



# BARGE "HFL 427"

## INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 236'-00"

October 22, 2013

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 427"

## 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	921	0	12,741	0	26,709	0	41,107	0	55,443	0	69,798	0	84,197	0	98,595	0	112,989	0	127,380
1/4	1,098	1/4	13,016	1/4	27,009	1/4	41,407	1/4	55,740	1/4	70,098	1/4	84,497	1/4	98,895	1/4	113,289	1/4	127,680
1/2	1,275	1/2	13,291	1/2	27,309	1/2	41,707	1/2	56,038	1/2	70,398	1/2	84,797	1/2	99,195	1/2	113,588	1/2	127,980
3/4	1,452	3/4	13,566	3/4	27,609	3/4	42,007	3/4	56,336	3/4	70,698	3/4	85,097	3/4	99,495	3/4	113,888	3/4	128,280
1	1,629	1	13,841	1	27,909	1	42,306	1	56,633	1	70,998	1	85,397	1	99,795	1	114,188	1	128,580
1/4	1,847	1/4	14,119	1/4	28,209	1/4	42,606	1/4	56,931	1/4	71,298	1/4	85,697	1/4	100,095	1/4	114,488	1/4	128,880
1/2	2,064	1/2	14,397	1/2	28,509	1/2	42,906	1/2	57,228	1/2	71,598	1/2	85,997	1/2	100,395	1/2	114,788	1/2	129,179
3/4	2,282	3/4	14,676	3/4	28,809	3/4	43,206	3/4	57,526	3/4	71,898	3/4	86,296	3/4	100,695	3/4	115,088	3/4	129,479
2	2,499	2	14,954	2	29,108	2	43,506	2	57,824	2	72,198	2	86,596	2	100,995	2	115,387	2	129,779
1/4	2,738	1/4	15,236	1/4	29,408	1/4	43,806	1/4	58,121	1/4	72,498	1/4	86,896	1/4	101,295	1/4	115,687	1/4	130,079
1/2	2,977	1/2	15,517	1/2	29,708	1/2	44,106	1/2	58,419	1/2	72,798	1/2	87,196	1/2	101,595	1/2	115,987	1/2	130,379
3/4	3,216	3/4	15,799	3/4	30,008	3/4	44,406	3/4	58,717	3/4	73,098	3/4	87,496	3/4	101,895	3/4	116,287	3/4	130,679
3	3,454	3	16,080	3	30,308	3	44,706	3	59,014	3	73,398	3	87,796	3	102,195	3	116,587	3	130,978
1/4	3,698	1/4	16,365	1/4	30,608	1/4	45,006	1/4	59,312	1/4	73,698	1/4	88,096	1/4	102,494	1/4	116,886	1/4	131,278
1/2	3,941	1/2	16,650	1/2	30,908	1/2	45,306	1/2	59,610	1/2	73,998	1/2	88,396	1/2	102,794	1/2	117,186	1/2	131,578
3/4	4,184	3/4	16,935	3/4	31,208	3/4	45,606	3/4	59,908	3/4	74,298	3/4	88,696	3/4	103,094	3/4	117,486	3/4	131,878
4	4,428	4	17,220	4	31,508	4	45,906	4	60,205	4	74,598	4	88,996	4	103,394	4	117,786	4	132,178
1/4	4,675	1/4	17,509	1/4	31,808	1/4	46,205	1/4	60,504	1/4	74,898	1/4	89,296	1/4	103,694	1/4	118,086	1/4	132,478
1/2	4,923	1/2	17,797	1/2	32,108	1/2	46,504	1/2	60,803	1/2	75,198	1/2	89,596	1/2	103,994	1/2	118,386	1/2	132,777
3/4	5,170	3/4	18,085	3/4	32,408	3/4	46,804	3/4	61,101	3/4	75,498	3/4	89,896	3/4	104,294	3/4	118,685	3/4	133,077
5	5,417	5	18,373	5	32,708	5	47,103	5	61,400	5	75,798	5	90,196	5	104,593	5	118,985	5	133,377
1/4	5,669	1/4	18,665	1/4	33,008	1/4	47,401	1/4	61,700	1/4	76,098	1/4	90,496	1/4	104,893	1/4	119,285	1/4	133,677
1/2	5,920	1/2	18,957	1/2	33,308	1/2	47,700	1/2	62,000	1/2	76,398	1/2	90,796	1/2	105,193	1/2	119,585	1/2	133,977
3/4	6,171	3/4	19,248	3/4	33,608	3/4	47,998	3/4	62,300	3/4	76,698	3/4	91,096	3/4	105,493	3/4	119,885	3/4	134,277
6	6,422	6	19,540	6	33,908	6	48,297	6	62,599	6	76,998	6	91,396	6	105,793	6	120,185	6	134,576
1/4	6,677	1/4	19,835	1/4	34,208	1/4	48,595	1/4	62,899	1/4	77,298	1/4	91,696	1/4	106,093	1/4	120,484	1/4	134,876
1/2	6,932	1/2	20,130	1/2	34,508	1/2	48,894	1/2	63,199	1/2	77,598	1/2	91,996	1/2	106,392	1/2	120,784	1/2	135,176
3/4	7,187	3/4	20,425	3/4	34,808	3/4	49,192	3/4	63,499	3/4	77,897	3/4	92,296	3/4	106,692	3/4	121,084	3/4	135,476
7	7,442	7	20,720	7	35,108	7	49,490	7	63,799	7	78,197	7	92,596	7	106,992	7	121,384	7	135,776
1/4	7,700	1/4	21,018	1/4	35,408	1/4	49,788	1/4	64,099	1/4	78,497	1/4	92,896	1/4	107,292	1/4	121,684	1/4	136,076
1/2	7,958	1/2	21,315	1/2	35,707	1/2	50,086	1/2	64,399	1/2	78,797	1/2	93,196	1/2	107,592	1/2	121,984	1/2	136,375
3/4	8,217	3/4	21,613	3/4	36,007	3/4	50,384	3/4	64,699	3/4	79,097	3/4	93,496	3/4	107,892	3/4	122,283	3/4	136,675
8	8,475	8	21,911	8	36,307	8	50,681	8	64,999	8	79,397	8	93,796	8	108,191	8	122,583	8	136,975
1/4	8,737	1/4	22,211	1/4	36,607	1/4	50,979	1/4	65,299	1/4	79,697	1/4	94,096	1/4	108,491	1/4	122,883	1/4	137,275
1/2	8,998	1/2	22,510	1/2	36,907	1/2	51,277	1/2	65,599	1/2	79,997	1/2	94,396	1/2	108,791	1/2	123,183	1/2	137,575
3/4	9,260	3/4	22,810	3/4	37,207	3/4	51,574	3/4	65,899	3/4	80,297	3/4	94,695	3/4	109,091	3/4	123,483	3/4	137,874
9	9,521	9	23,109	9	37,507	9	51,872	9	66,199	9	80,597	9	94,995	9	109,391	9	123,783	9	138,174
1/4	9,786	1/4	23,409	1/4	37,807	1/4	52,169	1/4	66,499	1/4	80,897	1/4	95,295	1/4	109,691	1/4	124,082	1/4	138,474
1/2	10,051	1/2	23,709	1/2	38,107	1/2	52,467	1/2	66,799	1/2	81,197	1/2	95,595	1/2	109,990	1/2	124,382	1/2	138,774
3/4	10,316	3/4	24,009	3/4	38,407	3/4	52,765	3/4	67,099	3/4	81,497	3/4	95,895	3/4	110,290	3/4	124,682	3/4	139,074
10	10,581	10	24,309	10	38,707	10	53,062	10	67,399	10	81,797	10	96,195	10	110,590	10	124,982	10	139,374
1/4	10,850	1/4	24,609	1/4	39,007	1/4	53,360	1/4	67,699	1/4	82,097	1/4	96,495	1/4	110,890	1/4	125,282	1/4	139,673
1/2	11,118	1/2	24,909	1/2	39,307	1/2	53,657	1/2	67,999	1/2	82,397	1/2	96,795	1/2	111,190	1/2	125,582	1/2	139,973
3/4	11,386	3/4	25,209	3/4	39,607	3/4	53,955	3/4	68,299	3/4	82,697	3/4	97,095	3/4	111,490	3/4	125,881	3/4	140,273
11	11,654	11	25,509	11	39,907	11	54,253	11	68,599	11	82,997	11	97,395	11	111,789	11	126,181	11	140,573
1/4	11,926	1/4	25,809	1/4	40,207	1/4	54,550	1/4	68,899	1/4	83,297	1/4	97,695	1/4	112,089	1/4	126,481	1/4	140,873
1/2	12,198	1/2	26,109	1/2	40,507	1/2	54,848	1/2	69,199	1/2	83,597	1/2	97,995	1/2	112,389	1/2	126,781	1/2	141,173
3/4	12,469	3/4	26,409	3/4	40,807	3/4	55,145	3/4	69,498	3/4	83,897	3/4	98,295	3/4	112,689	3/4	127,081	3/4	141,472

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 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HFL 427"

## 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	141,772	0	156,164	0	170,547	0	184,895	0	199,111	0		0		0		0		0	
1/4	142,072	1/4	156,464	1/4	170,846	1/4	185,194	1/4	199,365	1/4		1/4		1/4		1/4		1/4	
1/2	142,372	1/2	156,764	1/2	171,145	1/2	185,493	1/2	199,618	1/2		1/2		1/2		1/2		1/2	
3/4	142,672	3/4	157,064	3/4	171,443	3/4	185,791	3/4	199,871	3/4		3/4		3/4		3/4		3/4	
1	142,972	1	157,363	1	171,742	1	186,090	1	200,124	1		1		1		1		1	
1/4	143,271	1/4	157,663	1/4	172,041	1/4	186,389	1/4	200,334	1/4		1/4		1/4		1/4		1/4	
1/2	143,571	1/2	157,963	1/2	172,340	1/2	186,688	1/2	200,545	1/2		1/2		1/2		1/2		1/2	
3/4	143,871	3/4	158,263	3/4	172,639	3/4	186,987	3/4	200,755	3/4		3/4		3/4		3/4		3/4	
2	144,171	2	158,563	2	172,938	2	187,286	2	200,965	2		2		2		2		2	
1/4	144,471	1/4	158,863	1/4	173,237	1/4	187,585	1/4	201,133	1/4		1/4		1/4		1/4		1/4	
1/2	144,771	1/2	159,162	1/2	173,536	1/2	187,884	1/2	201,301	1/2		1/2		1/2		1/2		1/2	
3/4	145,070	3/4	159,462	3/4	173,835	3/4	188,183	3/4	201,468	3/4		3/4		3/4		3/4		3/4	
3	145,370	3	159,762	3	174,134	3	188,482	3	201,636	3		3		3		3		3	
1/4	145,670	1/4	160,062	1/4	174,433	1/4	188,781	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	145,970	1/2	160,362	1/2	174,732	1/2	189,080	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	146,270	3/4	160,661	3/4	175,030	3/4	189,378	3/4		3/4		3/4		3/4		3/4		3/4	
4	146,570	4	160,961	4	175,329	4	189,677	4		4		4		4		4		4	
1/4	146,869	1/4	161,261	1/4	175,628	1/4	189,976	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,169	1/2	161,561	1/2	175,927	1/2	190,275	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,469	3/4	161,861	3/4	176,226	3/4	190,574	3/4		3/4		3/4		3/4		3/4		3/4	
5	147,769	5	162,161	5	176,525	5	190,873	5		5		5		5		5		5	
1/4	148,069	1/4	162,460	1/4	176,824	1/4	191,170	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,369	1/2	162,760	1/2	177,123	1/2	191,468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,668	3/4	163,060	3/4	177,422	3/4	191,765	3/4		3/4		3/4		3/4		3/4		3/4	
6	148,968	6	163,360	6	177,721	6	192,063	6		6		6		6		6		6	
1/4	149,268	1/4	163,660	1/4	178,020	1/4	192,359	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,568	1/2	163,960	1/2	178,319	1/2	192,655	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,868	3/4	164,259	3/4	178,617	3/4	192,951	3/4		3/4		3/4		3/4		3/4		3/4	
7	150,167	7	164,559	7	178,916	7	193,247	7		7		7		7		7		7	
1/4	150,467	1/4	164,859	1/4	179,215	1/4	193,542	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,767	1/2	165,159	1/2	179,514	1/2	193,838	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,067	3/4	165,459	3/4	179,813	3/4	194,134	3/4		3/4		3/4		3/4		3/4		3/4	
8	151,367	8	165,759	8	180,112	8	194,430	8		8		8		8		8		8	
1/4	151,667	1/4	166,058	1/4	180,411	1/4	194,726	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,966	1/2	166,358	1/2	180,710	1/2	195,022	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,266	3/4	166,658	3/4	181,009	3/4	195,318	3/4		3/4		3/4		3/4		3/4		3/4	
9	152,566	9	166,958	9	181,308	9	195,614	9		9		9		9		9		9	
1/4	152,866	1/4	167,257	1/4	181,607	1/4	195,910	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,166	1/2	167,557	1/2	181,906	1/2	196,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,466	3/4	167,856	3/4	182,204	3/4	196,501	3/4		3/4		3/4		3/4		3/4		3/4	
10	153,765	10	168,155	10	182,503	10	196,796	10		10		10		10		10		10	
1/4	154,065	1/4	168,454	1/4	182,802	1/4	197,091	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,365	1/2	168,753	1/2	183,101	1/2	197,385	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,665	3/4	169,052	3/4	183,400	3/4	197,680	3/4		3/4		3/4		3/4		3/4		3/4	
11	154,965	11	169,351	11	183,699	11	197,974	11		11		11		11		11		11	
1/4	155,265	1/4	169,650	1/4	183,998	1/4	198,259	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,564	1/2	169,949	1/2	184,297	1/2	198,543	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,864	3/4	170,248	3/4	184,596	3/4	198,827	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HFL 427"

1 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	921	0	12,741	0	26,708	0	41,106	0	55,499	0	69,894	0	84,292	0	98,690	0	113,084	0	127,475
1/4	1,098	1/4	13,016	1/4	27,008	1/4	41,406	1/4	55,799	1/4	70,194	1/4	84,592	1/4	98,990	1/4	113,383	1/4	127,775
1/2	1,275	1/2	13,291	1/2	27,308	1/2	41,706	1/2	56,098	1/2	70,494	1/2	84,892	1/2	99,290	1/2	113,683	1/2	128,075
3/4	1,452	3/4	13,566	3/4	27,608	3/4	42,006	3/4	56,398	3/4	70,794	3/4	85,192	3/4	99,590	3/4	113,983	3/4	128,375
1	1,629	1	13,841	1	27,908	1	42,306	1	56,698	1	71,094	1	85,492	1	99,890	1	114,283	1	128,674
1/4	1,847	1/4	14,119	1/4	28,208	1/4	42,606	1/4	56,998	1/4	71,394	1/4	85,792	1/4	100,190	1/4	114,583	1/4	128,974
1/2	2,064	1/2	14,397	1/2	28,508	1/2	42,906	1/2	57,297	1/2	71,694	1/2	86,092	1/2	100,490	1/2	114,883	1/2	129,274
3/4	2,282	3/4	14,675	3/4	28,808	3/4	43,206	3/4	57,597	3/4	71,994	3/4	86,392	3/4	100,790	3/4	115,182	3/4	129,574
2	2,499	2	14,954	2	29,108	2	43,506	2	57,897	2	72,294	2	86,692	2	101,090	2	115,482	2	129,874
1/4	2,738	1/4	15,235	1/4	29,408	1/4	43,805	1/4	58,197	1/4	72,594	1/4	86,992	1/4	101,390	1/4	115,782	1/4	130,173
1/2	2,977	1/2	15,517	1/2	29,708	1/2	44,105	1/2	58,496	1/2	72,894	1/2	87,292	1/2	101,690	1/2	116,082	1/2	130,473
3/4	3,216	3/4	15,799	3/4	30,008	3/4	44,405	3/4	58,796	3/4	73,194	3/4	87,592	3/4	101,990	3/4	116,382	3/4	130,773
3	3,454	3	16,080	3	30,308	3	44,705	3	59,096	3	73,494	3	87,892	3	102,290	3	116,681	3	131,073
1/4	3,698	1/4	16,365	1/4	30,608	1/4	45,005	1/4	59,396	1/4	73,794	1/4	88,192	1/4	102,590	1/4	116,981	1/4	131,373
1/2	3,941	1/2	16,650	1/2	30,908	1/2	45,305	1/2	59,696	1/2	74,094	1/2	88,492	1/2	102,890	1/2	117,281	1/2	131,673
3/4	4,184	3/4	16,935	3/4	31,208	3/4	45,605	3/4	59,996	3/4	74,394	3/4	88,792	3/4	103,189	3/4	117,581	3/4	131,972
4	4,428	4	17,220	4	31,508	4	45,905	4	60,296	4	74,694	4	89,092	4	103,489	4	117,881	4	132,272
1/4	4,675	1/4	17,508	1/4	31,808	1/4	46,205	1/4	60,596	1/4	74,994	1/4	89,392	1/4	103,789	1/4	118,181	1/4	132,572
1/2	4,923	1/2	17,797	1/2	32,107	1/2	46,505	1/2	60,896	1/2	75,294	1/2	89,691	1/2	104,089	1/2	118,480	1/2	132,872
3/4	5,170	3/4	18,085	3/4	32,407	3/4	46,805	3/4	61,195	3/4	75,593	3/4	89,991	3/4	104,389	3/4	118,780	3/4	133,172
5	5,417	5	18,373	5	32,707	5	47,105	5	61,495	5	75,893	5	90,291	5	104,689	5	119,080	5	133,472
1/4	5,669	1/4	18,665	1/4	33,007	1/4	47,405	1/4	61,795	1/4	76,193	1/4	90,591	1/4	104,988	1/4	119,380	1/4	133,771
1/2	5,920	1/2	18,956	1/2	33,307	1/2	47,705	1/2	62,095	1/2	76,493	1/2	90,891	1/2	105,288	1/2	119,680	1/2	134,071
3/4	6,171	3/4	19,248	3/4	33,607	3/4	48,005	3/4	62,395	3/4	76,793	3/4	91,191	3/4	105,588	3/4	119,980	3/4	134,371
6	6,422	6	19,540	6	33,907	6	48,305	6	62,695	6	77,093	6	91,491	6	105,888	6	120,279	6	134,671
1/4	6,677	1/4	19,835	1/4	34,207	1/4	48,605	1/4	62,995	1/4	77,393	1/4	91,791	1/4	106,188	1/4	120,579	1/4	134,971
1/2	6,932	1/2	20,130	1/2	34,507	1/2	48,904	1/2	63,295	1/2	77,693	1/2	92,091	1/2	106,488	1/2	120,879	1/2	135,271
3/4	7,187	3/4	20,424	3/4	34,807	3/4	49,204	3/4	63,595	3/4	77,993	3/4	92,391	3/4	106,787	3/4	121,179	3/4	135,570
7	7,442	7	20,719	7	35,107	7	49,504	7	63,895	7	78,293	7	92,691	7	107,087	7	121,479	7	135,870
1/4	7,700	1/4	21,017	1/4	35,407	1/4	49,804	1/4	64,195	1/4	78,593	1/4	92,991	1/4	107,387	1/4	121,778	1/4	136,170
1/2	7,958	1/2	21,315	1/2	35,707	1/2	50,104	1/2	64,495	1/2	78,893	1/2	93,291	1/2	107,687	1/2	122,078	1/2	136,470
3/4	8,217	3/4	21,613	3/4	36,007	3/4	50,404	3/4	64,795	3/4	79,193	3/4	93,591	3/4	107,987	3/4	122,378	3/4	136,770
8	8,475	8	21,911	8	36,307	8	50,703	8	65,095	8	79,493	8	93,891	8	108,286	8	122,678	8	137,070
1/4	8,737	1/4	22,210	1/4	36,607	1/4	51,003	1/4	65,395	1/4	79,793	1/4	94,191	1/4	108,586	1/4	122,978	1/4	137,369
1/2	8,998	1/2	22,510	1/2	36,907	1/2	51,303	1/2	65,695	1/2	80,093	1/2	94,491	1/2	108,886	1/2	123,278	1/2	137,669
3/4	9,260	3/4	22,809	3/4	37,207	3/4	51,603	3/4	65,995	3/4	80,393	3/4	94,791	3/4	109,186	3/4	123,577	3/4	137,969
9	9,521	9	23,109	9	37,507	9	51,902	9	66,295	9	80,693	9	95,091	9	109,486	9	123,877	9	138,269
1/4	9,786	1/4	23,409	1/4	37,806	1/4	52,202	1/4	66,595	1/4	80,993	1/4	95,391	1/4	109,786	1/4	124,177	1/4	138,569
1/2	10,051	1/2	23,709	1/2	38,106	1/2	52,502	1/2	66,895	1/2	81,293	1/2	95,691	1/2	110,085	1/2	124,477	1/2	138,868
3/4	10,316	3/4	24,009	3/4	38,406	3/4	52,801	3/4	67,195	3/4	81,593	3/4	95,991	3/4	110,385	3/4	124,777	3/4	139,168
10	10,581	10	24,309	10	38,706	10	53,101	10	67,495	10	81,893	10	96,291	10	110,685	10	125,077	10	139,468
1/4	10,849	1/4	24,609	1/4	39,006	1/4	53,401	1/4	67,795	1/4	82,193	1/4	96,591	1/4	110,985	1/4	125,376	1/4	139,768
1/2	11,118	1/2	24,909	1/2	39,306	1/2	53,701	1/2	68,095	1/2	82,492	1/2	96,890	1/2	111,285	1/2	125,676	1/2	140,068
3/4	11,386	3/4	25,209	3/4	39,606	3/4	54,000	3/4	68,394	3/4	82,792	3/4	97,190	3/4	111,584	3/4	125,976	3/4	140,368
11	11,654	11	25,509	11	39,906	11	54,300	11	68,694	11	83,092	11	97,490	11	111,884	11	126,276	11	140,667
1/4	11,926	1/4	25,809	1/4	40,206	1/4	54,600	1/4	68,994	1/4	83,392	1/4	97,790	1/4	112,184	1/4	126,576	1/4	140,967
1/2	12,198	1/2	26,108	1/2	40,506	1/2	54,900	1/2	69,294	1/2	83,692	1/2	98,090	1/2	112,484	1/2	126,875	1/2	141,267
3/4	12,469	3/4	26,408	3/4	40,806	3/4	55,199	3/4	69,594	3/4	83,992	3/4	98,390	3/4	112,784	3/4	127,175	3/4	141,567

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 41'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 427"

**1 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	141,867	0	156,259	0	170,641	0	184,989	0	199,206	0		0		0		0		0	
1/4	142,167	1/4	156,558	1/4	170,940	1/4	185,288	1/4	199,459	1/4		1/4		1/4		1/4		1/4	
1/2	142,466	1/2	156,858	1/2	171,239	1/2	185,587	1/2	199,712	1/2		1/2		1/2		1/2		1/2	
3/4	142,766	3/4	157,158	3/4	171,538	3/4	185,886	3/4	199,965	3/4		3/4		3/4		3/4		3/4	
1	143,066	1	157,458	1	171,837	1	186,185	1	200,218	1		1		1		1		1	
1/4	143,366	1/4	157,758	1/4	172,136	1/4	186,484	1/4	200,429	1/4		1/4		1/4		1/4		1/4	
1/2	143,666	1/2	158,057	1/2	172,435	1/2	186,783	1/2	200,639	1/2		1/2		1/2		1/2		1/2	
3/4	143,966	3/4	158,357	3/4	172,734	3/4	187,081	3/4	200,849	3/4		3/4		3/4		3/4		3/4	
2	144,265	2	158,657	2	173,032	2	187,380	2	201,060	2		2		2		2		2	
1/4	144,565	1/4	158,957	1/4	173,331	1/4	187,679	1/4	201,227	1/4		1/4		1/4		1/4		1/4	
1/2	144,865	1/2	159,257	1/2	173,630	1/2	187,978	1/2	201,395	1/2		1/2		1/2		1/2		1/2	
3/4	145,165	3/4	159,557	3/4	173,929	3/4	188,277	3/4	201,562	3/4		3/4		3/4		3/4		3/4	
3	145,465	3	159,856	3	174,228	3	188,576	3	201,730	3		3		3		3		3	
1/4	145,765	1/4	160,156	1/4	174,527	1/4	188,875	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	146,064	1/2	160,456	1/2	174,826	1/2	189,174	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	146,364	3/4	160,756	3/4	175,125	3/4	189,473	3/4		3/4		3/4		3/4		3/4		3/4	
4	146,664	4	161,056	4	175,424	4	189,772	4		4		4		4		4		4	
1/4	146,964	1/4	161,356	1/4	175,723	1/4	190,071	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,264	1/2	161,655	1/2	176,022	1/2	190,370	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,563	3/4	161,955	3/4	176,321	3/4	190,668	3/4		3/4		3/4		3/4		3/4		3/4	
5	147,863	5	162,255	5	176,619	5	190,967	5		5		5		5		5		5	
1/4	148,163	1/4	162,555	1/4	176,918	1/4	191,265	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,463	1/2	162,855	1/2	177,217	1/2	191,562	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,763	3/4	163,155	3/4	177,516	3/4	191,860	3/4		3/4		3/4		3/4		3/4		3/4	
6	149,063	6	163,454	6	177,815	6	192,157	6		6		6		6		6		6	
1/4	149,362	1/4	163,754	1/4	178,114	1/4	192,453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,662	1/2	164,054	1/2	178,413	1/2	192,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,962	3/4	164,354	3/4	178,712	3/4	193,045	3/4		3/4		3/4		3/4		3/4		3/4	
7	150,262	7	164,654	7	179,011	7	193,341	7		7		7		7		7		7	
1/4	150,562	1/4	164,954	1/4	179,310	1/4	193,637	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,862	1/2	165,253	1/2	179,609	1/2	193,933	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,161	3/4	165,553	3/4	179,907	3/4	194,229	3/4		3/4		3/4		3/4		3/4		3/4	
8	151,461	8	165,853	8	180,206	8	194,525	8		8		8		8		8		8	
1/4	151,761	1/4	166,153	1/4	180,505	1/4	194,821	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,061	1/2	166,453	1/2	180,804	1/2	195,117	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,361	3/4	166,752	3/4	181,103	3/4	195,413	3/4		3/4		3/4		3/4		3/4		3/4	
9	152,661	9	167,052	9	181,402	9	195,708	9		9		9		9		9		9	
1/4	152,960	1/4	167,352	1/4	181,701	1/4	196,004	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,260	1/2	167,651	1/2	182,000	1/2	196,299	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,560	3/4	167,950	3/4	182,299	3/4	196,595	3/4		3/4		3/4		3/4		3/4		3/4	
10	153,860	10	168,250	10	182,598	10	196,890	10		10		10		10		10		10	
1/4	154,160	1/4	168,549	1/4	182,897	1/4	197,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,460	1/2	168,848	1/2	183,196	1/2	197,480	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,759	3/4	169,147	3/4	183,494	3/4	197,774	3/4		3/4		3/4		3/4		3/4		3/4	
11	155,059	11	169,445	11	183,793	11	198,069	11		11		11		11		11		11	
1/4	155,359	1/4	169,744	1/4	184,092	1/4	198,353	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,659	1/2	170,043	1/2	184,391	1/2	198,637	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,959	3/4	170,342	3/4	184,690	3/4	198,921	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HFL 427"

## 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	1,052	0	15,987	0	31,354	0	46,350	0	61,140	0	76,298	0	91,668	0	107,038	0	122,403	0	137,765
1/4	1,292	1/4	16,307	1/4	31,675	1/4	46,658	1/4	61,449	1/4	76,619	1/4	91,988	1/4	107,358	1/4	122,723	1/4	138,085
1/2	1,532	1/2	16,628	1/2	31,995	1/2	46,965	1/2	61,757	1/2	76,939	1/2	92,309	1/2	107,679	1/2	123,043	1/2	138,405
3/4	1,772	3/4	16,948	3/4	32,315	3/4	47,273	3/4	62,066	3/4	77,259	3/4	92,629	3/4	107,999	3/4	123,363	3/4	138,725
1	2,012	1	17,268	1	32,635	1	47,580	1	62,374	1	77,579	1	92,949	1	108,319	1	123,683	1	139,045
1/4	2,310	1/4	17,588	1/4	32,955	1/4	47,888	1/4	62,683	1/4	77,899	1/4	93,269	1/4	108,639	1/4	124,003	1/4	139,365
1/2	2,608	1/2	17,908	1/2	33,276	1/2	48,195	1/2	62,991	1/2	78,220	1/2	93,590	1/2	108,959	1/2	124,323	1/2	139,685
3/4	2,906	3/4	18,229	3/4	33,596	3/4	48,503	3/4	63,299	3/4	78,540	3/4	93,910	3/4	109,280	3/4	124,643	3/4	140,005
2	3,205	2	18,549	2	33,916	2	48,810	2	63,608	2	78,860	2	94,230	2	109,600	2	124,963	2	140,325
1/4	3,522	1/4	18,869	1/4	34,236	1/4	49,118	1/4	63,916	1/4	79,180	1/4	94,550	1/4	109,920	1/4	125,283	1/4	140,645
1/2	3,839	1/2	19,189	1/2	34,556	1/2	49,426	1/2	64,225	1/2	79,500	1/2	94,870	1/2	110,240	1/2	125,603	1/2	140,965
3/4	4,156	3/4	19,509	3/4	34,876	3/4	49,733	3/4	64,533	3/4	79,821	3/4	95,191	3/4	110,560	3/4	125,923	3/4	141,285
3	4,473	3	19,830	3	35,197	3	50,041	3	64,842	3	80,141	3	95,511	3	110,881	3	126,243	3	141,605
1/4	4,791	1/4	20,150	1/4	35,517	1/4	50,349	1/4	65,150	1/4	80,461	1/4	95,831	1/4	111,201	1/4	126,563	1/4	141,925
1/2	5,110	1/2	20,470	1/2	35,837	1/2	50,656	1/2	65,459	1/2	80,781	1/2	96,151	1/2	111,521	1/2	126,883	1/2	142,246
3/4	5,428	3/4	20,790	3/4	36,157	3/4	50,964	3/4	65,767	3/4	81,102	3/4	96,471	3/4	111,841	3/4	127,203	3/4	142,566
4	5,747	4	21,110	4	36,477	4	51,272	4	66,075	4	81,422	4	96,792	4	112,161	4	127,523	4	142,886
1/4	6,066	1/4	21,431	1/4	36,792	1/4	51,580	1/4	66,390	1/4	81,742	1/4	97,112	1/4	112,481	1/4	127,843	1/4	143,206
1/2	6,385	1/2	21,751	1/2	37,106	1/2	51,888	1/2	66,704	1/2	82,062	1/2	97,432	1/2	112,801	1/2	128,163	1/2	143,526
3/4	6,705	3/4	22,071	3/4	37,420	3/4	52,196	3/4	67,018	3/4	82,382	3/4	97,752	3/4	113,121	3/4	128,483	3/4	143,846
5	7,024	5	22,391	5	37,735	5	52,504	5	67,333	5	82,703	5	98,072	5	113,441	5	128,804	5	144,166
1/4	7,344	1/4	22,711	1/4	38,043	1/4	52,813	1/4	67,653	1/4	83,023	1/4	98,393	1/4	113,761	1/4	129,124	1/4	144,486
1/2	7,663	1/2	23,032	1/2	38,352	1/2	53,121	1/2	67,973	1/2	83,343	1/2	98,713	1/2	114,081	1/2	129,444	1/2	144,806
3/4	7,983	3/4	23,352	3/4	38,660	3/4	53,429	3/4	68,293	3/4	83,663	3/4	99,033	3/4	114,401	3/4	129,764	3/4	145,126
6	8,303	6	23,672	6	38,968	6	53,738	6	68,614	6	83,983	6	99,353	6	114,721	6	130,084	6	145,446
1/4	8,623	1/4	23,992	1/4	39,276	1/4	54,046	1/4	68,934	1/4	84,304	1/4	99,673	1/4	115,041	1/4	130,404	1/4	145,766
1/2	8,943	1/2	24,312	1/2	39,584	1/2	54,355	1/2	69,254	1/2	84,624	1/2	99,994	1/2	115,362	1/2	130,724	1/2	146,086
3/4	9,263	3/4	24,633	3/4	39,892	3/4	54,663	3/4	69,574	3/4	84,944	3/4	100,314	3/4	115,682	3/4	131,044	3/4	146,406
7	9,583	7	24,953	7	40,200	7	54,972	7	69,894	7	85,264	7	100,634	7	116,002	7	131,364	7	146,726
1/4	9,904	1/4	25,273	1/4	40,508	1/4	55,280	1/4	70,215	1/4	85,584	1/4	100,954	1/4	116,322	1/4	131,684	1/4	147,046
1/2	10,224	1/2	25,593	1/2	40,815	1/2	55,588	1/2	70,535	1/2	85,905	1/2	101,274	1/2	116,642	1/2	132,004	1/2	147,366
3/4	10,544	3/4	25,913	3/4	41,123	3/4	55,897	3/4	70,855	3/4	86,225	3/4	101,595	3/4	116,962	3/4	132,324	3/4	147,686
8	10,864	8	26,234	8	41,430	8	56,205	8	71,175	8	86,545	8	101,915	8	117,282	8	132,644	8	148,006
1/4	11,184	1/4	26,554	1/4	41,738	1/4	56,514	1/4	71,495	1/4	86,865	1/4	102,235	1/4	117,602	1/4	132,964	1/4	148,326
1/2	11,505	1/2	26,874	1/2	42,045	1/2	56,822	1/2	71,816	1/2	87,185	1/2	102,555	1/2	117,922	1/2	133,284	1/2	148,646
3/4	11,825	3/4	27,194	3/4	42,353	3/4	57,131	3/4	72,136	3/4	87,506	3/4	102,875	3/4	118,242	3/4	133,604	3/4	148,967
9	12,145	9	27,514	9	42,660	9	57,439	9	72,456	9	87,826	9	103,196	9	118,562	9	133,924	9	149,287
1/4	12,465	1/4	27,834	1/4	42,968	1/4	57,748	1/4	72,776	1/4	88,146	1/4	103,516	1/4	118,882	1/4	134,244	1/4	149,607
1/2	12,785	1/2	28,154	1/2	43,275	1/2	58,056	1/2	73,096	1/2	88,466	1/2	103,836	1/2	119,202	1/2	134,564	1/2	149,927
3/4	13,106	3/4	28,474	3/4	43,583	3/4	58,364	3/4	73,417	3/4	88,786	3/4	104,156	3/4	119,522	3/4	134,884	3/4	150,247
10	13,426	10	28,794	10	43,890	10	58,673	10	73,737	10	89,107	10	104,476	10	119,842	10	135,204	10	150,567
1/4	13,746	1/4	29,114	1/4	44,198	1/4	58,981	1/4	74,057	1/4	89,427	1/4	104,797	1/4	120,162	1/4	135,525	1/4	150,887
1/2	14,066	1/2	29,434	1/2	44,505	1/2	59,290	1/2	74,377	1/2	89,747	1/2	105,117	1/2	120,482	1/2	135,845	1/2	151,207
3/4	14,386	3/4	29,754	3/4	44,813	3/4	59,598	3/4	74,697	3/4	90,067	3/4	105,437	3/4	120,802	3/4	136,165	3/4	151,527
11	14,706	11	30,074	11	45,120	11	59,907	11	75,018	11	90,387	11	105,757	11	121,122	11	136,485	11	151,847
1/4	15,027	1/4	30,394	1/4	45,428	1/4	60,215	1/4	75,338	1/4	90,708	1/4	106,077	1/4	121,442	1/4	136,805	1/4	152,167
1/2	15,347	1/2	30,714	1/2	45,735	1/2	60,524	1/2	75,658	1/2	91,028	1/2	106,398	1/2	121,762	1/2	137,125	1/2	152,487
3/4	15,667	3/4	31,034	3/4	46,043	3/4	60,832	3/4	75,978	3/4	91,348	3/4	106,718	3/4	122,083	3/4	137,445	3/4	152,807

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 427"

## 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	153,127	0	168,489	0	183,841	0	199,152	0	214,325	0		0		0		0		0	
1/4	153,447	1/4	168,809	1/4	184,160	1/4	199,471	1/4	214,596	1/4		1/4		1/4		1/4		1/4	
1/2	153,767	1/2	169,129	1/2	184,479	1/2	199,790	1/2	214,866	1/2		1/2		1/2		1/2		1/2	
3/4	154,087	3/4	169,450	3/4	184,798	3/4	200,109	3/4	215,136	3/4		3/4		3/4		3/4		3/4	
1	154,407	1	169,770	1	185,117	1	200,428	1	215,406	1		1		1		1		1	
1/4	154,727	1/4	170,090	1/4	185,436	1/4	200,747	1/4	215,631	1/4		1/4		1/4		1/4		1/4	
1/2	155,047	1/2	170,410	1/2	185,755	1/2	201,066	1/2	215,855	1/2		1/2		1/2		1/2		1/2	
3/4	155,367	3/4	170,730	3/4	186,074	3/4	201,385	3/4	216,080	3/4		3/4		3/4		3/4		3/4	
2	155,687	2	171,050	2	186,393	2	201,704	2	216,305	2		2		2		2		2	
1/4	156,008	1/4	171,370	1/4	186,712	1/4	202,023	1/4	216,483	1/4		1/4		1/4		1/4		1/4	
1/2	156,328	1/2	171,690	1/2	187,031	1/2	202,342	1/2	216,662	1/2		1/2		1/2		1/2		1/2	
3/4	156,648	3/4	172,010	3/4	187,350	3/4	202,661	3/4	216,841	3/4		3/4		3/4		3/4		3/4	
3	156,968	3	172,330	3	187,669	3	202,980	3	217,020	3		3		3		3		3	
1/4	157,288	1/4	172,650	1/4	187,988	1/4	203,299	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,608	1/2	172,970	1/2	188,307	1/2	203,618	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,928	3/4	173,290	3/4	188,626	3/4	203,937	3/4		3/4		3/4		3/4		3/4		3/4	
4	158,248	4	173,610	4	188,945	4	204,256	4		4		4		4		4		4	
1/4	158,568	1/4	173,930	1/4	189,264	1/4	204,575	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,888	1/2	174,250	1/2	189,583	1/2	204,894	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,208	3/4	174,570	3/4	189,902	3/4	205,213	3/4		3/4		3/4		3/4		3/4		3/4	
5	159,528	5	174,890	5	190,221	5	205,532	5		5		5		5		5		5	
1/4	159,848	1/4	175,210	1/4	190,540	1/4	205,849	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,168	1/2	175,530	1/2	190,859	1/2	206,167	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,488	3/4	175,850	3/4	191,178	3/4	206,484	3/4		3/4		3/4		3/4		3/4		3/4	
6	160,808	6	176,171	6	191,497	6	206,802	6		6		6		6		6		6	
1/4	161,128	1/4	176,491	1/4	191,816	1/4	207,117	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,448	1/2	176,811	1/2	192,135	1/2	207,433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,768	3/4	177,131	3/4	192,454	3/4	207,749	3/4		3/4		3/4		3/4		3/4		3/4	
7	162,088	7	177,451	7	192,773	7	208,065	7		7		7		7		7		7	
1/4	162,408	1/4	177,771	1/4	193,091	1/4	208,381	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,729	1/2	178,091	1/2	193,410	1/2	208,697	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,049	3/4	178,411	3/4	193,729	3/4	209,013	3/4		3/4		3/4		3/4		3/4		3/4	
8	163,369	8	178,731	8	194,048	8	209,329	8		8		8		8		8		8	
1/4	163,689	1/4	179,051	1/4	194,367	1/4	209,645	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,009	1/2	179,371	1/2	194,686	1/2	209,961	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,329	3/4	179,691	3/4	195,005	3/4	210,276	3/4		3/4		3/4		3/4		3/4		3/4	
9	164,649	9	180,011	9	195,324	9	210,592	9		9		9		9		9		9	
1/4	164,969	1/4	180,331	1/4	195,643	1/4	210,908	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,289	1/2	180,650	1/2	195,962	1/2	211,223	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,609	3/4	180,970	3/4	196,281	3/4	211,539	3/4		3/4		3/4		3/4		3/4		3/4	
10	165,929	10	181,289	10	196,600	10	211,854	10		10		10		10		10		10	
1/4	166,249	1/4	181,608	1/4	196,919	1/4	212,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,569	1/2	181,927	1/2	197,238	1/2	212,483	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,889	3/4	182,246	3/4	197,557	3/4	212,797	3/4		3/4		3/4		3/4		3/4		3/4	
11	167,209	11	182,565	11	197,876	11	213,112	11		11		11		11		11		11	
1/4	167,529	1/4	182,884	1/4	198,195	1/4	213,415	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,849	1/2	183,203	1/2	198,514	1/2	213,719	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,169	3/4	183,522	3/4	198,833	3/4	214,022	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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





# BARGE "HFL 427"

2 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	1,052	0	15,980	0	31,340	0	46,682	0	62,030	0	77,393	0	92,755	0	108,118	0	123,475	0	138,830
1/4	1,292	1/4	16,300	1/4	31,660	1/4	47,002	1/4	62,350	1/4	77,713	1/4	93,075	1/4	108,438	1/4	123,795	1/4	139,150
1/2	1,532	1/2	16,620	1/2	31,981	1/2	47,321	1/2	62,670	1/2	78,033	1/2	93,395	1/2	108,758	1/2	124,115	1/2	139,470
3/4	1,772	3/4	16,940	3/4	32,301	3/4	47,640	3/4	62,990	3/4	78,353	3/4	93,715	3/4	109,078	3/4	124,434	3/4	139,789
1	2,012	1	17,260	1	32,621	1	47,959	1	63,310	1	78,673	1	94,035	1	109,398	1	124,754	1	140,109
1/4	2,309	1/4	17,581	1/4	32,941	1/4	48,278	1/4	63,630	1/4	78,993	1/4	94,355	1/4	109,718	1/4	125,074	1/4	140,429
1/2	2,607	1/2	17,901	1/2	33,261	1/2	48,597	1/2	63,950	1/2	79,313	1/2	94,675	1/2	110,038	1/2	125,394	1/2	140,749
3/4	2,905	3/4	18,221	3/4	33,581	3/4	48,916	3/4	64,270	3/4	79,633	3/4	94,995	3/4	110,358	3/4	125,714	3/4	141,069
2	3,203	2	18,541	2	33,901	2	49,235	2	64,590	2	79,953	2	95,316	2	110,678	2	126,034	2	141,389
1/4	3,520	1/4	18,861	1/4	34,221	1/4	49,555	1/4	64,911	1/4	80,273	1/4	95,636	1/4	110,998	1/4	126,354	1/4	141,709
1/2	3,837	1/2	19,181	1/2	34,541	1/2	49,874	1/2	65,231	1/2	80,593	1/2	95,956	1/2	111,318	1/2	126,674	1/2	142,029
3/4	4,154	3/4	19,501	3/4	34,861	3/4	50,193	3/4	65,551	3/4	80,913	3/4	96,276	3/4	111,638	3/4	126,994	3/4	142,349
3	4,471	3	19,821	3	35,181	3	50,512	3	65,871	3	81,233	3	96,596	3	111,958	3	127,314	3	142,669
1/4	4,789	1/4	20,141	1/4	35,501	1/4	50,832	1/4	66,191	1/4	81,553	1/4	96,916	1/4	112,278	1/4	127,633	1/4	142,988
1/2	5,108	1/2	20,461	1/2	35,821	1/2	51,151	1/2	66,511	1/2	81,873	1/2	97,236	1/2	112,598	1/2	127,953	1/2	143,308
3/4	5,426	3/4	20,781	3/4	36,141	3/4	51,470	3/4	66,831	3/4	82,193	3/4	97,556	3/4	112,918	3/4	128,273	3/4	143,628
4	5,744	4	21,101	4	36,461	4	51,790	4	67,151	4	82,513	4	97,876	4	113,238	4	128,593	4	143,948
1/4	6,063	1/4	21,421	1/4	36,781	1/4	52,109	1/4	67,471	1/4	82,833	1/4	98,196	1/4	113,558	1/4	128,913	1/4	144,268
1/2	6,383	1/2	21,741	1/2	37,101	1/2	52,429	1/2	67,791	1/2	83,154	1/2	98,516	1/2	113,878	1/2	129,233	1/2	144,588
3/4	6,702	3/4	22,061	3/4	37,421	3/4	52,749	3/4	68,111	3/4	83,474	3/4	98,836	3/4	114,198	3/4	129,553	3/4	144,908
5	7,021	5	22,381	5	37,741	5	53,069	5	68,431	5	83,794	5	99,156	5	114,518	5	129,873	5	145,228
1/4	7,341	1/4	22,701	1/4	38,062	1/4	53,389	1/4	68,751	1/4	84,114	1/4	99,476	1/4	114,838	1/4	130,193	1/4	145,548
1/2	7,660	1/2	23,021	1/2	38,382	1/2	53,709	1/2	69,071	1/2	84,434	1/2	99,796	1/2	115,158	1/2	130,512	1/2	145,867
3/4	7,980	3/4	23,341	3/4	38,702	3/4	54,029	3/4	69,391	3/4	84,754	3/4	100,116	3/4	115,477	3/4	130,832	3/4	146,187
6	8,300	6	23,662	6	39,022	6	54,349	6	69,711	6	85,074	6	100,436	6	115,797	6	131,152	6	146,507
1/4	8,619	1/4	23,982	1/4	39,341	1/4	54,669	1/4	70,031	1/4	85,394	1/4	100,756	1/4	116,117	1/4	131,472	1/4	146,827
1/2	8,939	1/2	24,302	1/2	39,661	1/2	54,989	1/2	70,351	1/2	85,714	1/2	101,076	1/2	116,437	1/2	131,792	1/2	147,147
3/4	9,259	3/4	24,622	3/4	39,980	3/4	55,309	3/4	70,671	3/4	86,034	3/4	101,397	3/4	116,757	3/4	132,112	3/4	147,467
7	9,579	7	24,942	7	40,300	7	55,629	7	70,992	7	86,354	7	101,717	7	117,077	7	132,432	7	147,787
1/4	9,899	1/4	25,262	1/4	40,619	1/4	55,949	1/4	71,312	1/4	86,674	1/4	102,037	1/4	117,397	1/4	132,752	1/4	148,107
1/2	10,219	1/2	25,582	1/2	40,938	1/2	56,269	1/2	71,632	1/2	86,994	1/2	102,357	1/2	117,717	1/2	133,072	1/2	148,427
3/4	10,539	3/4	25,902	3/4	41,257	3/4	56,589	3/4	71,952	3/4	87,314	3/4	102,677	3/4	118,037	3/4	133,392	3/4	148,747
8	10,859	8	26,222	8	41,577	8	56,909	8	72,272	8	87,634	8	102,997	8	118,356	8	133,711	8	149,066
1/4	11,179	1/4	26,542	1/4	41,896	1/4	57,229	1/4	72,592	1/4	87,954	1/4	103,317	1/4	118,676	1/4	134,031	1/4	149,386
1/2	11,500	1/2	26,862	1/2	42,215	1/2	57,549	1/2	72,912	1/2	88,274	1/2	103,637	1/2	118,996	1/2	134,351	1/2	149,706
3/4	11,820	3/4	27,182	3/4	42,534	3/4	57,869	3/4	73,232	3/4	88,594	3/4	103,957	3/4	119,316	3/4	134,671	3/4	150,026
9	12,140	9	27,502	9	42,853	9	58,189	9	73,552	9	88,914	9	104,277	9	119,636	9	134,991	9	150,346
1/4	12,460	1/4	27,822	1/4	43,172	1/4	58,509	1/4	73,872	1/4	89,235	1/4	104,597	1/4	119,956	1/4	135,311	1/4	150,666
1/2	12,780	1/2	28,142	1/2	43,491	1/2	58,830	1/2	74,192	1/2	89,555	1/2	104,917	1/2	120,276	1/2	135,631	1/2	150,986
3/4	13,100	3/4	28,461	3/4	43,810	3/4	59,150	3/4	74,512	3/4	89,875	3/4	105,237	3/4	120,596	3/4	135,951	3/4	151,306
10	13,420	10	28,781	10	44,130	10	59,470	10	74,832	10	90,195	10	105,557	10	120,916	10	136,271	10	151,626
1/4	13,740	1/4	29,101	1/4	44,449	1/4	59,790	1/4	75,152	1/4	90,515	1/4	105,877	1/4	121,236	1/4	136,591	1/4	151,945
1/2	14,060	1/2	29,421	1/2	44,768	1/2	60,110	1/2	75,472	1/2	90,835	1/2	106,197	1/2	121,555	1/2	136,910	1/2	152,265
3/4	14,380	3/4	29,741	3/4	45,087	3/4	60,430	3/4	75,792	3/4	91,155	3/4	106,517	3/4	121,875	3/4	137,230	3/4	152,585
11	14,700	11	30,061	11	45,406	11	60,750	11	76,112	11	91,475	11	106,837	11	122,195	11	137,550	11	152,905
1/4	15,020	1/4	30,381	1/4	45,725	1/4	61,070	1/4	76,432	1/4	91,795	1/4	107,157	1/4	122,515	1/4	137,870	1/4	153,225
1/2	15,340	1/2	30,700	1/2	46,044	1/2	61,390	1/2	76,752	1/2	92,115	1/2	107,478	1/2	122,835	1/2	138,190	1/2	153,545
3/4	15,660	3/4	31,020	3/4	46,363	3/4	61,710	3/4	77,073	3/4	92,435	3/4	107,798	3/4	123,155	3/4	138,510	3/4	153,865

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "HFL 427"

**2 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	154,185	0	169,540	0	184,884	0	200,188	0	215,354	0		0		0		0		0	
1/4	154,505	1/4	169,860	1/4	185,203	1/4	200,507	1/4	215,624	1/4		1/4		1/4		1/4		1/4	
1/2	154,825	1/2	170,179	1/2	185,522	1/2	200,826	1/2	215,894	1/2		1/2		1/2		1/2		1/2	
3/4	155,144	3/4	170,499	3/4	185,840	3/4	201,144	3/4	216,164	3/4		3/4		3/4		3/4		3/4	
1	155,464	1	170,819	1	186,159	1	201,463	1	216,434	1		1		1		1		1	
1/4	155,784	1/4	171,139	1/4	186,478	1/4	201,782	1/4	216,659	1/4		1/4		1/4		1/4		1/4	
1/2	156,104	1/2	171,459	1/2	186,797	1/2	202,101	1/2	216,883	1/2		1/2		1/2		1/2		1/2	
3/4	156,424	3/4	171,779	3/4	187,116	3/4	202,420	3/4	217,108	3/4		3/4		3/4		3/4		3/4	
2	156,744	2	172,099	2	187,435	2	202,739	2	217,332	2		2		2		2		2	
1/4	157,064	1/4	172,419	1/4	187,753	1/4	203,057	1/4	217,511	1/4		1/4		1/4		1/4		1/4	
1/2	157,384	1/2	172,739	1/2	188,072	1/2	203,376	1/2	217,690	1/2		1/2		1/2		1/2		1/2	
3/4	157,704	3/4	173,059	3/4	188,391	3/4	203,695	3/4	217,868	3/4		3/4		3/4		3/4		3/4	
3	158,023	3	173,378	3	188,710	3	204,014	3	218,047	3		3		3		3		3	
1/4	158,343	1/4	173,698	1/4	189,029	1/4	204,333	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,663	1/2	174,018	1/2	189,348	1/2	204,651	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,983	3/4	174,338	3/4	189,666	3/4	204,970	3/4		3/4		3/4		3/4		3/4		3/4	
4	159,303	4	174,658	4	189,985	4	205,289	4		4		4		4		4		4	
1/4	159,623	1/4	174,978	1/4	190,304	1/4	205,608	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,943	1/2	175,298	1/2	190,623	1/2	205,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,263	3/4	175,618	3/4	190,942	3/4	206,246	3/4		3/4		3/4		3/4		3/4		3/4	
5	160,583	5	175,938	5	191,261	5	206,564	5		5		5		5		5		5	
1/4	160,903	1/4	176,257	1/4	191,579	1/4	206,882	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,222	1/2	176,577	1/2	191,898	1/2	207,199	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,542	3/4	176,897	3/4	192,217	3/4	207,516	3/4		3/4		3/4		3/4		3/4		3/4	
6	161,862	6	177,217	6	192,536	6	207,834	6		6		6		6		6		6	
1/4	162,182	1/4	177,537	1/4	192,855	1/4	208,149	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,502	1/2	177,857	1/2	193,174	1/2	208,465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,822	3/4	178,177	3/4	193,492	3/4	208,781	3/4		3/4		3/4		3/4		3/4		3/4	
7	163,142	7	178,497	7	193,811	7	209,097	7		7		7		7		7		7	
1/4	163,462	1/4	178,817	1/4	194,130	1/4	209,412	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,782	1/2	179,137	1/2	194,449	1/2	209,728	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,101	3/4	179,456	3/4	194,768	3/4	210,044	3/4		3/4		3/4		3/4		3/4		3/4	
8	164,421	8	179,776	8	195,087	8	210,360	8		8		8		8		8		8	
1/4	164,741	1/4	180,096	1/4	195,405	1/4	210,675	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,061	1/2	180,416	1/2	195,724	1/2	210,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,381	3/4	180,736	3/4	196,043	3/4	211,307	3/4		3/4		3/4		3/4		3/4		3/4	
9	165,701	9	181,056	9	196,362	9	211,623	9		9		9		9		9		9	
1/4	166,021	1/4	181,375	1/4	196,681	1/4	211,938	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	166,341	1/2	181,695	1/2	197,000	1/2	212,253	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,661	3/4	182,014	3/4	197,318	3/4	212,568	3/4		3/4		3/4		3/4		3/4		3/4	
10	166,981	10	182,333	10	197,637	10	212,884	10		10		10		10		10		10	
1/4	167,300	1/4	182,652	1/4	197,956	1/4	213,198	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	167,620	1/2	182,971	1/2	198,275	1/2	213,512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	167,940	3/4	183,290	3/4	198,594	3/4	213,827	3/4		3/4		3/4		3/4		3/4		3/4	
11	168,260	11	183,609	11	198,913	11	214,141	11		11		11		11		11		11	
1/4	168,580	1/4	183,928	1/4	199,231	1/4	214,444	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,900	1/2	184,246	1/2	199,550	1/2	214,747	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	169,220	3/4	184,565	3/4	199,869	3/4	215,051	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HFL 427"

## 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	1,050	0	15,950	0	31,268	0	46,357	0	61,243	0	76,482	0	91,778	0	107,085	0	122,382	0	137,676
1/4	1,290	1/4	16,270	1/4	31,587	1/4	46,666	1/4	61,562	1/4	76,800	1/4	92,097	1/4	107,404	1/4	122,701	1/4	137,994
1/2	1,530	1/2	16,589	1/2	31,907	1/2	46,974	1/2	61,881	1/2	77,117	1/2	92,415	1/2	107,723	1/2	123,019	1/2	138,313
3/4	1,769	3/4	16,908	3/4	32,226	3/4	47,283	3/4	62,200	3/4	77,434	3/4	92,734	3/4	108,042	3/4	123,338	3/4	138,632
1	2,009	1	17,227	1	32,545	1	47,591	1	62,519	1	77,751	1	93,053	1	108,361	1	123,657	1	138,950
1/4	2,306	1/4	17,546	1/4	32,864	1/4	47,900	1/4	62,837	1/4	78,068	1/4	93,372	1/4	108,680	1/4	123,975	1/4	139,269
1/2	2,604	1/2	17,865	1/2	33,183	1/2	48,209	1/2	63,156	1/2	78,385	1/2	93,690	1/2	108,999	1/2	124,294	1/2	139,588
3/4	2,902	3/4	18,185	3/4	33,502	3/4	48,518	3/4	63,475	3/4	78,702	3/4	94,009	3/4	109,318	3/4	124,612	3/4	139,906
2	3,199	2	18,504	2	33,821	2	48,827	2	63,794	2	79,020	2	94,328	2	109,637	2	124,931	2	140,225
1/4	3,516	1/4	18,823	1/4	34,141	1/4	49,136	1/4	64,112	1/4	79,338	1/4	94,647	1/4	109,955	1/4	125,250	1/4	140,543
1/2	3,832	1/2	19,142	1/2	34,460	1/2	49,446	1/2	64,430	1/2	79,656	1/2	94,966	1/2	110,274	1/2	125,568	1/2	140,862
3/4	4,149	3/4	19,461	3/4	34,779	3/4	49,755	3/4	64,748	3/4	79,974	3/4	95,284	3/4	110,593	3/4	125,887	3/4	141,181
3	4,465	3	19,780	3	35,098	3	50,064	3	65,066	3	80,292	3	95,603	3	110,912	3	126,206	3	141,499
1/4	4,783	1/4	20,099	1/4	35,417	1/4	50,374	1/4	65,383	1/4	80,611	1/4	95,922	1/4	111,230	1/4	126,524	1/4	141,818
1/2	5,101	1/2	20,419	1/2	35,735	1/2	50,683	1/2	65,700	1/2	80,930	1/2	96,241	1/2	111,549	1/2	126,843	1/2	142,137
3/4	5,419	3/4	20,738	3/4	36,054	3/4	50,992	3/4	66,017	3/4	81,249	3/4	96,560	3/4	111,868	3/4	127,161	3/4	142,455
4	5,737	4	21,057	4	36,373	4	51,301	4	66,334	4	81,568	4	96,878	4	112,186	4	127,480	4	142,774
1/4	6,055	1/4	21,376	1/4	36,688	1/4	51,611	1/4	66,651	1/4	81,888	1/4	97,197	1/4	112,505	1/4	127,799	1/4	143,092
1/2	6,374	1/2	21,695	1/2	37,003	1/2	51,920	1/2	66,968	1/2	82,207	1/2	97,516	1/2	112,823	1/2	128,117	1/2	143,411
3/4	6,692	3/4	22,014	3/4	37,318	3/4	52,229	3/4	67,286	3/4	82,526	3/4	97,835	3/4	113,142	3/4	128,436	3/4	143,730
5	7,011	5	22,334	5	37,633	5	52,539	5	67,603	5	82,845	5	98,153	5	113,461	5	128,754	5	144,048
1/4	7,330	1/4	22,653	1/4	37,944	1/4	52,848	1/4	67,920	1/4	83,164	1/4	98,472	1/4	113,779	1/4	129,073	1/4	144,367
1/2	7,648	1/2	22,972	1/2	38,256	1/2	53,157	1/2	68,237	1/2	83,483	1/2	98,791	1/2	114,098	1/2	129,392	1/2	144,686
3/4	7,967	3/4	23,291	3/4	38,568	3/4	53,467	3/4	68,554	3/4	83,802	3/4	99,110	3/4	114,417	3/4	129,710	3/4	145,004
6	8,286	6	23,610	6	38,880	6	53,776	6	68,871	6	84,121	6	99,429	6	114,735	6	130,029	6	145,323
1/4	8,606	1/4	23,929	1/4	39,192	1/4	54,085	1/4	69,188	1/4	84,440	1/4	99,747	1/4	115,054	1/4	130,348	1/4	145,641
1/2	8,925	1/2	24,249	1/2	39,504	1/2	54,394	1/2	69,506	1/2	84,759	1/2	100,066	1/2	115,372	1/2	130,666	1/2	145,959
3/4	9,245	3/4	24,568	3/4	39,815	3/4	54,704	3/4	69,823	3/4	85,079	3/4	100,385	3/4	115,691	3/4	130,985	3/4	146,277
7	9,564	7	24,887	7	40,127	7	55,013	7	70,140	7	85,398	7	100,704	7	116,010	7	131,303	7	146,595
1/4	9,884	1/4	25,206	1/4	40,439	1/4	55,322	1/4	70,457	1/4	85,717	1/4	101,023	1/4	116,328	1/4	131,622	1/4	146,913
1/2	10,204	1/2	25,525	1/2	40,751	1/2	55,632	1/2	70,774	1/2	86,036	1/2	101,342	1/2	116,647	1/2	131,941	1/2	147,231
3/4	10,523	3/4	25,844	3/4	41,063	3/4	55,941	3/4	71,091	3/4	86,355	3/4	101,661	3/4	116,966	3/4	132,259	3/4	147,548
8	10,843	8	26,164	8	41,375	8	56,250	8	71,408	8	86,674	8	101,980	8	117,284	8	132,578	8	147,866
1/4	11,162	1/4	26,483	1/4	41,686	1/4	56,559	1/4	71,725	1/4	86,993	1/4	102,299	1/4	117,603	1/4	132,897	1/4	148,184
1/2	11,482	1/2	26,802	1/2	41,998	1/2	56,869	1/2	72,043	1/2	87,312	1/2	102,618	1/2	117,921	1/2	133,215	1/2	148,501
3/4	11,801	3/4	27,121	3/4	42,310	3/4	57,178	3/4	72,360	3/4	87,631	3/4	102,937	3/4	118,240	3/4	133,534	3/4	148,819
9	12,120	9	27,440	9	42,622	9	57,487	9	72,677	9	87,950	9	103,256	9	118,559	9	133,852	9	149,137
1/4	12,440	1/4	27,759	1/4	42,934	1/4	57,798	1/4	72,994	1/4	88,270	1/4	103,576	1/4	118,877	1/4	134,171	1/4	149,455
1/2	12,759	1/2	28,078	1/2	43,246	1/2	58,109	1/2	73,311	1/2	88,589	1/2	103,895	1/2	119,196	1/2	134,490	1/2	149,773
3/4	13,078	3/4	28,397	3/4	43,558	3/4	58,420	3/4	73,628	3/4	88,908	3/4	104,214	3/4	119,515	3/4	134,808	3/4	150,091
10	13,397	10	28,716	10	43,869	10	58,731	10	73,945	10	89,227	10	104,533	10	119,833	10	135,127	10	150,409
1/4	13,716	1/4	29,035	1/4	44,181	1/4	59,043	1/4	74,263	1/4	89,546	1/4	104,852	1/4	120,152	1/4	135,446	1/4	150,678
1/2	14,035	1/2	29,354	1/2	44,493	1/2	59,356	1/2	74,580	1/2	89,865	1/2	105,171	1/2	120,470	1/2	135,764	1/2	150,948
3/4	14,355	3/4	29,673	3/4	44,805	3/4	59,668	3/4	74,897	3/4	90,184	3/4	105,490	3/4	120,789	3/4	136,083	3/4	151,217
11	14,674	11	29,992	11	45,117	11	59,981	11	75,214	11	90,503	11	105,809	11	121,108	11	136,401	11	151,486
1/4	14,993	1/4	30,311	1/4	45,427	1/4	60,297	1/4	75,531	1/4	90,821	1/4	106,128	1/4	121,426	1/4	136,720	1/4	151,706
1/2	15,312	1/2	30,630	1/2	45,737	1/2	60,612	1/2	75,848	1/2	91,140	1/2	106,447	1/2	121,745	1/2	137,039	1/2	151,926
3/4	15,631	3/4	30,949	3/4	46,047	3/4	60,928	3/4	76,165	3/4	91,459	3/4	106,766	3/4	122,063	3/4	137,357	3/4	152,146

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 427"

## 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	152,366	0	162,968	0	173,565	0	184,133	0	194,587	0		0		0		0		0	
1/4	152,586	1/4	163,189	1/4	173,785	1/4	184,354	1/4	194,759	1/4		1/4		1/4		1/4		1/4	
1/2	152,806	1/2	163,410	1/2	174,006	1/2	184,574	1/2	194,932	1/2		1/2		1/2		1/2		1/2	
3/4	153,027	3/4	163,631	3/4	174,226	3/4	184,794	3/4	195,104	3/4		3/4		3/4		3/4		3/4	
1	153,247	1	163,852	1	174,446	1	185,014	1	195,276	1		1		1		1		1	
1/4	153,468	1/4	164,073	1/4	174,666	1/4	185,234	1/4	195,403	1/4		1/4		1/4		1/4		1/4	
1/2	153,689	1/2	164,294	1/2	174,886	1/2	185,454	1/2	195,530	1/2		1/2		1/2		1/2		1/2	
3/4	153,910	3/4	164,515	3/4	175,106	3/4	185,675	3/4	195,657	3/4		3/4		3/4		3/4		3/4	
2	154,131	2	164,736	2	175,327	2	185,895	2	195,783	2		2		2		2		2	
1/4	154,352	1/4	164,957	1/4	175,547	1/4	186,115	1/4	195,864	1/4		1/4		1/4		1/4		1/4	
1/2	154,573	1/2	165,178	1/2	175,767	1/2	186,335	1/2	195,945	1/2		1/2		1/2		1/2		1/2	
3/4	154,794	3/4	165,398	3/4	175,987	3/4	186,555	3/4	196,027	3/4		3/4		3/4		3/4		3/4	
3	155,015	3	165,619	3	176,207	3	186,775	3	196,108	3		3		3		3		3	
1/4	155,236	1/4	165,840	1/4	176,427	1/4	186,996	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,457	1/2	166,061	1/2	176,648	1/2	187,216	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,678	3/4	166,282	3/4	176,868	3/4	187,436	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,898	4	166,503	4	177,088	4	187,656	4		4		4		4		4		4	
1/4	156,119	1/4	166,724	1/4	177,308	1/4	187,876	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,340	1/2	166,945	1/2	177,528	1/2	188,096	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,561	3/4	167,166	3/4	177,749	3/4	188,317	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,782	5	167,387	5	177,969	5	188,537	5		5		5		5		5		5	
1/4	157,003	1/4	167,608	1/4	178,189	1/4	188,756	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,224	1/2	167,829	1/2	178,409	1/2	188,975	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,445	3/4	168,050	3/4	178,629	3/4	189,194	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,666	6	168,271	6	178,849	6	189,413	6		6		6		6		6		6	
1/4	157,887	1/4	168,491	1/4	179,070	1/4	189,631	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,108	1/2	168,712	1/2	179,290	1/2	189,849	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,329	3/4	168,933	3/4	179,510	3/4	190,067	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,550	7	169,154	7	179,730	7	190,285	7		7		7		7		7		7	
1/4	158,771	1/4	169,375	1/4	179,950	1/4	190,503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,991	1/2	169,596	1/2	180,170	1/2	190,721	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,212	3/4	169,817	3/4	180,391	3/4	190,939	3/4		3/4		3/4		3/4		3/4		3/4	
8	159,433	8	170,038	8	180,611	8	191,157	8		8		8		8		8		8	
1/4	159,654	1/4	170,259	1/4	180,831	1/4	191,375	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,875	1/2	170,480	1/2	181,051	1/2	191,593	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,096	3/4	170,701	3/4	181,271	3/4	191,811	3/4		3/4		3/4		3/4		3/4		3/4	
9	160,317	9	170,922	9	181,491	9	192,029	9		9		9		9		9		9	
1/4	160,538	1/4	171,142	1/4	181,712	1/4	192,246	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,759	1/2	171,363	1/2	181,932	1/2	192,464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,980	3/4	171,583	3/4	182,152	3/4	192,681	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,201	10	171,804	10	182,372	10	192,899	10		10		10		10		10		10	
1/4	161,422	1/4	172,024	1/4	182,592	1/4	193,115	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,643	1/2	172,244	1/2	182,812	1/2	193,332	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,864	3/4	172,464	3/4	183,033	3/4	193,548	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,085	11	172,685	11	183,253	11	193,765	11		11		11		11		11		11	
1/4	162,305	1/4	172,905	1/4	183,473	1/4	193,970	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,526	1/2	173,125	1/2	183,693	1/2	194,176	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,747	3/4	173,345	3/4	183,913	3/4	194,381	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HFL 427"

3 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	1,051	0	15,968	0	31,319	0	46,654	0	62,003	0	77,355	0	92,706	0	108,057	0	123,392	0	138,723
1/4	1,291	1/4	16,288	1/4	31,639	1/4	46,973	1/4	62,323	1/4	77,675	1/4	93,026	1/4	108,377	1/4	123,712	1/4	139,043
1/2	1,530	1/2	16,608	1/2	31,959	1/2	47,293	1/2	62,643	1/2	77,994	1/2	93,346	1/2	108,697	1/2	124,031	1/2	139,362
3/4	1,770	3/4	16,928	3/4	32,278	3/4	47,612	3/4	62,963	3/4	78,314	3/4	93,666	3/4	109,017	3/4	124,350	3/4	139,682
1	2,010	1	17,247	1	32,598	1	47,932	1	63,283	1	78,634	1	93,985	1	109,337	1	124,670	1	140,001
1/4	2,308	1/4	17,567	1/4	32,918	1/4	48,252	1/4	63,603	1/4	78,954	1/4	94,305	1/4	109,656	1/4	124,989	1/4	140,320
1/2	2,605	1/2	17,887	1/2	33,238	1/2	48,571	1/2	63,922	1/2	79,274	1/2	94,625	1/2	109,976	1/2	125,309	1/2	140,640
3/4	2,903	3/4	18,207	3/4	33,558	3/4	48,891	3/4	64,242	3/4	79,594	3/4	94,945	3/4	110,296	3/4	125,628	3/4	140,959
2	3,201	2	18,527	2	33,877	2	49,211	2	64,562	2	79,913	2	95,265	2	110,615	2	125,947	2	141,279
1/4	3,517	1/4	18,846	1/4	34,197	1/4	49,531	1/4	64,882	1/4	80,233	1/4	95,584	1/4	110,935	1/4	126,267	1/4	141,598
1/2	3,834	1/2	19,166	1/2	34,517	1/2	49,850	1/2	65,202	1/2	80,553	1/2	95,904	1/2	111,254	1/2	126,586	1/2	141,917
3/4	4,151	3/4	19,486	3/4	34,837	3/4	50,170	3/4	65,521	3/4	80,873	3/4	96,224	3/4	111,574	3/4	126,906	3/4	142,237
3	4,468	3	19,806	3	35,157	3	50,490	3	65,841	3	81,193	3	96,544	3	111,893	3	127,225	3	142,556
1/4	4,786	1/4	20,126	1/4	35,476	1/4	50,810	1/4	66,161	1/4	81,512	1/4	96,864	1/4	112,213	1/4	127,544	1/4	142,876
1/2	5,104	1/2	20,445	1/2	35,796	1/2	51,130	1/2	66,481	1/2	81,832	1/2	97,184	1/2	112,532	1/2	127,864	1/2	143,195
3/4	5,422	3/4	20,765	3/4	36,115	3/4	51,449	3/4	66,801	3/4	82,152	3/4	97,503	3/4	112,852	3/4	128,183	3/4	143,514
4	5,740	4	21,085	4	36,435	4	51,769	4	67,121	4	82,472	4	97,823	4	113,171	4	128,503	4	143,834
1/4	6,059	1/4	21,405	1/4	36,754	1/4	52,089	1/4	67,440	1/4	82,792	1/4	98,143	1/4	113,491	1/4	128,822	1/4	144,153
1/2	6,378	1/2	21,725	1/2	37,074	1/2	52,409	1/2	67,760	1/2	83,112	1/2	98,463	1/2	113,810	1/2	129,141	1/2	144,473
3/4	6,697	3/4	22,044	3/4	37,393	3/4	52,729	3/4	68,080	3/4	83,431	3/4	98,783	3/4	114,129	3/4	129,461	3/4	144,792
5	7,016	5	22,364	5	37,712	5	53,049	5	68,400	5	83,751	5	99,102	5	114,449	5	129,780	5	145,112
1/4	7,335	1/4	22,684	1/4	38,032	1/4	53,368	1/4	68,720	1/4	84,071	1/4	99,422	1/4	114,768	1/4	130,100	1/4	145,431
1/2	7,654	1/2	23,004	1/2	38,351	1/2	53,688	1/2	69,039	1/2	84,391	1/2	99,742	1/2	115,088	1/2	130,419	1/2	145,750
3/4	7,974	3/4	23,324	3/4	38,670	3/4	54,008	3/4	69,359	3/4	84,711	3/4	100,062	3/4	115,407	3/4	130,738	3/4	146,070
6	8,293	6	23,644	6	38,990	6	54,328	6	69,679	6	85,030	6	100,382	6	115,726	6	131,058	6	146,389
1/4	8,613	1/4	23,963	1/4	39,309	1/4	54,648	1/4	69,999	1/4	85,350	1/4	100,702	1/4	116,046	1/4	131,377	1/4	146,708
1/2	8,933	1/2	24,283	1/2	39,628	1/2	54,967	1/2	70,319	1/2	85,670	1/2	101,021	1/2	116,365	1/2	131,697	1/2	147,027
3/4	9,252	3/4	24,603	3/4	39,948	3/4	55,287	3/4	70,639	3/4	85,990	3/4	101,341	3/4	116,685	3/4	132,016	3/4	147,346
7	9,572	7	24,923	7	40,267	7	55,607	7	70,958	7	86,310	7	101,661	7	117,004	7	132,335	7	147,665
1/4	9,892	1/4	25,243	1/4	40,586	1/4	55,927	1/4	71,278	1/4	86,630	1/4	101,981	1/4	117,323	1/4	132,655	1/4	147,983
1/2	10,212	1/2	25,562	1/2	40,905	1/2	56,247	1/2	71,598	1/2	86,949	1/2	102,301	1/2	117,643	1/2	132,974	1/2	148,302
3/4	10,531	3/4	25,882	3/4	41,225	3/4	56,567	3/4	71,918	3/4	87,269	3/4	102,620	3/4	117,962	3/4	133,294	3/4	148,620
8	10,851	8	26,202	8	41,544	8	56,886	8	72,238	8	87,589	8	102,940	8	118,282	8	133,613	8	148,939
1/4	11,171	1/4	26,522	1/4	41,863	1/4	57,206	1/4	72,558	1/4	87,909	1/4	103,260	1/4	118,601	1/4	133,932	1/4	149,257
1/2	11,491	1/2	26,842	1/2	42,183	1/2	57,526	1/2	72,877	1/2	88,229	1/2	103,580	1/2	118,920	1/2	134,252	1/2	149,576
3/4	11,811	3/4	27,161	3/4	42,502	3/4	57,846	3/4	73,197	3/4	88,548	3/4	103,900	3/4	119,240	3/4	134,571	3/4	149,894
9	12,130	9	27,481	9	42,821	9	58,166	9	73,517	9	88,868	9	104,220	9	119,559	9	134,891	9	150,212
1/4	12,450	1/4	27,801	1/4	43,141	1/4	58,485	1/4	73,837	1/4	89,188	1/4	104,539	1/4	119,879	1/4	135,210	1/4	150,531
1/2	12,770	1/2	28,121	1/2	43,460	1/2	58,805	1/2	74,157	1/2	89,508	1/2	104,859	1/2	120,198	1/2	135,529	1/2	150,850
3/4	13,090	3/4	28,441	3/4	43,779	3/4	59,125	3/4	74,476	3/4	89,828	3/4	105,179	3/4	120,517	3/4	135,849	3/4	151,168
10	13,410	10	28,760	10	44,099	10	59,445	10	74,796	10	90,148	10	105,499	10	120,837	10	136,168	10	151,487
1/4	13,729	1/4	29,080	1/4	44,418	1/4	59,765	1/4	75,116	1/4	90,467	1/4	105,819	1/4	121,156	1/4	136,488	1/4	151,756
1/2	14,049	1/2	29,400	1/2	44,737	1/2	60,085	1/2	75,436	1/2	90,787	1/2	106,138	1/2	121,476	1/2	136,807	1/2	152,026
3/4	14,369	3/4	29,720	3/4	45,057	3/4	60,404	3/4	75,756	3/4	91,107	3/4	106,458	3/4	121,795	3/4	137,126	3/4	152,295
11	14,689	11	30,040	11	45,376	11	60,724	11	76,076	11	91,427	11	106,778	11	122,115	11	137,446	11	152,565
1/4	15,009	1/4	30,360	1/4	45,695	1/4	61,044	1/4	76,395	1/4	91,747	1/4	107,098	1/4	122,434	1/4	137,765	1/4	152,785
1/2	15,328	1/2	30,679	1/2	46,015	1/2	61,364	1/2	76,715	1/2	92,066	1/2	107,418	1/2	122,753	1/2	138,085	1/2	153,005
3/4	15,648	3/4	30,999	3/4	46,334	3/4	61,684	3/4	77,035	3/4	92,386	3/4	107,738	3/4	123,073	3/4	138,404	3/4	153,225

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HFL 427"

**3 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

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	153,445	0	164,056	0	174,661	0	185,236	0	195,698	0		0		0		0		0	
1/4	153,666	1/4	164,277	1/4	174,881	1/4	185,457	1/4	195,870	1/4		1/4		1/4		1/4		1/4	
1/2	153,886	1/2	164,498	1/2	175,101	1/2	185,677	1/2	196,043	1/2		1/2		1/2		1/2		1/2	
3/4	154,107	3/4	164,719	3/4	175,322	3/4	185,897	3/4	196,215	3/4		3/4		3/4		3/4		3/4	
1	154,328	1	164,940	1	175,542	1	186,118	1	196,388	1		1		1		1		1	
1/4	154,549	1/4	165,161	1/4	175,762	1/4	186,338	1/4	196,514	1/4		1/4		1/4		1/4		1/4	
1/2	154,770	1/2	165,382	1/2	175,983	1/2	186,558	1/2	196,641	1/2		1/2		1/2		1/2		1/2	
3/4	154,991	3/4	165,603	3/4	176,203	3/4	186,779	3/4	196,768	3/4		3/4		3/4		3/4		3/4	
2	155,212	2	165,824	2	176,423	2	186,999	2	196,895	2		2		2		2		2	
1/4	155,433	1/4	166,046	1/4	176,644	1/4	187,219	1/4	196,976	1/4		1/4		1/4		1/4		1/4	
1/2	155,654	1/2	166,267	1/2	176,864	1/2	187,440	1/2	197,057	1/2		1/2		1/2		1/2		1/2	
3/4	155,875	3/4	166,488	3/4	177,084	3/4	187,660	3/4	197,139	3/4		3/4		3/4		3/4		3/4	
3	156,096	3	166,709	3	177,305	3	187,880	3	197,220	3		3		3		3		3	
1/4	156,318	1/4	166,930	1/4	177,525	1/4	188,101	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,539	1/2	167,151	1/2	177,745	1/2	188,321	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,760	3/4	167,372	3/4	177,965	3/4	188,541	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,981	4	167,593	4	178,186	4	188,762	4		4		4		4		4		4	
1/4	157,202	1/4	167,814	1/4	178,406	1/4	188,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,423	1/2	168,035	1/2	178,626	1/2	189,202	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,644	3/4	168,256	3/4	178,847	3/4	189,423	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,865	5	168,478	5	179,067	5	189,643	5		5		5		5		5		5	
1/4	158,086	1/4	168,699	1/4	179,287	1/4	189,862	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,307	1/2	168,920	1/2	179,508	1/2	190,082	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,528	3/4	169,141	3/4	179,728	3/4	190,301	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,750	6	169,362	6	179,948	6	190,520	6		6		6		6		6		6	
1/4	158,971	1/4	169,583	1/4	180,169	1/4	190,738	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,192	1/2	169,804	1/2	180,389	1/2	190,956	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,413	3/4	170,025	3/4	180,609	3/4	191,174	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,634	7	170,246	7	180,830	7	191,393	7		7		7		7		7		7	
1/4	159,855	1/4	170,467	1/4	181,050	1/4	191,611	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,076	1/2	170,688	1/2	181,270	1/2	191,829	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,297	3/4	170,910	3/4	181,491	3/4	192,047	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,518	8	171,131	8	181,711	8	192,265	8		8		8		8		8		8	
1/4	160,739	1/4	171,352	1/4	181,931	1/4	192,483	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,960	1/2	171,573	1/2	182,152	1/2	192,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,182	3/4	171,794	3/4	182,372	3/4	192,920	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,403	9	172,015	9	182,592	9	193,138	9		9		9		9		9		9	
1/4	161,624	1/4	172,236	1/4	182,813	1/4	193,355	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,845	1/2	172,456	1/2	183,033	1/2	193,573	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,066	3/4	172,677	3/4	183,253	3/4	193,791	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,287	10	172,898	10	183,474	10	194,008	10		10		10		10		10		10	
1/4	162,508	1/4	173,118	1/4	183,694	1/4	194,225	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,729	1/2	173,339	1/2	183,914	1/2	194,442	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,950	3/4	173,559	3/4	184,135	3/4	194,658	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,171	11	173,779	11	184,355	11	194,875	11		11		11		11		11		11	
1/4	163,392	1/4	174,000	1/4	184,575	1/4	195,081	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,614	1/2	174,220	1/2	184,796	1/2	195,286	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,835	3/4	174,440	3/4	185,016	3/4	195,492	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HFL 427"

## FUEL OIL INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 3'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	119	0	299	0	462	0		0		0		0		0		0	
1/4	1	1/4	123	1/4	303	1/4	465	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	127	1/2	307	1/2	468	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	130	3/4	311	3/4	470	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	134	1	314	1	473	1		1		1		1		1		1	
1/4	5	1/4	137	1/4	318	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	141	1/2	322	1/2	477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	144	3/4	326	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
2	9	2	148	2	329	2	482	2		2		2		2		2		2	
1/4	11	1/4	152	1/4	333	1/4	484	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	12	1/2	155	1/2	337	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	159	3/4	341	3/4	489	3/4		3/4		3/4		3/4		3/4		3/4	
3	16	3	162	3	344	3	491	3		3		3		3		3		3	
1/4	18	1/4	166	1/4	348	1/4	493	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	20	1/2	170	1/2	352	1/2	494	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	22	3/4	174	3/4	355	3/4	496	3/4		3/4		3/4		3/4		3/4		3/4	
4	25	4	177	4	359	4	498	4		4		4		4		4		4	
1/4	27	1/4	181	1/4	363	1/4	499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	29	1/2	185	1/2	366	1/2	501	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	189	3/4	370	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
5	34	5	192	5	373	5	504	5		5		5		5		5		5	
1/4	37	1/4	196	1/4	377	1/4	504	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	39	1/2	200	1/2	380	1/2	505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	204	3/4	384	3/4	506	3/4		3/4		3/4		3/4		3/4		3/4	
6	44	6	207	6	387	6	507	6		6		6		6		6		6	
1/4	47	1/4	211	1/4	391	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	215	1/2	394	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	219	3/4	398	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	56	7	223	7	401	7		7		7		7		7		7		7	
1/4	58	1/4	227	1/4	404	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	230	1/2	408	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	234	3/4	411	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	67	8	238	8	414	8		8		8		8		8		8		8	
1/4	70	1/4	242	1/4	418	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	246	1/2	421	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	250	3/4	424	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	80	9	253	9	427	9		9		9		9		9		9		9	
1/4	83	1/4	257	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	86	1/2	261	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	89	3/4	265	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	92	10	269	10	440	10		10		10		10		10		10		10	
1/4	96	1/4	273	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	99	1/2	276	1/2	445	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	102	3/4	280	3/4	448	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	106	11	284	11	451	11		11		11		11		11		11		11	
1/4	109	1/4	288	1/4	454	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	113	1/2	292	1/2	457	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	116	3/4	296	3/4	460	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 2" DIAMETER PIPE.

STRAPPED: 10/21/2013 CL - SW  
CALCULATED: 10/22/2013 CL  
PRINTED: 10/22/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2013

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



# BARGE "HFL 427"

## PORT 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	0	0	1,191	0	2,385	0	3,579	0	4,773	0		0		0		0		0	
1/4	25	1/4	1,216	1/4	2,410	1/4	3,604	1/4	4,798	1/4		1/4		1/4		1/4		1/4	
1/2	49	1/2	1,241	1/2	2,435	1/2	3,629	1/2	4,823	1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	1,266	3/4	2,460	3/4	3,654	3/4	4,848	3/4		3/4		3/4		3/4		3/4	
1	98	1	1,291	1	2,485	1	3,679	1	4,872	1		1		1		1		1	
1/4	123	1/4	1,316	1/4	2,509	1/4	3,703	1/4	4,897	1/4		1/4		1/4		1/4		1/4	
1/2	148	1/2	1,340	1/2	2,534	1/2	3,728	1/2	4,922	1/2		1/2		1/2		1/2		1/2	
3/4	172	3/4	1,365	3/4	2,559	3/4	3,753	3/4	4,947	3/4		3/4		3/4		3/4		3/4	
2	197	2	1,390	2	2,584	2	3,778	2	4,972	2		2		2		2		2	
1/4	222	1/4	1,415	1/4	2,609	1/4	3,803	1/4	4,997	1/4		1/4		1/4		1/4		1/4	
1/2	247	1/2	1,440	1/2	2,634	1/2	3,828	1/2	5,022	1/2		1/2		1/2		1/2		1/2	
3/4	271	3/4	1,465	3/4	2,659	3/4	3,853	3/4	5,047	3/4		3/4		3/4		3/4		3/4	
3	296	3	1,490	3	2,684	3	3,878	3	5,071	3		3		3		3		3	
1/4	321	1/4	1,515	1/4	2,708	1/4	3,902	1/4	5,096	1/4		1/4		1/4		1/4		1/4	
1/2	346	1/2	1,539	1/2	2,733	1/2	3,927	1/2	5,121	1/2		1/2		1/2		1/2		1/2	
3/4	371	3/4	1,564	3/4	2,758	3/4	3,952	3/4	5,146	3/4		3/4		3/4		3/4		3/4	
4	395	4	1,589	4	2,783	4	3,977	4	5,171	4		4		4		4		4	
1/4	420	1/4	1,614	1/4	2,808	1/4	4,002	1/4	5,196	1/4		1/4		1/4		1/4		1/4	
1/2	445	1/2	1,639	1/2	2,833	1/2	4,027	1/2	5,221	1/2		1/2		1/2		1/2		1/2	
3/4	470	3/4	1,664	3/4	2,858	3/4	4,052	3/4	5,246	3/4		3/4		3/4		3/4		3/4	
5	495	5	1,689	5	2,883	5	4,076	5	5,270	5		5		5		5		5	
1/4	520	1/4	1,714	1/4	2,907	1/4	4,101	1/4	5,295	1/4		1/4		1/4		1/4		1/4	
1/2	545	1/2	1,738	1/2	2,932	1/2	4,126	1/2	5,320	1/2		1/2		1/2		1/2		1/2	
3/4	569	3/4	1,763	3/4	2,957	3/4	4,151	3/4	5,345	3/4		3/4		3/4		3/4		3/4	
6	594	6	1,788	6	2,982	6	4,176	6	5,370	6		6		6		6		6	
1/4	619	1/4	1,813	1/4	3,007	1/4	4,201	1/4	5,395	1/4		1/4		1/4		1/4		1/4	
1/2	644	1/2	1,838	1/2	3,032	1/2	4,226	1/2	5,420	1/2		1/2		1/2		1/2		1/2	
3/4	669	3/4	1,863	3/4	3,057	3/4	4,251	3/4	5,445	3/4		3/4		3/4		3/4		3/4	
7	694	7	1,888	7	3,082	7	4,275	7	5,469	7		7		7		7		7	
1/4	719	1/4	1,913	1/4	3,106	1/4	4,300	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	744	1/2	1,937	1/2	3,131	1/2	4,325	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	768	3/4	1,962	3/4	3,156	3/4	4,350	3/4		3/4		3/4		3/4		3/4		3/4	
8	793	8	1,987	8	3,181	8	4,375	8		8		8		8		8		8	
1/4	818	1/4	2,012	1/4	3,206	1/4	4,400	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	843	1/2	2,037	1/2	3,231	1/2	4,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	868	3/4	2,062	3/4	3,256	3/4	4,450	3/4		3/4		3/4		3/4		3/4		3/4	
9	893	9	2,087	9	3,281	9	4,474	9		9		9		9		9		9	
1/4	918	1/4	2,112	1/4	3,305	1/4	4,499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	942	1/2	2,136	1/2	3,330	1/2	4,524	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	967	3/4	2,161	3/4	3,355	3/4	4,549	3/4		3/4		3/4		3/4		3/4		3/4	
10	992	10	2,186	10	3,380	10	4,574	10		10		10		10		10		10	
1/4	1,017	1/4	2,211	1/4	3,405	1/4	4,599	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,042	1/2	2,236	1/2	3,430	1/2	4,624	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,067	3/4	2,261	3/4	3,455	3/4	4,649	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,092	11	2,286	11	3,480	11	4,673	11		11		11		11		11		11	
1/4	1,117	1/4	2,311	1/4	3,504	1/4	4,698	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,141	1/2	2,335	1/2	3,529	1/2	4,723	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,166	3/4	2,360	3/4	3,554	3/4	4,748	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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& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HFL 427"

## 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	0	0	1,151	0	2,306	0	3,460	0	4,614	0		0		0		0		0	
1/4	24	1/4	1,176	1/4	2,330	1/4	3,484	1/4	4,638	1/4		1/4		1/4		1/4		1/4	
1/2	47	1/2	1,200	1/2	2,354	1/2	3,508	1/2	4,662	1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	1,224	3/4	2,378	3/4	3,532	3/4	4,686	3/4		3/4		3/4		3/4		3/4	
1	95	1	1,248	1	2,402	1	3,556	1	4,710	1		1		1		1		1	
1/4	119	1/4	1,272	1/4	2,426	1/4	3,580	1/4	4,734	1/4		1/4		1/4		1/4		1/4	
1/2	143	1/2	1,296	1/2	2,450	1/2	3,604	1/2	4,758	1/2		1/2		1/2		1/2		1/2	
3/4	166	3/4	1,320	3/4	2,474	3/4	3,628	3/4	4,782	3/4		3/4		3/4		3/4		3/4	
2	190	2	1,344	2	2,498	2	3,652	2	4,806	2		2		2		2		2	
1/4	214	1/4	1,368	1/4	2,522	1/4	3,676	1/4	4,830	1/4		1/4		1/4		1/4		1/4	
1/2	238	1/2	1,392	1/2	2,546	1/2	3,700	1/2	4,854	1/2		1/2		1/2		1/2		1/2	
3/4	262	3/4	1,416	3/4	2,570	3/4	3,724	3/4	4,879	3/4		3/4		3/4		3/4		3/4	
3	286	3	1,440	3	2,594	3	3,748	3	4,903	3		3		3		3		3	
1/4	310	1/4	1,464	1/4	2,618	1/4	3,772	1/4	4,927	1/4		1/4		1/4		1/4		1/4	
1/2	334	1/2	1,488	1/2	2,642	1/2	3,796	1/2	4,951	1/2		1/2		1/2		1/2		1/2	
3/4	358	3/4	1,512	3/4	2,666	3/4	3,821	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
4	382	4	1,536	4	2,690	4	3,845	4	4,999	4		4		4		4		4	
1/4	406	1/4	1,560	1/4	2,714	1/4	3,869	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	1,584	1/2	2,738	1/2	3,893	1/2	5,047	1/2		1/2		1/2		1/2		1/2	
3/4	454	3/4	1,608	3/4	2,763	3/4	3,917	3/4	5,071	3/4		3/4		3/4		3/4		3/4	
5	478	5	1,632	5	2,787	5	3,941	5	5,095	5		5		5		5		5	
1/4	502	1/4	1,656	1/4	2,811	1/4	3,965	1/4	5,119	1/4		1/4		1/4		1/4		1/4	
1/2	526	1/2	1,680	1/2	2,835	1/2	3,989	1/2	5,143	1/2		1/2		1/2		1/2		1/2	
3/4	550	3/4	1,705	3/4	2,859	3/4	4,013	3/4	5,167	3/4		3/4		3/4		3/4		3/4	
6	574	6	1,729	6	2,883	6	4,037	6	5,191	6		6		6		6		6	
1/4	598	1/4	1,753	1/4	2,907	1/4	4,061	1/4	5,215	1/4		1/4		1/4		1/4		1/4	
1/2	622	1/2	1,777	1/2	2,931	1/2	4,085	1/2	5,239	1/2		1/2		1/2		1/2		1/2	
3/4	647	3/4	1,801	3/4	2,955	3/4	4,109	3/4	5,263	3/4		3/4		3/4		3/4		3/4	
7	671	7	1,825	7	2,979	7	4,133	7	5,287	7		7		7		7		7	
1/4	695	1/4	1,849	1/4	3,003	1/4	4,157	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	719	1/2	1,873	1/2	3,027	1/2	4,181	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	743	3/4	1,897	3/4	3,051	3/4	4,205	3/4		3/4		3/4		3/4		3/4		3/4	
8	767	8	1,921	8	3,075	8	4,229	8		8		8		8		8		8	
1/4	791	1/4	1,945	1/4	3,099	1/4	4,253	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	815	1/2	1,969	1/2	3,123	1/2	4,277	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	839	3/4	1,993	3/4	3,147	3/4	4,301	3/4		3/4		3/4		3/4		3/4		3/4	
9	863	9	2,017	9	3,171	9	4,325	9		9		9		9		9		9	
1/4	887	1/4	2,041	1/4	3,195	1/4	4,350	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	911	1/2	2,065	1/2	3,219	1/2	4,374	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	935	3/4	2,089	3/4	3,243	3/4	4,398	3/4		3/4		3/4		3/4		3/4		3/4	
10	959	10	2,113	10	3,267	10	4,422	10		10		10		10		10		10	
1/4	983	1/4	2,137	1/4	3,292	1/4	4,446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,007	1/2	2,161	1/2	3,316	1/2	4,470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,031	3/4	2,185	3/4	3,340	3/4	4,494	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,055	11	2,209	11	3,364	11	4,518	11		11		11		11		11		11	
1/4	1,079	1/4	2,234	1/4	3,388	1/4	4,542	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,103	1/2	2,258	1/2	3,412	1/2	4,566	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,127	3/4	2,282	3/4	3,436	3/4	4,590	3/4		3/4		3/4		3/4		3/4		3/4	

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