



# BARGE "HFL 425"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	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: 238'-06"

August 12, 2013

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

<http://www.pmacorp.net>



# BARGE "HFL 425"

# 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 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	385	0	13,256	0	28,187	0	43,214	0	58,180	0	73,165	0	88,192	0	103,220	0	118,243	0	133,265
1/4	562	1/4	13,557	1/4	28,500	1/4	43,527	1/4	58,490	1/4	73,478	1/4	88,505	1/4	103,533	1/4	118,556	1/4	133,578
1/2	739	1/2	13,859	1/2	28,813	1/2	43,840	1/2	58,801	1/2	73,791	1/2	88,819	1/2	103,846	1/2	118,869	1/2	133,890
3/4	916	3/4	14,160	3/4	29,126	3/4	44,153	3/4	59,112	3/4	74,104	3/4	89,132	3/4	104,159	3/4	119,182	3/4	134,203
1	1,093	1	14,462	1	29,439	1	44,466	1	59,422	1	74,417	1	89,445	1	104,472	1	119,495	1	134,516
1/4	1,332	1/4	14,767	1/4	29,752	1/4	44,779	1/4	59,733	1/4	74,730	1/4	89,758	1/4	104,786	1/4	119,808	1/4	134,829
1/2	1,571	1/2	15,072	1/2	30,065	1/2	45,092	1/2	60,044	1/2	75,043	1/2	90,071	1/2	105,099	1/2	120,121	1/2	135,142
3/4	1,810	3/4	15,378	3/4	30,378	3/4	45,405	3/4	60,355	3/4	75,356	3/4	90,384	3/4	105,412	3/4	120,434	3/4	135,455
2	2,048	2	15,683	2	30,691	2	45,718	2	60,665	2	75,669	2	90,697	2	105,725	2	120,747	2	135,768
1/4	2,310	1/4	15,992	1/4	31,004	1/4	46,032	1/4	60,976	1/4	75,982	1/4	91,010	1/4	106,038	1/4	121,060	1/4	136,081
1/2	2,572	1/2	16,302	1/2	31,317	1/2	46,345	1/2	61,287	1/2	76,295	1/2	91,323	1/2	106,351	1/2	121,373	1/2	136,394
3/4	2,834	3/4	16,611	3/4	31,630	3/4	46,658	3/4	61,598	3/4	76,608	3/4	91,636	3/4	106,664	3/4	121,686	3/4	136,707
3	3,096	3	16,920	3	31,943	3	46,971	3	61,908	3	76,922	3	91,949	3	106,977	3	121,999	3	137,020
1/4	3,363	1/4	17,232	1/4	32,257	1/4	47,284	1/4	62,219	1/4	77,235	1/4	92,262	1/4	107,290	1/4	122,312	1/4	137,333
1/2	3,629	1/2	17,544	1/2	32,570	1/2	47,597	1/2	62,530	1/2	77,548	1/2	92,575	1/2	107,603	1/2	122,625	1/2	137,646
3/4	3,896	3/4	17,856	3/4	32,883	3/4	47,910	3/4	62,841	3/4	77,861	3/4	92,889	3/4	107,916	3/4	122,937	3/4	137,959
4	4,162	4	18,168	4	33,196	4	48,223	4	63,152	4	78,174	4	93,202	4	108,229	4	123,250	4	138,272
1/4	4,433	1/4	18,481	1/4	33,509	1/4	48,535	1/4	63,464	1/4	78,487	1/4	93,515	1/4	108,542	1/4	123,563	1/4	138,585
1/2	4,704	1/2	18,795	1/2	33,822	1/2	48,848	1/2	63,775	1/2	78,800	1/2	93,828	1/2	108,855	1/2	123,876	1/2	138,898
3/4	4,974	3/4	19,108	3/4	34,135	3/4	49,160	3/4	64,087	3/4	79,113	3/4	94,141	3/4	109,168	3/4	124,189	3/4	139,210
5	5,245	5	19,421	5	34,448	5	49,472	5	64,399	5	79,426	5	94,454	5	109,481	5	124,502	5	139,523
1/4	5,520	1/4	19,734	1/4	34,761	1/4	49,784	1/4	64,712	1/4	79,739	1/4	94,767	1/4	109,794	1/4	124,815	1/4	139,836
1/2	5,794	1/2	20,047	1/2	35,074	1/2	50,096	1/2	65,025	1/2	80,052	1/2	95,080	1/2	110,107	1/2	125,128	1/2	140,149
3/4	6,069	3/4	20,360	3/4	35,387	3/4	50,407	3/4	65,338	3/4	80,365	3/4	95,393	3/4	110,420	3/4	125,441	3/4	140,462
6	6,343	6	20,673	6	35,700	6	50,719	6	65,651	6	80,678	6	95,706	6	110,733	6	125,754	6	140,775
1/4	6,622	1/4	20,986	1/4	36,013	1/4	51,030	1/4	65,964	1/4	80,992	1/4	96,019	1/4	111,046	1/4	126,067	1/4	141,088
1/2	6,900	1/2	21,299	1/2	36,326	1/2	51,342	1/2	66,277	1/2	81,305	1/2	96,332	1/2	111,359	1/2	126,380	1/2	141,401
3/4	7,178	3/4	21,612	3/4	36,639	3/4	51,653	3/4	66,590	3/4	81,618	3/4	96,645	3/4	111,672	3/4	126,693	3/4	141,714
7	7,457	7	21,925	7	36,953	7	51,965	7	66,903	7	81,931	7	96,959	7	111,984	7	127,006	7	142,027
1/4	7,739	1/4	22,238	1/4	37,266	1/4	52,275	1/4	67,216	1/4	82,244	1/4	97,272	1/4	112,297	1/4	127,319	1/4	142,340
1/2	8,021	1/2	22,551	1/2	37,579	1/2	52,586	1/2	67,529	1/2	82,557	1/2	97,585	1/2	112,610	1/2	127,632	1/2	142,653
3/4	8,303	3/4	22,864	3/4	37,892	3/4	52,897	3/4	67,842	3/4	82,870	3/4	97,898	3/4	112,923	3/4	127,945	3/4	142,966
8	8,586	8	23,177	8	38,205	8	53,208	8	68,155	8	83,183	8	98,211	8	113,236	8	128,257	8	143,279
1/4	8,872	1/4	23,491	1/4	38,518	1/4	53,519	1/4	68,468	1/4	83,496	1/4	98,524	1/4	113,549	1/4	128,570	1/4	143,592
1/2	9,158	1/2	23,804	1/2	38,831	1/2	53,830	1/2	68,782	1/2	83,809	1/2	98,837	1/2	113,862	1/2	128,883	1/2	143,905
3/4	9,444	3/4	24,117	3/4	39,144	3/4	54,140	3/4	69,095	3/4	84,122	3/4	99,150	3/4	114,175	3/4	129,196	3/4	144,218
9	9,730	9	24,430	9	39,457	9	54,451	9	69,408	9	84,435	9	99,463	9	114,488	9	129,509	9	144,531
1/4	10,020	1/4	24,743	1/4	39,770	1/4	54,762	1/4	69,721	1/4	84,749	1/4	99,776	1/4	114,801	1/4	129,822	1/4	144,843
1/2	10,310	1/2	25,056	1/2	40,083	1/2	55,073	1/2	70,034	1/2	85,062	1/2	100,089	1/2	115,114	1/2	130,135	1/2	145,156
3/4	10,600	3/4	25,369	3/4	40,396	3/4	55,383	3/4	70,347	3/4	85,375	3/4	100,402	3/4	115,427	3/4	130,448	3/4	145,469
10	10,890	10	25,682	10	40,709	10	55,694	10	70,660	10	85,688	10	100,716	10	115,740	10	130,761	10	145,782
1/4	11,184	1/4	25,995	1/4	41,022	1/4	56,005	1/4	70,973	1/4	86,001	1/4	101,029	1/4	116,053	1/4	131,074	1/4	146,095
1/2	11,477	1/2	26,308	1/2	41,336	1/2	56,315	1/2	71,286	1/2	86,314	1/2	101,342	1/2	116,366	1/2	131,387	1/2	146,408
3/4	11,771	3/4	26,621	3/4	41,649	3/4	56,626	3/4	71,599	3/4	86,627	3/4	101,655	3/4	116,679	3/4	131,700	3/4	146,721
11	12,065	11	26,934	11	41,962	11	56,937	11	71,912	11	86,940	11	101,968	11	116,992	11	132,013	11	147,034
1/4	12,363	1/4	27,247	1/4	42,275	1/4	57,247	1/4	72,225	1/4	87,253	1/4	102,281	1/4	117,304	1/4	132,326	1/4	147,347
1/2	12,660	1/2	27,560	1/2	42,588	1/2	57,558	1/2	72,538	1/2	87,566	1/2	102,594	1/2	117,617	1/2	132,639	1/2	147,660
3/4	12,958	3/4	27,874	3/4	42,901	3/4	57,869	3/4	72,852	3/4	87,879	3/4	102,907	3/4	117,930	3/4	132,952	3/4	147,973

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 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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# BARGE "HFL 425"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,286	0	163,307	0	178,319	0	193,297	0	208,202	0		0		0		0		0	
1/4	148,599	1/4	163,620	1/4	178,631	1/4	193,609	1/4	208,482	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	148,912	1/2	163,933	1/2	178,943	1/2	193,921	1/2	208,762	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,225	3/4	164,246	3/4	179,255	3/4	194,233	3/4	209,042	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,538	1	164,559	1	179,567	1	194,545	1	209,322	1	1	1	1	1	1	1	1	1	1
1/4	149,851	1/4	164,872	1/4	179,879	1/4	194,857	1/4	209,554	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,163	1/2	165,185	1/2	180,191	1/2	195,169	1/2	209,786	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,476	3/4	165,498	3/4	180,503	3/4	195,481	3/4	210,018	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,789	2	165,811	2	180,815	2	195,793	2	210,249	2	2	2	2	2	2	2	2	2	2
1/4	151,102	1/4	166,124	1/4	181,127	1/4	196,105	1/4	210,429	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,415	1/2	166,437	1/2	181,440	1/2	196,417	1/2	210,609	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,728	3/4	166,749	3/4	181,752	3/4	196,729	3/4	210,788	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	152,041	3	167,062	3	182,064	3	197,041	3	210,968	3	3	3	3	3	3	3	3	3	3
1/4	152,354	1/4	167,375	1/4	182,376	1/4	197,353	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,667	1/2	167,688	1/2	182,688	1/2	197,665	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,980	3/4	168,001	3/4	183,000	3/4	197,977	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	153,293	4	168,314	4	183,312	4	198,289	4		4	4	4	4	4	4	4	4	4	4
1/4	153,606	1/4	168,627	1/4	183,624	1/4	198,601	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,919	1/2	168,940	1/2	183,936	1/2	198,913	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,232	3/4	169,253	3/4	184,248	3/4	199,225	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	154,545	5	169,566	5	184,560	5	199,537	5		5	5	5	5	5	5	5	5	5	5
1/4	154,858	1/4	169,879	1/4	184,872	1/4	199,848	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,171	1/2	170,192	1/2	185,184	1/2	200,159	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,484	3/4	170,505	3/4	185,496	3/4	200,470	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	155,796	6	170,818	6	185,808	6	200,781	6		6	6	6	6	6	6	6	6	6	6
1/4	156,109	1/4	171,131	1/4	186,120	1/4	201,091	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,422	1/2	171,444	1/2	186,432	1/2	201,401	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,735	3/4	171,757	3/4	186,744	3/4	201,711	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	157,048	7	172,070	7	187,056	7	202,021	7		7	7	7	7	7	7	7	7	7	7
1/4	157,361	1/4	172,382	1/4	187,368	1/4	202,331	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,674	1/2	172,695	1/2	187,680	1/2	202,641	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,987	3/4	173,008	3/4	187,992	3/4	202,951	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	158,300	8	173,321	8	188,304	8	203,260	8		8	8	8	8	8	8	8	8	8	8
1/4	158,613	1/4	173,634	1/4	188,616	1/4	203,571	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,926	1/2	173,947	1/2	188,928	1/2	203,881	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,239	3/4	174,260	3/4	189,240	3/4	204,191	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	159,552	9	174,573	9	189,552	9	204,501	9		9	9	9	9	9	9	9	9	9	9
1/4	159,865	1/4	174,886	1/4	189,864	1/4	204,811	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	160,178	1/2	175,198	1/2	190,176	1/2	205,120	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,491	3/4	175,511	3/4	190,488	3/4	205,430	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	160,804	10	175,823	10	190,800	10	205,740	10		10	10	10	10	10	10	10	10	10	10
1/4	161,116	1/4	176,135	1/4	191,112	1/4	206,050	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,429	1/2	176,447	1/2	191,424	1/2	206,359	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161,742	3/4	176,759	3/4	191,737	3/4	206,669	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	162,055	11	177,071	11	192,049	11	206,978	11		11	11	11	11	11	11	11	11	11	11
1/4	162,368	1/4	177,383	1/4	192,361	1/4	207,284	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	162,681	1/2	177,695	1/2	192,673	1/2	207,590	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162,994	3/4	178,007	3/4	192,985	3/4	207,896	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: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

1 STBD  
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	386	0	13,262	0	28,200	0	43,234	0	58,264	0	73,296	0	88,331	0	103,366	0	118,396	0	133,424
1/4	563	1/4	13,564	1/4	28,513	1/4	43,547	1/4	58,577	1/4	73,609	1/4	88,644	1/4	103,679	1/4	118,709	1/4	133,737
1/2	740	1/2	13,865	1/2	28,826	1/2	43,861	1/2	58,890	1/2	73,923	1/2	88,957	1/2	103,992	1/2	119,022	1/2	134,050
3/4	917	3/4	14,167	3/4	29,140	3/4	44,174	3/4	59,203	3/4	74,236	3/4	89,271	3/4	104,305	3/4	119,335	3/4	134,363
1	1,094	1	14,469	1	29,453	1	44,487	1	59,516	1	74,549	1	89,584	1	104,619	1	119,648	1	134,676
1/4	1,333	1/4	14,774	1/4	29,766	1/4	44,800	1/4	59,829	1/4	74,862	1/4	89,897	1/4	104,932	1/4	119,961	1/4	134,990
1/2	1,572	1/2	15,080	1/2	30,079	1/2	45,113	1/2	60,142	1/2	75,175	1/2	90,210	1/2	105,245	1/2	120,274	1/2	135,303
3/4	1,810	3/4	15,385	3/4	30,392	3/4	45,427	3/4	60,455	3/4	75,489	3/4	90,523	3/4	105,558	3/4	120,587	3/4	135,616
2	2,049	2	15,691	2	30,706	2	45,740	2	60,768	2	75,802	2	90,837	2	105,871	2	120,901	2	135,929
1/4	2,311	1/4	16,000	1/4	31,019	1/4	46,053	1/4	61,081	1/4	76,115	1/4	91,150	1/4	106,185	1/4	121,214	1/4	136,242
1/2	2,574	1/2	16,309	1/2	31,332	1/2	46,366	1/2	61,394	1/2	76,428	1/2	91,463	1/2	106,498	1/2	121,527	1/2	136,555
3/4	2,836	3/4	16,619	3/4	31,645	3/4	46,680	3/4	61,707	3/4	76,742	3/4	91,776	3/4	106,811	3/4	121,840	3/4	136,868
3	3,098	3	16,928	3	31,958	3	46,993	3	62,020	3	77,055	3	92,090	3	107,124	3	122,153	3	137,181
1/4	3,364	1/4	17,240	1/4	32,272	1/4	47,306	1/4	62,333	1/4	77,368	1/4	92,403	1/4	107,437	1/4	122,466	1/4	137,494
1/2	3,631	1/2	17,552	1/2	32,585	1/2	47,619	1/2	62,647	1/2	77,681	1/2	92,716	1/2	107,751	1/2	122,779	1/2	137,807
3/4	3,898	3/4	17,865	3/4	32,898	3/4	47,932	3/4	62,960	3/4	77,994	3/4	93,029	3/4	108,064	3/4	123,092	3/4	138,120
4	4,165	4	18,177	4	33,211	4	48,246	4	63,273	4	78,308	4	93,342	4	108,377	4	123,405	4	138,434
1/4	4,435	1/4	18,490	1/4	33,525	1/4	48,559	1/4	63,586	1/4	78,621	1/4	93,656	1/4	108,690	1/4	123,718	1/4	138,747
1/2	4,706	1/2	18,803	1/2	33,838	1/2	48,872	1/2	63,899	1/2	78,934	1/2	93,969	1/2	109,003	1/2	124,031	1/2	139,060
3/4	4,977	3/4	19,117	3/4	34,151	3/4	49,185	3/4	64,213	3/4	79,247	3/4	94,282	3/4	109,316	3/4	124,344	3/4	139,373
5	5,248	5	19,430	5	34,464	5	49,498	5	64,526	5	79,561	5	94,595	5	109,629	5	124,658	5	139,686
1/4	5,522	1/4	19,743	1/4	34,777	1/4	49,812	1/4	64,839	1/4	79,874	1/4	94,909	1/4	109,942	1/4	124,971	1/4	139,999
1/2	5,797	1/2	20,056	1/2	35,091	1/2	50,125	1/2	65,152	1/2	80,187	1/2	95,222	1/2	110,255	1/2	125,284	1/2	140,312
3/4	6,072	3/4	20,369	3/4	35,404	3/4	50,438	3/4	65,465	3/4	80,500	3/4	95,535	3/4	110,569	3/4	125,597	3/4	140,625
6	6,346	6	20,683	6	35,717	6	50,751	6	65,779	6	80,813	6	95,848	6	110,882	6	125,910	6	140,938
1/4	6,625	1/4	20,996	1/4	36,030	1/4	51,064	1/4	66,092	1/4	81,127	1/4	96,161	1/4	111,195	1/4	126,223	1/4	141,251
1/2	6,903	1/2	21,309	1/2	36,343	1/2	51,378	1/2	66,405	1/2	81,440	1/2	96,475	1/2	111,508	1/2	126,536	1/2	141,564
3/4	7,182	3/4	21,622	3/4	36,657	3/4	51,691	3/4	66,718	3/4	81,753	3/4	96,788	3/4	111,821	3/4	126,849	3/4	141,878
7	7,460	7	21,936	7	36,970	7	52,004	7	67,032	7	82,066	7	97,101	7	112,134	7	127,162	7	142,191
1/4	7,743	1/4	22,249	1/4	37,283	1/4	52,317	1/4	67,345	1/4	82,380	1/4	97,414	1/4	112,447	1/4	127,475	1/4	142,504
1/2	8,025	1/2	22,562	1/2	37,596	1/2	52,630	1/2	67,658	1/2	82,693	1/2	97,728	1/2	112,760	1/2	127,788	1/2	142,817
3/4	8,307	3/4	22,875	3/4	37,910	3/4	52,943	3/4	67,971	3/4	83,006	3/4	98,041	3/4	113,073	3/4	128,102	3/4	143,130
8	8,590	8	23,188	8	38,223	8	53,256	8	68,285	8	83,319	8	98,354	8	113,386	8	128,415	8	143,443
1/4	8,876	1/4	23,502	1/4	38,536	1/4	53,569	1/4	68,598	1/4	83,633	1/4	98,667	1/4	113,699	1/4	128,728	1/4	143,756
1/2	9,162	1/2	23,815	1/2	38,849	1/2	53,882	1/2	68,911	1/2	83,946	1/2	98,981	1/2	114,013	1/2	129,041	1/2	144,069
3/4	9,448	3/4	24,128	3/4	39,162	3/4	54,195	3/4	69,224	3/4	84,259	3/4	99,294	3/4	114,326	3/4	129,354	3/4	144,382
9	9,735	9	24,441	9	39,476	9	54,508	9	69,537	9	84,572	9	99,607	9	114,639	9	129,667	9	144,695
1/4	10,025	1/4	24,754	1/4	39,789	1/4	54,821	1/4	69,851	1/4	84,885	1/4	99,920	1/4	114,952	1/4	129,980	1/4	145,008
1/2	10,315	1/2	25,068	1/2	40,102	1/2	55,134	1/2	70,164	1/2	85,199	1/2	100,233	1/2	115,265	1/2	130,293	1/2	145,322
3/4	10,605	3/4	25,381	3/4	40,415	3/4	55,447	3/4	70,477	3/4	85,512	3/4	100,547	3/4	115,578	3/4	130,606	3/4	145,635
10	10,895	10	25,694	10	40,728	10	55,760	10	70,790	10	85,825	10	100,860	10	115,891	10	130,919	10	145,948
1/4	11,189	1/4	26,007	1/4	41,042	1/4	56,073	1/4	71,104	1/4	86,138	1/4	101,173	1/4	116,204	1/4	131,232	1/4	146,261
1/2	11,483	1/2	26,321	1/2	41,355	1/2	56,386	1/2	71,417	1/2	86,452	1/2	101,486	1/2	116,517	1/2	131,546	1/2	146,574
3/4	11,777	3/4	26,634	3/4	41,668	3/4	56,699	3/4	71,730	3/4	86,765	3/4	101,800	3/4	116,830	3/4	131,859	3/4	146,887
11	12,071	11	26,947	11	41,981	11	57,012	11	72,043	11	87,078	11	102,113	11	117,143	11	132,172	11	147,200
1/4	12,369	1/4	27,260	1/4	42,295	1/4	57,325	1/4	72,356	1/4	87,391	1/4	102,426	1/4	117,457	1/4	132,485	1/4	147,513
1/2	12,666	1/2	27,573	1/2	42,608	1/2	57,638	1/2	72,670	1/2	87,704	1/2	102,739	1/2	117,770	1/2	132,798	1/2	147,826
3/4	12,964	3/4	27,887	3/4	42,921	3/4	57,951	3/4	72,983	3/4	88,018	3/4	103,052	3/4	118,083	3/4	133,111	3/4	148,139

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 10'-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 425"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,453	0	163,481	0	178,500	0	193,485	0	208,397	0		0		0		0		0	
1/4	148,766	1/4	163,794	1/4	178,813	1/4	193,797	1/4	208,678	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,079	1/2	164,107	1/2	179,125	1/2	194,109	1/2	208,958	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,392	3/4	164,420	3/4	179,437	3/4	194,422	3/4	209,238	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,705	1	164,733	1	179,749	1	194,734	1	209,519	1	1	1	1	1	1	1	1	1	1
1/4	150,018	1/4	165,047	1/4	180,061	1/4	195,046	1/4	209,750	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,331	1/2	165,360	1/2	180,374	1/2	195,358	1/2	209,982	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,644	3/4	165,673	3/4	180,686	3/4	195,670	3/4	210,214	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,957	2	165,986	2	180,998	2	195,983	2	210,446	2	2	2	2	2	2	2	2	2	2
1/4	151,270	1/4	166,299	1/4	181,310	1/4	196,295	1/4	210,626	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,583	1/2	166,612	1/2	181,622	1/2	196,607	1/2	210,805	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,897	3/4	166,925	3/4	181,934	3/4	196,919	3/4	210,985	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	152,210	3	167,238	3	182,247	3	197,231	3	211,165	3	3	3	3	3	3	3	3	3	3
1/4	152,523	1/4	167,551	1/4	182,559	1/4	197,543	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,836	1/2	167,864	1/2	182,871	1/2	197,856	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,149	3/4	168,177	3/4	183,183	3/4	198,168	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	153,462	4	168,491	4	183,495	4	198,480	4		4	4	4	4	4	4	4	4	4	4
1/4	153,775	1/4	168,804	1/4	183,808	1/4	198,792	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,088	1/2	169,117	1/2	184,120	1/2	199,104	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,401	3/4	169,430	3/4	184,432	3/4	199,417	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	154,714	5	169,743	5	184,744	5	199,729	5		5	5	5	5	5	5	5	5	5	5
1/4	155,028	1/4	170,056	1/4	185,056	1/4	200,040	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,341	1/2	170,369	1/2	185,368	1/2	200,351	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,654	3/4	170,682	3/4	185,681	3/4	200,662	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	155,967	6	170,995	6	185,993	6	200,973	6		6	6	6	6	6	6	6	6	6	6
1/4	156,280	1/4	171,308	1/4	186,305	1/4	201,283	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,593	1/2	171,622	1/2	186,617	1/2	201,593	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,906	3/4	171,935	3/4	186,929	3/4	201,903	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	157,219	7	172,248	7	187,241	7	202,213	7		7	7	7	7	7	7	7	7	7	7
1/4	157,532	1/4	172,561	1/4	187,554	1/4	202,523	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,845	1/2	172,874	1/2	187,866	1/2	202,834	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,158	3/4	173,187	3/4	188,178	3/4	203,144	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	158,472	8	173,500	8	188,490	8	203,454	8		8	8	8	8	8	8	8	8	8	8
1/4	158,785	1/4	173,813	1/4	188,802	1/4	203,764	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	159,098	1/2	174,126	1/2	189,115	1/2	204,074	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	159,411	3/4	174,439	3/4	189,427	3/4	204,384	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	159,724	9	174,752	9	189,739	9	204,694	9		9	9	9	9	9	9	9	9	9	9
1/4	160,037	1/4	175,065	1/4	190,051	1/4	205,005	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	160,350	1/2	175,378	1/2	190,363	1/2	205,315	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	160,663	3/4	175,690	3/4	190,675	3/4	205,625	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	160,976	10	176,003	10	190,988	10	205,935	10		10	10	10	10	10	10	10	10	10	10
1/4	161,289	1/4	176,315	1/4	191,300	1/4	206,244	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	161,602	1/2	176,627	1/2	191,612	1/2	206,554	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161,916	3/4	176,940	3/4	191,924	3/4	206,864	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	162,229	11	177,252	11	192,236	11	207,173	11		11	11	11	11	11	11	11	11	11	11
1/4	162,542	1/4	177,564	1/4	192,549	1/4	207,479	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	162,855	1/2	177,876	1/2	192,861	1/2	207,785	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	163,168	3/4	178,188	3/4	193,173	3/4	208,091	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: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,717	0	30,801	0	45,513	0	60,018	0	74,892	0	89,978	0	105,064	0	120,145	0	135,224
1/4	1,269	1/4	16,032	1/4	31,115	1/4	45,814	1/4	60,321	1/4	75,206	1/4	90,292	1/4	105,379	1/4	120,459	1/4	135,538
1/2	1,504	1/2	16,346	1/2	31,429	1/2	46,116	1/2	60,623	1/2	75,521	1/2	90,607	1/2	105,693	1/2	120,773	1/2	135,852
3/4	1,740	3/4	16,660	3/4	31,744	3/4	46,417	3/4	60,926	3/4	75,835	3/4	90,921	3/4	106,007	3/4	121,087	3/4	136,166
1	1,976	1	16,975	1	32,058	1	46,719	1	61,228	1	76,149	1	91,235	1	106,321	1	121,402	1	136,480
1/4	2,270	1/4	17,289	1/4	32,372	1/4	47,020	1/4	61,531	1/4	76,464	1/4	91,550	1/4	106,636	1/4	121,716	1/4	136,794
1/2	2,563	1/2	17,603	1/2	32,686	1/2	47,322	1/2	61,833	1/2	76,778	1/2	91,864	1/2	106,950	1/2	122,030	1/2	137,108
3/4	2,857	3/4	17,917	3/4	33,001	3/4	47,624	3/4	62,136	3/4	77,092	3/4	92,178	3/4	107,264	3/4	122,344	3/4	137,423
2	3,151	2	18,232	2	33,315	2	47,925	2	62,438	2	77,406	2	92,493	2	107,579	2	122,658	2	137,737
1/4	3,464	1/4	18,546	1/4	33,629	1/4	48,227	1/4	62,741	1/4	77,721	1/4	92,807	1/4	107,893	1/4	122,972	1/4	138,051
1/2	3,778	1/2	18,860	1/2	33,944	1/2	48,528	1/2	63,043	1/2	78,035	1/2	93,121	1/2	108,207	1/2	123,286	1/2	138,365
3/4	4,091	3/4	19,175	3/4	34,258	3/4	48,830	3/4	63,346	3/4	78,349	3/4	93,435	3/4	108,522	3/4	123,601	3/4	138,679
3	4,404	3	19,489	3	34,572	3	49,132	3	63,648	3	78,664	3	93,750	3	108,836	3	123,915	3	138,993
1/4	4,718	1/4	19,803	1/4	34,886	1/4	49,434	1/4	63,951	1/4	78,978	1/4	94,064	1/4	109,150	1/4	124,229	1/4	139,307
1/2	5,032	1/2	20,117	1/2	35,201	1/2	49,735	1/2	64,253	1/2	79,292	1/2	94,378	1/2	109,464	1/2	124,543	1/2	139,622
3/4	5,346	3/4	20,432	3/4	35,515	3/4	50,037	3/4	64,556	3/4	79,606	3/4	94,693	3/4	109,778	3/4	124,857	3/4	139,936
4	5,660	4	20,746	4	35,829	4	50,339	4	64,858	4	79,921	4	95,007	4	110,093	4	125,171	4	140,250
1/4	5,975	1/4	21,060	1/4	36,138	1/4	50,641	1/4	65,167	1/4	80,235	1/4	95,321	1/4	110,407	1/4	125,485	1/4	140,564
1/2	6,289	1/2	21,375	1/2	36,446	1/2	50,943	1/2	65,475	1/2	80,549	1/2	95,635	1/2	110,721	1/2	125,800	1/2	140,878
3/4	6,603	3/4	21,689	3/4	36,755	3/4	51,246	3/4	65,783	3/4	80,864	3/4	95,950	3/4	111,035	3/4	126,114	3/4	141,192
5	6,917	5	22,003	5	37,063	5	51,548	5	66,092	5	81,178	5	96,264	5	111,349	5	126,428	5	141,506
1/4	7,232	1/4	22,317	1/4	37,365	1/4	51,850	1/4	66,406	1/4	81,492	1/4	96,578	1/4	111,663	1/4	126,742	1/4	141,820
1/2	7,546	1/2	22,632	1/2	37,668	1/2	52,153	1/2	66,720	1/2	81,807	1/2	96,893	1/2	111,978	1/2	127,056	1/2	142,135
3/4	7,860	3/4	22,946	3/4	37,970	3/4	52,455	3/4	67,035	3/4	82,121	3/4	97,207	3/4	112,292	3/4	127,370	3/4	142,449
6	8,175	6	23,260	6	38,273	6	52,758	6	67,349	6	82,435	6	97,521	6	112,606	6	127,684	6	142,763
1/4	8,489	1/4	23,575	1/4	38,575	1/4	53,060	1/4	67,663	1/4	82,749	1/4	97,836	1/4	112,920	1/4	127,998	1/4	143,077
1/2	8,803	1/2	23,889	1/2	38,877	1/2	53,363	1/2	67,978	1/2	83,064	1/2	98,150	1/2	113,234	1/2	128,313	1/2	143,391
3/4	9,117	3/4	24,203	3/4	39,179	3/4	53,665	3/4	68,292	3/4	83,378	3/4	98,464	3/4	113,548	3/4	128,627	3/4	143,705
7	9,432	7	24,517	7	39,481	7	53,968	7	68,606	7	83,692	7	98,778	7	113,862	7	128,941	7	144,019
1/4	9,746	1/4	24,832	1/4	39,783	1/4	54,270	1/4	68,920	1/4	84,007	1/4	99,093	1/4	114,176	1/4	129,255	1/4	144,334
1/2	10,060	1/2	25,146	1/2	40,084	1/2	54,573	1/2	69,235	1/2	84,321	1/2	99,407	1/2	114,491	1/2	129,569	1/2	144,648
3/4	10,375	3/4	25,460	3/4	40,386	3/4	54,875	3/4	69,549	3/4	84,635	3/4	99,721	3/4	114,805	3/4	129,883	3/4	144,962
8	10,689	8	25,775	8	40,687	8	55,178	8	69,863	8	84,949	8	100,036	8	115,119	8	130,197	8	145,276
1/4	11,003	1/4	26,089	1/4	40,989	1/4	55,480	1/4	70,178	1/4	85,264	1/4	100,350	1/4	115,433	1/4	130,512	1/4	145,590
1/2	11,317	1/2	26,403	1/2	41,291	1/2	55,783	1/2	70,492	1/2	85,578	1/2	100,664	1/2	115,747	1/2	130,826	1/2	145,904
3/4	11,632	3/4	26,717	3/4	41,592	3/4	56,085	3/4	70,806	3/4	85,892	3/4	100,978	3/4	116,061	3/4	131,140	3/4	146,218
9	11,946	9	27,031	9	41,894	9	56,388	9	71,121	9	86,207	9	101,293	9	116,375	9	131,454	9	146,533
1/4	12,260	1/4	27,345	1/4	42,195	1/4	56,690	1/4	71,435	1/4	86,521	1/4	101,607	1/4	116,690	1/4	131,768	1/4	146,847
1/2	12,575	1/2	27,660	1/2	42,497	1/2	56,993	1/2	71,749	1/2	86,835	1/2	101,921	1/2	117,004	1/2	132,082	1/2	147,161
3/4	12,889	3/4	27,974	3/4	42,798	3/4	57,295	3/4	72,063	3/4	87,150	3/4	102,236	3/4	117,318	3/4	132,396	3/4	147,475
10	13,203	10	28,288	10	43,100	10	57,598	10	72,378	10	87,464	10	102,550	10	117,632	10	132,711	10	147,789
1/4	13,517	1/4	28,602	1/4	43,402	1/4	57,900	1/4	72,692	1/4	87,778	1/4	102,864	1/4	117,946	1/4	133,025	1/4	148,103
1/2	13,832	1/2	28,916	1/2	43,703	1/2	58,203	1/2	73,006	1/2	88,092	1/2	103,179	1/2	118,260	1/2	133,339	1/2	148,417
3/4	14,146	3/4	29,230	3/4	44,005	3/4	58,505	3/4	73,321	3/4	88,407	3/4	103,493	3/4	118,574	3/4	133,653	3/4	148,731
11	14,460	11	29,544	11	44,306	11	58,808	11	73,635	11	88,721	11	103,807	11	118,889	11	133,967	11	149,046
1/4	14,775	1/4	29,858	1/4	44,608	1/4	59,110	1/4	73,949	1/4	89,035	1/4	104,121	1/4	119,203	1/4	134,281	1/4	149,360
1/2	15,089	1/2	30,172	1/2	44,909	1/2	59,413	1/2	74,263	1/2	89,350	1/2	104,436	1/2	119,517	1/2	134,595	1/2	149,674
3/4	15,403	3/4	30,487	3/4	45,211	3/4	59,716	3/4	74,578	3/4	89,664	3/4	104,750	3/4	119,831	3/4	134,909	3/4	149,988

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 10'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HFL 425"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,302	0	165,381	0	180,449	0	195,476	0	210,406	0		0		0		0		0	
1/4	150,616	1/4	165,695	1/4	180,762	1/4	195,789	1/4	210,686	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,930	1/2	166,009	1/2	181,075	1/2	196,102	1/2	210,967	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,245	3/4	166,323	3/4	181,388	3/4	196,415	3/4	211,247	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	151,559	1	166,637	1	181,701	1	196,728	1	211,527	1	1	1	1	1	1	1	1	1	1
1/4	151,873	1/4	166,951	1/4	182,014	1/4	197,041	1/4	211,758	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,187	1/2	167,266	1/2	182,327	1/2	197,354	1/2	211,990	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,501	3/4	167,580	3/4	182,640	3/4	197,667	3/4	212,222	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	152,815	2	167,894	2	182,953	2	197,981	2	212,453	2	2	2	2	2	2	2	2	2	2
1/4	153,129	1/4	168,208	1/4	183,266	1/4	198,294	1/4	212,632	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,444	1/2	168,522	1/2	183,579	1/2	198,607	1/2	212,811	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,758	3/4	168,836	3/4	183,892	3/4	198,920	3/4	212,991	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	154,072	3	169,150	3	184,205	3	199,233	3	213,170	3	3	3	3	3	3	3	3	3	3
1/4	154,386	1/4	169,464	1/4	184,519	1/4	199,546	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,700	1/2	169,779	1/2	184,832	1/2	199,859	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,014	3/4	170,093	3/4	185,145	3/4	200,172	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	155,328	4	170,407	4	185,458	4	200,485	4	4	4	4	4	4	4	4	4	4	4	4
1/4	155,642	1/4	170,721	1/4	185,771	1/4	200,798	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	155,957	1/2	171,035	1/2	186,084	1/2	201,111	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	156,271	3/4	171,349	3/4	186,397	3/4	201,424	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	156,585	5	171,663	5	186,710	5	201,737	5	5	5	5	5	5	5	5	5	5	5	5
1/4	156,899	1/4	171,978	1/4	187,023	1/4	202,049	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	157,213	1/2	172,292	1/2	187,336	1/2	202,360	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	157,527	3/4	172,606	3/4	187,649	3/4	202,672	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	157,841	6	172,920	6	187,962	6	202,983	6	6	6	6	6	6	6	6	6	6	6	6
1/4	158,156	1/4	173,234	1/4	188,275	1/4	203,293	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	158,470	1/2	173,548	1/2	188,588	1/2	203,603	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	158,784	3/4	173,862	3/4	188,902	3/4	203,913	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	159,098	7	174,177	7	189,215	7	204,223	7	7	7	7	7	7	7	7	7	7	7	7
1/4	159,412	1/4	174,491	1/4	189,528	1/4	204,533	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	159,726	1/2	174,805	1/2	189,841	1/2	204,843	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	160,040	3/4	175,119	3/4	190,154	3/4	205,153	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	160,355	8	175,433	8	190,467	8	205,464	8	8	8	8	8	8	8	8	8	8	8	8
1/4	160,669	1/4	175,747	1/4	190,780	1/4	205,774	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	160,983	1/2	176,061	1/2	191,093	1/2	206,084	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	161,297	3/4	176,375	3/4	191,406	3/4	206,394	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	161,611	9	176,690	9	191,719	9	206,704	9	9	9	9	9	9	9	9	9	9	9	9
1/4	161,925	1/4	177,003	1/4	192,032	1/4	207,014	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	162,239	1/2	177,317	1/2	192,345	1/2	207,324	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	162,553	3/4	177,630	3/4	192,658	3/4	207,634	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	162,868	10	177,944	10	192,971	10	207,944	10	10	10	10	10	10	10	10	10	10	10	10
1/4	163,182	1/4	178,257	1/4	193,284	1/4	208,254	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	163,496	1/2	178,570	1/2	193,598	1/2	208,563	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	163,810	3/4	178,883	3/4	193,911	3/4	208,873	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	164,124	11	179,196	11	194,224	11	209,183	11	11	11	11	11	11	11	11	11	11	11	11
1/4	164,438	1/4	179,509	1/4	194,537	1/4	209,489	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	164,752	1/2	179,822	1/2	194,850	1/2	209,794	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	165,067	3/4	180,136	3/4	195,163	3/4	210,100	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.

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PRINTED: 08/12/2013 CL

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ALL PRIOR TO 08/2013

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# BARGE "HFL 425"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	1,030	0	15,669	0	30,705	0	45,723	0	60,747	0	75,786	0	90,824	0	105,863	0	120,896	0	135,927
1/4	1,265	1/4	15,982	1/4	31,018	1/4	46,036	1/4	61,060	1/4	76,099	1/4	91,138	1/4	106,176	1/4	121,209	1/4	136,241
1/2	1,500	1/2	16,295	1/2	31,332	1/2	46,348	1/2	61,374	1/2	76,412	1/2	91,451	1/2	106,490	1/2	121,523	1/2	136,554
3/4	1,735	3/4	16,608	3/4	31,645	3/4	46,660	3/4	61,687	3/4	76,726	3/4	91,764	3/4	106,803	3/4	121,836	3/4	136,867
1	1,970	1	16,922	1	31,958	1	46,973	1	62,000	1	77,039	1	92,078	1	107,116	1	122,149	1	137,180
1/4	2,263	1/4	17,235	1/4	32,271	1/4	47,285	1/4	62,313	1/4	77,352	1/4	92,391	1/4	107,430	1/4	122,462	1/4	137,493
1/2	2,556	1/2	17,548	1/2	32,585	1/2	47,597	1/2	62,627	1/2	77,665	1/2	92,704	1/2	107,743	1/2	122,775	1/2	137,806
3/4	2,849	3/4	17,862	3/4	32,898	3/4	47,910	3/4	62,940	3/4	77,979	3/4	93,017	3/4	108,056	3/4	123,088	3/4	138,120
2	3,141	2	18,175	2	33,211	2	48,222	2	63,253	2	78,292	2	93,331	2	108,369	2	123,402	2	138,433
1/4	3,454	1/4	18,488	1/4	33,525	1/4	48,535	1/4	63,567	1/4	78,605	1/4	93,644	1/4	108,683	1/4	123,715	1/4	138,746
1/2	3,766	1/2	18,802	1/2	33,838	1/2	48,847	1/2	63,880	1/2	78,919	1/2	93,957	1/2	108,996	1/2	124,028	1/2	139,059
3/4	4,078	3/4	19,115	3/4	34,151	3/4	49,160	3/4	64,193	3/4	79,232	3/4	94,271	3/4	109,309	3/4	124,341	3/4	139,372
3	4,391	3	19,428	3	34,465	3	49,472	3	64,507	3	79,545	3	94,584	3	109,623	3	124,654	3	139,685
1/4	4,704	1/4	19,742	1/4	34,778	1/4	49,785	1/4	64,820	1/4	79,859	1/4	94,897	1/4	109,936	1/4	124,967	1/4	139,998
1/2	5,017	1/2	20,055	1/2	35,091	1/2	50,097	1/2	65,133	1/2	80,172	1/2	95,211	1/2	110,249	1/2	125,280	1/2	140,312
3/4	5,330	3/4	20,368	3/4	35,404	3/4	50,410	3/4	65,447	3/4	80,485	3/4	95,524	3/4	110,562	3/4	125,594	3/4	140,625
4	5,643	4	20,681	4	35,718	4	50,723	4	65,760	4	80,799	4	95,837	4	110,876	4	125,907	4	140,938
1/4	5,956	1/4	20,995	1/4	36,031	1/4	51,036	1/4	66,073	1/4	81,112	1/4	96,151	1/4	111,189	1/4	126,220	1/4	141,251
1/2	6,269	1/2	21,308	1/2	36,344	1/2	51,348	1/2	66,386	1/2	81,425	1/2	96,464	1/2	111,502	1/2	126,533	1/2	141,564
3/4	6,583	3/4	21,621	3/4	36,658	3/4	51,661	3/4	66,700	3/4	81,738	3/4	96,777	3/4	111,815	3/4	126,846	3/4	141,877
5	6,896	5	21,935	5	36,971	5	51,974	5	67,013	5	82,052	5	97,090	5	112,128	5	127,159	5	142,190
1/4	7,209	1/4	22,248	1/4	37,284	1/4	52,288	1/4	67,326	1/4	82,365	1/4	97,404	1/4	112,441	1/4	127,472	1/4	142,504
1/2	7,523	1/2	22,561	1/2	37,598	1/2	52,601	1/2	67,640	1/2	82,678	1/2	97,717	1/2	112,754	1/2	127,786	1/2	142,817
3/4	7,836	3/4	22,875	3/4	37,911	3/4	52,914	3/4	67,953	3/4	82,992	3/4	98,030	3/4	113,068	3/4	128,099	3/4	143,130
6	8,149	6	23,188	6	38,224	6	53,228	6	68,266	6	83,305	6	98,344	6	113,381	6	128,412	6	143,443
1/4	8,463	1/4	23,501	1/4	38,537	1/4	53,541	1/4	68,580	1/4	83,618	1/4	98,657	1/4	113,694	1/4	128,725	1/4	143,756
1/2	8,776	1/2	23,815	1/2	38,850	1/2	53,854	1/2	68,893	1/2	83,932	1/2	98,970	1/2	114,007	1/2	129,038	1/2	144,069
3/4	9,089	3/4	24,128	3/4	39,163	3/4	54,168	3/4	69,206	3/4	84,245	3/4	99,284	3/4	114,320	3/4	129,351	3/4	144,383
7	9,402	7	24,441	7	39,476	7	54,481	7	69,520	7	84,558	7	99,597	7	114,633	7	129,665	7	144,696
1/4	9,716	1/4	24,754	1/4	39,788	1/4	54,794	1/4	69,833	1/4	84,872	1/4	99,910	1/4	114,947	1/4	129,978	1/4	145,009
1/2	10,029	1/2	25,068	1/2	40,100	1/2	55,107	1/2	70,146	1/2	85,185	1/2	100,223	1/2	115,260	1/2	130,291	1/2	145,322
3/4	10,342	3/4	25,381	3/4	40,413	3/4	55,421	3/4	70,459	3/4	85,498	3/4	100,537	3/4	115,573	3/4	130,604	3/4	145,635
8	10,656	8	25,694	8	40,725	8	55,734	8	70,773	8	85,811	8	100,850	8	115,886	8	130,917	8	145,948
1/4	10,969	1/4	26,008	1/4	41,038	1/4	56,047	1/4	71,086	1/4	86,125	1/4	101,163	1/4	116,199	1/4	131,230	1/4	146,261
1/2	11,282	1/2	26,321	1/2	41,350	1/2	56,361	1/2	71,399	1/2	86,438	1/2	101,477	1/2	116,512	1/2	131,543	1/2	146,575
3/4	11,596	3/4	26,634	3/4	41,662	3/4	56,674	3/4	71,713	3/4	86,751	3/4	101,790	3/4	116,825	3/4	131,857	3/4	146,888
9	11,909	9	26,947	9	41,975	9	56,987	9	72,026	9	87,065	9	102,103	9	117,139	9	132,170	9	147,201
1/4	12,222	1/4	27,260	1/4	42,287	1/4	57,301	1/4	72,339	1/4	87,378	1/4	102,417	1/4	117,452	1/4	132,483	1/4	147,514
1/2	12,536	1/2	27,573	1/2	42,599	1/2	57,614	1/2	72,653	1/2	87,691	1/2	102,730	1/2	117,765	1/2	132,796	1/2	147,827
3/4	12,849	3/4	27,887	3/4	42,912	3/4	57,927	3/4	72,966	3/4	88,005	3/4	103,043	3/4	118,078	3/4	133,109	3/4	148,140
10	13,162	10	28,200	10	43,224	10	58,241	10	73,279	10	88,318	10	103,357	10	118,391	10	133,422	10	148,453
1/4	13,475	1/4	28,513	1/4	43,537	1/4	58,554	1/4	73,592	1/4	88,631	1/4	103,670	1/4	118,704	1/4	133,735	1/4	148,767
1/2	13,789	1/2	28,826	1/2	43,849	1/2	58,867	1/2	73,906	1/2	88,944	1/2	103,983	1/2	119,017	1/2	134,049	1/2	149,080
3/4	14,102	3/4	29,139	3/4	44,161	3/4	59,180	3/4	74,219	3/4	89,258	3/4	104,296	3/4	119,331	3/4	134,362	3/4	149,393
11	14,415	11	29,452	11	44,474	11	59,494	11	74,532	11	89,571	11	104,610	11	119,644	11	134,675	11	149,706
1/4	14,729	1/4	29,765	1/4	44,786	1/4	59,807	1/4	74,846	1/4	89,884	1/4	104,923	1/4	119,957	1/4	134,988	1/4	150,019
1/2	15,042	1/2	30,078	1/2	45,098	1/2	60,120	1/2	75,159	1/2	90,198	1/2	105,236	1/2	120,270	1/2	135,301	1/2	150,332
3/4	15,355	3/4	30,392	3/4	45,411	3/4	60,434	3/4	75,472	3/4	90,511	3/4	105,550	3/4	120,583	3/4	135,614	3/4	150,645

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 10'-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 425"

**2 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 15'-11"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,959	0	165,990	0	181,010	0	195,990	0	210,874	0		0		0		0		0	
1/4	151,272	1/4	166,303	1/4	181,322	1/4	196,303	1/4	211,153	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,585	1/2	166,616	1/2	181,634	1/2	196,615	1/2	211,432	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,898	3/4	166,929	3/4	181,947	3/4	196,927	3/4	211,712	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	152,211	1	167,242	1	182,259	1	197,239	1	211,991	1	1	1	1	1	1	1	1	1	1
1/4	152,524	1/4	167,556	1/4	182,571	1/4	197,551	1/4	212,222	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,838	1/2	167,869	1/2	182,883	1/2	197,863	1/2	212,453	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,151	3/4	168,182	3/4	183,195	3/4	198,175	3/4	212,683	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	153,464	2	168,495	2	183,507	2	198,487	2	212,914	2	2	2	2	2	2	2	2	2	2
1/4	153,777	1/4	168,808	1/4	183,819	1/4	198,799	1/4	213,093	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,090	1/2	169,121	1/2	184,131	1/2	199,111	1/2	213,272	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,403	3/4	169,434	3/4	184,443	3/4	199,423	3/4	213,450	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	154,716	3	169,748	3	184,755	3	199,735	3	213,629	3	3	3	3	3	3	3	3	3	3
1/4	155,030	1/4	170,061	1/4	185,067	1/4	200,048	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,343	1/2	170,374	1/2	185,379	1/2	200,360	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,656	3/4	170,687	3/4	185,692	3/4	200,672	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	155,969	4	171,000	4	186,004	4	200,984	4	4	4	4	4	4	4	4	4	4	4	4
1/4	156,282	1/4	171,313	1/4	186,316	1/4	201,296	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	156,595	1/2	171,626	1/2	186,628	1/2	201,608	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	156,908	3/4	171,940	3/4	186,940	3/4	201,920	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	157,222	5	172,253	5	187,252	5	202,232	5	5	5	5	5	5	5	5	5	5	5	5
1/4	157,535	1/4	172,566	1/4	187,564	1/4	202,543	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	157,848	1/2	172,879	1/2	187,876	1/2	202,853	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	158,161	3/4	173,192	3/4	188,188	3/4	203,164	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	158,474	6	173,505	6	188,500	6	203,474	6	6	6	6	6	6	6	6	6	6	6	6
1/4	158,787	1/4	173,818	1/4	188,812	1/4	203,783	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	159,100	1/2	174,132	1/2	189,125	1/2	204,092	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	159,414	3/4	174,445	3/4	189,437	3/4	204,401	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	159,727	7	174,758	7	189,749	7	204,710	7	7	7	7	7	7	7	7	7	7	7	7
1/4	160,040	1/4	175,071	1/4	190,061	1/4	205,019	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	160,353	1/2	175,384	1/2	190,373	1/2	205,328	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	160,666	3/4	175,697	3/4	190,685	3/4	205,638	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	160,979	8	176,011	8	190,997	8	205,947	8	8	8	8	8	8	8	8	8	8	8	8
1/4	161,293	1/4	176,324	1/4	191,309	1/4	206,256	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	161,606	1/2	176,637	1/2	191,621	1/2	206,565	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	161,919	3/4	176,950	3/4	191,933	3/4	206,874	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	162,232	9	177,263	9	192,245	9	207,183	9	9	9	9	9	9	9	9	9	9	9	9
1/4	162,545	1/4	177,576	1/4	192,557	1/4	207,492	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	162,858	1/2	177,888	1/2	192,870	1/2	207,801	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	163,171	3/4	178,201	3/4	193,182	3/4	208,110	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	163,485	10	178,514	10	193,494	10	208,419	10	10	10	10	10	10	10	10	10	10	10	10
1/4	163,798	1/4	178,826	1/4	193,806	1/4	208,728	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	164,111	1/2	179,138	1/2	194,118	1/2	209,037	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	164,424	3/4	179,450	3/4	194,430	3/4	209,345	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	164,737	11	179,762	11	194,742	11	209,654	11	11	11	11	11	11	11	11	11	11	11	11
1/4	165,050	1/4	180,074	1/4	195,054	1/4	209,959	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	165,363	1/2	180,386	1/2	195,366	1/2	210,264	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	165,677	3/4	180,698	3/4	195,678	3/4	210,569	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: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

# 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,028	0	15,629	0	30,614	0	45,371	0	59,924	0	74,831	0	89,793	0	104,768	0	119,732	0	134,693
1/4	1,262	1/4	15,942	1/4	30,927	1/4	45,673	1/4	60,236	1/4	75,141	1/4	90,105	1/4	105,080	1/4	120,044	1/4	135,005
1/2	1,497	1/2	16,254	1/2	31,239	1/2	45,974	1/2	60,548	1/2	75,451	1/2	90,417	1/2	105,392	1/2	120,355	1/2	135,316
3/4	1,731	3/4	16,566	3/4	31,551	3/4	46,276	3/4	60,860	3/4	75,761	3/4	90,729	3/4	105,704	3/4	120,667	3/4	135,628
1	1,966	1	16,878	1	31,863	1	46,577	1	61,172	1	76,072	1	91,041	1	106,016	1	120,979	1	135,940
1/4	2,258	1/4	17,191	1/4	32,176	1/4	46,879	1/4	61,484	1/4	76,382	1/4	91,352	1/4	106,328	1/4	121,291	1/4	136,252
1/2	2,551	1/2	17,503	1/2	32,488	1/2	47,181	1/2	61,796	1/2	76,692	1/2	91,664	1/2	106,640	1/2	121,602	1/2	136,563
3/4	2,843	3/4	17,815	3/4	32,800	3/4	47,483	3/4	62,107	3/4	77,002	3/4	91,976	3/4	106,952	3/4	121,914	3/4	136,875
2	3,135	2	18,127	2	33,112	2	47,785	2	62,419	2	77,312	2	92,288	2	107,264	2	122,226	2	137,187
1/4	3,447	1/4	18,439	1/4	33,424	1/4	48,088	1/4	62,730	1/4	77,624	1/4	92,600	1/4	107,576	1/4	122,537	1/4	137,498
1/2	3,759	1/2	18,752	1/2	33,737	1/2	48,390	1/2	63,041	1/2	77,935	1/2	92,912	1/2	107,888	1/2	122,849	1/2	137,810
3/4	4,071	3/4	19,064	3/4	34,049	3/4	48,692	3/4	63,352	3/4	78,246	3/4	93,224	3/4	108,199	3/4	123,161	3/4	138,122
3	4,382	3	19,376	3	34,361	3	48,995	3	63,663	3	78,557	3	93,535	3	108,511	3	123,472	3	138,433
1/4	4,695	1/4	19,688	1/4	34,673	1/4	49,297	1/4	63,974	1/4	78,869	1/4	93,847	1/4	108,823	1/4	123,784	1/4	138,745
1/2	5,007	1/2	20,001	1/2	34,985	1/2	49,599	1/2	64,284	1/2	79,181	1/2	94,159	1/2	109,135	1/2	124,096	1/2	139,057
3/4	5,320	3/4	20,313	3/4	35,296	3/4	49,902	3/4	64,594	3/4	79,494	3/4	94,471	3/4	109,446	3/4	124,407	3/4	139,368
4	5,632	4	20,625	4	35,608	4	50,204	4	64,904	4	79,806	4	94,783	4	109,758	4	124,719	4	139,680
1/4	5,944	1/4	20,937	1/4	35,916	1/4	50,507	1/4	65,214	1/4	80,118	1/4	95,095	1/4	110,070	1/4	125,031	1/4	139,992
1/2	6,257	1/2	21,250	1/2	36,224	1/2	50,809	1/2	65,525	1/2	80,430	1/2	95,407	1/2	110,381	1/2	125,342	1/2	140,303
3/4	6,569	3/4	21,562	3/4	36,532	3/4	51,111	3/4	65,835	3/4	80,742	3/4	95,718	3/4	110,693	3/4	125,654	3/4	140,615
5	6,882	5	21,874	5	36,840	5	51,414	5	66,145	5	81,054	5	96,030	5	111,005	5	125,966	5	140,927
1/4	7,194	1/4	22,186	1/4	37,145	1/4	51,716	1/4	66,455	1/4	81,367	1/4	96,342	1/4	111,317	1/4	126,278	1/4	141,238
1/2	7,506	1/2	22,498	1/2	37,450	1/2	52,018	1/2	66,765	1/2	81,679	1/2	96,654	1/2	111,628	1/2	126,589	1/2	141,549
3/4	7,819	3/4	22,811	3/4	37,755	3/4	52,321	3/4	67,076	3/4	81,991	3/4	96,966	3/4	111,940	3/4	126,901	3/4	141,861
6	8,131	6	23,123	6	38,060	6	52,623	6	67,386	6	82,303	6	97,278	6	112,252	6	127,213	6	142,172
1/4	8,444	1/4	23,435	1/4	38,365	1/4	52,925	1/4	67,696	1/4	82,615	1/4	97,590	1/4	112,563	1/4	127,524	1/4	142,479
1/2	8,757	1/2	23,747	1/2	38,670	1/2	53,228	1/2	68,006	1/2	82,927	1/2	97,902	1/2	112,875	1/2	127,836	1/2	142,786
3/4	9,069	3/4	24,060	3/4	38,975	3/4	53,530	3/4	68,316	3/4	83,240	3/4	98,214	3/4	113,187	3/4	128,148	3/4	143,093
7	9,382	7	24,372	7	39,279	7	53,833	7	68,627	7	83,552	7	98,526	7	113,498	7	128,459	7	143,400
1/4	9,695	1/4	24,684	1/4	39,584	1/4	54,135	1/4	68,937	1/4	83,864	1/4	98,838	1/4	113,810	1/4	128,771	1/4	143,695
1/2	10,007	1/2	24,996	1/2	39,889	1/2	54,437	1/2	69,247	1/2	84,176	1/2	99,150	1/2	114,122	1/2	129,083	1/2	143,989
3/4	10,320	3/4	25,309	3/4	40,194	3/4	54,740	3/4	69,557	3/4	84,488	3/4	99,462	3/4	114,433	3/4	129,394	3/4	144,284
8	10,633	8	25,621	8	40,499	8	55,042	8	69,867	8	84,800	8	99,774	8	114,745	8	129,706	8	144,578
1/4	10,945	1/4	25,933	1/4	40,804	1/4	55,344	1/4	70,178	1/4	85,113	1/4	100,086	1/4	115,057	1/4	130,018	1/4	144,857
1/2	11,258	1/2	26,245	1/2	41,109	1/2	55,647	1/2	70,488	1/2	85,425	1/2	100,398	1/2	115,368	1/2	130,329	1/2	145,135
3/4	11,570	3/4	26,557	3/4	41,414	3/4	55,949	3/4	70,798	3/4	85,737	3/4	100,710	3/4	115,680	3/4	130,641	3/4	145,414
9	11,883	9	26,869	9	41,719	9	56,252	9	71,108	9	86,049	9	101,022	9	115,992	9	130,953	9	145,692
1/4	12,195	1/4	27,181	1/4	42,024	1/4	56,555	1/4	71,419	1/4	86,361	1/4	101,335	1/4	116,304	1/4	131,265	1/4	145,955
1/2	12,507	1/2	27,494	1/2	42,329	1/2	56,859	1/2	71,729	1/2	86,673	1/2	101,647	1/2	116,615	1/2	131,576	1/2	146,218
3/4	12,819	3/4	27,806	3/4	42,633	3/4	57,163	3/4	72,039	3/4	86,986	3/4	101,959	3/4	116,927	3/4	131,888	3/4	146,481
10	13,132	10	28,118	10	42,938	10	57,467	10	72,349	10	87,298	10	102,271	10	117,239	10	132,200	10	146,744
1/4	13,444	1/4	28,430	1/4	43,243	1/4	57,773	1/4	72,659	1/4	87,610	1/4	102,583	1/4	117,550	1/4	132,511	1/4	146,991
1/2	13,756	1/2	28,742	1/2	43,548	1/2	58,078	1/2	72,970	1/2	87,922	1/2	102,895	1/2	117,862	1/2	132,823	1/2	147,238
3/4	14,068	3/4	29,054	3/4	43,853	3/4	58,384	3/4	73,280	3/4	88,234	3/4	103,207	3/4	118,174	3/4	133,135	3/4	147,485
11	14,380	11	29,366	11	44,158	11	58,690	11	73,590	11	88,546	11	103,519	11	118,485	11	133,446	11	147,732
1/4	14,693	1/4	29,678	1/4	44,461	1/4	58,998	1/4	73,900	1/4	88,858	1/4	103,831	1/4	118,797	1/4	133,758	1/4	147,963
1/2	15,005	1/2	29,990	1/2	44,764	1/2	59,307	1/2	74,210	1/2	89,170	1/2	104,143	1/2	119,109	1/2	134,070	1/2	148,194
3/4	15,317	3/4	30,302	3/4	45,068	3/4	59,616	3/4	74,521	3/4	89,481	3/4	104,456	3/4	119,420	3/4	134,381	3/4	148,425

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 10'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 425"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,656	0	159,036	0	169,394	0	179,722	0	190,037	0		0		0		0		0	
1/4	148,876	1/4	159,252	1/4	169,609	1/4	179,938	1/4	190,230	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,095	1/2	159,468	1/2	169,824	1/2	180,153	1/2	190,423	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	149,315	3/4	159,684	3/4	170,039	3/4	180,368	3/4	190,616	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	149,534	1	159,900	1	170,254	1	180,583	1	190,809	1	1	1	1	1	1	1	1	1	1
1/4	149,750	1/4	160,116	1/4	170,469	1/4	180,798	1/4	190,968	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	149,966	1/2	160,332	1/2	170,685	1/2	181,013	1/2	191,128	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,182	3/4	160,547	3/4	170,900	3/4	181,229	3/4	191,288	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	150,398	2	160,763	2	171,115	2	181,444	2	191,447	2	2	2	2	2	2	2	2	2	2
1/4	150,614	1/4	160,979	1/4	171,330	1/4	181,659	1/4	191,571	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,830	1/2	161,195	1/2	171,545	1/2	181,874	1/2	191,694	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,046	3/4	161,411	3/4	171,761	3/4	182,089	3/4	191,818	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	151,262	3	161,627	3	171,976	3	182,305	3	191,942	3	3	3	3	3	3	3	3	3	3
1/4	151,478	1/4	161,843	1/4	172,191	1/4	182,520	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,694	1/2	162,059	1/2	172,406	1/2	182,735	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,910	3/4	162,275	3/4	172,621	3/4	182,950	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	152,126	4	162,491	4	172,836	4	183,165	4		4	4	4	4	4	4	4	4	4	4
1/4	152,342	1/4	162,707	1/4	173,052	1/4	183,381	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,558	1/2	162,923	1/2	173,267	1/2	183,596	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,773	3/4	163,139	3/4	173,482	3/4	183,811	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	152,989	5	163,355	5	173,697	5	184,026	5		5	5	5	5	5	5	5	5	5	5
1/4	153,205	1/4	163,571	1/4	173,912	1/4	184,241	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	153,421	1/2	163,787	1/2	174,128	1/2	184,456	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,637	3/4	164,003	3/4	174,343	3/4	184,672	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	153,853	6	164,219	6	174,558	6	184,887	6		6	6	6	6	6	6	6	6	6	6
1/4	154,069	1/4	164,434	1/4	174,773	1/4	185,102	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	154,285	1/2	164,650	1/2	174,988	1/2	185,317	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	154,501	3/4	164,866	3/4	175,204	3/4	185,532	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	154,717	7	165,082	7	175,419	7	185,748	7		7	7	7	7	7	7	7	7	7	7
1/4	154,933	1/4	165,298	1/4	175,634	1/4	185,963	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	155,149	1/2	165,514	1/2	175,849	1/2	186,178	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	155,365	3/4	165,730	3/4	176,064	3/4	186,393	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	155,581	8	165,946	8	176,279	8	186,608	8		8	8	8	8	8	8	8	8	8	8
1/4	155,797	1/4	166,162	1/4	176,495	1/4	186,824	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,013	1/2	166,378	1/2	176,710	1/2	187,039	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	156,229	3/4	166,594	3/4	176,925	3/4	187,254	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	156,445	9	166,810	9	177,140	9	187,470	9		9	9	9	9	9	9	9	9	9	9
1/4	156,660	1/4	167,025	1/4	177,355	1/4	187,685	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	156,876	1/2	167,241	1/2	177,571	1/2	187,900	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,092	3/4	167,457	3/4	177,786	3/4	188,115	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	157,308	10	167,672	10	178,001	10	188,331	10		10	10	10	10	10	10	10	10	10	10
1/4	157,524	1/4	167,887	1/4	178,216	1/4	188,546	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	157,740	1/2	168,102	1/2	178,431	1/2	188,761	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	157,956	3/4	168,318	3/4	178,646	3/4	188,975	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	158,172	11	168,533	11	178,862	11	189,190	11		11	11	11	11	11	11	11	11	11	11
1/4	158,388	1/4	168,748	1/4	179,077	1/4	189,402	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	158,604	1/2	168,963	1/2	179,292	1/2	189,614	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	158,820	3/4	169,178	3/4	179,507	3/4	189,825	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: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

## 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	1,028	0	15,648	0	30,668	0	45,671	0	60,689	0	75,709	0	90,729	0	105,749	0	120,752	0	135,752
1/4	1,263	1/4	15,961	1/4	30,981	1/4	45,984	1/4	61,002	1/4	76,022	1/4	91,042	1/4	106,062	1/4	121,064	1/4	136,064
1/2	1,498	1/2	16,274	1/2	31,294	1/2	46,296	1/2	61,315	1/2	76,335	1/2	91,355	1/2	106,374	1/2	121,377	1/2	136,377
3/4	1,732	3/4	16,587	3/4	31,606	3/4	46,609	3/4	61,628	3/4	76,648	3/4	91,668	3/4	106,687	3/4	121,689	3/4	136,689
1	1,967	1	16,900	1	31,919	1	46,922	1	61,941	1	76,961	1	91,980	1	107,000	1	122,002	1	137,002
1/4	2,260	1/4	17,213	1/4	32,232	1/4	47,234	1/4	62,254	1/4	77,274	1/4	92,293	1/4	107,313	1/4	122,314	1/4	137,314
1/2	2,552	1/2	17,526	1/2	32,545	1/2	47,547	1/2	62,567	1/2	77,586	1/2	92,606	1/2	107,626	1/2	122,627	1/2	137,627
3/4	2,845	3/4	17,839	3/4	32,858	3/4	47,860	3/4	62,880	3/4	77,899	3/4	92,919	3/4	107,939	3/4	122,939	3/4	137,939
2	3,137	2	18,152	2	33,171	2	48,173	2	63,193	2	78,212	2	93,232	2	108,251	2	123,252	2	138,251
1/4	3,449	1/4	18,465	1/4	33,484	1/4	48,486	1/4	63,505	1/4	78,525	1/4	93,545	1/4	108,564	1/4	123,564	1/4	138,564
1/2	3,761	1/2	18,777	1/2	33,797	1/2	48,799	1/2	63,818	1/2	78,838	1/2	93,858	1/2	108,877	1/2	123,877	1/2	138,876
3/4	4,073	3/4	19,090	3/4	34,110	3/4	49,111	3/4	64,131	3/4	79,151	3/4	94,171	3/4	109,189	3/4	124,189	3/4	139,189
3	4,385	3	19,403	3	34,423	3	49,424	3	64,444	3	79,464	3	94,484	3	109,502	3	124,502	3	139,501
1/4	4,698	1/4	19,716	1/4	34,735	1/4	49,737	1/4	64,757	1/4	79,777	1/4	94,797	1/4	109,814	1/4	124,814	1/4	139,814
1/2	5,010	1/2	20,029	1/2	35,048	1/2	50,050	1/2	65,070	1/2	80,090	1/2	95,110	1/2	110,127	1/2	125,127	1/2	140,126
3/4	5,323	3/4	20,342	3/4	35,361	3/4	50,363	3/4	65,383	3/4	80,403	3/4	95,422	3/4	110,439	3/4	125,439	3/4	140,439
4	5,636	4	20,655	4	35,673	4	50,676	4	65,696	4	80,716	4	95,735	4	110,752	4	125,752	4	140,751
1/4	5,949	1/4	20,968	1/4	35,986	1/4	50,989	1/4	66,009	1/4	81,029	1/4	96,048	1/4	111,064	1/4	126,064	1/4	141,064
1/2	6,261	1/2	21,281	1/2	36,298	1/2	51,302	1/2	66,322	1/2	81,341	1/2	96,361	1/2	111,377	1/2	126,377	1/2	141,376
3/4	6,574	3/4	21,594	3/4	36,611	3/4	51,615	3/4	66,635	3/4	81,654	3/4	96,674	3/4	111,689	3/4	126,689	3/4	141,689
5	6,887	5	21,906	5	36,923	5	51,928	5	66,947	5	81,967	5	96,987	5	112,002	5	127,002	5	142,001
1/4	7,200	1/4	22,219	1/4	37,235	1/4	52,241	1/4	67,260	1/4	82,280	1/4	97,300	1/4	112,314	1/4	127,314	1/4	142,313
1/2	7,513	1/2	22,532	1/2	37,548	1/2	52,554	1/2	67,573	1/2	82,593	1/2	97,613	1/2	112,627	1/2	127,627	1/2	142,626
3/4	7,826	3/4	22,845	3/4	37,860	3/4	52,866	3/4	67,886	3/4	82,906	3/4	97,926	3/4	112,939	3/4	127,939	3/4	142,938
6	8,139	6	23,158	6	38,173	6	53,179	6	68,199	6	83,219	6	98,239	6	113,252	6	128,252	6	143,250
1/4	8,452	1/4	23,471	1/4	38,485	1/4	53,492	1/4	68,512	1/4	83,532	1/4	98,552	1/4	113,564	1/4	128,564	1/4	143,558
1/2	8,765	1/2	23,784	1/2	38,797	1/2	53,805	1/2	68,825	1/2	83,845	1/2	98,865	1/2	113,877	1/2	128,877	1/2	143,865
3/4	9,077	3/4	24,097	3/4	39,110	3/4	54,118	3/4	69,138	3/4	84,158	3/4	99,177	3/4	114,189	3/4	129,189	3/4	144,173
7	9,390	7	24,410	7	39,422	7	54,431	7	69,451	7	84,471	7	99,490	7	114,502	7	129,502	7	144,481
1/4	9,703	1/4	24,723	1/4	39,735	1/4	54,744	1/4	69,764	1/4	84,783	1/4	99,803	1/4	114,814	1/4	129,814	1/4	144,776
1/2	10,016	1/2	25,036	1/2	40,047	1/2	55,057	1/2	70,077	1/2	85,096	1/2	100,116	1/2	115,127	1/2	130,127	1/2	145,072
3/4	10,329	3/4	25,348	3/4	40,359	3/4	55,370	3/4	70,390	3/4	85,409	3/4	100,429	3/4	115,439	3/4	130,439	3/4	145,367
8	10,642	8	25,661	8	40,672	8	55,683	8	70,702	8	85,722	8	100,742	8	115,752	8	130,752	8	145,663
1/4	10,955	1/4	25,974	1/4	40,984	1/4	55,996	1/4	71,015	1/4	86,035	1/4	101,055	1/4	116,064	1/4	131,064	1/4	145,942
1/2	11,268	1/2	26,287	1/2	41,297	1/2	56,308	1/2	71,328	1/2	86,348	1/2	101,368	1/2	116,377	1/2	131,377	1/2	146,221
3/4	11,581	3/4	26,600	3/4	41,609	3/4	56,621	3/4	71,641	3/4	86,661	3/4	101,681	3/4	116,689	3/4	131,689	3/4	146,500
9	11,894	9	26,913	9	41,922	9	56,934	9	71,954	9	86,974	9	101,994	9	117,002	9	132,002	9	146,780
1/4	12,207	1/4	27,226	1/4	42,234	1/4	57,247	1/4	72,267	1/4	87,287	1/4	102,307	1/4	117,314	1/4	132,314	1/4	147,043
1/2	12,519	1/2	27,539	1/2	42,546	1/2	57,560	1/2	72,580	1/2	87,600	1/2	102,619	1/2	117,627	1/2	132,627	1/2	147,306
3/4	12,832	3/4	27,852	3/4	42,859	3/4	57,873	3/4	72,893	3/4	87,913	3/4	102,932	3/4	117,939	3/4	132,939	3/4	147,570
10	13,145	10	28,165	10	43,171	10	58,186	10	73,206	10	88,226	10	103,245	10	118,252	10	133,252	10	147,833
1/4	13,458	1/4	28,477	1/4	43,484	1/4	58,499	1/4	73,519	1/4	88,538	1/4	103,558	1/4	118,564	1/4	133,564	1/4	148,080
1/2	13,771	1/2	28,790	1/2	43,796	1/2	58,812	1/2	73,832	1/2	88,851	1/2	103,871	1/2	118,877	1/2	133,877	1/2	148,328
3/4	14,084	3/4	29,103	3/4	44,108	3/4	59,125	3/4	74,144	3/4	89,164	3/4	104,184	3/4	119,189	3/4	134,189	3/4	148,575
11	14,397	11	29,416	11	44,421	11	59,438	11	74,457	11	89,477	11	104,497	11	119,502	11	134,502	11	148,822
1/4	14,710	1/4	29,729	1/4	44,733	1/4	59,750	1/4	74,770	1/4	89,790	1/4	104,810	1/4	119,814	1/4	134,814	1/4	149,053
1/2	15,023	1/2	30,042	1/2	45,046	1/2	60,063	1/2	75,083	1/2	90,103	1/2	105,123	1/2	120,127	1/2	135,127	1/2	149,285
3/4	15,336	3/4	30,355	3/4	45,359	3/4	60,376	3/4	75,396	3/4	90,416	3/4	105,436	3/4	120,439	3/4	135,439	3/4	149,516

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 10'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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





# BARGE "HFL 425"

## 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	149,747	0	160,131	0	170,493	0	180,825	0	191,144	0		0		0		0		0	
1/4	149,967	1/4	160,347	1/4	170,708	1/4	181,041	1/4	191,337	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	150,186	1/2	160,563	1/2	170,923	1/2	181,256	1/2	191,530	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	150,406	3/4	160,779	3/4	171,138	3/4	181,471	3/4	191,723	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	150,625	1	160,995	1	171,354	1	181,686	1	191,916	1	1	1	1	1	1	1	1	1	1
1/4	150,841	1/4	161,211	1/4	171,569	1/4	181,902	1/4	192,076	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,057	1/2	161,427	1/2	171,784	1/2	182,117	1/2	192,235	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	151,274	3/4	161,643	3/4	171,999	3/4	182,332	3/4	192,395	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	151,490	2	161,859	2	172,215	2	182,548	2	192,555	2	2	2	2	2	2	2	2	2	2
1/4	151,706	1/4	162,075	1/4	172,430	1/4	182,763	1/4	192,679	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	151,922	1/2	162,291	1/2	172,645	1/2	182,978	1/2	192,802	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	152,138	3/4	162,507	3/4	172,860	3/4	183,193	3/4	192,926	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	152,354	3	162,723	3	173,076	3	183,409	3	193,049	3	3	3	3	3	3	3	3	3	3
1/4	152,570	1/4	162,939	1/4	173,291	1/4	183,624	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	152,786	1/2	163,155	1/2	173,506	1/2	183,839	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	153,002	3/4	163,371	3/4	173,722	3/4	184,054	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	153,218	4	163,587	4	173,937	4	184,270	4	4	4	4	4	4	4	4	4	4	4	4
1/4	153,434	1/4	163,803	1/4	174,152	1/4	184,485	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	153,650	1/2	164,019	1/2	174,367	1/2	184,700	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	153,866	3/4	164,235	3/4	174,583	3/4	184,916	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	154,082	5	164,451	5	174,798	5	185,131	5	5	5	5	5	5	5	5	5	5	5	5
1/4	154,298	1/4	164,667	1/4	175,013	1/4	185,346	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	154,514	1/2	164,883	1/2	175,228	1/2	185,561	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	154,730	3/4	165,099	3/4	175,444	3/4	185,777	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	154,946	6	165,315	6	175,659	6	185,992	6	6	6	6	6	6	6	6	6	6	6	6
1/4	155,162	1/4	165,531	1/4	175,874	1/4	186,207	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	155,378	1/2	165,747	1/2	176,089	1/2	186,422	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	155,594	3/4	165,964	3/4	176,305	3/4	186,638	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	155,810	7	166,180	7	176,520	7	186,853	7	7	7	7	7	7	7	7	7	7	7	7
1/4	156,026	1/4	166,396	1/4	176,735	1/4	187,068	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	156,242	1/2	166,612	1/2	176,951	1/2	187,284	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	156,458	3/4	166,828	3/4	177,166	3/4	187,499	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	156,674	8	167,044	8	177,381	8	187,714	8	8	8	8	8	8	8	8	8	8	8	8
1/4	156,890	1/4	167,260	1/4	177,596	1/4	187,930	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	157,106	1/2	167,476	1/2	177,812	1/2	188,145	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	157,322	3/4	167,692	3/4	178,027	3/4	188,360	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	157,538	9	167,908	9	178,242	9	188,576	9	9	9	9	9	9	9	9	9	9	9	9
1/4	157,754	1/4	168,123	1/4	178,457	1/4	188,791	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	157,970	1/2	168,339	1/2	178,673	1/2	189,006	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	158,186	3/4	168,555	3/4	178,888	3/4	189,222	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	158,402	10	168,770	10	179,103	10	189,437	10	10	10	10	10	10	10	10	10	10	10	10
1/4	158,619	1/4	168,986	1/4	179,319	1/4	189,652	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	158,835	1/2	169,201	1/2	179,534	1/2	189,867	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	159,051	3/4	169,416	3/4	179,749	3/4	190,082	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	159,267	11	169,631	11	179,964	11	190,297	11	11	11	11	11	11	11	11	11	11	11	11
1/4	159,483	1/4	169,847	1/4	180,180	1/4	190,509	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	159,699	1/2	170,062	1/2	180,395	1/2	190,720	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	159,915	3/4	170,277	3/4	180,610	3/4	190,932	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: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

## 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	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.

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.

STRAPPED: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 425"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,249	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.

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.

STRAPPED: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HFL 425"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1		1		1		1		1		1	
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2		2		2		2		2		2	
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3		3		3		3		3		3	
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4		4		4		4		4		4	
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5		5		5		5		5		5	
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6		6		6		6		6		6	
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7		7		7		7		7		7	
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8		8		8		8		8		8	
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9		9		9		9		9		9	
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10		10		10		10		10		10	
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11		11		11		11		11		11	
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE.

STRAPPED: 08/12/2013 CL - SW  
CALCULATED: 08/12/2013 CL  
PRINTED: 08/12/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
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