



BARGE "HFL 607"

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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 284'-09"

January 30, 2012

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 607"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	991	0	15,072	0	29,537	0	44,002	0	58,406	0	72,829	0	87,295	0	101,761	0	116,222	0	130,682
1/4	1,217	1/4	15,373	1/4	29,838	1/4	44,304	1/4	58,705	1/4	73,131	1/4	87,597	1/4	102,062	1/4	116,524	1/4	130,983
1/2	1,443	1/2	15,674	1/2	30,140	1/2	44,605	1/2	59,004	1/2	73,432	1/2	87,898	1/2	102,364	1/2	116,825	1/2	131,284
3/4	1,669	3/4	15,976	3/4	30,441	3/4	44,907	3/4	59,303	3/4	73,733	3/4	88,199	3/4	102,665	3/4	117,126	3/4	131,585
1	1,895	1	16,277	1	30,742	1	45,208	1	59,602	1	74,035	1	88,501	1	102,967	1	117,427	1	131,887
1/4	2,177	1/4	16,578	1/4	31,044	1/4	45,509	1/4	59,901	1/4	74,336	1/4	88,802	1/4	103,268	1/4	117,729	1/4	132,188
1/2	2,458	1/2	16,880	1/2	31,345	1/2	45,811	1/2	60,200	1/2	74,638	1/2	89,103	1/2	103,569	1/2	118,030	1/2	132,489
3/4	2,740	3/4	17,181	3/4	31,647	3/4	46,112	3/4	60,499	3/4	74,939	3/4	89,405	3/4	103,871	3/4	118,331	3/4	132,790
2	3,022	2	17,483	2	31,948	2	46,413	2	60,798	2	75,240	2	89,706	2	104,172	2	118,632	2	133,092
1/4	3,322	1/4	17,784	1/4	32,249	1/4	46,715	1/4	61,097	1/4	75,542	1/4	90,008	1/4	104,473	1/4	118,933	1/4	133,393
1/2	3,623	1/2	18,085	1/2	32,551	1/2	47,016	1/2	61,396	1/2	75,843	1/2	90,309	1/2	104,775	1/2	119,235	1/2	133,694
3/4	3,923	3/4	18,387	3/4	32,852	3/4	47,317	3/4	61,695	3/4	76,144	3/4	90,610	3/4	105,076	3/4	119,536	3/4	133,995
3	4,224	3	18,688	3	33,153	3	47,619	3	61,994	3	76,446	3	90,912	3	105,378	3	119,837	3	134,297
1/4	4,525	1/4	18,989	1/4	33,455	1/4	47,920	1/4	62,294	1/4	76,747	1/4	91,213	1/4	105,679	1/4	120,138	1/4	134,598
1/2	4,826	1/2	19,291	1/2	33,756	1/2	48,222	1/2	62,593	1/2	77,049	1/2	91,514	1/2	105,980	1/2	120,440	1/2	134,899
3/4	5,127	3/4	19,592	3/4	34,057	3/4	48,523	3/4	62,892	3/4	77,350	3/4	91,816	3/4	106,281	3/4	120,741	3/4	135,200
4	5,428	4	19,893	4	34,359	4	48,824	4	63,191	4	77,651	4	92,117	4	106,583	4	121,042	4	135,501
1/4	5,729	1/4	20,195	1/4	34,660	1/4	49,125	1/4	63,491	1/4	77,953	1/4	92,419	1/4	106,884	1/4	121,343	1/4	135,803
1/2	6,031	1/2	20,496	1/2	34,962	1/2	49,426	1/2	63,791	1/2	78,254	1/2	92,720	1/2	107,185	1/2	121,645	1/2	136,104
3/4	6,332	3/4	20,798	3/4	35,263	3/4	49,726	3/4	64,092	3/4	78,555	3/4	93,021	3/4	107,486	3/4	121,946	3/4	136,405
5	6,633	5	21,099	5	35,564	5	50,027	5	64,392	5	78,857	5	93,323	5	107,788	5	122,247	5	136,706
1/4	6,935	1/4	21,400	1/4	35,866	1/4	50,327	1/4	64,693	1/4	79,158	1/4	93,624	1/4	108,089	1/4	122,548	1/4	137,008
1/2	7,236	1/2	21,702	1/2	36,167	1/2	50,627	1/2	64,994	1/2	79,460	1/2	93,925	1/2	108,390	1/2	122,850	1/2	137,309
3/4	7,538	3/4	22,003	3/4	36,468	3/4	50,927	3/4	65,295	3/4	79,761	3/4	94,227	3/4	108,691	3/4	123,151	3/4	137,610
6	7,839	6	22,304	6	36,770	6	51,227	6	65,596	6	80,062	6	94,528	6	108,993	6	123,452	6	137,911
1/4	8,140	1/4	22,606	1/4	37,071	1/4	51,526	1/4	65,898	1/4	80,364	1/4	94,830	1/4	109,294	1/4	123,753	1/4	138,213
1/2	8,442	1/2	22,907	1/2	37,372	1/2	51,826	1/2	66,199	1/2	80,665	1/2	95,131	1/2	109,595	1/2	124,054	1/2	138,514
3/4	8,743	3/4	23,208	3/4	37,674	3/4	52,126	3/4	66,501	3/4	80,966	3/4	95,432	3/4	109,896	3/4	124,356	3/4	138,815
7	9,044	7	23,510	7	37,975	7	52,425	7	66,802	7	81,268	7	95,734	7	110,198	7	124,657	7	139,116
1/4	9,346	1/4	23,811	1/4	38,277	1/4	52,725	1/4	67,103	1/4	81,569	1/4	96,035	1/4	110,499	1/4	124,958	1/4	139,418
1/2	9,647	1/2	24,113	1/2	38,578	1/2	53,024	1/2	67,405	1/2	81,871	1/2	96,336	1/2	110,800	1/2	125,259	1/2	139,719
3/4	9,948	3/4	24,414	3/4	38,879	3/4	53,323	3/4	67,706	3/4	82,172	3/4	96,638	3/4	111,101	3/4	125,561	3/4	140,020
8	10,250	8	24,715	8	39,181	8	53,622	8	68,007	8	82,473	8	96,939	8	111,403	8	125,862	8	140,321
1/4	10,551	1/4	25,017	1/4	39,482	1/4	53,921	1/4	68,309	1/4	82,775	1/4	97,240	1/4	111,704	1/4	126,163	1/4	140,622
1/2	10,853	1/2	25,318	1/2	39,783	1/2	54,220	1/2	68,610	1/2	83,076	1/2	97,542	1/2	112,005	1/2	126,464	1/2	140,924
3/4	11,154	3/4	25,619	3/4	40,085	3/4	54,519	3/4	68,912	3/4	83,377	3/4	97,843	3/4	112,306	3/4	126,766	3/4	141,225
9	11,455	9	25,921	9	40,386	9	54,818	9	69,213	9	83,679	9	98,145	9	112,607	9	127,067	9	141,526
1/4	11,757	1/4	26,222	1/4	40,687	1/4	55,117	1/4	69,514	1/4	83,980	1/4	98,446	1/4	112,909	1/4	127,368	1/4	141,827
1/2	12,058	1/2	26,523	1/2	40,989	1/2	55,416	1/2	69,816	1/2	84,281	1/2	98,747	1/2	113,210	1/2	127,669	1/2	142,129
3/4	12,359	3/4	26,825	3/4	41,290	3/4	55,715	3/4	70,117	3/4	84,583	3/4	99,049	3/4	113,511	3/4	127,971	3/4	142,430
10	12,661	10	27,126	10	41,592	10	56,014	10	70,418	10	84,884	10	99,350	10	113,812	10	128,272	10	142,731
1/4	12,962	1/4	27,428	1/4	41,893	1/4	56,313	1/4	70,720	1/4	85,186	1/4	99,651	1/4	114,114	1/4	128,573	1/4	143,032
1/2	13,263	1/2	27,729	1/2	42,194	1/2	56,612	1/2	71,021	1/2	85,487	1/2	99,953	1/2	114,415	1/2	128,874	1/2	143,334
3/4	13,565	3/4	28,030	3/4	42,496	3/4	56,911	3/4	71,322	3/4	85,788	3/4	100,254	3/4	114,716	3/4	129,175	3/4	143,635
11	13,866	11	28,332	11	42,797	11	57,210	11	71,624	11	86,090	11	100,556	11	115,017	11	129,477	11	143,936
1/4	14,168	1/4	28,633	1/4	43,098	1/4	57,509	1/4	71,925	1/4	86,391	1/4	100,857	1/4	115,319	1/4	129,778	1/4	144,237
1/2	14,469	1/2	28,934	1/2	43,400	1/2	57,808	1/2	72,227	1/2	86,692	1/2	101,158	1/2	115,620	1/2	130,079	1/2	144,539
3/4	14,770	3/4	29,236	3/4	43,701	3/4	58,107	3/4	72,528	3/4	86,994	3/4	101,460	3/4	115,921	3/4	130,380	3/4	144,840

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "HFL 607"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	145,141	0	159,600	0	174,051	0	188,466	0	202,788	0		0		0		0		0	
1/4	145,442	1/4	159,902	1/4	174,351	1/4	188,766	1/4	203,057	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	145,744	1/2	160,203	1/2	174,651	1/2	189,067	1/2	203,326	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	146,045	3/4	160,504	3/4	174,952	3/4	189,367	3/4	203,595	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	146,346	1	160,805	1	175,252	1	189,667	1	203,863	1	1	1	1	1	1	1	1	1	1
1/4	146,647	1/4	161,107	1/4	175,552	1/4	189,968	1/4	204,085	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	146,948	1/2	161,408	1/2	175,853	1/2	190,268	1/2	204,308	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	147,250	3/4	161,709	3/4	176,153	3/4	190,568	3/4	204,530	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	147,551	2	162,010	2	176,453	2	190,869	2	204,752	2	2	2	2	2	2	2	2	2	2
1/4	147,852	1/4	162,312	1/4	176,754	1/4	191,169	1/4	204,924	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,153	1/2	162,613	1/2	177,054	1/2	191,469	1/2	205,096	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	148,455	3/4	162,914	3/4	177,354	3/4	191,770	3/4	205,268	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	148,756	3	163,215	3	177,655	3	192,070	3	205,439	3	3	3	3	3	3	3	3	3	3
1/4	149,057	1/4	163,516	1/4	177,955	1/4	192,370	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,358	1/2	163,818	1/2	178,255	1/2	192,671	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,660	3/4	164,119	3/4	178,555	3/4	192,971	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	149,961	4	164,420	4	178,856	4	193,271	4		4	4	4	4	4	4	4	4	4	4
1/4	150,262	1/4	164,721	1/4	179,156	1/4	193,572	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,563	1/2	165,023	1/2	179,456	1/2	193,872	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,865	3/4	165,324	3/4	179,757	3/4	194,172	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	151,166	5	165,625	5	180,057	5	194,473	5		5	5	5	5	5	5	5	5	5	5
1/4	151,467	1/4	165,926	1/4	180,357	1/4	194,771	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,768	1/2	166,228	1/2	180,658	1/2	195,070	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,069	3/4	166,529	3/4	180,958	3/4	195,369	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	152,371	6	166,830	6	181,258	6	195,668	6		6	6	6	6	6	6	6	6	6	6
1/4	152,672	1/4	167,131	1/4	181,559	1/4	195,965	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,973	1/2	167,433	1/2	181,859	1/2	196,263	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,274	3/4	167,734	3/4	182,159	3/4	196,560	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	153,576	7	168,035	7	182,460	7	196,857	7		7	7	7	7	7	7	7	7	7	7
1/4	153,877	1/4	168,336	1/4	182,760	1/4	197,155	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,178	1/2	168,637	1/2	183,060	1/2	197,452	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,479	3/4	168,939	3/4	183,361	3/4	197,750	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	154,781	8	169,240	8	183,661	8	198,047	8		8	8	8	8	8	8	8	8	8	8
1/4	155,082	1/4	169,541	1/4	183,961	1/4	198,345	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,383	1/2	169,842	1/2	184,262	1/2	198,642	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,684	3/4	170,144	3/4	184,562	3/4	198,939	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	155,986	9	170,445	9	184,862	9	199,237	9		9	9	9	9	9	9	9	9	9	9
1/4	156,287	1/4	170,746	1/4	185,163	1/4	199,534	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,588	1/2	171,046	1/2	185,463	1/2	199,832	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,889	3/4	171,347	3/4	185,763	3/4	200,129	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	157,190	10	171,648	10	186,064	10	200,427	10		10	10	10	10	10	10	10	10	10	10
1/4	157,492	1/4	171,948	1/4	186,364	1/4	200,724	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,793	1/2	172,249	1/2	186,664	1/2	201,021	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,094	3/4	172,549	3/4	186,965	3/4	201,318	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	158,395	11	172,849	11	187,265	11	201,615	11		11	11	11	11	11	11	11	11	11	11
1/4	158,697	1/4	173,150	1/4	187,565	1/4	201,908	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,998	1/2	173,450	1/2	187,866	1/2	202,201	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,299	3/4	173,750	3/4	188,166	3/4	202,495	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2012 CL - SW
CALCULATED: 01/30/2012 CL
PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

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



BARGE "HFL 607"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	991	0	15,073	0	29,540	0	44,007	0	58,470	0	72,934	0	87,402	0	101,869	0	116,332	0	130,793
1/4	1,217	1/4	15,375	1/4	29,842	1/4	44,309	1/4	58,771	1/4	73,236	1/4	87,703	1/4	102,171	1/4	116,633	1/4	131,094
1/2	1,443	1/2	15,676	1/2	30,143	1/2	44,610	1/2	59,072	1/2	73,537	1/2	88,005	1/2	102,472	1/2	116,934	1/2	131,395
3/4	1,669	3/4	15,978	3/4	30,445	3/4	44,911	3/4	59,373	3/4	73,839	3/4	88,306	3/4	102,773	3/4	117,236	3/4	131,697
1	1,895	1	16,279	1	30,746	1	45,213	1	59,674	1	74,140	1	88,607	1	103,075	1	117,537	1	131,998
1/4	2,177	1/4	16,580	1/4	31,047	1/4	45,514	1/4	59,976	1/4	74,441	1/4	88,909	1/4	103,376	1/4	117,838	1/4	132,299
1/2	2,459	1/2	16,882	1/2	31,349	1/2	45,816	1/2	60,277	1/2	74,743	1/2	89,210	1/2	103,678	1/2	118,140	1/2	132,600
3/4	2,741	3/4	17,183	3/4	31,650	3/4	46,117	3/4	60,578	3/4	75,044	3/4	89,512	3/4	103,979	3/4	118,441	3/4	132,902
2	3,022	2	17,485	2	31,951	2	46,418	2	60,879	2	75,346	2	89,813	2	104,280	2	118,742	2	133,203
1/4	3,323	1/4	17,786	1/4	32,253	1/4	46,720	1/4	61,180	1/4	75,647	1/4	90,114	1/4	104,582	1/4	119,043	1/4	133,504
1/2	3,623	1/2	18,087	1/2	32,554	1/2	47,021	1/2	61,482	1/2	75,948	1/2	90,416	1/2	104,883	1/2	119,345	1/2	133,806
3/4	3,924	3/4	18,389	3/4	32,856	3/4	47,323	3/4	61,783	3/4	76,250	3/4	90,717	3/4	105,185	3/4	119,646	3/4	134,107
3	4,224	3	18,690	3	33,157	3	47,624	3	62,084	3	76,551	3	91,019	3	105,486	3	119,947	3	134,408
1/4	4,525	1/4	18,992	1/4	33,458	1/4	47,925	1/4	62,385	1/4	76,853	1/4	91,320	1/4	105,787	1/4	120,248	1/4	134,709
1/2	4,827	1/2	19,293	1/2	33,760	1/2	48,227	1/2	62,687	1/2	77,154	1/2	91,621	1/2	106,089	1/2	120,550	1/2	135,011
3/4	5,128	3/4	19,594	3/4	34,061	3/4	48,528	3/4	62,988	3/4	77,455	3/4	91,923	3/4	106,390	3/4	120,851	3/4	135,312
4	5,429	4	19,896	4	34,363	4	48,830	4	63,289	4	77,757	4	92,224	4	106,691	4	121,152	4	135,613
1/4	5,730	1/4	20,197	1/4	34,664	1/4	49,131	1/4	63,591	1/4	78,058	1/4	92,526	1/4	106,993	1/4	121,453	1/4	135,914
1/2	6,032	1/2	20,498	1/2	34,965	1/2	49,432	1/2	63,892	1/2	78,360	1/2	92,827	1/2	107,294	1/2	121,755	1/2	136,216
3/4	6,333	3/4	20,800	3/4	35,267	3/4	49,734	3/4	64,194	3/4	78,661	3/4	93,128	3/4	107,595	3/4	122,056	3/4	136,517
5	6,634	5	21,101	5	35,568	5	50,035	5	64,495	5	78,962	5	93,430	5	107,896	5	122,357	5	136,818
1/4	6,936	1/4	21,403	1/4	35,870	1/4	50,337	1/4	64,796	1/4	79,264	1/4	93,731	1/4	108,198	1/4	122,659	1/4	137,120
1/2	7,237	1/2	21,704	1/2	36,171	1/2	50,638	1/2	65,098	1/2	79,565	1/2	94,033	1/2	108,499	1/2	122,960	1/2	137,421
3/4	7,539	3/4	22,005	3/4	36,472	3/4	50,939	3/4	65,399	3/4	79,867	3/4	94,334	3/4	108,800	3/4	123,261	3/4	137,722
6	7,840	6	22,307	6	36,774	6	51,241	6	65,701	6	80,168	6	94,635	6	109,101	6	123,562	6	138,023
1/4	8,141	1/4	22,608	1/4	37,075	1/4	51,542	1/4	66,002	1/4	80,469	1/4	94,937	1/4	109,403	1/4	123,864	1/4	138,325
1/2	8,443	1/2	22,910	1/2	37,377	1/2	51,843	1/2	66,304	1/2	80,771	1/2	95,238	1/2	109,704	1/2	124,165	1/2	138,626
3/4	8,744	3/4	23,211	3/4	37,678	3/4	52,145	3/4	66,605	3/4	81,072	3/4	95,540	3/4	110,005	3/4	124,466	3/4	138,927
7	9,046	7	23,512	7	37,979	7	52,446	7	66,906	7	81,374	7	95,841	7	110,307	7	124,767	7	139,228
1/4	9,347	1/4	23,814	1/4	38,281	1/4	52,747	1/4	67,208	1/4	81,675	1/4	96,142	1/4	110,608	1/4	125,069	1/4	139,530
1/2	9,648	1/2	24,115	1/2	38,582	1/2	53,049	1/2	67,509	1/2	81,977	1/2	96,444	1/2	110,909	1/2	125,370	1/2	139,831
3/4	9,950	3/4	24,417	3/4	38,884	3/4	53,350	3/4	67,811	3/4	82,278	3/4	96,745	3/4	111,210	3/4	125,671	3/4	140,132
8	10,251	8	24,718	8	39,185	8	53,651	8	68,112	8	82,579	8	97,047	8	111,512	8	125,973	8	140,434
1/4	10,552	1/4	25,019	1/4	39,486	1/4	53,952	1/4	68,413	1/4	82,881	1/4	97,348	1/4	111,813	1/4	126,274	1/4	140,735
1/2	10,854	1/2	25,321	1/2	39,788	1/2	54,253	1/2	68,715	1/2	83,182	1/2	97,650	1/2	112,114	1/2	126,575	1/2	141,036
3/4	11,155	3/4	25,622	3/4	40,089	3/4	54,555	3/4	69,016	3/4	83,484	3/4	97,951	3/4	112,415	3/4	126,876	3/4	141,337
9	11,457	9	25,924	9	40,391	9	54,856	9	69,318	9	83,785	9	98,252	9	112,717	9	127,178	9	141,639
1/4	11,758	1/4	26,225	1/4	40,692	1/4	55,157	1/4	69,619	1/4	84,086	1/4	98,554	1/4	113,018	1/4	127,479	1/4	141,940
1/2	12,059	1/2	26,526	1/2	40,993	1/2	55,458	1/2	69,920	1/2	84,388	1/2	98,855	1/2	113,319	1/2	127,780	1/2	142,241
3/4	12,361	3/4	26,828	3/4	41,295	3/4	55,759	3/4	70,222	3/4	84,689	3/4	99,157	3/4	113,621	3/4	128,081	3/4	142,542
10	12,662	10	27,129	10	41,596	10	56,060	10	70,523	10	84,991	10	99,458	10	113,922	10	128,383	10	142,844
1/4	12,964	1/4	27,431	1/4	41,898	1/4	56,362	1/4	70,825	1/4	85,292	1/4	99,759	1/4	114,223	1/4	128,684	1/4	143,145
1/2	13,265	1/2	27,732	1/2	42,199	1/2	56,663	1/2	71,126	1/2	85,593	1/2	100,061	1/2	114,524	1/2	128,985	1/2	143,446
3/4	13,566	3/4	28,033	3/4	42,500	3/4	56,964	3/4	71,427	3/4	85,895	3/4	100,362	3/4	114,826	3/4	129,286	3/4	143,748
11	13,868	11	28,335	11	42,802	11	57,265	11	71,729	11	86,196	11	100,664	11	115,127	11	129,588	11	144,049
1/4	14,169	1/4	28,636	1/4	43,103	1/4	57,566	1/4	72,030	1/4	86,498	1/4	100,965	1/4	115,428	1/4	129,889	1/4	144,350
1/2	14,471	1/2	28,938	1/2	43,404	1/2	57,867	1/2	72,332	1/2	86,799	1/2	101,266	1/2	115,729	1/2	130,190	1/2	144,651
3/4	14,772	3/4	29,239	3/4	43,706	3/4	58,169	3/4	72,633	3/4	87,100	3/4	101,568	3/4	116,031	3/4	130,492	3/4	144,953

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 607"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	145,254	0	159,715	0	174,167	0	188,584	0	202,908	0		0		0		0		0	
1/4	145,555	1/4	160,016	1/4	174,467	1/4	188,885	1/4	203,177	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	145,856	1/2	160,318	1/2	174,768	1/2	189,185	1/2	203,446	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	146,158	3/4	160,619	3/4	175,068	3/4	189,485	3/4	203,715	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	146,459	1	160,920	1	175,368	1	189,786	1	203,983	1	1	1	1	1	1	1	1	1	1
1/4	146,760	1/4	161,221	1/4	175,669	1/4	190,086	1/4	204,206	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	147,062	1/2	161,523	1/2	175,969	1/2	190,387	1/2	204,428	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	147,363	3/4	161,824	3/4	176,270	3/4	190,687	3/4	204,650	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	147,664	2	162,125	2	176,570	2	190,987	2	204,872	2	2	2	2	2	2	2	2	2	2
1/4	147,965	1/4	162,426	1/4	176,870	1/4	191,288	1/4	205,044	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,267	1/2	162,728	1/2	177,171	1/2	191,588	1/2	205,216	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	148,568	3/4	163,029	3/4	177,471	3/4	191,888	3/4	205,388	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	148,869	3	163,330	3	177,771	3	192,189	3	205,560	3	3	3	3	3	3	3	3	3	3
1/4	149,170	1/4	163,632	1/4	178,072	1/4	192,489	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,472	1/2	163,933	1/2	178,372	1/2	192,789	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,773	3/4	164,234	3/4	178,672	3/4	193,090	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	150,074	4	164,535	4	178,973	4	193,390	4		4	4	4	4	4	4	4	4	4	4
1/4	150,376	1/4	164,837	1/4	179,273	1/4	193,690	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,677	1/2	165,138	1/2	179,574	1/2	193,991	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,978	3/4	165,439	3/4	179,874	3/4	194,291	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	151,279	5	165,740	5	180,174	5	194,592	5		5	5	5	5	5	5	5	5	5	5
1/4	151,581	1/4	166,042	1/4	180,475	1/4	194,890	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,882	1/2	166,343	1/2	180,775	1/2	195,189	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,183	3/4	166,644	3/4	181,075	3/4	195,488	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	152,484	6	166,946	6	181,376	6	195,787	6		6	6	6	6	6	6	6	6	6	6
1/4	152,786	1/4	167,247	1/4	181,676	1/4	196,084	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,087	1/2	167,548	1/2	181,976	1/2	196,382	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,388	3/4	167,849	3/4	182,277	3/4	196,679	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	153,690	7	168,151	7	182,577	7	196,977	7		7	7	7	7	7	7	7	7	7	7
1/4	153,991	1/4	168,452	1/4	182,877	1/4	197,274	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,292	1/2	168,753	1/2	183,178	1/2	197,571	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,593	3/4	169,054	3/4	183,478	3/4	197,869	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	154,895	8	169,356	8	183,779	8	198,166	8		8	8	8	8	8	8	8	8	8	8
1/4	155,196	1/4	169,657	1/4	184,079	1/4	198,464	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,497	1/2	169,958	1/2	184,379	1/2	198,761	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,798	3/4	170,260	3/4	184,680	3/4	199,059	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	156,100	9	170,561	9	184,980	9	199,356	9		9	9	9	9	9	9	9	9	9	9
1/4	156,401	1/4	170,862	1/4	185,280	1/4	199,654	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,702	1/2	171,163	1/2	185,581	1/2	199,951	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,004	3/4	171,463	3/4	185,881	3/4	200,249	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	157,305	10	171,764	10	186,181	10	200,546	10		10	10	10	10	10	10	10	10	10	10
1/4	157,606	1/4	172,064	1/4	186,482	1/4	200,843	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,907	1/2	172,365	1/2	186,782	1/2	201,140	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,209	3/4	172,665	3/4	187,083	3/4	201,437	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	158,510	11	172,966	11	187,383	11	201,734	11		11	11	11	11	11	11	11	11	11	11
1/4	158,811	1/4	173,266	1/4	187,683	1/4	202,028	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,112	1/2	173,566	1/2	187,984	1/2	202,321	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,414	3/4	173,867	3/4	188,284	3/4	202,615	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2012 CL - SW
CALCULATED: 01/30/2012 CL
PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

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



BARGE "HFL 607"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,190	0	18,137	0	35,544	0	52,579	0	69,409	0	86,607	0	104,017	0	121,427	0	138,831	0	156,233
1/4	1,462	1/4	18,499	1/4	35,906	1/4	52,929	1/4	69,760	1/4	86,970	1/4	104,380	1/4	121,789	1/4	139,194	1/4	156,596
1/2	1,734	1/2	18,862	1/2	36,269	1/2	53,279	1/2	70,111	1/2	87,332	1/2	104,742	1/2	122,152	1/2	139,556	1/2	156,958
3/4	2,006	3/4	19,225	3/4	36,632	3/4	53,629	3/4	70,462	3/4	87,695	3/4	105,105	3/4	122,515	3/4	139,919	3/4	157,321
1	2,278	1	19,587	1	36,994	1	53,979	1	70,813	1	88,058	1	105,468	1	122,877	1	140,281	1	157,683
1/4	2,617	1/4	19,950	1/4	37,357	1/4	54,329	1/4	71,164	1/4	88,421	1/4	105,830	1/4	123,240	1/4	140,644	1/4	158,046
1/2	2,956	1/2	20,313	1/2	37,720	1/2	54,679	1/2	71,515	1/2	88,783	1/2	106,193	1/2	123,603	1/2	141,006	1/2	158,409
3/4	3,296	3/4	20,675	3/4	38,083	3/4	55,029	3/4	71,866	3/4	89,146	3/4	106,556	3/4	123,966	3/4	141,369	3/4	158,771
2	3,635	2	21,038	2	38,445	2	55,379	2	72,217	2	89,509	2	106,918	2	124,328	2	141,731	2	159,134
1/4	3,996	1/4	21,401	1/4	38,808	1/4	55,729	1/4	72,568	1/4	89,871	1/4	107,281	1/4	124,691	1/4	142,094	1/4	159,496
1/2	4,358	1/2	21,764	1/2	39,171	1/2	56,080	1/2	72,918	1/2	90,234	1/2	107,644	1/2	125,054	1/2	142,457	1/2	159,859
3/4	4,719	3/4	22,126	3/4	39,533	3/4	56,430	3/4	73,269	3/4	90,597	3/4	108,007	3/4	125,416	3/4	142,819	3/4	160,221
3	5,081	3	22,489	3	39,896	3	56,780	3	73,620	3	90,959	3	108,369	3	125,779	3	143,182	3	160,584
1/4	5,443	1/4	22,852	1/4	40,259	1/4	57,130	1/4	73,971	1/4	91,322	1/4	108,732	1/4	126,142	1/4	143,544	1/4	160,946
1/2	5,806	1/2	23,214	1/2	40,621	1/2	57,480	1/2	74,322	1/2	91,685	1/2	109,095	1/2	126,504	1/2	143,907	1/2	161,309
3/4	6,168	3/4	23,577	3/4	40,984	3/4	57,830	3/4	74,673	3/4	92,048	3/4	109,457	3/4	126,867	3/4	144,269	3/4	161,672
4	6,531	4	23,940	4	41,347	4	58,181	4	75,024	4	92,410	4	109,820	4	127,230	4	144,632	4	162,034
1/4	6,893	1/4	24,302	1/4	41,704	1/4	58,531	1/4	75,381	1/4	92,773	1/4	110,183	1/4	127,592	1/4	144,994	1/4	162,397
1/2	7,256	1/2	24,665	1/2	42,060	1/2	58,882	1/2	75,738	1/2	93,136	1/2	110,546	1/2	127,955	1/2	145,357	1/2	162,759
3/4	7,619	3/4	25,028	3/4	42,417	3/4	59,232	3/4	76,094	3/4	93,498	3/4	110,908	3/4	128,317	3/4	145,719	3/4	163,122
5	7,981	5	25,391	5	42,774	5	59,583	5	76,451	5	93,861	5	111,271	5	128,680	5	146,082	5	163,484
1/4	8,344	1/4	25,753	1/4	43,125	1/4	59,934	1/4	76,814	1/4	94,224	1/4	111,634	1/4	129,042	1/4	146,445	1/4	163,847
1/2	8,707	1/2	26,116	1/2	43,476	1/2	60,285	1/2	77,177	1/2	94,587	1/2	111,996	1/2	129,405	1/2	146,807	1/2	164,209
3/4	9,069	3/4	26,479	3/4	43,827	3/4	60,636	3/4	77,539	3/4	94,949	3/4	112,359	3/4	129,767	3/4	147,170	3/4	164,572
6	9,432	6	26,841	6	44,178	6	60,987	6	77,902	6	95,312	6	112,722	6	130,130	6	147,532	6	164,934
1/4	9,795	1/4	27,204	1/4	44,528	1/4	61,338	1/4	78,265	1/4	95,675	1/4	113,084	1/4	130,492	1/4	147,895	1/4	165,297
1/2	10,157	1/2	27,567	1/2	44,879	1/2	61,689	1/2	78,628	1/2	96,037	1/2	113,447	1/2	130,855	1/2	148,257	1/2	165,660
3/4	10,520	3/4	27,929	3/4	45,229	3/4	62,040	3/4	78,990	3/4	96,400	3/4	113,810	3/4	131,218	3/4	148,620	3/4	166,022
7	10,883	7	28,292	7	45,580	7	62,390	7	79,353	7	96,763	7	114,173	7	131,580	7	148,982	7	166,385
1/4	11,245	1/4	28,655	1/4	45,930	1/4	62,741	1/4	79,716	1/4	97,125	1/4	114,535	1/4	131,943	1/4	149,345	1/4	166,747
1/2	11,608	1/2	29,017	1/2	46,280	1/2	63,092	1/2	80,078	1/2	97,488	1/2	114,898	1/2	132,305	1/2	149,707	1/2	167,110
3/4	11,971	3/4	29,380	3/4	46,630	3/4	63,443	3/4	80,441	3/4	97,851	3/4	115,261	3/4	132,668	3/4	150,070	3/4	167,472
8	12,334	8	29,743	8	46,980	8	63,794	8	80,804	8	98,214	8	115,623	8	133,030	8	150,433	8	167,835
1/4	12,696	1/4	30,105	1/4	47,330	1/4	64,145	1/4	81,166	1/4	98,576	1/4	115,986	1/4	133,393	1/4	150,795	1/4	168,197
1/2	13,059	1/2	30,468	1/2	47,680	1/2	64,496	1/2	81,529	1/2	98,939	1/2	116,349	1/2	133,755	1/2	151,158	1/2	168,560
3/4	13,422	3/4	30,831	3/4	48,029	3/4	64,847	3/4	81,892	3/4	99,302	3/4	116,711	3/4	134,118	3/4	151,520	3/4	168,922
9	13,784	9	31,193	9	48,379	9	65,198	9	82,255	9	99,664	9	117,074	9	134,481	9	151,883	9	169,285
1/4	14,147	1/4	31,556	1/4	48,729	1/4	65,549	1/4	82,617	1/4	100,027	1/4	117,437	1/4	134,843	1/4	152,245	1/4	169,648
1/2	14,510	1/2	31,918	1/2	49,079	1/2	65,900	1/2	82,980	1/2	100,390	1/2	117,800	1/2	135,206	1/2	152,608	1/2	170,010
3/4	14,872	3/4	32,281	3/4	49,429	3/4	66,251	3/4	83,343	3/4	100,752	3/4	118,162	3/4	135,568	3/4	152,970	3/4	170,373
10	15,235	10	32,643	10	49,779	10	66,602	10	83,705	10	101,115	10	118,525	10	135,931	10	153,333	10	170,735
1/4	15,598	1/4	33,006	1/4	50,129	1/4	66,953	1/4	84,068	1/4	101,478	1/4	118,888	1/4	136,293	1/4	153,695	1/4	171,098
1/2	15,960	1/2	33,368	1/2	50,479	1/2	67,304	1/2	84,431	1/2	101,841	1/2	119,250	1/2	136,656	1/2	154,058	1/2	171,460
3/4	16,323	3/4	33,731	3/4	50,829	3/4	67,654	3/4	84,794	3/4	102,203	3/4	119,613	3/4	137,018	3/4	154,421	3/4	171,823
11	16,686	11	34,093	11	51,179	11	68,005	11	85,156	11	102,566	11	119,976	11	137,381	11	154,783	11	172,185
1/4	17,049	1/4	34,456	1/4	51,529	1/4	68,356	1/4	85,519	1/4	102,929	1/4	120,339	1/4	137,743	1/4	155,146	1/4	172,548
1/2	17,411	1/2	34,818	1/2	51,879	1/2	68,707	1/2	85,882	1/2	103,291	1/2	120,701	1/2	138,106	1/2	155,508	1/2	172,910
3/4	17,774	3/4	35,181	3/4	52,229	3/4	69,058	3/4	86,244	3/4	103,654	3/4	121,064	3/4	138,469	3/4	155,871	3/4	173,273

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 50'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
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BARGE "HFL 607"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	173,636	0	191,038	0	208,429	0	225,780	0	243,019	0		0		0		0		0	
1/4	173,998	1/4	191,400	1/4	208,791	1/4	226,142	1/4	243,342	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	174,361	1/2	191,763	1/2	209,152	1/2	226,503	1/2	243,666	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	174,723	3/4	192,125	3/4	209,514	3/4	226,865	3/4	243,989	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	175,086	1	192,488	1	209,875	1	227,226	1	244,313	1	1	1	1	1	1	1	1	1	1
1/4	175,448	1/4	192,851	1/4	210,237	1/4	227,588	1/4	244,580	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	175,811	1/2	193,213	1/2	210,598	1/2	227,949	1/2	244,848	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	176,173	3/4	193,576	3/4	210,960	3/4	228,311	3/4	245,115	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	176,536	2	193,938	2	211,321	2	228,672	2	245,382	2	2	2	2	2	2	2	2	2	2
1/4	176,898	1/4	194,301	1/4	211,683	1/4	229,034	1/4	245,589	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	177,261	1/2	194,663	1/2	212,044	1/2	229,395	1/2	245,796	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	177,624	3/4	195,026	3/4	212,406	3/4	229,757	3/4	246,003	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	177,986	3	195,388	3	212,767	3	230,118	3	246,210	3	3	3	3	3	3	3	3	3	3
1/4	178,349	1/4	195,751	1/4	213,129	1/4	230,480	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	178,711	1/2	196,113	1/2	213,490	1/2	230,841	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	179,074	3/4	196,476	3/4	213,852	3/4	231,203	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	179,436	4	196,839	4	214,213	4	231,564	4		4	4	4	4	4	4	4	4	4	4
1/4	179,799	1/4	197,201	1/4	214,575	1/4	231,926	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	180,161	1/2	197,564	1/2	214,936	1/2	232,287	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	180,524	3/4	197,926	3/4	215,298	3/4	232,649	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	180,886	5	198,289	5	215,659	5	233,010	5		5	5	5	5	5	5	5	5	5	5
1/4	181,249	1/4	198,651	1/4	216,020	1/4	233,370	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	181,612	1/2	199,014	1/2	216,382	1/2	233,729	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	181,974	3/4	199,376	3/4	216,743	3/4	234,089	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	182,337	6	199,739	6	217,105	6	234,449	6		6	6	6	6	6	6	6	6	6	6
1/4	182,699	1/4	200,101	1/4	217,466	1/4	234,807	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	183,062	1/2	200,464	1/2	217,828	1/2	235,165	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	183,424	3/4	200,827	3/4	218,189	3/4	235,523	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	183,787	7	201,189	7	218,551	7	235,880	7		7	7	7	7	7	7	7	7	7	7
1/4	184,149	1/4	201,552	1/4	218,912	1/4	236,238	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	184,512	1/2	201,914	1/2	219,274	1/2	236,596	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	184,874	3/4	202,277	3/4	219,635	3/4	236,954	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	185,237	8	202,639	8	219,997	8	237,312	8		8	8	8	8	8	8	8	8	8	8
1/4	185,600	1/4	203,002	1/4	220,358	1/4	237,670	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	185,962	1/2	203,364	1/2	220,720	1/2	238,028	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	186,325	3/4	203,727	3/4	221,081	3/4	238,386	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	186,687	9	204,089	9	221,443	9	238,745	9		9	9	9	9	9	9	9	9	9	9
1/4	187,050	1/4	204,451	1/4	221,804	1/4	239,102	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	187,412	1/2	204,813	1/2	222,166	1/2	239,460	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	187,775	3/4	205,176	3/4	222,527	3/4	239,818	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	188,137	10	205,538	10	222,889	10	240,176	10		10	10	10	10	10	10	10	10	10	10
1/4	188,500	1/4	205,899	1/4	223,250	1/4	240,534	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	188,863	1/2	206,260	1/2	223,612	1/2	240,891	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	189,225	3/4	206,622	3/4	223,973	3/4	241,249	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	189,588	11	206,983	11	224,335	11	241,606	11		11	11	11	11	11	11	11	11	11	11
1/4	189,950	1/4	207,345	1/4	224,696	1/4	241,959	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	190,313	1/2	207,706	1/2	225,058	1/2	242,313	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	190,675	3/4	208,068	3/4	225,419	3/4	242,666	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 01/2012

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Pearland, Texas 77588
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BARGE "HFL 607"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	1,190	0	18,135	0	35,541	0	52,928	0	70,321	0	87,729	0	105,137	0	122,545	0	139,948	0	157,348
1/4	1,462	1/4	18,498	1/4	35,904	1/4	53,290	1/4	70,684	1/4	88,092	1/4	105,500	1/4	122,908	1/4	140,311	1/4	157,711
1/2	1,734	1/2	18,861	1/2	36,266	1/2	53,652	1/2	71,047	1/2	88,455	1/2	105,863	1/2	123,271	1/2	140,673	1/2	158,073
3/4	2,006	3/4	19,223	3/4	36,629	3/4	54,014	3/4	71,409	3/4	88,817	3/4	106,225	3/4	123,633	3/4	141,036	3/4	158,436
1	2,278	1	19,586	1	36,992	1	54,375	1	71,772	1	89,180	1	106,588	1	123,996	1	141,398	1	158,798
1/4	2,617	1/4	19,949	1/4	37,354	1/4	54,737	1/4	72,135	1/4	89,543	1/4	106,951	1/4	124,359	1/4	141,761	1/4	159,161
1/2	2,956	1/2	20,311	1/2	37,717	1/2	55,099	1/2	72,497	1/2	89,905	1/2	107,313	1/2	124,721	1/2	142,123	1/2	159,523
3/4	3,295	3/4	20,674	3/4	38,080	3/4	55,461	3/4	72,860	3/4	90,268	3/4	107,676	3/4	125,084	3/4	142,486	3/4	159,886
2	3,635	2	21,037	2	38,442	2	55,822	2	73,223	2	90,631	2	108,039	2	125,447	2	142,848	2	160,248
1/4	3,996	1/4	21,399	1/4	38,805	1/4	56,184	1/4	73,585	1/4	90,993	1/4	108,401	1/4	125,809	1/4	143,211	1/4	160,611
1/2	4,358	1/2	21,762	1/2	39,168	1/2	56,546	1/2	73,948	1/2	91,356	1/2	108,764	1/2	126,172	1/2	143,573	1/2	160,974
3/4	4,719	3/4	22,125	3/4	39,530	3/4	56,908	3/4	74,311	3/4	91,719	3/4	109,127	3/4	126,535	3/4	143,936	3/4	161,336
3	5,081	3	22,487	3	39,893	3	57,270	3	74,673	3	92,081	3	109,489	3	126,897	3	144,298	3	161,699
1/4	5,443	1/4	22,850	1/4	40,256	1/4	57,632	1/4	75,036	1/4	92,444	1/4	109,852	1/4	127,260	1/4	144,661	1/4	162,061
1/2	5,805	1/2	23,213	1/2	40,618	1/2	57,994	1/2	75,399	1/2	92,807	1/2	110,215	1/2	127,623	1/2	145,023	1/2	162,424
3/4	6,168	3/4	23,575	3/4	40,981	3/4	58,356	3/4	75,761	3/4	93,169	3/4	110,577	3/4	127,985	3/4	145,386	3/4	162,786
4	6,530	4	23,938	4	41,344	4	58,718	4	76,124	4	93,532	4	110,940	4	128,348	4	145,748	4	163,149
1/4	6,893	1/4	24,301	1/4	41,706	1/4	59,080	1/4	76,487	1/4	93,895	1/4	111,303	1/4	128,710	1/4	146,111	1/4	163,511
1/2	7,255	1/2	24,663	1/2	42,069	1/2	59,442	1/2	76,849	1/2	94,257	1/2	111,665	1/2	129,073	1/2	146,473	1/2	163,874
3/4	7,618	3/4	25,026	3/4	42,432	3/4	59,804	3/4	77,212	3/4	94,620	3/4	112,028	3/4	129,435	3/4	146,836	3/4	164,236
5	7,981	5	25,389	5	42,794	5	60,167	5	77,575	5	94,983	5	112,391	5	129,798	5	147,198	5	164,599
1/4	8,343	1/4	25,751	1/4	43,157	1/4	60,529	1/4	77,937	1/4	95,345	1/4	112,753	1/4	130,160	1/4	147,561	1/4	164,961
1/2	8,706	1/2	26,114	1/2	43,520	1/2	60,892	1/2	78,300	1/2	95,708	1/2	113,116	1/2	130,523	1/2	147,923	1/2	165,324
3/4	9,069	3/4	26,477	3/4	43,882	3/4	61,255	3/4	78,663	3/4	96,071	3/4	113,479	3/4	130,885	3/4	148,286	3/4	165,686
6	9,431	6	26,839	6	44,245	6	61,617	6	79,025	6	96,433	6	113,841	6	131,248	6	148,648	6	166,049
1/4	9,794	1/4	27,202	1/4	44,607	1/4	61,980	1/4	79,388	1/4	96,796	1/4	114,204	1/4	131,610	1/4	149,011	1/4	166,411
1/2	10,157	1/2	27,565	1/2	44,969	1/2	62,343	1/2	79,751	1/2	97,159	1/2	114,567	1/2	131,973	1/2	149,373	1/2	166,774
3/4	10,519	3/4	27,927	3/4	45,332	3/4	62,705	3/4	80,113	3/4	97,521	3/4	114,929	3/4	132,335	3/4	149,736	3/4	167,136
7	10,882	7	28,290	7	45,694	7	63,068	7	80,476	7	97,884	7	115,292	7	132,698	7	150,098	7	167,499
1/4	11,245	1/4	28,653	1/4	46,055	1/4	63,431	1/4	80,839	1/4	98,247	1/4	115,655	1/4	133,060	1/4	150,461	1/4	167,861
1/2	11,607	1/2	29,015	1/2	46,417	1/2	63,793	1/2	81,201	1/2	98,609	1/2	116,017	1/2	133,423	1/2	150,823	1/2	168,224
3/4	11,970	3/4	29,378	3/4	46,779	3/4	64,156	3/4	81,564	3/4	98,972	3/4	116,380	3/4	133,785	3/4	151,186	3/4	168,586
8	12,333	8	29,741	8	47,141	8	64,519	8	81,927	8	99,335	8	116,743	8	134,148	8	151,548	8	168,949
1/4	12,695	1/4	30,103	1/4	47,502	1/4	64,881	1/4	82,289	1/4	99,697	1/4	117,105	1/4	134,510	1/4	151,911	1/4	169,311
1/2	13,058	1/2	30,466	1/2	47,864	1/2	65,244	1/2	82,652	1/2	100,060	1/2	117,468	1/2	134,873	1/2	152,273	1/2	169,674
3/4	13,421	3/4	30,828	3/4	48,226	3/4	65,607	3/4	83,015	3/4	100,423	3/4	117,831	3/4	135,235	3/4	152,636	3/4	170,036
9	13,783	9	31,191	9	48,588	9	65,969	9	83,377	9	100,785	9	118,193	9	135,598	9	152,998	9	170,399
1/4	14,146	1/4	31,553	1/4	48,949	1/4	66,332	1/4	83,740	1/4	101,148	1/4	118,556	1/4	135,960	1/4	153,361	1/4	170,761
1/2	14,509	1/2	31,916	1/2	49,311	1/2	66,695	1/2	84,103	1/2	101,511	1/2	118,919	1/2	136,323	1/2	153,723	1/2	171,124
3/4	14,871	3/4	32,278	3/4	49,673	3/4	67,057	3/4	84,465	3/4	101,873	3/4	119,281	3/4	136,685	3/4	154,086	3/4	171,486
10	15,234	10	32,641	10	50,035	10	67,420	10	84,828	10	102,236	10	119,644	10	137,048	10	154,448	10	171,849
1/4	15,597	1/4	33,003	1/4	50,396	1/4	67,783	1/4	85,191	1/4	102,599	1/4	120,007	1/4	137,410	1/4	154,811	1/4	172,211
1/2	15,959	1/2	33,366	1/2	50,758	1/2	68,145	1/2	85,553	1/2	102,961	1/2	120,369	1/2	137,773	1/2	155,173	1/2	172,574
3/4	16,322	3/4	33,728	3/4	51,120	3/4	68,508	3/4	85,916	3/4	103,324	3/4	120,732	3/4	138,135	3/4	155,536	3/4	172,936
11	16,685	11	34,091	11	51,481	11	68,871	11	86,279	11	103,687	11	121,095	11	138,498	11	155,898	11	173,299
1/4	17,047	1/4	34,453	1/4	51,843	1/4	69,233	1/4	86,641	1/4	104,049	1/4	121,457	1/4	138,860	1/4	156,261	1/4	173,661
1/2	17,410	1/2	34,816	1/2	52,205	1/2	69,596	1/2	87,004	1/2	104,412	1/2	121,820	1/2	139,223	1/2	156,623	1/2	174,024
3/4	17,773	3/4	35,178	3/4	52,567	3/4	69,959	3/4	87,367	3/4	104,775	3/4	122,183	3/4	139,585	3/4	156,986	3/4	174,386

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 50'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 607"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	174,749	0	192,149	0	209,539	0	226,888	0	244,125	0		0		0		0		0	
1/4	175,111	1/4	192,512	1/4	209,900	1/4	227,250	1/4	244,448	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	175,474	1/2	192,874	1/2	210,262	1/2	227,611	1/2	244,772	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	175,836	3/4	193,237	3/4	210,623	3/4	227,973	3/4	245,095	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	176,199	1	193,599	1	210,985	1	228,334	1	245,419	1	1	1	1	1	1	1	1	1	1
1/4	176,561	1/4	193,962	1/4	211,346	1/4	228,695	1/4	245,686	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	176,924	1/2	194,324	1/2	211,708	1/2	229,057	1/2	245,953	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	177,286	3/4	194,687	3/4	212,069	3/4	229,418	3/4	246,221	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	177,649	2	195,049	2	212,431	2	229,780	2	246,488	2	2	2	2	2	2	2	2	2	2
1/4	178,011	1/4	195,412	1/4	212,792	1/4	230,141	1/4	246,695	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	178,374	1/2	195,774	1/2	213,153	1/2	230,503	1/2	246,902	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	178,736	3/4	196,137	3/4	213,515	3/4	230,864	3/4	247,109	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	179,099	3	196,499	3	213,876	3	231,226	3	247,316	3	3	3	3	3	3	3	3	3	3
1/4	179,461	1/4	196,862	1/4	214,238	1/4	231,587	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	179,824	1/2	197,224	1/2	214,599	1/2	231,948	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	180,186	3/4	197,587	3/4	214,961	3/4	232,310	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	180,549	4	197,949	4	215,322	4	232,671	4	4	4	4	4	4	4	4	4	4	4	4
1/4	180,911	1/4	198,312	1/4	215,684	1/4	233,033	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	181,274	1/2	198,674	1/2	216,045	1/2	233,394	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	181,636	3/4	199,037	3/4	216,406	3/4	233,756	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	181,999	5	199,399	5	216,768	5	234,117	5	5	5	5	5	5	5	5	5	5	5	5
1/4	182,362	1/4	199,762	1/4	217,129	1/4	234,477	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	182,724	1/2	200,124	1/2	217,491	1/2	234,836	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	183,087	3/4	200,487	3/4	217,852	3/4	235,196	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	183,449	6	200,849	6	218,214	6	235,556	6	6	6	6	6	6	6	6	6	6	6	6
1/4	183,812	1/4	201,212	1/4	218,575	1/4	235,914	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	184,174	1/2	201,574	1/2	218,937	1/2	236,271	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	184,537	3/4	201,937	3/4	219,298	3/4	236,629	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	184,899	7	202,299	7	219,659	7	236,987	7	7	7	7	7	7	7	7	7	7	7	7
1/4	185,262	1/4	202,662	1/4	220,021	1/4	237,345	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	185,624	1/2	203,024	1/2	220,382	1/2	237,703	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	185,987	3/4	203,387	3/4	220,744	3/4	238,061	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	186,349	8	203,750	8	221,105	8	238,419	8	8	8	8	8	8	8	8	8	8	8	8
1/4	186,712	1/4	204,112	1/4	221,467	1/4	238,777	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	187,074	1/2	204,475	1/2	221,828	1/2	239,135	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	187,437	3/4	204,837	3/4	222,190	3/4	239,493	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	187,799	9	205,200	9	222,551	9	239,851	9	9	9	9	9	9	9	9	9	9	9	9
1/4	188,162	1/4	205,562	1/4	222,912	1/4	240,209	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	188,524	1/2	205,923	1/2	223,274	1/2	240,567	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	188,887	3/4	206,285	3/4	223,635	3/4	240,925	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	189,249	10	206,647	10	223,997	10	241,283	10	10	10	10	10	10	10	10	10	10	10	10
1/4	189,612	1/4	207,009	1/4	224,358	1/4	241,640	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	189,974	1/2	207,370	1/2	224,720	1/2	241,997	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	190,337	3/4	207,732	3/4	225,081	3/4	242,355	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	190,699	11	208,093	11	225,443	11	242,712	11	11	11	11	11	11	11	11	11	11	11	11
1/4	191,062	1/4	208,455	1/4	225,804	1/4	243,066	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	191,424	1/2	208,816	1/2	226,165	1/2	243,419	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	191,787	3/4	209,178	3/4	226,527	3/4	243,772	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2012 CL - SW
CALCULATED: 01/30/2012 CL
PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

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



BARGE "HFL 607"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	1,186	0	18,062	0	35,384	0	52,477	0	69,367	0	86,610	0	103,909	0	121,220	0	138,521	0	155,819
1/4	1,457	1/4	18,423	1/4	35,745	1/4	52,827	1/4	69,727	1/4	86,968	1/4	104,269	1/4	121,581	1/4	138,881	1/4	156,179
1/2	1,728	1/2	18,784	1/2	36,106	1/2	53,177	1/2	70,088	1/2	87,327	1/2	104,630	1/2	121,941	1/2	139,242	1/2	156,539
3/4	1,999	3/4	19,145	3/4	36,467	3/4	53,528	3/4	70,448	3/4	87,686	3/4	104,990	3/4	122,302	3/4	139,602	3/4	156,900
1	2,270	1	19,506	1	36,828	1	53,878	1	70,809	1	88,045	1	105,351	1	122,663	1	139,962	1	157,260
1/4	2,608	1/4	19,867	1/4	37,188	1/4	54,229	1/4	71,169	1/4	88,404	1/4	105,711	1/4	123,024	1/4	140,323	1/4	157,620
1/2	2,946	1/2	20,228	1/2	37,549	1/2	54,579	1/2	71,530	1/2	88,763	1/2	106,072	1/2	123,384	1/2	140,683	1/2	157,981
3/4	3,284	3/4	20,589	3/4	37,910	3/4	54,930	3/4	71,890	3/4	89,122	3/4	106,432	3/4	123,745	3/4	141,043	3/4	158,341
2	3,622	2	20,949	2	38,271	2	55,280	2	72,251	2	89,481	2	106,793	2	124,105	2	141,404	2	158,701
1/4	3,982	1/4	21,310	1/4	38,632	1/4	55,632	1/4	72,611	1/4	89,840	1/4	107,153	1/4	124,466	1/4	141,764	1/4	159,062
1/2	4,342	1/2	21,671	1/2	38,993	1/2	55,983	1/2	72,970	1/2	90,200	1/2	107,514	1/2	124,826	1/2	142,125	1/2	159,422
3/4	4,703	3/4	22,032	3/4	39,354	3/4	56,334	3/4	73,330	3/4	90,560	3/4	107,875	3/4	125,187	3/4	142,485	3/4	159,783
3	5,063	3	22,393	3	39,715	3	56,685	3	73,690	3	90,920	3	108,235	3	125,547	3	142,845	3	160,143
1/4	5,424	1/4	22,754	1/4	40,075	1/4	57,036	1/4	74,049	1/4	91,281	1/4	108,596	1/4	125,908	1/4	143,206	1/4	160,503
1/2	5,785	1/2	23,115	1/2	40,436	1/2	57,387	1/2	74,408	1/2	91,642	1/2	108,956	1/2	126,268	1/2	143,566	1/2	160,864
3/4	6,146	3/4	23,476	3/4	40,796	3/4	57,738	3/4	74,766	3/4	92,003	3/4	109,317	3/4	126,629	3/4	143,926	3/4	161,224
4	6,507	4	23,837	4	41,156	4	58,089	4	75,125	4	92,363	4	109,677	4	126,989	4	144,287	4	161,584
1/4	6,868	1/4	24,198	1/4	41,513	1/4	58,440	1/4	75,484	1/4	92,724	1/4	110,038	1/4	127,349	1/4	144,647	1/4	161,945
1/2	7,229	1/2	24,559	1/2	41,870	1/2	58,791	1/2	75,843	1/2	93,085	1/2	110,398	1/2	127,710	1/2	145,007	1/2	162,305
3/4	7,590	3/4	24,919	3/4	42,227	3/4	59,142	3/4	76,202	3/4	93,446	3/4	110,759	3/4	128,070	3/4	145,368	3/4	162,665
5	7,951	5	25,280	5	42,583	5	59,493	5	76,561	5	93,807	5	111,119	5	128,431	5	145,728	5	163,026
1/4	8,312	1/4	25,641	1/4	42,937	1/4	59,844	1/4	76,920	1/4	94,168	1/4	111,480	1/4	128,791	1/4	146,089	1/4	163,386
1/2	8,674	1/2	26,002	1/2	43,290	1/2	60,195	1/2	77,279	1/2	94,529	1/2	111,840	1/2	129,151	1/2	146,449	1/2	163,746
3/4	9,035	3/4	26,363	3/4	43,644	3/4	60,546	3/4	77,637	3/4	94,889	3/4	112,201	3/4	129,512	3/4	146,809	3/4	164,106
6	9,396	6	26,724	6	43,998	6	60,897	6	77,996	6	95,250	6	112,561	6	129,872	6	147,170	6	164,466
1/4	9,757	1/4	27,085	1/4	44,351	1/4	61,248	1/4	78,355	1/4	95,611	1/4	112,922	1/4	130,232	1/4	147,530	1/4	164,822
1/2	10,118	1/2	27,446	1/2	44,705	1/2	61,599	1/2	78,714	1/2	95,972	1/2	113,283	1/2	130,593	1/2	147,890	1/2	165,177
3/4	10,480	3/4	27,807	3/4	45,058	3/4	61,950	3/4	79,073	3/4	96,333	3/4	113,643	3/4	130,953	3/4	148,251	3/4	165,533
7	10,841	7	28,168	7	45,412	7	62,301	7	79,432	7	96,694	7	114,004	7	131,314	7	148,611	7	165,888
1/4	11,202	1/4	28,529	1/4	45,766	1/4	62,652	1/4	79,791	1/4	97,054	1/4	114,365	1/4	131,674	1/4	148,972	1/4	166,232
1/2	11,564	1/2	28,890	1/2	46,119	1/2	63,003	1/2	80,150	1/2	97,415	1/2	114,726	1/2	132,034	1/2	149,332	1/2	166,575
3/4	11,925	3/4	29,250	3/4	46,473	3/4	63,354	3/4	80,509	3/4	97,776	3/4	115,086	3/4	132,395	3/4	149,692	3/4	166,918
8	12,287	8	29,611	8	46,826	8	63,705	8	80,867	8	98,137	8	115,447	8	132,755	8	150,053	8	167,262
1/4	12,648	1/4	29,972	1/4	47,180	1/4	64,057	1/4	81,226	1/4	98,498	1/4	115,808	1/4	133,115	1/4	150,413	1/4	167,589
1/2	13,009	1/2	30,333	1/2	47,533	1/2	64,408	1/2	81,585	1/2	98,859	1/2	116,169	1/2	133,476	1/2	150,773	1/2	167,916
3/4	13,370	3/4	30,694	3/4	47,887	3/4	64,759	3/4	81,944	3/4	99,220	3/4	116,530	3/4	133,836	3/4	151,134	3/4	168,243
9	13,731	9	31,055	9	48,241	9	65,110	9	82,303	9	99,580	9	116,890	9	134,196	9	151,494	9	168,570
1/4	14,092	1/4	31,415	1/4	48,594	1/4	65,462	1/4	82,662	1/4	99,941	1/4	117,251	1/4	134,557	1/4	151,854	1/4	168,882
1/2	14,453	1/2	31,776	1/2	48,948	1/2	65,815	1/2	83,021	1/2	100,302	1/2	117,612	1/2	134,917	1/2	152,215	1/2	169,193
3/4	14,814	3/4	32,137	3/4	49,301	3/4	66,168	3/4	83,380	3/4	100,663	3/4	117,973	3/4	135,278	3/4	152,575	3/4	169,505
10	15,175	10	32,498	10	49,655	10	66,520	10	83,738	10	101,024	10	118,334	10	135,638	10	152,936	10	169,816
1/4	15,536	1/4	32,858	1/4	50,008	1/4	66,874	1/4	84,097	1/4	101,384	1/4	118,694	1/4	135,998	1/4	153,296	1/4	170,112
1/2	15,897	1/2	33,219	1/2	50,362	1/2	67,229	1/2	84,456	1/2	101,745	1/2	119,055	1/2	136,359	1/2	153,656	1/2	170,408
3/4	16,258	3/4	33,580	3/4	50,716	3/4	67,583	3/4	84,815	3/4	102,106	3/4	119,416	3/4	136,719	3/4	154,017	3/4	170,703
11	16,619	11	33,941	11	51,069	11	67,937	11	85,174	11	102,467	11	119,777	11	137,079	11	154,377	11	170,999
1/4	16,979	1/4	34,301	1/4	51,421	1/4	68,294	1/4	85,533	1/4	102,827	1/4	120,137	1/4	137,440	1/4	154,737	1/4	171,279
1/2	17,340	1/2	34,662	1/2	51,773	1/2	68,652	1/2	85,892	1/2	103,188	1/2	120,498	1/2	137,800	1/2	155,098	1/2	171,558
3/4	17,701	3/4	35,023	3/4	52,125	3/4	69,009	3/4	86,251	3/4	103,548	3/4	120,859	3/4	138,161	3/4	155,458	3/4	171,838

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 607"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	172,118	0	184,829	0	197,519	0	210,180	0	222,822	0		0		0		0		0	
1/4	172,386	1/4	185,094	1/4	197,783	1/4	210,444	1/4	223,058	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	172,654	1/2	185,358	1/2	198,047	1/2	210,708	1/2	223,294	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	172,922	3/4	185,623	3/4	198,311	3/4	210,972	3/4	223,530	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	173,190	1	185,887	1	198,574	1	211,235	1	223,766	1	1	1	1	1	1	1	1	1	1
1/4	173,454	1/4	186,152	1/4	198,838	1/4	211,499	1/4	223,961	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	173,719	1/2	186,416	1/2	199,102	1/2	211,763	1/2	224,156	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	173,983	3/4	186,681	3/4	199,366	3/4	212,027	3/4	224,351	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	174,248	2	186,946	2	199,629	2	212,291	2	224,546	2	2	2	2	2	2	2	2	2	2
1/4	174,513	1/4	187,210	1/4	199,893	1/4	212,554	1/4	224,697	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	174,777	1/2	187,475	1/2	200,157	1/2	212,818	1/2	224,848	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	175,042	3/4	187,739	3/4	200,421	3/4	213,082	3/4	224,999	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	175,306	3	188,004	3	200,685	3	213,346	3	225,150	3	3	3	3	3	3	3	3	3	3
1/4	175,571	1/4	188,268	1/4	200,948	1/4	213,609	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	175,835	1/2	188,533	1/2	201,212	1/2	213,873	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	176,100	3/4	188,797	3/4	201,476	3/4	214,137	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	176,364	4	189,062	4	201,740	4	214,401	4		4	4	4	4	4	4	4	4	4	4
1/4	176,629	1/4	189,326	1/4	202,003	1/4	214,664	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	176,893	1/2	189,591	1/2	202,267	1/2	214,928	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	177,158	3/4	189,855	3/4	202,531	3/4	215,192	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	177,422	5	190,120	5	202,795	5	215,456	5		5	5	5	5	5	5	5	5	5	5
1/4	177,687	1/4	190,384	1/4	203,058	1/4	215,720	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	177,951	1/2	190,649	1/2	203,322	1/2	215,983	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	178,216	3/4	190,914	3/4	203,586	3/4	216,247	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	178,480	6	191,178	6	203,850	6	216,511	6		6	6	6	6	6	6	6	6	6	6
1/4	178,745	1/4	191,443	1/4	204,114	1/4	216,775	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	179,010	1/2	191,707	1/2	204,377	1/2	217,038	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	179,274	3/4	191,972	3/4	204,641	3/4	217,302	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	179,539	7	192,236	7	204,905	7	217,566	7		7	7	7	7	7	7	7	7	7	7
1/4	179,803	1/4	192,501	1/4	205,169	1/4	217,830	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	180,068	1/2	192,765	1/2	205,432	1/2	218,094	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	180,332	3/4	193,030	3/4	205,696	3/4	218,357	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	180,597	8	193,294	8	205,960	8	218,621	8		8	8	8	8	8	8	8	8	8	8
1/4	180,861	1/4	193,559	1/4	206,224	1/4	218,885	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	181,126	1/2	193,823	1/2	206,488	1/2	219,149	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	181,390	3/4	194,088	3/4	206,751	3/4	219,413	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	181,655	9	194,352	9	207,015	9	219,677	9		9	9	9	9	9	9	9	9	9	9
1/4	181,919	1/4	194,617	1/4	207,279	1/4	219,941	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	182,184	1/2	194,881	1/2	207,543	1/2	220,204	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	182,448	3/4	195,145	3/4	207,806	3/4	220,468	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	182,713	10	195,409	10	208,070	10	220,732	10		10	10	10	10	10	10	10	10	10	10
1/4	182,978	1/4	195,673	1/4	208,334	1/4	220,995	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	183,242	1/2	195,937	1/2	208,598	1/2	221,259	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	183,507	3/4	196,200	3/4	208,861	3/4	221,522	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	183,771	11	196,464	11	209,125	11	221,786	11		11	11	11	11	11	11	11	11	11	11
1/4	184,036	1/4	196,728	1/4	209,389	1/4	222,045	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	184,300	1/2	196,992	1/2	209,653	1/2	222,304	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	184,565	3/4	197,255	3/4	209,917	3/4	222,563	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2012 CL - SW
CALCULATED: 01/30/2012 CL
PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 607"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	1,186	0	18,072	0	35,420	0	52,751	0	70,098	0	87,446	0	104,793	0	122,141	0	139,473	0	156,801
1/4	1,457	1/4	18,434	1/4	35,781	1/4	53,112	1/4	70,459	1/4	87,807	1/4	105,155	1/4	122,503	1/4	139,834	1/4	157,162
1/2	1,728	1/2	18,795	1/2	36,143	1/2	53,474	1/2	70,820	1/2	88,168	1/2	105,516	1/2	122,864	1/2	140,195	1/2	157,523
3/4	1,999	3/4	19,157	3/4	36,504	3/4	53,835	3/4	71,182	3/4	88,530	3/4	105,878	3/4	123,226	3/4	140,556	3/4	157,884
1	2,270	1	19,518	1	36,865	1	54,196	1	71,543	1	88,891	1	106,239	1	123,587	1	140,917	1	158,245
1/4	2,608	1/4	19,879	1/4	37,227	1/4	54,557	1/4	71,905	1/4	89,253	1/4	106,601	1/4	123,948	1/4	141,278	1/4	158,606
1/2	2,946	1/2	20,241	1/2	37,588	1/2	54,918	1/2	72,266	1/2	89,614	1/2	106,962	1/2	124,310	1/2	141,639	1/2	158,967
3/4	3,284	3/4	20,602	3/4	37,950	3/4	55,280	3/4	72,627	3/4	89,975	3/4	107,323	3/4	124,671	3/4	142,000	3/4	159,328
2	3,622	2	20,964	2	38,311	2	55,641	2	72,989	2	90,337	2	107,685	2	125,032	2	142,361	2	159,689
1/4	3,982	1/4	21,325	1/4	38,672	1/4	56,002	1/4	73,350	1/4	90,698	1/4	108,046	1/4	125,393	1/4	142,722	1/4	160,050
1/2	4,342	1/2	21,686	1/2	39,034	1/2	56,364	1/2	73,712	1/2	91,060	1/2	108,408	1/2	125,754	1/2	143,083	1/2	160,411
3/4	4,703	3/4	22,048	3/4	39,395	3/4	56,725	3/4	74,073	3/4	91,421	3/4	108,769	3/4	126,115	3/4	143,444	3/4	160,772
3	5,063	3	22,409	3	39,757	3	57,087	3	74,435	3	91,783	3	109,130	3	126,477	3	143,805	3	161,133
1/4	5,424	1/4	22,771	1/4	40,118	1/4	57,448	1/4	74,796	1/4	92,144	1/4	109,492	1/4	126,838	1/4	144,166	1/4	161,494
1/2	5,785	1/2	23,132	1/2	40,479	1/2	57,809	1/2	75,157	1/2	92,505	1/2	109,853	1/2	127,199	1/2	144,527	1/2	161,855
3/4	6,146	3/4	23,493	3/4	40,840	3/4	58,171	3/4	75,519	3/4	92,867	3/4	110,215	3/4	127,560	3/4	144,888	3/4	162,216
4	6,507	4	23,855	4	41,201	4	58,532	4	75,880	4	93,228	4	110,576	4	127,921	4	145,249	4	162,577
1/4	6,869	1/4	24,216	1/4	41,562	1/4	58,894	1/4	76,242	1/4	93,590	1/4	110,938	1/4	128,282	1/4	145,610	1/4	162,938
1/2	7,230	1/2	24,578	1/2	41,923	1/2	59,255	1/2	76,603	1/2	93,951	1/2	111,299	1/2	128,643	1/2	145,971	1/2	163,299
3/4	7,592	3/4	24,939	3/4	42,284	3/4	59,617	3/4	76,964	3/4	94,312	3/4	111,660	3/4	129,004	3/4	146,332	3/4	163,659
5	7,953	5	25,300	5	42,645	5	59,978	5	77,326	5	94,674	5	112,022	5	129,365	5	146,693	5	164,020
1/4	8,314	1/4	25,662	1/4	43,006	1/4	60,339	1/4	77,687	1/4	95,035	1/4	112,383	1/4	129,726	1/4	147,054	1/4	164,381
1/2	8,676	1/2	26,023	1/2	43,367	1/2	60,701	1/2	78,049	1/2	95,397	1/2	112,745	1/2	130,087	1/2	147,415	1/2	164,742
3/4	9,037	3/4	26,385	3/4	43,728	3/4	61,062	3/4	78,410	3/4	95,758	3/4	113,106	3/4	130,448	3/4	147,776	3/4	165,102
6	9,399	6	26,746	6	44,089	6	61,424	6	78,772	6	96,119	6	113,467	6	130,809	6	148,137	6	165,463
1/4	9,760	1/4	27,107	1/4	44,450	1/4	61,785	1/4	79,133	1/4	96,481	1/4	113,829	1/4	131,170	1/4	148,498	1/4	165,819
1/2	10,121	1/2	27,469	1/2	44,811	1/2	62,146	1/2	79,494	1/2	96,842	1/2	114,190	1/2	131,531	1/2	148,859	1/2	166,176
3/4	10,483	3/4	27,830	3/4	45,171	3/4	62,508	3/4	79,856	3/4	97,204	3/4	114,552	3/4	131,892	3/4	149,220	3/4	166,532
7	10,844	7	28,192	7	45,532	7	62,869	7	80,217	7	97,565	7	114,913	7	132,253	7	149,581	7	166,888
1/4	11,206	1/4	28,553	1/4	45,893	1/4	63,231	1/4	80,579	1/4	97,927	1/4	115,275	1/4	132,614	1/4	149,942	1/4	167,232
1/2	11,567	1/2	28,914	1/2	46,254	1/2	63,592	1/2	80,940	1/2	98,288	1/2	115,636	1/2	132,975	1/2	150,303	1/2	167,576
3/4	11,928	3/4	29,276	3/4	46,615	3/4	63,954	3/4	81,301	3/4	98,649	3/4	115,997	3/4	133,336	3/4	150,664	3/4	167,920
8	12,290	8	29,637	8	46,976	8	64,315	8	81,663	8	99,011	8	116,359	8	133,697	8	151,025	8	168,264
1/4	12,651	1/4	29,999	1/4	47,337	1/4	64,676	1/4	82,024	1/4	99,372	1/4	116,720	1/4	134,058	1/4	151,386	1/4	168,592
1/2	13,013	1/2	30,360	1/2	47,698	1/2	65,038	1/2	82,386	1/2	99,734	1/2	117,082	1/2	134,419	1/2	151,747	1/2	168,919
3/4	13,374	3/4	30,722	3/4	48,059	3/4	65,399	3/4	82,747	3/4	100,095	3/4	117,443	3/4	134,780	3/4	152,108	3/4	169,247
9	13,735	9	31,083	9	48,420	9	65,761	9	83,109	9	100,456	9	117,804	9	135,141	9	152,469	9	169,575
1/4	14,097	1/4	31,444	1/4	48,781	1/4	66,122	1/4	83,470	1/4	100,818	1/4	118,166	1/4	135,502	1/4	152,830	1/4	169,887
1/2	14,458	1/2	31,806	1/2	49,142	1/2	66,483	1/2	83,831	1/2	101,179	1/2	118,527	1/2	135,863	1/2	153,191	1/2	170,199
3/4	14,820	3/4	32,167	3/4	49,502	3/4	66,845	3/4	84,193	3/4	101,541	3/4	118,889	3/4	136,224	3/4	153,552	3/4	170,510
10	15,181	10	32,529	10	49,863	10	67,206	10	84,554	10	101,902	10	119,250	10	136,585	10	153,913	10	170,822
1/4	15,542	1/4	32,890	1/4	50,224	1/4	67,568	1/4	84,916	1/4	102,264	1/4	119,611	1/4	136,946	1/4	154,274	1/4	171,118
1/2	15,904	1/2	33,251	1/2	50,585	1/2	67,929	1/2	85,277	1/2	102,625	1/2	119,973	1/2	137,307	1/2	154,635	1/2	171,414
3/4	16,265	3/4	33,613	3/4	50,946	3/4	68,290	3/4	85,638	3/4	102,986	3/4	120,334	3/4	137,668	3/4	154,996	3/4	171,710
11	16,627	11	33,974	11	51,307	11	68,652	11	86,000	11	103,348	11	120,696	11	138,029	11	155,357	11	172,006
1/4	16,988	1/4	34,336	1/4	51,668	1/4	69,013	1/4	86,361	1/4	103,709	1/4	121,057	1/4	138,390	1/4	155,718	1/4	172,285
1/2	17,350	1/2	34,697	1/2	52,029	1/2	69,375	1/2	86,723	1/2	104,071	1/2	121,419	1/2	138,751	1/2	156,079	1/2	172,565
3/4	17,711	3/4	35,058	3/4	52,390	3/4	69,736	3/4	87,084	3/4	104,432	3/4	121,780	3/4	139,112	3/4	156,440	3/4	172,845

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 607"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	173,124	0	185,837	0	198,527	0	211,189	0	223,831	0		0		0		0		0	
1/4	173,393	1/4	186,101	1/4	198,791	1/4	211,452	1/4	224,067	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	173,661	1/2	186,366	1/2	199,055	1/2	211,716	1/2	224,303	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	173,929	3/4	186,630	3/4	199,319	3/4	211,980	3/4	224,539	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	174,197	1	186,895	1	199,582	1	212,244	1	224,775	1	1	1	1	1	1	1	1	1	1
1/4	174,461	1/4	187,159	1/4	199,846	1/4	212,508	1/4	224,970	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	174,726	1/2	187,424	1/2	200,110	1/2	212,771	1/2	225,165	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	174,991	3/4	187,689	3/4	200,374	3/4	213,035	3/4	225,360	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	175,255	2	187,953	2	200,637	2	213,299	2	225,555	2	2	2	2	2	2	2	2	2	2
1/4	175,520	1/4	188,218	1/4	200,901	1/4	213,563	1/4	225,706	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	175,784	1/2	188,482	1/2	201,165	1/2	213,827	1/2	225,857	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	176,049	3/4	188,747	3/4	201,429	3/4	214,090	3/4	226,008	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	176,313	3	189,011	3	201,693	3	214,354	3	226,159	3	3	3	3	3	3	3	3	3	3
1/4	176,578	1/4	189,276	1/4	201,956	1/4	214,618	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	176,842	1/2	189,540	1/2	202,220	1/2	214,882	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	177,107	3/4	189,805	3/4	202,484	3/4	215,145	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	177,371	4	190,069	4	202,748	4	215,409	4		4	4	4	4	4	4	4	4	4	4
1/4	177,636	1/4	190,334	1/4	203,011	1/4	215,673	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	177,900	1/2	190,599	1/2	203,275	1/2	215,937	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	178,165	3/4	190,863	3/4	203,539	3/4	216,201	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	178,430	5	191,128	5	203,803	5	216,464	5		5	5	5	5	5	5	5	5	5	5
1/4	178,694	1/4	191,392	1/4	204,067	1/4	216,728	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	178,959	1/2	191,657	1/2	204,330	1/2	216,992	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	179,223	3/4	191,921	3/4	204,594	3/4	217,256	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	179,488	6	192,186	6	204,858	6	217,519	6		6	6	6	6	6	6	6	6	6	6
1/4	179,752	1/4	192,450	1/4	205,122	1/4	217,783	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	180,017	1/2	192,715	1/2	205,385	1/2	218,047	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	180,281	3/4	192,979	3/4	205,649	3/4	218,311	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	180,546	7	193,244	7	205,913	7	218,575	7		7	7	7	7	7	7	7	7	7	7
1/4	180,810	1/4	193,508	1/4	206,177	1/4	218,838	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	181,075	1/2	193,773	1/2	206,441	1/2	219,102	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	181,340	3/4	194,038	3/4	206,704	3/4	219,366	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	181,604	8	194,302	8	206,968	8	219,630	8		8	8	8	8	8	8	8	8	8	8
1/4	181,869	1/4	194,567	1/4	207,232	1/4	219,894	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	182,133	1/2	194,831	1/2	207,496	1/2	220,158	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	182,398	3/4	195,096	3/4	207,760	3/4	220,422	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	182,662	9	195,360	9	208,023	9	220,686	9		9	9	9	9	9	9	9	9	9	9
1/4	182,927	1/4	195,624	1/4	208,287	1/4	220,949	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	183,191	1/2	195,889	1/2	208,551	1/2	221,213	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	183,456	3/4	196,153	3/4	208,815	3/4	221,477	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	183,720	10	196,417	10	209,078	10	221,741	10		10	10	10	10	10	10	10	10	10	10
1/4	183,985	1/4	196,681	1/4	209,342	1/4	222,004	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	184,249	1/2	196,944	1/2	209,606	1/2	222,268	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	184,514	3/4	197,208	3/4	209,870	3/4	222,531	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	184,779	11	197,472	11	210,134	11	222,795	11		11	11	11	11	11	11	11	11	11	11
1/4	185,043	1/4	197,736	1/4	210,397	1/4	223,054	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	185,308	1/2	198,000	1/2	210,661	1/2	223,313	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	185,572	3/4	198,263	3/4	210,925	3/4	223,572	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/30/2012 CL - SW
CALCULATED: 01/30/2012 CL
PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 607"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,249	0	2,402	0	3,553	0	4,706	0		0		0		0		0	
1/4	120	1/4	1,273	1/4	2,426	1/4	3,578	1/4	4,730	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,297	1/2	2,449	1/2	3,602	1/2	4,754	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,321	3/4	2,473	3/4	3,626	3/4	4,777	3/4		3/4		3/4		3/4		3/4	
1	192	1	1,345	1	2,497	1	3,650	1	4,801	1		1		1		1		1	
1/4	216	1/4	1,369	1/4	2,521	1/4	3,674	1/4	4,825	1/4		1/4		1/4		1/4		1/4	
1/2	240	1/2	1,393	1/2	2,545	1/2	3,698	1/2	4,848	1/2		1/2		1/2		1/2		1/2	
3/4	264	3/4	1,417	3/4	2,569	3/4	3,722	3/4	4,872	3/4		3/4		3/4		3/4		3/4	
2	288	2	1,441	2	2,593	2	3,746	2	4,896	2		2		2		2		2	
1/4	312	1/4	1,465	1/4	2,617	1/4	3,770	1/4	4,919	1/4		1/4		1/4		1/4		1/4	
1/2	336	1/2	1,489	1/2	2,641	1/2	3,794	1/2	4,943	1/2		1/2		1/2		1/2		1/2	
3/4	360	3/4	1,513	3/4	2,665	3/4	3,818	3/4	4,967	3/4		3/4		3/4		3/4		3/4	
3	384	3	1,537	3	2,689	3	3,842	3	4,990	3		3		3		3		3	
1/4	408	1/4	1,561	1/4	2,713	1/4	3,866	1/4	5,014	1/4		1/4		1/4		1/4		1/4	
1/2	432	1/2	1,585	1/2	2,737	1/2	3,890	1/2	5,037	1/2		1/2		1/2		1/2		1/2	
3/4	456	3/4	1,609	3/4	2,761	3/4	3,914	3/4	5,061	3/4		3/4		3/4		3/4		3/4	
4	480	4	1,633	4	2,785	4	3,938	4	5,084	4		4		4		4		4	
1/4	504	1/4	1,657	1/4	2,809	1/4	3,962	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	528	1/2	1,681	1/2	2,833	1/2	3,986	1/2	5,108	1/2		1/2		1/2		1/2		1/2	
3/4	552	3/4	1,705	3/4	2,857	3/4	4,010	3/4	5,119	3/4		3/4		3/4		3/4		3/4	
5	577	5	1,729	5	2,881	5	4,034	5	5,131	5		5		5		5		5	
1/4	601	1/4	1,753	1/4	2,905	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	625	1/2	1,777	1/2	2,929	1/2	4,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,801	3/4	2,953	3/4	4,106	3/4		3/4		3/4		3/4		3/4		3/4	
6	673	6	1,825	6	2,977	6	4,130	6		6		6		6		6		6	
1/4	697	1/4	1,849	1/4	3,001	1/4	4,154	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	721	1/2	1,873	1/2	3,025	1/2	4,178	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	745	3/4	1,897	3/4	3,049	3/4	4,202	3/4		3/4		3/4		3/4		3/4		3/4	
7	769	7	1,921	7	3,073	7	4,226	7		7		7		7		7		7	
1/4	793	1/4	1,945	1/4	3,097	1/4	4,250	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	817	1/2	1,969	1/2	3,121	1/2	4,274	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	841	3/4	1,993	3/4	3,145	3/4	4,298	3/4		3/4		3/4		3/4		3/4		3/4	
8	865	8	2,017	8	3,169	8	4,322	8		8		8		8		8		8	
1/4	889	1/4	2,042	1/4	3,193	1/4	4,346	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	913	1/2	2,066	1/2	3,217	1/2	4,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	937	3/4	2,090	3/4	3,241	3/4	4,394	3/4		3/4		3/4		3/4		3/4		3/4	
9	961	9	2,114	9	3,265	9	4,418	9		9		9		9		9		9	
1/4	985	1/4	2,138	1/4	3,289	1/4	4,442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,009	1/2	2,162	1/2	3,313	1/2	4,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,186	3/4	3,337	3/4	4,490	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,057	10	2,210	10	3,361	10	4,514	10		10		10		10		10		10	
1/4	1,081	1/4	2,234	1/4	3,385	1/4	4,538	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,105	1/2	2,258	1/2	3,409	1/2	4,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,129	3/4	2,282	3/4	3,433	3/4	4,586	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,153	11	2,306	11	3,457	11	4,610	11		11		11		11		11		11	
1/4	1,177	1/4	2,330	1/4	3,481	1/4	4,634	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,201	1/2	2,354	1/2	3,505	1/2	4,658	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,225	3/4	2,378	3/4	3,529	3/4	4,682	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
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CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

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PRINTED: 01/30/2012 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2012

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



BARGE "HFL 607"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

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	1,249	0	2,402	0	3,553	0	4,706	0		0		0		0		0	
1/4	120	1/4	1,273	1/4	2,426	1/4	3,578	1/4	4,730	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,297	1/2	2,449	1/2	3,602	1/2	4,754	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,321	3/4	2,473	3/4	3,626	3/4	4,777	3/4		3/4		3/4		3/4		3/4	
1	192	1	1,345	1	2,497	1	3,650	1	4,801	1		1		1		1		1	
1/4	216	1/4	1,369	1/4	2,521	1/4	3,674	1/4	4,825	1/4		1/4		1/4		1/4		1/4	
1/2	240	1/2	1,393	1/2	2,545	1/2	3,698	1/2	4,848	1/2		1/2		1/2		1/2		1/2	
3/4	264	3/4	1,417	3/4	2,569	3/4	3,722	3/4	4,872	3/4		3/4		3/4		3/4		3/4	
2	288	2	1,441	2	2,593	2	3,746	2	4,896	2		2		2		2		2	
1/4	312	1/4	1,465	1/4	2,617	1/4	3,770	1/4	4,919	1/4		1/4		1/4		1/4		1/4	
1/2	336	1/2	1,489	1/2	2,641	1/2	3,794	1/2	4,943	1/2		1/2		1/2		1/2		1/2	
3/4	360	3/4	1,513	3/4	2,665	3/4	3,818	3/4	4,967	3/4		3/4		3/4		3/4		3/4	
3	384	3	1,537	3	2,689	3	3,842	3	4,990	3		3		3		3		3	
1/4	408	1/4	1,561	1/4	2,713	1/4	3,866	1/4	5,014	1/4		1/4		1/4		1/4		1/4	
1/2	432	1/2	1,585	1/2	2,737	1/2	3,890	1/2	5,037	1/2		1/2		1/2		1/2		1/2	
3/4	456	3/4	1,609	3/4	2,761	3/4	3,914	3/4	5,061	3/4		3/4		3/4		3/4		3/4	
4	480	4	1,633	4	2,785	4	3,938	4	5,084	4		4		4		4		4	
1/4	504	1/4	1,657	1/4	2,809	1/4	3,962	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	528	1/2	1,681	1/2	2,833	1/2	3,986	1/2	5,108	1/2		1/2		1/2		1/2		1/2	
3/4	552	3/4	1,705	3/4	2,857	3/4	4,010	3/4	5,119	3/4		3/4		3/4		3/4		3/4	
5	577	5	1,729	5	2,881	5	4,034	5	5,131	5		5		5		5		5	
1/4	601	1/4	1,753	1/4	2,905	1/4	4,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	625	1/2	1,777	1/2	2,929	1/2	4,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	649	3/4	1,801	3/4	2,953	3/4	4,106	3/4		3/4		3/4		3/4		3/4		3/4	
6	673	6	1,825	6	2,977	6	4,130	6		6		6		6		6		6	
1/4	697	1/4	1,849	1/4	3,001	1/4	4,154	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	721	1/2	1,873	1/2	3,025	1/2	4,178	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	745	3/4	1,897	3/4	3,049	3/4	4,202	3/4		3/4		3/4		3/4		3/4		3/4	
7	769	7	1,921	7	3,073	7	4,226	7		7		7		7		7		7	
1/4	793	1/4	1,945	1/4	3,097	1/4	4,250	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	817	1/2	1,969	1/2	3,121	1/2	4,274	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	841	3/4	1,993	3/4	3,145	3/4	4,298	3/4		3/4		3/4		3/4		3/4		3/4	
8	865	8	2,017	8	3,169	8	4,322	8		8		8		8		8		8	
1/4	889	1/4	2,042	1/4	3,193	1/4	4,346	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	913	1/2	2,066	1/2	3,217	1/2	4,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	937	3/4	2,090	3/4	3,241	3/4	4,394	3/4		3/4		3/4		3/4		3/4		3/4	
9	961	9	2,114	9	3,265	9	4,418	9		9		9		9		9		9	
1/4	985	1/4	2,138	1/4	3,289	1/4	4,442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,009	1/2	2,162	1/2	3,313	1/2	4,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,033	3/4	2,186	3/4	3,337	3/4	4,490	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,057	10	2,210	10	3,361	10	4,514	10		10		10		10		10		10	
1/4	1,081	1/4	2,234	1/4	3,385	1/4	4,538	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,105	1/2	2,258	1/2	3,409	1/2	4,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,129	3/4	2,282	3/4	3,433	3/4	4,586	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,153	11	2,306	11	3,457	11	4,610	11		11		11		11		11		11	
1/4	1,177	1/4	2,330	1/4	3,481	1/4	4,634	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,201	1/2	2,354	1/2	3,505	1/2	4,658	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,225	3/4	2,378	3/4	3,529	3/4	4,682	3/4		3/4		3/4		3/4		3/4		3/4	

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