



# BARGE "HFL 3008"

## 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	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 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"

January 15, 2017

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

<http://www.pmacorp.net>



# BARGE "HFL 3008"

## 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	13,243	0	28,159	0	43,172	0	58,123	0	73,094	0	88,107	0	103,120	0	118,128	0	133,135
1/4	562	1/4	13,544	1/4	28,472	1/4	43,485	1/4	58,434	1/4	73,406	1/4	88,420	1/4	103,433	1/4	118,441	1/4	133,448
1/2	739	1/2	13,845	1/2	28,785	1/2	43,797	1/2	58,744	1/2	73,719	1/2	88,732	1/2	103,745	1/2	118,754	1/2	133,760
3/4	915	3/4	14,146	3/4	29,098	3/4	44,110	3/4	59,054	3/4	74,032	3/4	89,045	3/4	104,058	3/4	119,066	3/4	134,073
1	1,092	1	14,448	1	29,410	1	44,423	1	59,365	1	74,345	1	89,358	1	104,371	1	119,379	1	134,386
1/4	1,331	1/4	14,753	1/4	29,723	1/4	44,736	1/4	59,675	1/4	74,657	1/4	89,671	1/4	104,684	1/4	119,692	1/4	134,698
1/2	1,569	1/2	15,058	1/2	30,036	1/2	45,049	1/2	59,986	1/2	74,970	1/2	89,983	1/2	104,997	1/2	120,004	1/2	135,011
3/4	1,808	3/4	15,363	3/4	30,349	3/4	45,361	3/4	60,296	3/4	75,283	3/4	90,296	3/4	105,309	3/4	120,317	3/4	135,324
2	2,046	2	15,668	2	30,661	2	45,674	2	60,606	2	75,596	2	90,609	2	105,622	2	120,630	2	135,636
1/4	2,308	1/4	15,977	1/4	30,974	1/4	45,987	1/4	60,917	1/4	75,909	1/4	90,922	1/4	105,935	1/4	120,942	1/4	135,949
1/2	2,570	1/2	16,286	1/2	31,287	1/2	46,300	1/2	61,227	1/2	76,221	1/2	91,234	1/2	106,248	1/2	121,255	1/2	136,262
3/4	2,831	3/4	16,595	3/4	31,600	3/4	46,612	3/4	61,538	3/4	76,534	3/4	91,547	3/4	106,560	3/4	121,568	3/4	136,574
3	3,093	3	16,904	3	31,912	3	46,925	3	61,848	3	76,847	3	91,860	3	106,873	3	121,880	3	136,887
1/4	3,360	1/4	17,215	1/4	32,225	1/4	47,238	1/4	62,159	1/4	77,160	1/4	92,173	1/4	107,186	1/4	122,193	1/4	137,199
1/2	3,626	1/2	17,527	1/2	32,538	1/2	47,551	1/2	62,469	1/2	77,472	1/2	92,486	1/2	107,499	1/2	122,505	1/2	137,512
3/4	3,892	3/4	17,839	3/4	32,851	3/4	47,863	3/4	62,780	3/4	77,785	3/4	92,798	3/4	107,811	3/4	122,818	3/4	137,825
4	4,158	4	18,151	4	33,163	4	48,176	4	63,090	4	78,098	4	93,111	4	108,124	4	123,131	4	138,137
1/4	4,429	1/4	18,464	1/4	33,476	1/4	48,488	1/4	63,402	1/4	78,411	1/4	93,424	1/4	108,437	1/4	123,443	1/4	138,450
1/2	4,699	1/2	18,776	1/2	33,789	1/2	48,800	1/2	63,714	1/2	78,724	1/2	93,737	1/2	108,749	1/2	123,756	1/2	138,763
3/4	4,970	3/4	19,089	3/4	34,102	3/4	49,112	3/4	64,025	3/4	79,036	3/4	94,049	3/4	109,062	3/4	124,069	3/4	139,075
5	5,240	5	19,402	5	34,415	5	49,424	5	64,337	5	79,349	5	94,362	5	109,375	5	124,381	5	139,388
1/4	5,514	1/4	19,715	1/4	34,727	1/4	49,736	1/4	64,649	1/4	79,662	1/4	94,675	1/4	109,687	1/4	124,694	1/4	139,701
1/2	5,789	1/2	20,027	1/2	35,040	1/2	50,047	1/2	64,962	1/2	79,975	1/2	94,988	1/2	110,000	1/2	125,007	1/2	140,013
3/4	6,063	3/4	20,340	3/4	35,353	3/4	50,358	3/4	65,274	3/4	80,287	3/4	95,301	3/4	110,313	3/4	125,319	3/4	140,326
6	6,337	6	20,653	6	35,666	6	50,670	6	65,587	6	80,600	6	95,613	6	110,625	6	125,632	6	140,639
1/4	6,615	1/4	20,966	1/4	35,978	1/4	50,981	1/4	65,900	1/4	80,913	1/4	95,926	1/4	110,938	1/4	125,944	1/4	140,951
1/2	6,893	1/2	21,278	1/2	36,291	1/2	51,292	1/2	66,213	1/2	81,226	1/2	96,239	1/2	111,250	1/2	126,257	1/2	141,264
3/4	7,171	3/4	21,591	3/4	36,604	3/4	51,603	3/4	66,525	3/4	81,538	3/4	96,552	3/4	111,563	3/4	126,570	3/4	141,576
7	7,449	7	21,904	7	36,917	7	51,914	7	66,838	7	81,851	7	96,864	7	111,876	7	126,882	7	141,889
1/4	7,731	1/4	22,217	1/4	37,229	1/4	52,225	1/4	67,151	1/4	82,164	1/4	97,177	1/4	112,188	1/4	127,195	1/4	142,202
1/2	8,013	1/2	22,529	1/2	37,542	1/2	52,535	1/2	67,464	1/2	82,477	1/2	97,490	1/2	112,501	1/2	127,508	1/2	142,514
3/4	8,295	3/4	22,842	3/4	37,855	3/4	52,846	3/4	67,776	3/4	82,790	3/4	97,803	3/4	112,814	3/4	127,820	3/4	142,827
8	8,577	8	23,155	8	38,168	8	53,157	8	68,089	8	83,102	8	98,116	8	113,126	8	128,133	8	143,140
1/4	8,863	1/4	23,468	1/4	38,480	1/4	53,467	1/4	68,402	1/4	83,415	1/4	98,428	1/4	113,439	1/4	128,446	1/4	143,452
1/2	9,149	1/2	23,781	1/2	38,793	1/2	53,777	1/2	68,715	1/2	83,728	1/2	98,741	1/2	113,752	1/2	128,758	1/2	143,765
3/4	9,435	3/4	24,093	3/4	39,106	3/4	54,088	3/4	69,027	3/4	84,041	3/4	99,054	3/4	114,064	3/4	129,071	3/4	144,078
9	9,721	9	24,406	9	39,419	9	54,398	9	69,340	9	84,353	9	99,367	9	114,377	9	129,383	9	144,390
1/4	10,010	1/4	24,719	1/4	39,732	1/4	54,709	1/4	69,653	1/4	84,666	1/4	99,679	1/4	114,689	1/4	129,696	1/4	144,703
1/2	10,300	1/2	25,032	1/2	40,044	1/2	55,019	1/2	69,966	1/2	84,979	1/2	99,992	1/2	115,002	1/2	130,009	1/2	145,015
3/4	10,590	3/4	25,344	3/4	40,357	3/4	55,329	3/4	70,279	3/4	85,292	3/4	100,305	3/4	115,315	3/4	130,321	3/4	145,328
10	10,879	10	25,657	10	40,670	10	55,640	10	70,591	10	85,605	10	100,618	10	115,627	10	130,634	10	145,641
1/4	11,173	1/4	25,970	1/4	40,983	1/4	55,950	1/4	70,904	1/4	85,917	1/4	100,930	1/4	115,940	1/4	130,947	1/4	145,953
1/2	11,466	1/2	26,283	1/2	41,295	1/2	56,261	1/2	71,217	1/2	86,230	1/2	101,243	1/2	116,253	1/2	131,259	1/2	146,266
3/4	11,760	3/4	26,595	3/4	41,608	3/4	56,571	3/4	71,530	3/4	86,543	3/4	101,556	3/4	116,565	3/4	131,572	3/4	146,579
11	12,053	11	26,908	11	41,921	11	56,881	11	71,842	11	86,856	11	101,869	11	116,878	11	131,885	11	146,891
1/4	12,351	1/4	27,221	1/4	42,234	1/4	57,192	1/4	72,155	1/4	87,168	1/4	102,182	1/4	117,191	1/4	132,197	1/4	147,204
1/2	12,648	1/2	27,534	1/2	42,546	1/2	57,502	1/2	72,468	1/2	87,481	1/2	102,494	1/2	117,503	1/2	132,510	1/2	147,517
3/4	12,945	3/4	27,846	3/4	42,859	3/4	57,813	3/4	72,781	3/4	87,794	3/4	102,807	3/4	117,816	3/4	132,823	3/4	147,829

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT  
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# BARGE "HFL 3008"

## 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	148,142	0	163,149	0	178,146	0	193,109	0	208,000	0		0		0		0		0	
1/4	148,454	1/4	163,461	1/4	178,458	1/4	193,421	1/4	208,279	1/4		1/4		1/4		1/4		1/4	
1/2	148,767	1/2	163,774	1/2	178,770	1/2	193,732	1/2	208,559	1/2		1/2		1/2		1/2		1/2	
3/4	149,080	3/4	164,086	3/4	179,081	3/4	194,044	3/4	208,839	3/4		3/4		3/4		3/4		3/4	
1	149,392	1	164,399	1	179,393	1	194,356	1	209,119	1		1		1		1		1	
1/4	149,705	1/4	164,712	1/4	179,705	1/4	194,668	1/4	209,351	1/4		1/4		1/4		1/4		1/4	
1/2	150,018	1/2	165,024	1/2	180,016	1/2	194,979	1/2	209,582	1/2		1/2		1/2		1/2		1/2	
3/4	150,330	3/4	165,337	3/4	180,328	3/4	195,291	3/4	209,814	3/4		3/4		3/4		3/4		3/4	
2	150,643	2	165,650	2	180,640	2	195,603	2	210,045	2		2		2		2		2	
1/4	150,956	1/4	165,962	1/4	180,952	1/4	195,915	1/4	210,225	1/4		1/4		1/4		1/4		1/4	
1/2	151,268	1/2	166,275	1/2	181,263	1/2	196,226	1/2	210,404	1/2		1/2		1/2		1/2		1/2	
3/4	151,581	3/4	166,588	3/4	181,575	3/4	196,538	3/4	210,583	3/4		3/4		3/4		3/4		3/4	
3	151,894	3	166,900	3	181,887	3	196,850	3	210,763	3		3		3		3		3	
1/4	152,206	1/4	167,213	1/4	182,199	1/4	197,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,519	1/2	167,525	1/2	182,510	1/2	197,473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,831	3/4	167,838	3/4	182,822	3/4	197,785	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,144	4	168,151	4	183,134	4	198,097	4		4		4		4		4		4	
1/4	153,457	1/4	168,463	1/4	183,445	1/4	198,408	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,769	1/2	168,776	1/2	183,757	1/2	198,720	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,082	3/4	169,089	3/4	184,069	3/4	199,032	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,395	5	169,401	5	184,381	5	199,344	5		5		5		5		5		5	
1/4	154,707	1/4	169,714	1/4	184,692	1/4	199,654	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,020	1/2	170,027	1/2	185,004	1/2	199,965	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,333	3/4	170,339	3/4	185,316	3/4	200,275	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,645	6	170,652	6	185,628	6	200,586	6		6		6		6		6		6	
1/4	155,958	1/4	170,964	1/4	185,939	1/4	200,896	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,270	1/2	171,277	1/2	186,251	1/2	201,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,583	3/4	171,590	3/4	186,563	3/4	201,515	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,896	7	171,902	7	186,874	7	201,825	7		7		7		7		7		7	
1/4	157,208	1/4	172,215	1/4	187,186	1/4	202,134	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,521	1/2	172,528	1/2	187,498	1/2	202,444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,834	3/4	172,840	3/4	187,810	3/4	202,753	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,146	8	173,153	8	188,121	8	203,063	8		8		8		8		8		8	
1/4	158,459	1/4	173,466	1/4	188,433	1/4	203,373	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,772	1/2	173,778	1/2	188,745	1/2	203,683	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,084	3/4	174,091	3/4	189,057	3/4	203,992	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,397	9	174,404	9	189,368	9	204,302	9		9		9		9		9		9	
1/4	159,709	1/4	174,716	1/4	189,680	1/4	204,612	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,022	1/2	175,028	1/2	189,992	1/2	204,921	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,335	3/4	175,340	3/4	190,303	3/4	205,231	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,647	10	175,652	10	190,615	10	205,541	10		10		10		10		10		10	
1/4	160,960	1/4	175,964	1/4	190,927	1/4	205,850	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,273	1/2	176,276	1/2	191,239	1/2	206,159	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,585	3/4	176,587	3/4	191,550	3/4	206,468	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,898	11	176,899	11	191,862	11	206,777	11		11		11		11		11		11	
1/4	162,211	1/4	177,211	1/4	192,174	1/4	207,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,523	1/2	177,523	1/2	192,486	1/2	207,389	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,836	3/4	177,834	3/4	192,797	3/4	207,694	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

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



# BARGE "HFL 3008"

## 1 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	386	0	13,260	0	28,196	0	43,229	0	58,257	0	73,287	0	88,320	0	103,353	0	118,381	0	133,408
1/4	563	1/4	13,562	1/4	28,510	1/4	43,542	1/4	58,570	1/4	73,600	1/4	88,633	1/4	103,666	1/4	118,694	1/4	133,721
1/2	740	1/2	13,864	1/2	28,823	1/2	43,855	1/2	58,883	1/2	73,913	1/2	88,946	1/2	103,979	1/2	119,007	1/2	134,034
3/4	917	3/4	14,165	3/4	29,136	3/4	44,168	3/4	59,196	3/4	74,227	3/4	89,259	3/4	104,292	3/4	119,320	3/4	134,347
1	1,094	1	14,467	1	29,449	1	44,482	1	59,509	1	74,540	1	89,573	1	104,606	1	119,633	1	134,660
1/4	1,333	1/4	14,772	1/4	29,762	1/4	44,795	1/4	59,822	1/4	74,853	1/4	89,886	1/4	104,919	1/4	119,946	1/4	134,973
1/2	1,571	1/2	15,078	1/2	30,075	1/2	45,108	1/2	60,135	1/2	75,166	1/2	90,199	1/2	105,232	1/2	120,259	1/2	135,286
3/4	1,810	3/4	15,383	3/4	30,389	3/4	45,421	3/4	60,448	3/4	75,479	3/4	90,512	3/4	105,545	3/4	120,572	3/4	135,599
2	2,049	2	15,689	2	30,702	2	45,734	2	60,761	2	75,792	2	90,825	2	105,858	2	120,886	2	135,912
1/4	2,311	1/4	15,998	1/4	31,015	1/4	46,047	1/4	61,074	1/4	76,106	1/4	91,139	1/4	106,172	1/4	121,199	1/4	136,225
1/2	2,573	1/2	16,307	1/2	31,328	1/2	46,361	1/2	61,387	1/2	76,419	1/2	91,452	1/2	106,485	1/2	121,512	1/2	136,538
3/4	2,835	3/4	16,617	3/4	31,641	3/4	46,674	3/4	61,700	3/4	76,732	3/4	91,765	3/4	106,798	3/4	121,825	3/4	136,851
3	3,097	3	16,926	3	31,954	3	46,987	3	62,013	3	77,045	3	92,078	3	107,111	3	122,138	3	137,164
1/4	3,364	1/4	17,238	1/4	32,268	1/4	47,300	1/4	62,326	1/4	77,358	1/4	92,391	1/4	107,424	1/4	122,451	1/4	137,477
1/2	3,631	1/2	17,550	1/2	32,581	1/2	47,613	1/2	62,639	1/2	77,672	1/2	92,705	1/2	107,737	1/2	122,764	1/2	137,790
3/4	3,897	3/4	17,863	3/4	32,894	3/4	47,926	3/4	62,952	3/4	77,985	3/4	93,018	3/4	108,050	3/4	123,077	3/4	138,103
4	4,164	4	18,175	4	33,207	4	48,240	4	63,265	4	78,298	4	93,331	4	108,364	4	123,390	4	138,416
1/4	4,435	1/4	18,488	1/4	33,520	1/4	48,553	1/4	63,578	1/4	78,611	1/4	93,644	1/4	108,677	1/4	123,703	1/4	138,729
1/2	4,706	1/2	18,801	1/2	33,834	1/2	48,866	1/2	63,891	1/2	78,924	1/2	93,957	1/2	108,990	1/2	124,016	1/2	139,042
3/4	4,976	3/4	19,114	3/4	34,147	3/4	49,179	3/4	64,205	3/4	79,238	3/4	94,270	3/4	109,303	3/4	124,329	3/4	139,356
5	5,247	5	19,427	5	34,460	5	49,492	5	64,518	5	79,551	5	94,584	5	109,616	5	124,642	5	139,669
1/4	5,522	1/4	19,741	1/4	34,773	1/4	49,806	1/4	64,831	1/4	79,864	1/4	94,897	1/4	109,929	1/4	124,955	1/4	139,982
1/2	5,796	1/2	20,054	1/2	35,086	1/2	50,119	1/2	65,144	1/2	80,177	1/2	95,210	1/2	110,242	1/2	125,268	1/2	140,295
3/4	6,071	3/4	20,367	3/4	35,399	3/4	50,432	3/4	65,457	3/4	80,490	3/4	95,523	3/4	110,555	3/4	125,581	3/4	140,608
6	6,345	6	20,680	6	35,713	6	50,745	6	65,771	6	80,803	6	95,836	6	110,868	6	125,894	6	140,921
1/4	6,624	1/4	20,993	1/4	36,026	1/4	51,058	1/4	66,084	1/4	81,117	1/4	96,150	1/4	111,181	1/4	126,207	1/4	141,234
1/2	6,902	1/2	21,306	1/2	36,339	1/2	51,371	1/2	66,397	1/2	81,430	1/2	96,463	1/2	111,494	1/2	126,520	1/2	141,547
3/4	7,181	3/4	21,620	3/4	36,652	3/4	51,684	3/4	66,710	3/4	81,743	3/4	96,776	3/4	111,807	3/4	126,833	3/4	141,860
7	7,459	7	21,933	7	36,965	7	51,998	7	67,023	7	82,056	7	97,089	7	112,120	7	127,147	7	142,173
1/4	7,742	1/4	22,246	1/4	37,278	1/4	52,311	1/4	67,336	1/4	82,369	1/4	97,402	1/4	112,433	1/4	127,460	1/4	142,486
1/2	8,024	1/2	22,559	1/2	37,592	1/2	52,624	1/2	67,650	1/2	82,683	1/2	97,715	1/2	112,746	1/2	127,773	1/2	142,799
3/4	8,306	3/4	22,872	3/4	37,905	3/4	52,937	3/4	67,963	3/4	82,996	3/4	98,029	3/4	113,059	3/4	128,086	3/4	143,112
8	8,589	8	23,186	8	38,218	8	53,250	8	68,276	8	83,309	8	98,342	8	113,372	8	128,399	8	143,425
1/4	8,875	1/4	23,499	1/4	38,531	1/4	53,563	1/4	68,589	1/4	83,622	1/4	98,655	1/4	113,685	1/4	128,712	1/4	143,738
1/2	9,161	1/2	23,812	1/2	38,844	1/2	53,875	1/2	68,902	1/2	83,935	1/2	98,968	1/2	113,998	1/2	129,025	1/2	144,051
3/4	9,447	3/4	24,125	3/4	39,158	3/4	54,188	3/4	69,216	3/4	84,249	3/4	99,281	3/4	114,311	3/4	129,338	3/4	144,364
9	9,733	9	24,438	9	39,471	9	54,501	9	69,529	9	84,562	9	99,595	9	114,625	9	129,651	9	144,677
1/4	10,024	1/4	24,751	1/4	39,784	1/4	54,814	1/4	69,842	1/4	84,875	1/4	99,908	1/4	114,938	1/4	129,964	1/4	144,991
1/2	10,314	1/2	25,065	1/2	40,097	1/2	55,127	1/2	70,155	1/2	85,188	1/2	100,221	1/2	115,251	1/2	130,277	1/2	145,304
3/4	10,604	3/4	25,378	3/4	40,410	3/4	55,440	3/4	70,468	3/4	85,501	3/4	100,534	3/4	115,564	3/4	130,590	3/4	145,617
10	10,894	10	25,691	10	40,723	10	55,753	10	70,782	10	85,814	10	100,847	10	115,877	10	130,903	10	145,930
1/4	11,188	1/4	26,004	1/4	41,037	1/4	56,066	1/4	71,095	1/4	86,128	1/4	101,161	1/4	116,190	1/4	131,216	1/4	146,243
1/2	11,481	1/2	26,317	1/2	41,350	1/2	56,379	1/2	71,408	1/2	86,441	1/2	101,474	1/2	116,503	1/2	131,529	1/2	146,556
3/4	11,775	3/4	26,630	3/4	41,663	3/4	56,692	3/4	71,721	3/4	86,754	3/4	101,787	3/4	116,816	3/4	131,842	3/4	146,869
11	12,069	11	26,944	11	41,976	11	57,005	11	72,034	11	87,067	11	102,100	11	117,129	11	132,155	11	147,182
1/4	12,367	1/4	27,257	1/4	42,289	1/4	57,318	1/4	72,347	1/4	87,380	1/4	102,413	1/4	117,442	1/4	132,468	1/4	147,495
1/2	12,665	1/2	27,570	1/2	42,602	1/2	57,631	1/2	72,661	1/2	87,694	1/2	102,726	1/2	117,755	1/2	132,781	1/2	147,808
3/4	12,963	3/4	27,883	3/4	42,916	3/4	57,944	3/4	72,974	3/4	88,007	3/4	103,040	3/4	118,068	3/4	133,094	3/4	148,121

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 "HFL 3008"

## 1 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	148,434	0	163,461	0	178,478	0	193,461	0	208,372	0		0		0		0		0	
1/4	148,747	1/4	163,774	1/4	178,790	1/4	193,773	1/4	208,652	1/4		1/4		1/4		1/4		1/4	
1/2	149,060	1/2	164,087	1/2	179,103	1/2	194,085	1/2	208,932	1/2		1/2		1/2		1/2		1/2	
3/4	149,373	3/4	164,400	3/4	179,415	3/4	194,398	3/4	209,212	3/4		3/4		3/4		3/4		3/4	
1	149,686	1	164,713	1	179,727	1	194,710	1	209,493	1		1		1		1		1	
1/4	149,999	1/4	165,026	1/4	180,039	1/4	195,022	1/4	209,724	1/4		1/4		1/4		1/4		1/4	
1/2	150,312	1/2	165,339	1/2	180,351	1/2	195,334	1/2	209,956	1/2		1/2		1/2		1/2		1/2	
3/4	150,626	3/4	165,652	3/4	180,663	3/4	195,646	3/4	210,188	3/4		3/4		3/4		3/4		3/4	
2	150,939	2	165,965	2	180,975	2	195,958	2	210,420	2		2		2		2		2	
1/4	151,252	1/4	166,278	1/4	181,288	1/4	196,270	1/4	210,600	1/4		1/4		1/4		1/4		1/4	
1/2	151,565	1/2	166,591	1/2	181,600	1/2	196,583	1/2	210,779	1/2		1/2		1/2		1/2		1/2	
3/4	151,878	3/4	166,904	3/4	181,912	3/4	196,895	3/4	210,959	3/4		3/4		3/4		3/4		3/4	
3	152,191	3	167,217	3	182,224	3	197,207	3	211,138	3		3		3		3		3	
1/4	152,504	1/4	167,531	1/4	182,536	1/4	197,519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,817	1/2	167,844	1/2	182,848	1/2	197,831	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,130	3/4	168,157	3/4	183,160	3/4	198,143	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,443	4	168,470	4	183,473	4	198,455	4		4		4		4		4		4	
1/4	153,756	1/4	168,783	1/4	183,785	1/4	198,768	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,069	1/2	169,096	1/2	184,097	1/2	199,080	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,382	3/4	169,409	3/4	184,409	3/4	199,392	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,695	5	169,722	5	184,721	5	199,704	5		5		5		5		5		5	
1/4	155,008	1/4	170,035	1/4	185,033	1/4	200,015	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,321	1/2	170,348	1/2	185,345	1/2	200,326	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,634	3/4	170,661	3/4	185,658	3/4	200,637	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,947	6	170,974	6	185,970	6	200,948	6		6		6		6		6		6	
1/4	156,261	1/4	171,287	1/4	186,282	1/4	201,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,574	1/2	171,600	1/2	186,594	1/2	201,568	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,887	3/4	171,913	3/4	186,906	3/4	201,878	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,200	7	172,226	7	187,218	7	202,188	7		7		7		7		7		7	
1/4	157,513	1/4	172,539	1/4	187,530	1/4	202,498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,826	1/2	172,852	1/2	187,843	1/2	202,808	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,139	3/4	173,166	3/4	188,155	3/4	203,118	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,452	8	173,479	8	188,467	8	203,429	8		8		8		8		8		8	
1/4	158,765	1/4	173,792	1/4	188,779	1/4	203,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,078	1/2	174,105	1/2	189,091	1/2	204,049	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,391	3/4	174,418	3/4	189,403	3/4	204,359	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,704	9	174,731	9	189,715	9	204,669	9		9		9		9		9		9	
1/4	160,017	1/4	175,043	1/4	190,028	1/4	204,979	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,330	1/2	175,356	1/2	190,340	1/2	205,289	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,643	3/4	175,669	3/4	190,652	3/4	205,599	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,956	10	175,981	10	190,964	10	205,909	10		10		10		10		10		10	
1/4	161,269	1/4	176,293	1/4	191,276	1/4	206,219	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,582	1/2	176,605	1/2	191,588	1/2	206,529	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,896	3/4	176,918	3/4	191,900	3/4	206,838	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,209	11	177,230	11	192,213	11	207,148	11		11		11		11		11		11	
1/4	162,522	1/4	177,542	1/4	192,525	1/4	207,454	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,835	1/2	177,854	1/2	192,837	1/2	207,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,148	3/4	178,166	3/4	193,149	3/4	208,066	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

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



# BARGE "HFL 3008"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,712	0	30,790	0	45,496	0	59,996	0	74,865	0	89,946	0	105,026	0	120,102	0	135,175
1/4	1,268	1/4	16,026	1/4	31,104	1/4	45,798	1/4	60,299	1/4	75,179	1/4	90,260	1/4	105,340	1/4	120,416	1/4	135,489
1/2	1,504	1/2	16,340	1/2	31,418	1/2	46,099	1/2	60,601	1/2	75,493	1/2	90,574	1/2	105,655	1/2	120,730	1/2	135,803
3/4	1,739	3/4	16,654	3/4	31,732	3/4	46,400	3/4	60,904	3/4	75,808	3/4	90,888	3/4	105,969	3/4	121,044	3/4	136,117
1	1,975	1	16,968	1	32,046	1	46,702	1	61,206	1	76,122	1	91,202	1	106,283	1	121,358	1	136,431
1/4	2,269	1/4	17,283	1/4	32,360	1/4	47,003	1/4	61,508	1/4	76,436	1/4	91,517	1/4	106,597	1/4	121,672	1/4	136,745
1/2	2,562	1/2	17,597	1/2	32,675	1/2	47,305	1/2	61,811	1/2	76,750	1/2	91,831	1/2	106,911	1/2	121,986	1/2	137,059
3/4	2,856	3/4	17,911	3/4	32,989	3/4	47,606	3/4	62,113	3/4	77,064	3/4	92,145	3/4	107,226	3/4	122,300	3/4	137,373
2	3,150	2	18,225	2	33,303	2	47,908	2	62,416	2	77,378	2	92,459	2	107,540	2	122,614	2	137,687
1/4	3,463	1/4	18,539	1/4	33,617	1/4	48,209	1/4	62,718	1/4	77,693	1/4	92,773	1/4	107,854	1/4	122,928	1/4	138,001
1/2	3,776	1/2	18,853	1/2	33,931	1/2	48,511	1/2	63,020	1/2	78,007	1/2	93,087	1/2	108,168	1/2	123,242	1/2	138,315
3/4	4,090	3/4	19,168	3/4	34,246	3/4	48,813	3/4	63,323	3/4	78,321	3/4	93,402	3/4	108,482	3/4	123,556	3/4	138,629
3	4,403	3	19,482	3	34,560	3	49,114	3	63,625	3	78,635	3	93,716	3	108,796	3	123,870	3	138,943
1/4	4,717	1/4	19,796	1/4	34,874	1/4	49,416	1/4	63,928	1/4	78,949	1/4	94,030	1/4	109,111	1/4	124,184	1/4	139,257
1/2	5,031	1/2	20,110	1/2	35,188	1/2	49,717	1/2	64,230	1/2	79,264	1/2	94,344	1/2	109,425	1/2	124,498	1/2	139,571
3/4	5,344	3/4	20,424	3/4	35,502	3/4	50,019	3/4	64,532	3/4	79,578	3/4	94,658	3/4	109,739	3/4	124,812	3/4	139,885
4	5,658	4	20,738	4	35,816	4	50,321	4	64,835	4	79,892	4	94,973	4	110,053	4	125,126	4	140,199
1/4	5,973	1/4	21,053	1/4	36,125	1/4	50,623	1/4	65,143	1/4	80,206	1/4	95,287	1/4	110,367	1/4	125,440	1/4	140,513
1/2	6,287	1/2	21,367	1/2	36,433	1/2	50,925	1/2	65,451	1/2	80,520	1/2	95,601	1/2	110,681	1/2	125,754	1/2	140,827
3/4	6,601	3/4	21,681	3/4	36,741	3/4	51,227	3/4	65,760	3/4	80,834	3/4	95,915	3/4	110,995	3/4	126,068	3/4	141,141
5	6,915	5	21,995	5	37,050	5	51,529	5	66,068	5	81,149	5	96,229	5	111,309	5	126,382	5	141,455
1/4	7,229	1/4	22,309	1/4	37,352	1/4	51,831	1/4	66,382	1/4	81,463	1/4	96,543	1/4	111,623	1/4	126,696	1/4	141,769
1/2	7,543	1/2	22,623	1/2	37,654	1/2	52,134	1/2	66,696	1/2	81,777	1/2	96,858	1/2	111,937	1/2	127,010	1/2	142,083
3/4	7,857	3/4	22,938	3/4	37,957	3/4	52,436	3/4	67,010	3/4	82,091	3/4	97,172	3/4	112,251	3/4	127,324	3/4	142,397
6	8,172	6	23,252	6	38,259	6	52,739	6	67,325	6	82,405	6	97,486	6	112,565	6	127,638	6	142,711
1/4	8,486	1/4	23,566	1/4	38,561	1/4	53,041	1/4	67,639	1/4	82,720	1/4	97,800	1/4	112,879	1/4	127,952	1/4	143,025
1/2	8,800	1/2	23,880	1/2	38,863	1/2	53,343	1/2	67,953	1/2	83,034	1/2	98,114	1/2	113,193	1/2	128,266	1/2	143,339
3/4	9,114	3/4	24,194	3/4	39,165	3/4	53,646	3/4	68,267	3/4	83,348	3/4	98,429	3/4	113,507	3/4	128,580	3/4	143,653
7	9,428	7	24,509	7	39,467	7	53,948	7	68,581	7	83,662	7	98,743	7	113,821	7	128,894	7	143,967
1/4	9,742	1/4	24,823	1/4	39,768	1/4	54,251	1/4	68,896	1/4	83,976	1/4	99,057	1/4	114,135	1/4	129,208	1/4	144,281
1/2	10,057	1/2	25,137	1/2	40,070	1/2	54,553	1/2	69,210	1/2	84,290	1/2	99,371	1/2	114,449	1/2	129,522	1/2	144,595
3/4	10,371	3/4	25,451	3/4	40,371	3/4	54,855	3/4	69,524	3/4	84,605	3/4	99,685	3/4	114,763	3/4	129,836	3/4	144,909
8	10,685	8	25,765	8	40,673	8	55,158	8	69,838	8	84,919	8	99,999	8	115,077	8	130,150	8	145,223
1/4	10,999	1/4	26,079	1/4	40,974	1/4	55,460	1/4	70,152	1/4	85,233	1/4	100,314	1/4	115,391	1/4	130,464	1/4	145,537
1/2	11,313	1/2	26,393	1/2	41,276	1/2	55,763	1/2	70,466	1/2	85,547	1/2	100,628	1/2	115,705	1/2	130,778	1/2	145,852
3/4	11,628	3/4	26,708	3/4	41,577	3/4	56,065	3/4	70,781	3/4	85,861	3/4	100,942	3/4	116,019	3/4	131,092	3/4	146,166
9	11,942	9	27,022	9	41,879	9	56,368	9	71,095	9	86,175	9	101,256	9	116,333	9	131,406	9	146,480
1/4	12,256	1/4	27,336	1/4	42,180	1/4	56,670	1/4	71,409	1/4	86,490	1/4	101,570	1/4	116,647	1/4	131,720	1/4	146,794
1/2	12,570	1/2	27,650	1/2	42,481	1/2	56,972	1/2	71,723	1/2	86,804	1/2	101,885	1/2	116,961	1/2	132,035	1/2	147,108
3/4	12,884	3/4	27,963	3/4	42,783	3/4	57,275	3/4	72,037	3/4	87,118	3/4	102,199	3/4	117,275	3/4	132,349	3/4	147,422
10	13,198	10	28,277	10	43,084	10	57,577	10	72,352	10	87,432	10	102,513	10	117,589	10	132,663	10	147,736
1/4	13,513	1/4	28,591	1/4	43,386	1/4	57,880	1/4	72,666	1/4	87,746	1/4	102,827	1/4	117,903	1/4	132,977	1/4	148,050
1/2	13,827	1/2	28,905	1/2	43,687	1/2	58,182	1/2	72,980	1/2	88,061	1/2	103,141	1/2	118,217	1/2	133,291	1/2	148,364
3/4	14,141	3/4	29,219	3/4	43,989	3/4	58,484	3/4	73,294	3/4	88,375	3/4	103,455	3/4	118,532	3/4	133,605	3/4	148,678
11	14,455	11	29,533	11	44,290	11	58,787	11	73,608	11	88,689	11	103,770	11	118,846	11	133,919	11	148,992
1/4	14,769	1/4	29,847	1/4	44,592	1/4	59,089	1/4	73,922	1/4	89,003	1/4	104,084	1/4	119,160	1/4	134,233	1/4	149,306
1/2	15,083	1/2	30,161	1/2	44,893	1/2	59,392	1/2	74,237	1/2	89,317	1/2	104,398	1/2	119,474	1/2	134,547	1/2	149,620
3/4	15,398	3/4	30,476	3/4	45,195	3/4	59,694	3/4	74,551	3/4	89,631	3/4	104,712	3/4	119,788	3/4	134,861	3/4	149,934

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 "HFL 3008"

## 2 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	150,248	0	165,321	0	180,383	0	195,405	0	210,330	0		0		0		0		0	
1/4	150,562	1/4	165,635	1/4	180,696	1/4	195,718	1/4	210,610	1/4		1/4		1/4		1/4		1/4	
1/2	150,876	1/2	165,949	1/2	181,009	1/2	196,031	1/2	210,890	1/2		1/2		1/2		1/2		1/2	
3/4	151,190	3/4	166,263	3/4	181,322	3/4	196,344	3/4	211,170	3/4		3/4		3/4		3/4		3/4	
1	151,504	1	166,577	1	181,635	1	196,657	1	211,450	1		1		1		1		1	
1/4	151,818	1/4	166,891	1/4	181,948	1/4	196,970	1/4	211,682	1/4		1/4		1/4		1/4		1/4	
1/2	152,132	1/2	167,205	1/2	182,261	1/2	197,283	1/2	211,913	1/2		1/2		1/2		1/2		1/2	
3/4	152,446	3/4	167,519	3/4	182,574	3/4	197,596	3/4	212,145	3/4		3/4		3/4		3/4		3/4	
2	152,760	2	167,833	2	182,887	2	197,909	2	212,376	2		2		2		2		2	
1/4	153,074	1/4	168,147	1/4	183,200	1/4	198,222	1/4	212,555	1/4		1/4		1/4		1/4		1/4	
1/2	153,388	1/2	168,461	1/2	183,513	1/2	198,535	1/2	212,735	1/2		1/2		1/2		1/2		1/2	
3/4	153,702	3/4	168,775	3/4	183,826	3/4	198,848	3/4	212,914	3/4		3/4		3/4		3/4		3/4	
3	154,016	3	169,089	3	184,139	3	199,161	3	213,093	3		3		3		3		3	
1/4	154,330	1/4	169,403	1/4	184,452	1/4	199,474	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,644	1/2	169,717	1/2	184,765	1/2	199,787	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,958	3/4	170,031	3/4	185,078	3/4	200,100	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,272	4	170,345	4	185,391	4	200,413	4		4		4		4		4		4	
1/4	155,586	1/4	170,659	1/4	185,704	1/4	200,726	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,900	1/2	170,973	1/2	186,017	1/2	201,039	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,214	3/4	171,287	3/4	186,330	3/4	201,351	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,528	5	171,601	5	186,643	5	201,664	5		5		5		5		5		5	
1/4	156,842	1/4	171,915	1/4	186,955	1/4	201,976	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,156	1/2	172,229	1/2	187,268	1/2	202,287	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,470	3/4	172,543	3/4	187,581	3/4	202,599	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,784	6	172,857	6	187,894	6	202,910	6		6		6		6		6		6	
1/4	158,098	1/4	173,172	1/4	188,207	1/4	203,220	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,412	1/2	173,486	1/2	188,520	1/2	203,530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,726	3/4	173,800	3/4	188,833	3/4	203,840	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,040	7	174,114	7	189,146	7	204,150	7		7		7		7		7		7	
1/4	159,354	1/4	174,428	1/4	189,459	1/4	204,459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,669	1/2	174,742	1/2	189,772	1/2	204,769	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,983	3/4	175,056	3/4	190,085	3/4	205,079	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,297	8	175,370	8	190,398	8	205,389	8		8		8		8		8		8	
1/4	160,611	1/4	175,684	1/4	190,711	1/4	205,699	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,925	1/2	175,998	1/2	191,024	1/2	206,009	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,239	3/4	176,312	3/4	191,337	3/4	206,319	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,553	9	176,626	9	191,650	9	206,629	9		9		9		9		9		9	
1/4	161,867	1/4	176,939	1/4	191,963	1/4	206,939	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,181	1/2	177,253	1/2	192,276	1/2	207,249	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,495	3/4	177,566	3/4	192,589	3/4	207,559	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,809	10	177,880	10	192,902	10	207,869	10		10		10		10		10		10	
1/4	163,123	1/4	178,193	1/4	193,215	1/4	208,178	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,437	1/2	178,506	1/2	193,528	1/2	208,488	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,751	3/4	178,819	3/4	193,841	3/4	208,798	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,065	11	179,132	11	194,153	11	209,107	11		11		11		11		11		11	
1/4	164,379	1/4	179,444	1/4	194,466	1/4	209,413	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,693	1/2	179,757	1/2	194,779	1/2	209,719	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,007	3/4	180,070	3/4	195,092	3/4	210,024	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HFL 3008"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,709	0	30,784	0	45,842	0	60,904	0	75,982	0	91,059	0	106,137	0	121,209	0	136,279
1/4	1,268	1/4	16,023	1/4	31,099	1/4	46,155	1/4	61,218	1/4	76,296	1/4	91,374	1/4	106,451	1/4	121,523	1/4	136,593
1/2	1,504	1/2	16,337	1/2	31,413	1/2	46,468	1/2	61,532	1/2	76,610	1/2	91,688	1/2	106,765	1/2	121,837	1/2	136,907
3/4	1,739	3/4	16,651	3/4	31,727	3/4	46,781	3/4	61,847	3/4	76,924	3/4	92,002	3/4	107,079	3/4	122,151	3/4	137,221
1	1,975	1	16,966	1	32,041	1	47,094	1	62,161	1	77,238	1	92,316	1	107,394	1	122,465	1	137,535
1/4	2,268	1/4	17,280	1/4	32,355	1/4	47,408	1/4	62,475	1/4	77,552	1/4	92,630	1/4	107,708	1/4	122,779	1/4	137,849
1/2	2,562	1/2	17,594	1/2	32,669	1/2	47,721	1/2	62,789	1/2	77,867	1/2	92,944	1/2	108,022	1/2	123,093	1/2	138,163
3/4	2,856	3/4	17,908	3/4	32,983	3/4	48,034	3/4	63,103	3/4	78,181	3/4	93,258	3/4	108,336	3/4	123,407	3/4	138,477
2	3,150	2	18,222	2	33,297	2	48,347	2	63,417	2	78,495	2	93,572	2	108,650	2	123,721	2	138,791
1/4	3,463	1/4	18,536	1/4	33,611	1/4	48,660	1/4	63,731	1/4	78,809	1/4	93,887	1/4	108,964	1/4	124,035	1/4	139,105
1/2	3,776	1/2	18,850	1/2	33,926	1/2	48,974	1/2	64,045	1/2	79,123	1/2	94,201	1/2	109,278	1/2	124,349	1/2	139,419
3/4	4,089	3/4	19,164	3/4	34,240	3/4	49,287	3/4	64,360	3/4	79,437	3/4	94,515	3/4	109,592	3/4	124,663	3/4	139,733
3	4,402	3	19,479	3	34,554	3	49,600	3	64,674	3	79,751	3	94,829	3	109,906	3	124,977	3	140,047
1/4	4,716	1/4	19,793	1/4	34,868	1/4	49,914	1/4	64,988	1/4	80,065	1/4	95,143	1/4	110,221	1/4	125,291	1/4	140,361
1/2	5,030	1/2	20,107	1/2	35,182	1/2	50,227	1/2	65,302	1/2	80,379	1/2	95,457	1/2	110,535	1/2	125,605	1/2	140,675
3/4	5,344	3/4	20,421	3/4	35,496	3/4	50,540	3/4	65,616	3/4	80,694	3/4	95,771	3/4	110,849	3/4	125,919	3/4	140,989
4	5,658	4	20,735	4	35,810	4	50,854	4	65,930	4	81,008	4	96,085	4	111,163	4	126,233	4	141,303
1/4	5,972	1/4	21,049	1/4	36,124	1/4	51,168	1/4	66,244	1/4	81,322	1/4	96,399	1/4	111,477	1/4	126,547	1/4	141,617
1/2	6,286	1/2	21,363	1/2	36,439	1/2	51,481	1/2	66,558	1/2	81,636	1/2	96,714	1/2	111,791	1/2	126,861	1/2	141,931
3/4	6,600	3/4	21,677	3/4	36,753	3/4	51,795	3/4	66,872	3/4	81,950	3/4	97,028	3/4	112,105	3/4	127,175	3/4	142,245
5	6,914	5	21,991	5	37,067	5	52,109	5	67,187	5	82,264	5	97,342	5	112,418	5	127,489	5	142,559
1/4	7,228	1/4	22,306	1/4	37,381	1/4	52,423	1/4	67,501	1/4	82,578	1/4	97,656	1/4	112,732	1/4	127,803	1/4	142,873
1/2	7,542	1/2	22,620	1/2	37,695	1/2	52,737	1/2	67,815	1/2	82,892	1/2	97,970	1/2	113,046	1/2	128,116	1/2	143,187
3/4	7,856	3/4	22,934	3/4	38,009	3/4	53,051	3/4	68,129	3/4	83,207	3/4	98,284	3/4	113,360	3/4	128,430	3/4	143,500
6	8,170	6	23,248	6	38,323	6	53,365	6	68,443	6	83,521	6	98,598	6	113,674	6	128,744	6	143,814
1/4	8,484	1/4	23,562	1/4	38,637	1/4	53,680	1/4	68,757	1/4	83,835	1/4	98,912	1/4	113,988	1/4	129,058	1/4	144,128
1/2	8,799	1/2	23,876	1/2	38,951	1/2	53,994	1/2	69,071	1/2	84,149	1/2	99,227	1/2	114,302	1/2	129,372	1/2	144,442
3/4	9,113	3/4	24,190	3/4	39,264	3/4	54,308	3/4	69,385	3/4	84,463	3/4	99,541	3/4	114,616	3/4	129,686	3/4	144,756
7	9,427	7	24,504	7	39,578	7	54,622	7	69,700	7	84,777	7	99,855	7	114,930	7	130,000	7	145,070
1/4	9,741	1/4	24,819	1/4	39,891	1/4	54,936	1/4	70,014	1/4	85,091	1/4	100,169	1/4	115,244	1/4	130,314	1/4	145,384
1/2	10,055	1/2	25,133	1/2	40,204	1/2	55,250	1/2	70,328	1/2	85,405	1/2	100,483	1/2	115,558	1/2	130,628	1/2	145,698
3/4	10,369	3/4	25,447	3/4	40,517	3/4	55,564	3/4	70,642	3/4	85,719	3/4	100,797	3/4	115,872	3/4	130,942	3/4	146,012
8	10,683	8	25,761	8	40,831	8	55,878	8	70,956	8	86,034	8	101,111	8	116,186	8	131,256	8	146,326
1/4	10,997	1/4	26,075	1/4	41,144	1/4	56,192	1/4	71,270	1/4	86,348	1/4	101,425	1/4	116,500	1/4	131,570	1/4	146,640
1/2	11,312	1/2	26,389	1/2	41,457	1/2	56,507	1/2	71,584	1/2	86,662	1/2	101,739	1/2	116,814	1/2	131,884	1/2	146,954
3/4	11,626	3/4	26,703	3/4	41,770	3/4	56,821	3/4	71,898	3/4	86,976	3/4	102,054	3/4	117,128	3/4	132,198	3/4	147,268
9	11,940	9	27,017	9	42,083	9	57,135	9	72,212	9	87,290	9	102,368	9	117,442	9	132,512	9	147,582
1/4	12,254	1/4	27,331	1/4	42,397	1/4	57,449	1/4	72,527	1/4	87,604	1/4	102,682	1/4	117,756	1/4	132,826	1/4	147,896
1/2	12,568	1/2	27,645	1/2	42,710	1/2	57,763	1/2	72,841	1/2	87,918	1/2	102,996	1/2	118,070	1/2	133,140	1/2	148,210
3/4	12,882	3/4	27,959	3/4	43,023	3/4	58,077	3/4	73,155	3/4	88,232	3/4	103,310	3/4	118,384	3/4	133,454	3/4	148,524
10	13,196	10	28,273	10	43,336	10	58,391	10	73,469	10	88,547	10	103,624	10	118,698	10	133,768	10	148,838
1/4	13,510	1/4	28,587	1/4	43,649	1/4	58,705	1/4	73,783	1/4	88,861	1/4	103,938	1/4	119,012	1/4	134,082	1/4	149,152
1/2	13,824	1/2	28,900	1/2	43,962	1/2	59,020	1/2	74,097	1/2	89,175	1/2	104,252	1/2	119,326	1/2	134,396	1/2	149,466
3/4	14,139	3/4	29,214	3/4	44,276	3/4	59,334	3/4	74,411	3/4	89,489	3/4	104,567	3/4	119,640	3/4	134,710	3/4	149,780
11	14,453	11	29,528	11	44,589	11	59,648	11	74,725	11	89,803	11	104,881	11	119,954	11	135,024	11	150,094
1/4	14,767	1/4	29,842	1/4	44,902	1/4	59,962	1/4	75,039	1/4	90,117	1/4	105,195	1/4	120,267	1/4	135,338	1/4	150,408
1/2	15,081	1/2	30,156	1/2	45,215	1/2	60,276	1/2	75,354	1/2	90,431	1/2	105,509	1/2	120,581	1/2	135,651	1/2	150,722
3/4	15,395	3/4	30,470	3/4	45,528	3/4	60,590	3/4	75,668	3/4	90,745	3/4	105,823	3/4	120,895	3/4	135,965	3/4	151,036

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 "HFL 3008"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 04 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	151,349	0	166,420	0	181,479	0	196,498	0	211,420	0		0		0		0		0	
1/4	151,663	1/4	166,733	1/4	181,792	1/4	196,811	1/4	211,700	1/4		1/4		1/4		1/4		1/4	
1/2	151,977	1/2	167,047	1/2	182,105	1/2	197,124	1/2	211,980	1/2		1/2		1/2		1/2		1/2	
3/4	152,291	3/4	167,361	3/4	182,418	3/4	197,437	3/4	212,260	3/4		3/4		3/4		3/4		3/4	
1	152,605	1	167,675	1	182,731	1	197,749	1	212,540	1		1		1		1		1	
1/4	152,919	1/4	167,989	1/4	183,043	1/4	198,062	1/4	212,771	1/4		1/4		1/4		1/4		1/4	
1/2	153,233	1/2	168,303	1/2	183,356	1/2	198,375	1/2	213,003	1/2		1/2		1/2		1/2		1/2	
3/4	153,547	3/4	168,617	3/4	183,669	3/4	198,688	3/4	213,234	3/4		3/4		3/4		3/4		3/4	
2	153,861	2	168,931	2	183,982	2	199,001	2	213,466	2		2		2		2		2	
1/4	154,175	1/4	169,245	1/4	184,295	1/4	199,314	1/4	213,645	1/4		1/4		1/4		1/4		1/4	
1/2	154,489	1/2	169,559	1/2	184,608	1/2	199,627	1/2	213,824	1/2		1/2		1/2		1/2		1/2	
3/4	154,803	3/4	169,873	3/4	184,921	3/4	199,940	3/4	214,003	3/4		3/4		3/4		3/4		3/4	
3	155,117	3	170,187	3	185,234	3	200,253	3	214,182	3		3		3		3		3	
1/4	155,431	1/4	170,501	1/4	185,547	1/4	200,565	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,745	1/2	170,815	1/2	185,859	1/2	200,878	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,059	3/4	171,129	3/4	186,172	3/4	201,191	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,373	4	171,443	4	186,485	4	201,504	4		4		4		4		4		4	
1/4	156,687	1/4	171,757	1/4	186,798	1/4	201,817	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,001	1/2	172,071	1/2	187,111	1/2	202,130	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,315	3/4	172,385	3/4	187,424	3/4	202,443	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,629	5	172,699	5	187,737	5	202,756	5		5		5		5		5		5	
1/4	157,943	1/4	173,013	1/4	188,050	1/4	203,067	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,257	1/2	173,327	1/2	188,363	1/2	203,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,571	3/4	173,641	3/4	188,675	3/4	203,690	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,885	6	173,955	6	188,988	6	204,001	6		6		6		6		6		6	
1/4	159,198	1/4	174,269	1/4	189,301	1/4	204,311	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,512	1/2	174,582	1/2	189,614	1/2	204,621	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,826	3/4	174,896	3/4	189,927	3/4	204,931	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,140	7	175,210	7	190,240	7	205,240	7		7		7		7		7		7	
1/4	160,454	1/4	175,524	1/4	190,553	1/4	205,550	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,768	1/2	175,838	1/2	190,866	1/2	205,860	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,082	3/4	176,152	3/4	191,179	3/4	206,170	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,396	8	176,466	8	191,492	8	206,480	8		8		8		8		8		8	
1/4	161,710	1/4	176,780	1/4	191,804	1/4	206,790	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,024	1/2	177,094	1/2	192,117	1/2	207,100	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,338	3/4	177,408	3/4	192,430	3/4	207,410	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,652	9	177,722	9	192,743	9	207,720	9		9		9		9		9		9	
1/4	162,966	1/4	178,036	1/4	193,056	1/4	208,029	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,280	1/2	178,349	1/2	193,369	1/2	208,339	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,594	3/4	178,662	3/4	193,682	3/4	208,649	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,908	10	178,976	10	193,995	10	208,959	10		10		10		10		10		10	
1/4	164,222	1/4	179,289	1/4	194,308	1/4	209,269	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,536	1/2	179,602	1/2	194,620	1/2	209,578	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,850	3/4	179,914	3/4	194,933	3/4	209,887	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,164	11	180,227	11	195,246	11	210,197	11		11		11		11		11		11	
1/4	165,478	1/4	180,540	1/4	195,559	1/4	210,503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,792	1/2	180,853	1/2	195,872	1/2	210,808	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,106	3/4	181,166	3/4	196,185	3/4	211,114	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

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





# BARGE "HFL 3008"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 04 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,447	0	158,812	0	169,155	0	179,469	0	189,769	0		0		0		0		0	
1/4	148,666	1/4	159,028	1/4	169,370	1/4	179,684	1/4	189,962	1/4		1/4		1/4		1/4		1/4	
1/2	148,886	1/2	159,243	1/2	169,585	1/2	179,899	1/2	190,155	1/2		1/2		1/2		1/2		1/2	
3/4	149,105	3/4	159,459	3/4	169,800	3/4	180,114	3/4	190,347	3/4		3/4		3/4		3/4		3/4	
1	149,324	1	159,675	1	170,015	1	180,329	1	190,540	1		1		1		1		1	
1/4	149,540	1/4	159,890	1/4	170,230	1/4	180,544	1/4	190,700	1/4		1/4		1/4		1/4		1/4	
1/2	149,755	1/2	160,106	1/2	170,444	1/2	180,759	1/2	190,859	1/2		1/2		1/2		1/2		1/2	
3/4	149,971	3/4	160,322	3/4	170,659	3/4	180,974	3/4	191,018	3/4		3/4		3/4		3/4		3/4	
2	150,186	2	160,537	2	170,874	2	181,188	2	191,178	2		2		2		2		2	
1/4	150,402	1/4	160,753	1/4	171,089	1/4	181,403	1/4	191,301	1/4		1/4		1/4		1/4		1/4	
1/2	150,618	1/2	160,968	1/2	171,304	1/2	181,618	1/2	191,425	1/2		1/2		1/2		1/2		1/2	
3/4	150,833	3/4	161,184	3/4	171,519	3/4	181,833	3/4	191,548	3/4		3/4		3/4		3/4		3/4	
3	151,049	3	161,400	3	171,734	3	182,048	3	191,671	3		3		3		3		3	
1/4	151,265	1/4	161,615	1/4	171,949	1/4	182,263	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,480	1/2	161,831	1/2	172,163	1/2	182,478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,696	3/4	162,047	3/4	172,378	3/4	182,693	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,912	4	162,262	4	172,593	4	182,908	4		4		4		4		4		4	
1/4	152,127	1/4	162,478	1/4	172,808	1/4	183,122	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,343	1/2	162,694	1/2	173,023	1/2	183,337	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,558	3/4	162,909	3/4	173,238	3/4	183,552	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,774	5	163,125	5	173,453	5	183,767	5		5		5		5		5		5	
1/4	152,990	1/4	163,340	1/4	173,668	1/4	183,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,205	1/2	163,556	1/2	173,883	1/2	184,197	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,421	3/4	163,772	3/4	174,097	3/4	184,412	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,637	6	163,987	6	174,312	6	184,627	6		6		6		6		6		6	
1/4	153,852	1/4	164,203	1/4	174,527	1/4	184,841	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,068	1/2	164,419	1/2	174,742	1/2	185,056	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,284	3/4	164,634	3/4	174,957	3/4	185,271	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,499	7	164,850	7	175,172	7	185,486	7		7		7		7		7		7	
1/4	154,715	1/4	165,066	1/4	175,387	1/4	185,701	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,931	1/2	165,281	1/2	175,602	1/2	185,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,146	3/4	165,497	3/4	175,816	3/4	186,131	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,362	8	165,713	8	176,031	8	186,346	8		8		8		8		8		8	
1/4	155,577	1/4	165,928	1/4	176,246	1/4	186,561	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,793	1/2	166,144	1/2	176,461	1/2	186,776	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,009	3/4	166,359	3/4	176,676	3/4	186,991	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,224	9	166,575	9	176,891	9	187,206	9		9		9		9		9		9	
1/4	156,440	1/4	166,790	1/4	177,106	1/4	187,421	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,656	1/2	167,006	1/2	177,321	1/2	187,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,871	3/4	167,221	3/4	177,536	3/4	187,851	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,087	10	167,436	10	177,750	10	188,066	10		10		10		10		10		10	
1/4	157,303	1/4	167,651	1/4	177,965	1/4	188,280	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,518	1/2	167,866	1/2	178,180	1/2	188,495	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,734	3/4	168,081	3/4	178,395	3/4	188,709	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,949	11	168,296	11	178,610	11	188,924	11		11		11		11		11		11	
1/4	158,165	1/4	168,511	1/4	178,825	1/4	189,135	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,381	1/2	168,725	1/2	179,040	1/2	189,347	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,596	3/4	168,940	3/4	179,255	3/4	189,558	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

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





# BARGE "HFL 3008"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/13/2017 SW  
CALCULATED: 01/14/2017 CL  
PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2017

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



# BARGE "HFL 3008"

# PORT SLOP TANK

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE 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: 01/13/2017 SW  
 CALCULATED: 01/14/2017 CL  
 PRINTED: 01/16/2017 JS

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 01/2017

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HFL 3008"

# STBD SLOP TANK

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE 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	

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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 "HFL 3008"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 3/4"

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