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,476	3/4	173,526	3/4	188,536	3/4	203,519	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,790	7	173,839	7	188,848	7	203,828	7		7		7		7		7		7	
1/4	159,104	1/4	174,153	1/4	189,161	1/4	204,137	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,417	1/2	174,466	1/2	189,473	1/2	204,447	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,731	3/4	174,780	3/4	189,786	3/4	204,756	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,044	8	175,094	8	190,098	8	205,066	8		8		8		8		8		8	
1/4	160,358	1/4	175,407	1/4	190,411	1/4	205,375	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,671	1/2	175,721	1/2	190,723	1/2	205,685	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,985	3/4	176,034	3/4	191,036	3/4	205,994	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,298	9	176,348	9	191,348	9	206,304	9		9		9		9		9		9	
1/4	161,612	1/4	176,661	1/4	191,660	1/4	206,613	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,925	1/2	176,974	1/2	191,973	1/2	206,923	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,239	3/4	177,287	3/4	192,285	3/4	207,232	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,552	10	177,600	10	192,598	10	207,542	10		10		10		10		10		10	
1/4	162,866	1/4	177,912	1/4	192,910	1/4	207,851	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,179	1/2	178,225	1/2	193,223	1/2	208,160	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,493	3/4	178,537	3/4	193,535	3/4	208,469	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,806	11	178,849	11	193,848	11	208,778	11		11		11		11		11		11	
1/4	164,120	1/4	179,162	1/4	194,160	1/4	209,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,434	1/2	179,474	1/2	194,473	1/2	209,388	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,747	3/4	179,787	3/4	194,785	3/4	209,694	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

PRECISION MEASUREMENT
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BARGE "HSM 3006"

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	1,032	0	15,695	0	30,757	0	45,801	0	60,850	0	75,914	0	90,979	0	106,043	0	121,102	0	136,158
1/4	1,267	1/4	16,009	1/4	31,071	1/4	46,114	1/4	61,164	1/4	76,228	1/4	91,292	1/4	106,357	1/4	121,415	1/4	136,472
1/2	1,502	1/2	16,323	1/2	31,385	1/2	46,427	1/2	61,478	1/2	76,542	1/2	91,606	1/2	106,670	1/2	121,729	1/2	136,786
3/4	1,738	3/4	16,637	3/4	31,699	3/4	46,740	3/4	61,792	3/4	76,856	3/4	91,920	3/4	106,984	3/4	122,043	3/4	137,099
1	1,973	1	16,951	1	32,012	1	47,052	1	62,105	1	77,170	1	92,234	1	107,298	1	122,356	1	137,413
1/4	2,266	1/4	17,264	1/4	32,326	1/4	47,365	1/4	62,419	1/4	77,483	1/4	92,548	1/4	107,612	1/4	122,670	1/4	137,727
1/2	2,560	1/2	17,578	1/2	32,640	1/2	47,678	1/2	62,733	1/2	77,797	1/2	92,862	1/2	107,926	1/2	122,984	1/2	138,040
3/4	2,853	3/4	17,892	3/4	32,954	3/4	47,991	3/4	63,047	3/4	78,111	3/4	93,175	3/4	108,240	3/4	123,297	3/4	138,354
2	3,147	2	18,206	2	33,268	2	48,304	2	63,361	2	78,425	2	93,489	2	108,553	2	123,611	2	138,668
1/4	3,460	1/4	18,520	1/4	33,582	1/4	48,617	1/4	63,675	1/4	78,739	1/4	93,803	1/4	108,867	1/4	123,925	1/4	138,981
1/2	3,772	1/2	18,834	1/2	33,895	1/2	48,930	1/2	63,988	1/2	79,053	1/2	94,117	1/2	109,181	1/2	124,238	1/2	139,295
3/4	4,085	3/4	19,147	3/4	34,209	3/4	49,243	3/4	64,302	3/4	79,367	3/4	94,431	3/4	109,495	3/4	124,552	3/4	139,609
3	4,398	3	19,461	3	34,523	3	49,556	3	64,616	3	79,680	3	94,745	3	109,809	3	124,866	3	139,922
1/4	4,712	1/4	19,775	1/4	34,837	1/4	49,869	1/4	64,930	1/4	79,994	1/4	95,058	1/4	110,123	1/4	125,179	1/4	140,236
1/2	5,025	1/2	20,089	1/2	35,151	1/2	50,182	1/2	65,244	1/2	80,308	1/2	95,372	1/2	110,436	1/2	125,493	1/2	140,550
3/4	5,339	3/4	20,403	3/4	35,465	3/4	50,496	3/4	65,558	3/4	80,622	3/4	95,686	3/4	110,750	3/4	125,807	3/4	140,863
4	5,653	4	20,717	4	35,778	4	50,809	4	65,871	4	80,936	4	96,000	4	111,064	4	126,120	4	141,177
1/4	5,966	1/4	21,030	1/4	36,092	1/4	51,122	1/4	66,185	1/4	81,250	1/4	96,314	1/4	111,378	1/4	126,434	1/4	141,491
1/2	6,280	1/2	21,344	1/2	36,406	1/2	51,436	1/2	66,499	1/2	81,563	1/2	96,628	1/2	111,691	1/2	126,748	1/2	141,805
3/4	6,594	3/4	21,658	3/4	36,720	3/4	51,749	3/4	66,813	3/4	81,877	3/4	96,941	3/4	112,005	3/4	127,062	3/4	142,118
5	6,908	5	21,972	5	37,034	5	52,063	5	67,127	5	82,191	5	97,255	5	112,319	5	127,375	5	142,432
1/4	7,222	1/4	22,286	1/4	37,348	1/4	52,376	1/4	67,441	1/4	82,505	1/4	97,569	1/4	112,632	1/4	127,689	1/4	142,746
1/2	7,535	1/2	22,600	1/2	37,661	1/2	52,690	1/2	67,755	1/2	82,819	1/2	97,883	1/2	112,946	1/2	128,003	1/2	143,059
3/4	7,849	3/4	22,913	3/4	37,975	3/4	53,004	3/4	68,068	3/4	83,133	3/4	98,197	3/4	113,260	3/4	128,316	3/4	143,373
6	8,163	6	23,227	6	38,289	6	53,318	6	68,382	6	83,446	6	98,511	6	113,573	6	128,630	6	143,687
1/4	8,477	1/4	23,541	1/4	38,603	1/4	53,632	1/4	68,696	1/4	83,760	1/4	98,824	1/4	113,887	1/4	128,944	1/4	144,000
1/2	8,791	1/2	23,855	1/2	38,916	1/2	53,946	1/2	69,010	1/2	84,074	1/2	99,138	1/2	114,201	1/2	129,257	1/2	144,314
3/4	9,105	3/4	24,169	3/4	39,229	3/4	54,259	3/4	69,324	3/4	84,388	3/4	99,452	3/4	114,514	3/4	129,571	3/4	144,628
7	9,418	7	24,483	7	39,543	7	54,573	7	69,638	7	84,702	7	99,766	7	114,828	7	129,885	7	144,941
1/4	9,732	1/4	24,796	1/4	39,856	1/4	54,887	1/4	69,951	1/4	85,016	1/4	100,080	1/4	115,142	1/4	130,198	1/4	145,255
1/2	10,046	1/2	25,110	1/2	40,168	1/2	55,201	1/2	70,265	1/2	85,329	1/2	100,394	1/2	115,455	1/2	130,512	1/2	145,569
3/4	10,360	3/4	25,424	3/4	40,481	3/4	55,515	3/4	70,579	3/4	85,643	3/4	100,708	3/4	115,769	3/4	130,826	3/4	145,882
8	10,674	8	25,738	8	40,794	8	55,829	8	70,893	8	85,957	8	101,021	8	116,083	8	131,139	8	146,196
1/4	10,988	1/4	26,052	1/4	41,107	1/4	56,143	1/4	71,207	1/4	86,271	1/4	101,335	1/4	116,396	1/4	131,453	1/4	146,510
1/2	11,301	1/2	26,365	1/2	41,420	1/2	56,456	1/2	71,521	1/2	86,585	1/2	101,649	1/2	116,710	1/2	131,767	1/2	146,823
3/4	11,615	3/4	26,679	3/4	41,733	3/4	56,770	3/4	71,834	3/4	86,899	3/4	101,963	3/4	117,024	3/4	132,080	3/4	147,137
9	11,929	9	26,993	9	42,046	9	57,084	9	72,148	9	87,212	9	102,277	9	117,337	9	132,394	9	147,451
1/4	12,243	1/4	27,307	1/4	42,359	1/4	57,398	1/4	72,462	1/4	87,526	1/4	102,591	1/4	117,651	1/4	132,708	1/4	147,764
1/2	12,557	1/2	27,620	1/2	42,672	1/2	57,712	1/2	72,776	1/2	87,840	1/2	102,904	1/2	117,965	1/2	133,021	1/2	148,078
3/4	12,871	3/4	27,934	3/4	42,985	3/4	58,026	3/4	73,090	3/4	88,154	3/4	103,218	3/4	118,278	3/4	133,335	3/4	148,392
10	13,184	10	28,248	10	43,298	10	58,339	10	73,404	10	88,468	10	103,532	10	118,592	10	133,649	10	148,705
1/4	13,498	1/4	28,561	1/4	43,610	1/4	58,653	1/4	73,717	1/4	88,782	1/4	103,846	1/4	118,906	1/4	133,963	1/4	149,019
1/2	13,812	1/2	28,875	1/2	43,923	1/2	58,967	1/2	74,031	1/2	89,095	1/2	104,160	1/2	119,220	1/2	134,276	1/2	149,333
3/4	14,126	3/4	29,188	3/4	44,236	3/4	59,281	3/4	74,345	3/4	89,409	3/4	104,474	3/4	119,533	3/4	134,590	3/4	149,647
11	14,440	11	29,502	11	44,549	11	59,595	11	74,659	11	89,723	11	104,787	11	119,847	11	134,904	11	149,960
1/4	14,754	1/4	29,816	1/4	44,862	1/4	59,909	1/4	74,973	1/4	90,037	1/4	105,101	1/4	120,161	1/4	135,217	1/4	150,274
1/2	15,068	1/2	30,130	1/2	45,175	1/2	60,222	1/2	75,287	1/2	90,351	1/2	105,415	1/2	120,474	1/2	135,531	1/2	150,588
3/4	15,381	3/4	30,443	3/4	45,488	3/4	60,536	3/4	75,600	3/4	90,665	3/4	105,729	3/4	120,788	3/4	135,845	3/4	150,901

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

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



BARGE "HSM 3006"

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	151,215	0	166,272	0	181,318	0	196,323	0	211,232	0		0		0		0		0	
1/4	151,529	1/4	166,585	1/4	181,630	1/4	196,636	1/4	211,512	1/4		1/4		1/4		1/4		1/4	
1/2	151,842	1/2	166,899	1/2	181,943	1/2	196,948	1/2	211,791	1/2		1/2		1/2		1/2		1/2	
3/4	152,156	3/4	167,213	3/4	182,255	3/4	197,261	3/4	212,071	3/4		3/4		3/4		3/4		3/4	
1	152,470	1	167,526	1	182,568	1	197,574	1	212,351	1		1		1		1		1	
1/4	152,783	1/4	167,840	1/4	182,881	1/4	197,886	1/4	212,582	1/4		1/4		1/4		1/4		1/4	
1/2	153,097	1/2	168,154	1/2	183,193	1/2	198,199	1/2	212,813	1/2		1/2		1/2		1/2		1/2	
3/4	153,411	3/4	168,467	3/4	183,506	3/4	198,511	3/4	213,045	3/4		3/4		3/4		3/4		3/4	
2	153,724	2	168,781	2	183,819	2	198,824	2	213,276	2		2		2		2		2	
1/4	154,038	1/4	169,095	1/4	184,131	1/4	199,137	1/4	213,455	1/4		1/4		1/4		1/4		1/4	
1/2	154,352	1/2	169,408	1/2	184,444	1/2	199,449	1/2	213,634	1/2		1/2		1/2		1/2		1/2	
3/4	154,665	3/4	169,722	3/4	184,756	3/4	199,762	3/4	213,813	3/4		3/4		3/4		3/4		3/4	
3	154,979	3	170,036	3	185,069	3	200,075	3	213,991	3		3		3		3		3	
1/4	155,293	1/4	170,349	1/4	185,382	1/4	200,387	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,606	1/2	170,663	1/2	185,694	1/2	200,700	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,920	3/4	170,977	3/4	186,007	3/4	201,012	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,234	4	171,290	4	186,319	4	201,325	4		4		4		4		4		4	
1/4	156,548	1/4	171,604	1/4	186,632	1/4	201,638	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,861	1/2	171,918	1/2	186,945	1/2	201,950	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,175	3/4	172,232	3/4	187,257	3/4	202,263	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,489	5	172,545	5	187,570	5	202,576	5		5		5		5		5		5	
1/4	157,802	1/4	172,859	1/4	187,883	1/4	202,887	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,116	1/2	173,173	1/2	188,195	1/2	203,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,430	3/4	173,486	3/4	188,508	3/4	203,509	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,743	6	173,800	6	188,820	6	203,820	6		6		6		6		6		6	
1/4	159,057	1/4	174,114	1/4	189,133	1/4	204,129	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,371	1/2	174,427	1/2	189,446	1/2	204,439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,684	3/4	174,741	3/4	189,758	3/4	204,748	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,998	7	175,055	7	190,071	7	205,058	7		7		7		7		7		7	
1/4	160,312	1/4	175,368	1/4	190,383	1/4	205,367	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,625	1/2	175,682	1/2	190,696	1/2	205,677	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,939	3/4	175,996	3/4	191,009	3/4	205,987	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,253	8	176,309	8	191,321	8	206,296	8		8		8		8		8		8	
1/4	161,566	1/4	176,623	1/4	191,634	1/4	206,606	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,880	1/2	176,937	1/2	191,947	1/2	206,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,194	3/4	177,250	3/4	192,259	3/4	207,225	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,507	9	177,564	9	192,572	9	207,535	9		9		9		9		9		9	
1/4	162,821	1/4	177,877	1/4	192,884	1/4	207,845	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,135	1/2	178,190	1/2	193,197	1/2	208,154	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,448	3/4	178,504	3/4	193,510	3/4	208,464	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,762	10	178,817	10	193,822	10	208,773	10		10		10		10		10		10	
1/4	164,076	1/4	179,129	1/4	194,135	1/4	209,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,390	1/2	179,442	1/2	194,447	1/2	209,392	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,703	3/4	179,755	3/4	194,760	3/4	209,701	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,017	11	180,067	11	195,073	11	210,010	11		11		11		11		11		11	
1/4	165,331	1/4	180,380	1/4	195,385	1/4	210,316	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,644	1/2	180,692	1/2	195,698	1/2	210,621	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,958	3/4	181,005	3/4	196,011	3/4	210,926	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3006"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,500	0	158,868	0	169,215	0	179,533	0	189,836	0		0		0		0		0	
1/4	148,719	1/4	159,084	1/4	169,430	1/4	179,748	1/4	190,029	1/4		1/4		1/4		1/4		1/4	
1/2	148,938	1/2	159,299	1/2	169,645	1/2	179,963	1/2	190,222	1/2		1/2		1/2		1/2		1/2	
3/4	149,157	3/4	159,515	3/4	169,860	3/4	180,178	3/4	190,415	3/4		3/4		3/4		3/4		3/4	
1	149,376	1	159,731	1	170,075	1	180,393	1	190,607	1		1		1		1		1	
1/4	149,592	1/4	159,947	1/4	170,290	1/4	180,607	1/4	190,767	1/4		1/4		1/4		1/4		1/4	
1/2	149,808	1/2	160,162	1/2	170,504	1/2	180,822	1/2	190,926	1/2		1/2		1/2		1/2		1/2	
3/4	150,024	3/4	160,378	3/4	170,719	3/4	181,037	3/4	191,086	3/4		3/4		3/4		3/4		3/4	
2	150,239	2	160,594	2	170,934	2	181,252	2	191,245	2		2		2		2		2	
1/4	150,455	1/4	160,809	1/4	171,149	1/4	181,467	1/4	191,369	1/4		1/4		1/4		1/4		1/4	
1/2	150,671	1/2	161,025	1/2	171,364	1/2	181,682	1/2	191,492	1/2		1/2		1/2		1/2		1/2	
3/4	150,886	3/4	161,241	3/4	171,579	3/4	181,897	3/4	191,616	3/4		3/4		3/4		3/4		3/4	
3	151,102	3	161,457	3	171,794	3	182,112	3	191,739	3		3		3		3		3	
1/4	151,318	1/4	161,672	1/4	172,009	1/4	182,327	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,534	1/2	161,888	1/2	172,224	1/2	182,542	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,749	3/4	162,104	3/4	172,439	3/4	182,757	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,965	4	162,319	4	172,654	4	182,972	4		4		4		4		4		4	
1/4	152,181	1/4	162,535	1/4	172,869	1/4	183,187	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,396	1/2	162,751	1/2	173,084	1/2	183,402	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,612	3/4	162,967	3/4	173,299	3/4	183,617	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,828	5	163,182	5	173,514	5	183,832	5		5		5		5		5		5	
1/4	153,044	1/4	163,398	1/4	173,729	1/4	184,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,259	1/2	163,614	1/2	173,944	1/2	184,262	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,475	3/4	163,829	3/4	174,159	3/4	184,477	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,691	6	164,045	6	174,374	6	184,692	6		6		6		6		6		6	
1/4	153,907	1/4	164,261	1/4	174,589	1/4	184,907	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,122	1/2	164,477	1/2	174,804	1/2	185,122	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,338	3/4	164,692	3/4	175,019	3/4	185,337	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,554	7	164,908	7	175,234	7	185,551	7		7		7		7		7		7	
1/4	154,769	1/4	165,124	1/4	175,448	1/4	185,766	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,985	1/2	165,339	1/2	175,663	1/2	185,981	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,201	3/4	165,555	3/4	175,878	3/4	186,197	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,417	8	165,771	8	176,093	8	186,412	8		8		8		8		8		8	
1/4	155,632	1/4	165,987	1/4	176,308	1/4	186,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,848	1/2	166,202	1/2	176,523	1/2	186,842	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,064	3/4	166,418	3/4	176,738	3/4	187,057	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,279	9	166,634	9	176,953	9	187,272	9		9		9		9		9		9	
1/4	156,495	1/4	166,849	1/4	177,168	1/4	187,487	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,711	1/2	167,064	1/2	177,383	1/2	187,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,927	3/4	167,280	3/4	177,598	3/4	187,917	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,142	10	167,495	10	177,813	10	188,132	10		10		10		10		10		10	
1/4	157,358	1/4	167,710	1/4	178,028	1/4	188,347	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,574	1/2	167,925	1/2	178,243	1/2	188,561	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,789	3/4	168,140	3/4	178,458	3/4	188,776	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,005	11	168,355	11	178,673	11	188,991	11		11		11		11		11		11	
1/4	158,221	1/4	168,570	1/4	178,888	1/4	189,202	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,437	1/2	168,785	1/2	179,103	1/2	189,413	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,652	3/4	169,000	3/4	179,318	3/4	189,625	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

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



BARGE "HSM 3006"

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	149,484	0	159,849	0	170,193	0	180,507	0	190,808	0		0		0		0		0	
1/4	149,703	1/4	160,065	1/4	170,408	1/4	180,722	1/4	191,000	1/4		1/4		1/4		1/4		1/4	
1/2	149,922	1/2	160,280	1/2	170,622	1/2	180,937	1/2	191,193	1/2		1/2		1/2		1/2		1/2	
3/4	150,141	3/4	160,496	3/4	170,837	3/4	181,152	3/4	191,386	3/4		3/4		3/4		3/4		3/4	
1	150,361	1	160,712	1	171,052	1	181,367	1	191,579	1		1		1		1		1	
1/4	150,576	1/4	160,927	1/4	171,267	1/4	181,582	1/4	191,738	1/4		1/4		1/4		1/4		1/4	
1/2	150,792	1/2	161,143	1/2	171,482	1/2	181,797	1/2	191,897	1/2		1/2		1/2		1/2		1/2	
3/4	151,007	3/4	161,359	3/4	171,697	3/4	182,012	3/4	192,057	3/4		3/4		3/4		3/4		3/4	
2	151,223	2	161,574	2	171,912	2	182,227	2	192,216	2		2		2		2		2	
1/4	151,439	1/4	161,790	1/4	172,127	1/4	182,441	1/4	192,340	1/4		1/4		1/4		1/4		1/4	
1/2	151,654	1/2	162,006	1/2	172,342	1/2	182,656	1/2	192,463	1/2		1/2		1/2		1/2		1/2	
3/4	151,870	3/4	162,221	3/4	172,556	3/4	182,871	3/4	192,587	3/4		3/4		3/4		3/4		3/4	
3	152,086	3	162,437	3	172,771	3	183,086	3	192,710	3		3		3		3		3	
1/4	152,301	1/4	162,653	1/4	172,986	1/4	183,301	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,517	1/2	162,868	1/2	173,201	1/2	183,516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,733	3/4	163,084	3/4	173,416	3/4	183,731	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,948	4	163,299	4	173,631	4	183,946	4		4		4		4		4		4	
1/4	153,164	1/4	163,515	1/4	173,846	1/4	184,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,380	1/2	163,731	1/2	174,061	1/2	184,375	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,595	3/4	163,946	3/4	174,276	3/4	184,590	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,811	5	164,162	5	174,490	5	184,805	5		5		5		5		5		5	
1/4	154,027	1/4	164,378	1/4	174,705	1/4	185,020	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,242	1/2	164,593	1/2	174,920	1/2	185,235	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,458	3/4	164,809	3/4	175,135	3/4	185,450	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,674	6	165,025	6	175,350	6	185,665	6		6		6		6		6		6	
1/4	154,889	1/4	165,240	1/4	175,565	1/4	185,880	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,105	1/2	165,456	1/2	175,780	1/2	186,095	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,320	3/4	165,672	3/4	175,995	3/4	186,309	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,536	7	165,887	7	176,210	7	186,524	7		7		7		7		7		7	
1/4	155,752	1/4	166,103	1/4	176,424	1/4	186,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,967	1/2	166,319	1/2	176,639	1/2	186,954	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,183	3/4	166,534	3/4	176,854	3/4	187,169	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,399	8	166,750	8	177,069	8	187,384	8		8		8		8		8		8	
1/4	156,614	1/4	166,966	1/4	177,284	1/4	187,599	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,830	1/2	167,181	1/2	177,499	1/2	187,814	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,046	3/4	167,397	3/4	177,714	3/4	188,029	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,261	9	167,612	9	177,929	9	188,244	9		9		9		9		9		9	
1/4	157,477	1/4	167,828	1/4	178,144	1/4	188,459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,693	1/2	168,043	1/2	178,358	1/2	188,674	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,908	3/4	168,258	3/4	178,573	3/4	188,889	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,124	10	168,474	10	178,788	10	189,104	10		10		10		10		10		10	
1/4	158,340	1/4	168,688	1/4	179,003	1/4	189,319	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,555	1/2	168,903	1/2	179,218	1/2	189,533	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,771	3/4	169,118	3/4	179,433	3/4	189,748	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,987	11	169,333	11	179,648	11	189,962	11		11		11		11		11		11	
1/4	159,202	1/4	169,548	1/4	179,863	1/4	190,174	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,418	1/2	169,763	1/2	180,078	1/2	190,385	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,633	3/4	169,978	3/4	180,293	3/4	190,596	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

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



BARGE "HSM 3006"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 5'-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	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	
1/2	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	
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	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	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	
1/2	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	
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	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	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	
1/2	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	
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	385	3	1,540	3	2,694	3	3,849	3	4,999	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	
1/2	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	
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	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	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	
1/2	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	
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	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	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	
1/2	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	
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	
6	674	6	1,829	6	2,982	6	4,137	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	
1/2	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	
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	
7	770	7	1,925	7	3,079	7	4,234	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	
1/2	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	
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	
8	866	8	2,021	8	3,175	8	4,330	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	
1/2	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	
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	
9	963	9	2,117	9	3,271	9	4,426	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	
1/2	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	
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	
10	1,059	10	2,214	10	3,367	10	4,522	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	
1/2	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	
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	
11	1,155	11	2,310	11	3,464	11	4,619	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	
1/2	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	
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	

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

STRAPPED: 12/13/2016 SW
CALCULATED: 12/13/2016 CL
PRINTED: 12/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HSM 3006"

STBD SLOP TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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	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	
1/2	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	
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	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	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	
1/2	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	
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	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	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	
1/2	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	
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	385	3	1,540	3	2,694	3	3,849	3	4,999	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	
1/2	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	
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	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	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	
1/2	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	
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	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	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	
1/2	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	
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	
6	674	6	1,829	6	2,982	6	4,137	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	
1/2	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	
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	
7	770	7	1,925	7	3,079	7	4,234	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	
1/2	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	
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	
8	866	8	2,021	8	3,175	8	4,330	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	
1/2	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	
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	
9	963	9	2,117	9	3,271	9	4,426	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	
1/2	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	
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	
10	1,059	10	2,214	10	3,367	10	4,522	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	
1/2	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	
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	
11	1,155	11	2,310	11	3,464	11	4,619	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	
1/2	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	
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	

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

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



BARGE "HSM 3006"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	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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