



# BARGE "HFL 431"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 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	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4	- 02-1/8	02-1/8
3 STBD	- 00-3/8	00-3/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8	- 01-3/8	01-3/8	- 01-3/4	01-3/4	- 02-1/8	02-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS 01-0/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 4'-01"

LENGTH BETWEEN DRAFT MARKS: 241'-03"

March 5, 2015

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

<http://www.pmacorp.net>



# BARGE "HFL 431"

1 PORT

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	855	0	11,838	0	24,530	0	38,624	0	53,507	0	68,401	0	83,295	0	98,189	0	113,082	0	127,976
1/4	1,023	1/4	12,089	1/4	24,811	1/4	38,933	1/4	53,817	1/4	68,711	1/4	83,605	1/4	98,499	1/4	113,393	1/4	128,286
1/2	1,190	1/2	12,339	1/2	25,092	1/2	39,242	1/2	54,128	1/2	69,022	1/2	83,915	1/2	98,809	1/2	113,703	1/2	128,597
3/4	1,358	3/4	12,589	3/4	25,373	3/4	39,551	3/4	54,438	3/4	69,332	3/4	84,226	3/4	99,119	3/4	114,013	3/4	128,907
1	1,526	1	12,840	1	25,654	1	39,860	1	54,748	1	69,642	1	84,536	1	99,430	1	114,324	1	129,217
1/4	1,745	1/4	13,093	1/4	25,937	1/4	40,169	1/4	55,059	1/4	69,952	1/4	84,846	1/4	99,740	1/4	114,634	1/4	129,528
1/2	1,963	1/2	13,346	1/2	26,221	1/2	40,478	1/2	55,369	1/2	70,263	1/2	85,156	1/2	100,050	1/2	114,944	1/2	129,838
3/4	2,181	3/4	13,599	3/4	26,504	3/4	40,787	3/4	55,679	3/4	70,573	3/4	85,467	3/4	100,361	3/4	115,254	3/4	130,148
2	2,400	2	13,851	2	26,788	2	41,096	2	55,989	2	70,883	2	85,777	2	100,671	2	115,565	2	130,458
1/4	2,622	1/4	14,107	1/4	27,072	1/4	41,406	1/4	56,300	1/4	71,194	1/4	86,087	1/4	100,981	1/4	115,875	1/4	130,769
1/2	2,845	1/2	14,362	1/2	27,357	1/2	41,716	1/2	56,610	1/2	71,504	1/2	86,398	1/2	101,291	1/2	116,185	1/2	131,079
3/4	3,068	3/4	14,618	3/4	27,641	3/4	42,026	3/4	56,920	3/4	71,814	3/4	86,708	3/4	101,602	3/4	116,496	3/4	131,389
3	3,291	3	14,873	3	27,925	3	42,337	3	57,231	3	72,124	3	87,018	3	101,912	3	116,806	3	131,700
1/4	3,517	1/4	15,131	1/4	28,212	1/4	42,647	1/4	57,541	1/4	72,435	1/4	87,328	1/4	102,222	1/4	117,116	1/4	132,010
1/2	3,743	1/2	15,390	1/2	28,499	1/2	42,957	1/2	57,851	1/2	72,745	1/2	87,639	1/2	102,533	1/2	117,426	1/2	132,320
3/4	3,969	3/4	15,648	3/4	28,786	3/4	43,268	3/4	58,161	3/4	73,055	3/4	87,949	3/4	102,843	3/4	117,737	3/4	132,630
4	4,196	4	15,906	4	29,073	4	43,578	4	58,472	4	73,366	4	88,259	4	103,153	4	118,047	4	132,941
1/4	4,425	1/4	16,166	1/4	29,363	1/4	43,888	1/4	58,782	1/4	73,676	1/4	88,570	1/4	103,463	1/4	118,357	1/4	133,251
1/2	4,654	1/2	16,427	1/2	29,652	1/2	44,198	1/2	59,092	1/2	73,986	1/2	88,880	1/2	103,774	1/2	118,668	1/2	133,561
3/4	4,884	3/4	16,687	3/4	29,942	3/4	44,509	3/4	59,403	3/4	74,296	3/4	89,190	3/4	104,084	3/4	118,978	3/4	133,872
5	5,113	5	16,948	5	30,231	5	44,819	5	59,713	5	74,607	5	89,500	5	104,394	5	119,288	5	134,182
1/4	5,346	1/4	17,211	1/4	30,523	1/4	45,129	1/4	60,023	1/4	74,917	1/4	89,811	1/4	104,705	1/4	119,598	1/4	134,492
1/2	5,578	1/2	17,474	1/2	30,815	1/2	45,440	1/2	60,333	1/2	75,227	1/2	90,121	1/2	105,015	1/2	119,909	1/2	134,803
3/4	5,810	3/4	17,737	3/4	31,107	3/4	45,750	3/4	60,644	3/4	75,538	3/4	90,431	3/4	105,325	3/4	120,219	3/4	135,113
6	6,043	6	18,001	6	31,399	6	46,060	6	60,954	6	75,848	6	90,742	6	105,635	6	120,529	6	135,423
1/4	6,278	1/4	18,266	1/4	31,694	1/4	46,371	1/4	61,264	1/4	76,158	1/4	91,052	1/4	105,946	1/4	120,840	1/4	135,733
1/2	6,513	1/2	18,532	1/2	31,988	1/2	46,681	1/2	61,575	1/2	76,468	1/2	91,362	1/2	106,256	1/2	121,150	1/2	136,044
3/4	6,748	3/4	18,798	3/4	32,283	3/4	46,991	3/4	61,885	3/4	76,779	3/4	91,673	3/4	106,566	3/4	121,460	3/4	136,354
7	6,983	7	19,063	7	32,577	7	47,301	7	62,195	7	77,089	7	91,983	7	106,877	7	121,770	7	136,664
1/4	7,221	1/4	19,331	1/4	32,875	1/4	47,612	1/4	62,505	1/4	77,399	1/4	92,293	1/4	107,187	1/4	122,081	1/4	136,975
1/2	7,458	1/2	19,600	1/2	33,172	1/2	47,922	1/2	62,816	1/2	77,710	1/2	92,603	1/2	107,497	1/2	122,391	1/2	137,285
3/4	7,696	3/4	19,868	3/4	33,469	3/4	48,232	3/4	63,126	3/4	78,020	3/4	92,914	3/4	107,807	3/4	122,701	3/4	137,595
8	7,934	8	20,136	8	33,766	8	48,543	8	63,436	8	78,330	8	93,224	8	108,118	8	123,012	8	137,905
1/4	8,174	1/4	20,407	1/4	34,066	1/4	48,853	1/4	63,747	1/4	78,640	1/4	93,534	1/4	108,428	1/4	123,322	1/4	138,216
1/2	8,414	1/2	20,678	1/2	34,365	1/2	49,163	1/2	64,057	1/2	78,951	1/2	93,845	1/2	108,738	1/2	123,632	1/2	138,526
3/4	8,654	3/4	20,949	3/4	34,665	3/4	49,473	3/4	64,367	3/4	79,261	3/4	94,155	3/4	109,049	3/4	123,942	3/4	138,836
9	8,895	9	21,219	9	34,965	9	49,784	9	64,677	9	79,571	9	94,465	9	109,359	9	124,253	9	139,147
1/4	9,137	1/4	21,493	1/4	35,267	1/4	50,094	1/4	64,988	1/4	79,882	1/4	94,775	1/4	109,669	1/4	124,563	1/4	139,457
1/2	9,380	1/2	21,766	1/2	35,569	1/2	50,404	1/2	65,298	1/2	80,192	1/2	95,086	1/2	109,979	1/2	124,873	1/2	139,767
3/4	9,623	3/4	22,039	3/4	35,871	3/4	50,715	3/4	65,608	3/4	80,502	3/4	95,396	3/4	110,290	3/4	125,184	3/4	140,077
10	9,866	10	22,313	10	36,174	10	51,025	10	65,919	10	80,812	10	95,706	10	110,600	10	125,494	10	140,388
1/4	10,111	1/4	22,589	1/4	36,479	1/4	51,335	1/4	66,229	1/4	81,123	1/4	96,017	1/4	110,910	1/4	125,804	1/4	140,698
1/2	10,356	1/2	22,864	1/2	36,784	1/2	51,645	1/2	66,539	1/2	81,433	1/2	96,327	1/2	111,221	1/2	126,114	1/2	141,008
3/4	10,601	3/4	23,140	3/4	37,089	3/4	51,956	3/4	66,849	3/4	81,743	3/4	96,637	3/4	111,531	3/4	126,425	3/4	141,319
11	10,847	11	23,416	11	37,394	11	52,266	11	67,160	11	82,054	11	96,947	11	111,841	11	126,735	11	141,629
1/4	11,095	1/4	23,695	1/4	37,701	1/4	52,576	1/4	67,470	1/4	82,364	1/4	97,258	1/4	112,152	1/4	127,045	1/4	141,939
1/2	11,342	1/2	23,973	1/2	38,009	1/2	52,887	1/2	67,780	1/2	82,674	1/2	97,568	1/2	112,462	1/2	127,356	1/2	142,249
3/4	11,590	3/4	24,251	3/4	38,317	3/4	53,197	3/4	68,091	3/4	82,984	3/4	97,878	3/4	112,772	3/4	127,666	3/4	142,560

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HFL 431"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06 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	142,870	0	157,764	0	172,636	0	187,486	0	202,313	0		0		0		0		0	
1/4	143,180	1/4	158,074	1/4	172,945	1/4	187,795	1/4	202,578	1/4		1/4		1/4		1/4		1/4	
1/2	143,491	1/2	158,384	1/2	173,254	1/2	188,104	1/2	202,843	1/2		1/2		1/2		1/2		1/2	
3/4	143,801	3/4	158,695	3/4	173,564	3/4	188,414	3/4	203,108	3/4		3/4		3/4		3/4		3/4	
1	144,111	1	159,005	1	173,873	1	188,723	1	203,374	1		1		1		1		1	
1/4	144,421	1/4	159,315	1/4	174,183	1/4	189,032	1/4	203,594	1/4		1/4		1/4		1/4		1/4	
1/2	144,732	1/2	159,626	1/2	174,492	1/2	189,342	1/2	203,815	1/2		1/2		1/2		1/2		1/2	
3/4	145,042	3/4	159,936	3/4	174,801	3/4	189,651	3/4	204,036	3/4		3/4		3/4		3/4		3/4	
2	145,352	2	160,246	2	175,111	2	189,961	2	204,256	2		2		2		2		2	
1/4	145,663	1/4	160,556	1/4	175,420	1/4	190,270	1/4	204,433	1/4		1/4		1/4		1/4		1/4	
1/2	145,973	1/2	160,867	1/2	175,729	1/2	190,579	1/2	204,609	1/2		1/2		1/2		1/2		1/2	
3/4	146,283	3/4	161,177	3/4	176,039	3/4	190,889	3/4	204,786	3/4		3/4		3/4		3/4		3/4	
3	146,593	3	161,487	3	176,348	3	191,198	3	204,962	3		3		3		3		3	
1/4	146,904	1/4	161,798	1/4	176,658	1/4	191,507	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,214	1/2	162,108	1/2	176,967	1/2	191,817	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,524	3/4	162,418	3/4	177,276	3/4	192,126	3/4		3/4		3/4		3/4		3/4		3/4	
4	147,835	4	162,728	4	177,586	4	192,436	4		4		4		4		4		4	
1/4	148,145	1/4	163,039	1/4	177,895	1/4	192,745	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,455	1/2	163,349	1/2	178,204	1/2	193,054	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,765	3/4	163,659	3/4	178,514	3/4	193,364	3/4		3/4		3/4		3/4		3/4		3/4	
5	149,076	5	163,970	5	178,823	5	193,673	5		5		5		5		5		5	
1/4	149,386	1/4	164,280	1/4	179,133	1/4	193,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,696	1/2	164,590	1/2	179,442	1/2	194,292	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	150,007	3/4	164,900	3/4	179,751	3/4	194,601	3/4		3/4		3/4		3/4		3/4		3/4	
6	150,317	6	165,211	6	180,061	6	194,911	6		6		6		6		6		6	
1/4	150,627	1/4	165,520	1/4	180,370	1/4	195,220	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,937	1/2	165,829	1/2	180,679	1/2	195,529	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,248	3/4	166,139	3/4	180,989	3/4	195,839	3/4		3/4		3/4		3/4		3/4		3/4	
7	151,558	7	166,448	7	181,298	7	196,148	7		7		7		7		7		7	
1/4	151,868	1/4	166,758	1/4	181,607	1/4	196,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,179	1/2	167,067	1/2	181,917	1/2	196,767	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,489	3/4	167,376	3/4	182,226	3/4	197,076	3/4		3/4		3/4		3/4		3/4		3/4	
8	152,799	8	167,686	8	182,536	8	197,386	8		8		8		8		8		8	
1/4	153,109	1/4	167,995	1/4	182,845	1/4	197,695	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,420	1/2	168,304	1/2	183,154	1/2	198,004	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,730	3/4	168,614	3/4	183,464	3/4	198,314	3/4		3/4		3/4		3/4		3/4		3/4	
9	154,040	9	168,923	9	183,773	9	198,623	9		9		9		9		9		9	
1/4	154,351	1/4	169,233	1/4	184,082	1/4	198,932	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,661	1/2	169,542	1/2	184,392	1/2	199,242	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,971	3/4	169,851	3/4	184,701	3/4	199,551	3/4		3/4		3/4		3/4		3/4		3/4	
10	155,281	10	170,161	10	185,011	10	199,861	10		10		10		10		10		10	
1/4	155,592	1/4	170,470	1/4	185,320	1/4	200,170	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,902	1/2	170,779	1/2	185,629	1/2	200,479	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,212	3/4	171,089	3/4	185,939	3/4	200,789	3/4		3/4		3/4		3/4		3/4		3/4	
11	156,523	11	171,398	11	186,248	11	201,098	11		11		11		11		11		11	
1/4	156,833	1/4	171,708	1/4	186,557	1/4	201,402	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,143	1/2	172,017	1/2	186,867	1/2	201,706	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,454	3/4	172,326	3/4	187,176	3/4	202,010	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/215 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 431"

1 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	855	0	11,841	0	24,537	0	38,690	0	53,587	0	68,485	0	83,382	0	98,280	0	113,177	0	128,075
1/4	1,023	1/4	12,092	1/4	24,818	1/4	39,000	1/4	53,898	1/4	68,795	1/4	83,693	1/4	98,590	1/4	113,488	1/4	128,385
1/2	1,191	1/2	12,342	1/2	25,099	1/2	39,311	1/2	54,208	1/2	69,106	1/2	84,003	1/2	98,901	1/2	113,798	1/2	128,695
3/4	1,359	3/4	12,593	3/4	25,380	3/4	39,621	3/4	54,519	3/4	69,416	3/4	84,313	3/4	99,211	3/4	114,108	3/4	129,006
1	1,527	1	12,843	1	25,661	1	39,931	1	54,829	1	69,726	1	84,624	1	99,521	1	114,419	1	129,316
1/4	1,745	1/4	13,096	1/4	25,944	1/4	40,242	1/4	55,139	1/4	70,037	1/4	84,934	1/4	99,832	1/4	114,729	1/4	129,627
1/2	1,964	1/2	13,349	1/2	26,228	1/2	40,552	1/2	55,450	1/2	70,347	1/2	85,245	1/2	100,142	1/2	115,039	1/2	129,937
3/4	2,182	3/4	13,602	3/4	26,512	3/4	40,863	3/4	55,760	3/4	70,657	3/4	85,555	3/4	100,452	3/4	115,350	3/4	130,247
2	2,400	2	13,855	2	26,795	2	41,173	2	56,070	2	70,968	2	85,865	2	100,763	2	115,660	2	130,558
1/4	2,623	1/4	14,111	1/4	27,081	1/4	41,483	1/4	56,381	1/4	71,278	1/4	86,176	1/4	101,073	1/4	115,971	1/4	130,868
1/2	2,846	1/2	14,367	1/2	27,367	1/2	41,794	1/2	56,691	1/2	71,589	1/2	86,486	1/2	101,383	1/2	116,281	1/2	131,178
3/4	3,069	3/4	14,622	3/4	27,653	3/4	42,104	3/4	57,001	3/4	71,899	3/4	86,796	3/4	101,694	3/4	116,591	3/4	131,489
3	3,291	3	14,878	3	27,939	3	42,414	3	57,312	3	72,209	3	87,107	3	102,004	3	116,902	3	131,799
1/4	3,518	1/4	15,136	1/4	28,227	1/4	42,725	1/4	57,622	1/4	72,520	1/4	87,417	1/4	102,315	1/4	117,212	1/4	132,109
1/2	3,744	1/2	15,394	1/2	28,515	1/2	43,035	1/2	57,933	1/2	72,830	1/2	87,727	1/2	102,625	1/2	117,522	1/2	132,420
3/4	3,970	3/4	15,652	3/4	28,804	3/4	43,345	3/4	58,243	3/4	73,140	3/4	88,038	3/4	102,935	3/4	117,833	3/4	132,730
4	4,197	4	15,910	4	29,092	4	43,656	4	58,553	4	73,451	4	88,348	4	103,246	4	118,143	4	133,041
1/4	4,426	1/4	16,171	1/4	29,383	1/4	43,966	1/4	58,864	1/4	73,761	1/4	88,659	1/4	103,556	1/4	118,453	1/4	133,351
1/2	4,656	1/2	16,431	1/2	29,674	1/2	44,277	1/2	59,174	1/2	74,071	1/2	88,969	1/2	103,866	1/2	118,764	1/2	133,661
3/4	4,885	3/4	16,692	3/4	29,965	3/4	44,587	3/4	59,484	3/4	74,382	3/4	89,279	3/4	104,177	3/4	119,074	3/4	133,972
5	5,115	5	16,953	5	30,256	5	44,897	5	59,795	5	74,692	5	89,590	5	104,487	5	119,385	5	134,282
1/4	5,347	1/4	17,216	1/4	30,549	1/4	45,208	1/4	60,105	1/4	75,003	1/4	89,900	1/4	104,797	1/4	119,695	1/4	134,592
1/2	5,580	1/2	17,479	1/2	30,843	1/2	45,518	1/2	60,415	1/2	75,313	1/2	90,210	1/2	105,108	1/2	120,005	1/2	134,903
3/4	5,812	3/4	17,742	3/4	31,136	3/4	45,828	3/4	60,726	3/4	75,623	3/4	90,521	3/4	105,418	3/4	120,316	3/4	135,213
6	6,044	6	18,006	6	31,430	6	46,139	6	61,036	6	75,934	6	90,831	6	105,729	6	120,626	6	135,523
1/4	6,280	1/4	18,271	1/4	31,726	1/4	46,449	1/4	61,347	1/4	76,244	1/4	91,141	1/4	106,039	1/4	120,936	1/4	135,834
1/2	6,515	1/2	18,537	1/2	32,022	1/2	46,759	1/2	61,657	1/2	76,554	1/2	91,452	1/2	106,349	1/2	121,247	1/2	136,144
3/4	6,750	3/4	18,803	3/4	32,318	3/4	47,070	3/4	61,967	3/4	76,865	3/4	91,762	3/4	106,660	3/4	121,557	3/4	136,455
7	6,985	7	19,069	7	32,614	7	47,380	7	62,278	7	77,175	7	92,073	7	106,970	7	121,867	7	136,765
1/4	7,223	1/4	19,337	1/4	32,912	1/4	47,691	1/4	62,588	1/4	77,485	1/4	92,383	1/4	107,280	1/4	122,178	1/4	137,075
1/2	7,461	1/2	19,605	1/2	33,211	1/2	48,001	1/2	62,898	1/2	77,796	1/2	92,693	1/2	107,591	1/2	122,488	1/2	137,386
3/4	7,698	3/4	19,873	3/4	33,510	3/4	48,311	3/4	63,209	3/4	78,106	3/4	93,004	3/4	107,901	3/4	122,799	3/4	137,696
8	7,936	8	20,142	8	33,808	8	48,622	8	63,519	8	78,417	8	93,314	8	108,211	8	123,109	8	138,006
1/4	8,176	1/4	20,413	1/4	34,109	1/4	48,932	1/4	63,829	1/4	78,727	1/4	93,624	1/4	108,522	1/4	123,419	1/4	138,317
1/2	8,417	1/2	20,683	1/2	34,410	1/2	49,242	1/2	64,140	1/2	79,037	1/2	93,935	1/2	108,832	1/2	123,730	1/2	138,627
3/4	8,657	3/4	20,954	3/4	34,712	3/4	49,553	3/4	64,450	3/4	79,348	3/4	94,245	3/4	109,143	3/4	124,040	3/4	138,937
9	8,897	9	21,225	9	35,013	9	49,863	9	64,761	9	79,658	9	94,555	9	109,453	9	124,350	9	139,248
1/4	9,140	1/4	21,499	1/4	35,316	1/4	50,173	1/4	65,071	1/4	79,968	1/4	94,866	1/4	109,763	1/4	124,661	1/4	139,558
1/2	9,383	1/2	21,772	1/2	35,620	1/2	50,484	1/2	65,381	1/2	80,279	1/2	95,176	1/2	110,074	1/2	124,971	1/2	139,869
3/4	9,626	3/4	22,045	3/4	35,924	3/4	50,794	3/4	65,692	3/4	80,589	3/4	95,487	3/4	110,384	3/4	125,281	3/4	140,179
10	9,868	10	22,319	10	36,227	10	51,105	10	66,002	10	80,899	10	95,797	10	110,694	10	125,592	10	140,489
1/4	10,114	1/4	22,595	1/4	36,534	1/4	51,415	1/4	66,312	1/4	81,210	1/4	96,107	1/4	111,005	1/4	125,902	1/4	140,800
1/2	10,359	1/2	22,871	1/2	36,841	1/2	51,725	1/2	66,623	1/2	81,520	1/2	96,418	1/2	111,315	1/2	126,213	1/2	141,110
3/4	10,604	3/4	23,147	3/4	37,147	3/4	52,036	3/4	66,933	3/4	81,831	3/4	96,728	3/4	111,625	3/4	126,523	3/4	141,420
11	10,850	11	23,423	11	37,454	11	52,346	11	67,243	11	82,141	11	97,038	11	111,936	11	126,833	11	141,731
1/4	11,098	1/4	23,701	1/4	37,763	1/4	52,656	1/4	67,554	1/4	82,451	1/4	97,349	1/4	112,246	1/4	127,144	1/4	142,041
1/2	11,346	1/2	23,980	1/2	38,072	1/2	52,967	1/2	67,864	1/2	82,762	1/2	97,659	1/2	112,557	1/2	127,454	1/2	142,351
3/4	11,594	3/4	24,258	3/4	38,381	3/4	53,277	3/4	68,175	3/4	83,072	3/4	97,969	3/4	112,867	3/4	127,764	3/4	142,662

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 431"

**1 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	142,972	0	157,870	0	172,745	0	187,599	0	202,430	0		0		0		0		0	
1/4	143,283	1/4	158,180	1/4	173,055	1/4	187,908	1/4	202,695	1/4		1/4		1/4		1/4		1/4	
1/2	143,593	1/2	158,490	1/2	173,364	1/2	188,218	1/2	202,960	1/2		1/2		1/2		1/2		1/2	
3/4	143,903	3/4	158,801	3/4	173,674	3/4	188,527	3/4	203,226	3/4		3/4		3/4		3/4		3/4	
1	144,214	1	159,111	1	173,983	1	188,837	1	203,491	1		1		1		1		1	
1/4	144,524	1/4	159,421	1/4	174,292	1/4	189,146	1/4	203,711	1/4		1/4		1/4		1/4		1/4	
1/2	144,834	1/2	159,732	1/2	174,602	1/2	189,455	1/2	203,932	1/2		1/2		1/2		1/2		1/2	
3/4	145,145	3/4	160,042	3/4	174,911	3/4	189,765	3/4	204,153	3/4		3/4		3/4		3/4		3/4	
2	145,455	2	160,353	2	175,221	2	190,074	2	204,374	2		2		2		2		2	
1/4	145,765	1/4	160,663	1/4	175,530	1/4	190,384	1/4	204,550	1/4		1/4		1/4		1/4		1/4	
1/2	146,076	1/2	160,973	1/2	175,840	1/2	190,693	1/2	204,727	1/2		1/2		1/2		1/2		1/2	
3/4	146,386	3/4	161,284	3/4	176,149	3/4	191,003	3/4	204,903	3/4		3/4		3/4		3/4		3/4	
3	146,697	3	161,594	3	176,459	3	191,312	3	205,079	3		3		3		3		3	
1/4	147,007	1/4	161,904	1/4	176,768	1/4	191,622	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,317	1/2	162,215	1/2	177,077	1/2	191,931	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,628	3/4	162,525	3/4	177,387	3/4	192,241	3/4		3/4		3/4		3/4		3/4		3/4	
4	147,938	4	162,835	4	177,696	4	192,550	4		4		4		4		4		4	
1/4	148,248	1/4	163,146	1/4	178,006	1/4	192,859	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,559	1/2	163,456	1/2	178,315	1/2	193,169	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,869	3/4	163,767	3/4	178,625	3/4	193,478	3/4		3/4		3/4		3/4		3/4		3/4	
5	149,179	5	164,077	5	178,934	5	193,788	5		5		5		5		5		5	
1/4	149,490	1/4	164,387	1/4	179,244	1/4	194,097	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,800	1/2	164,698	1/2	179,553	1/2	194,407	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	150,111	3/4	165,008	3/4	179,863	3/4	194,716	3/4		3/4		3/4		3/4		3/4		3/4	
6	150,421	6	165,318	6	180,172	6	195,026	6		6		6		6		6		6	
1/4	150,731	1/4	165,628	1/4	180,481	1/4	195,335	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,042	1/2	165,937	1/2	180,791	1/2	195,644	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,352	3/4	166,247	3/4	181,100	3/4	195,954	3/4		3/4		3/4		3/4		3/4		3/4	
7	151,662	7	166,556	7	181,410	7	196,263	7		7		7		7		7		7	
1/4	151,973	1/4	166,866	1/4	181,719	1/4	196,573	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,283	1/2	167,175	1/2	182,029	1/2	196,882	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,593	3/4	167,485	3/4	182,338	3/4	197,192	3/4		3/4		3/4		3/4		3/4		3/4	
8	152,904	8	167,794	8	182,648	8	197,501	8		8		8		8		8		8	
1/4	153,214	1/4	168,103	1/4	182,957	1/4	197,811	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,525	1/2	168,413	1/2	183,266	1/2	198,120	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,835	3/4	168,722	3/4	183,576	3/4	198,430	3/4		3/4		3/4		3/4		3/4		3/4	
9	154,145	9	169,032	9	183,885	9	198,739	9		9		9		9		9		9	
1/4	154,456	1/4	169,341	1/4	184,195	1/4	199,048	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,766	1/2	169,651	1/2	184,504	1/2	199,358	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,076	3/4	169,960	3/4	184,814	3/4	199,667	3/4		3/4		3/4		3/4		3/4		3/4	
10	155,387	10	170,270	10	185,123	10	199,977	10		10		10		10		10		10	
1/4	155,697	1/4	170,579	1/4	185,433	1/4	200,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,007	1/2	170,888	1/2	185,742	1/2	200,596	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,318	3/4	171,198	3/4	186,052	3/4	200,905	3/4		3/4		3/4		3/4		3/4		3/4	
11	156,628	11	171,507	11	186,361	11	201,215	11		11		11		11		11		11	
1/4	156,939	1/4	171,817	1/4	186,670	1/4	201,518	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,249	1/2	172,126	1/2	186,980	1/2	201,822	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,559	3/4	172,436	3/4	187,289	3/4	202,126	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/215 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 431"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	850	0	15,423	0	29,934	0	44,455	0	59,269	0	74,082	0	88,895	0	103,708	0	118,522	0	133,335
1/4	1,107	1/4	15,731	1/4	30,230	1/4	44,764	1/4	59,577	1/4	74,390	1/4	89,204	1/4	104,017	1/4	118,830	1/4	133,643
1/2	1,364	1/2	16,040	1/2	30,526	1/2	45,073	1/2	59,886	1/2	74,699	1/2	89,512	1/2	104,326	1/2	119,139	1/2	133,952
3/4	1,621	3/4	16,348	3/4	30,822	3/4	45,381	3/4	60,194	3/4	75,008	3/4	89,821	3/4	104,634	3/4	119,447	3/4	134,261
1	1,878	1	16,657	1	31,118	1	45,690	1	60,503	1	75,316	1	90,130	1	104,943	1	119,756	1	134,569
1/4	2,183	1/4	16,966	1/4	31,414	1/4	45,998	1/4	60,812	1/4	75,625	1/4	90,438	1/4	105,251	1/4	120,065	1/4	134,878
1/2	2,487	1/2	17,274	1/2	31,710	1/2	46,307	1/2	61,120	1/2	75,934	1/2	90,747	1/2	105,560	1/2	120,373	1/2	135,186
3/4	2,791	3/4	17,583	3/4	32,006	3/4	46,616	3/4	61,429	3/4	76,242	3/4	91,055	3/4	105,869	3/4	120,682	3/4	135,495
2	3,096	2	17,891	2	32,302	2	46,924	2	61,738	2	76,551	2	91,364	2	106,177	2	120,990	2	135,804
1/4	3,402	1/4	18,200	1/4	32,599	1/4	47,233	1/4	62,046	1/4	76,859	1/4	91,673	1/4	106,486	1/4	121,299	1/4	136,112
1/2	3,708	1/2	18,509	1/2	32,895	1/2	47,542	1/2	62,355	1/2	77,168	1/2	91,981	1/2	106,794	1/2	121,608	1/2	136,421
3/4	4,015	3/4	18,817	3/4	33,191	3/4	47,850	3/4	62,663	3/4	77,477	3/4	92,290	3/4	107,103	3/4	121,916	3/4	136,730
3	4,321	3	19,126	3	33,488	3	48,159	3	62,972	3	77,785	3	92,598	3	107,412	3	122,225	3	137,038
1/4	4,628	1/4	19,434	1/4	33,784	1/4	48,467	1/4	63,281	1/4	78,094	1/4	92,907	1/4	107,720	1/4	122,534	1/4	137,347
1/2	4,936	1/2	19,743	1/2	34,081	1/2	48,776	1/2	63,589	1/2	78,402	1/2	93,216	1/2	108,029	1/2	122,842	1/2	137,655
3/4	5,243	3/4	20,052	3/4	34,377	3/4	49,085	3/4	63,898	3/4	78,711	3/4	93,524	3/4	108,338	3/4	123,151	3/4	137,964
4	5,551	4	20,360	4	34,673	4	49,393	4	64,206	4	79,020	4	93,833	4	108,646	4	123,459	4	138,273
1/4	5,859	1/4	20,669	1/4	34,970	1/4	49,702	1/4	64,515	1/4	79,328	1/4	94,141	1/4	108,955	1/4	123,768	1/4	138,581
1/2	6,167	1/2	20,977	1/2	35,267	1/2	50,010	1/2	64,824	1/2	79,637	1/2	94,450	1/2	109,263	1/2	124,077	1/2	138,890
3/4	6,475	3/4	21,286	3/4	35,564	3/4	50,319	3/4	65,132	3/4	79,945	3/4	94,759	3/4	109,572	3/4	124,385	3/4	139,198
5	6,783	5	21,595	5	35,861	5	50,628	5	65,441	5	80,254	5	95,067	5	109,881	5	124,694	5	139,507
1/4	7,091	1/4	21,903	1/4	36,158	1/4	50,936	1/4	65,749	1/4	80,563	1/4	95,376	1/4	110,189	1/4	125,002	1/4	139,816
1/2	7,400	1/2	22,212	1/2	36,455	1/2	51,245	1/2	66,058	1/2	80,871	1/2	95,685	1/2	110,498	1/2	125,311	1/2	140,124
3/4	7,708	3/4	22,520	3/4	36,752	3/4	51,553	3/4	66,367	3/4	81,180	3/4	95,993	3/4	110,806	3/4	125,620	3/4	140,433
6	8,016	6	22,829	6	37,049	6	51,862	6	66,675	6	81,489	6	96,302	6	111,115	6	125,928	6	140,741
1/4	8,325	1/4	23,125	1/4	37,357	1/4	52,171	1/4	66,984	1/4	81,797	1/4	96,610	1/4	111,424	1/4	126,237	1/4	141,050
1/2	8,634	1/2	23,421	1/2	37,666	1/2	52,479	1/2	67,292	1/2	82,106	1/2	96,919	1/2	111,732	1/2	126,545	1/2	141,359
3/4	8,942	3/4	23,717	3/4	37,975	3/4	52,788	3/4	67,601	3/4	82,414	3/4	97,228	3/4	112,041	3/4	126,854	3/4	141,667
7	9,251	7	24,013	7	38,283	7	53,096	7	67,910	7	82,723	7	97,536	7	112,349	7	127,163	7	141,976
1/4	9,559	1/4	24,309	1/4	38,592	1/4	53,405	1/4	68,218	1/4	83,032	1/4	97,845	1/4	112,658	1/4	127,471	1/4	142,285
1/2	9,868	1/2	24,605	1/2	38,900	1/2	53,714	1/2	68,527	1/2	83,340	1/2	98,153	1/2	112,967	1/2	127,780	1/2	142,593
3/4	10,176	3/4	24,901	3/4	39,209	3/4	54,022	3/4	68,836	3/4	83,649	3/4	98,462	3/4	113,275	3/4	128,088	3/4	142,902
8	10,485	8	25,197	8	39,518	8	54,331	8	69,144	8	83,957	8	98,771	8	113,584	8	128,397	8	143,210
1/4	10,794	1/4	25,493	1/4	39,826	1/4	54,640	1/4	69,453	1/4	84,266	1/4	99,079	1/4	113,892	1/4	128,706	1/4	143,519
1/2	11,102	1/2	25,790	1/2	40,135	1/2	54,948	1/2	69,761	1/2	84,575	1/2	99,388	1/2	114,201	1/2	129,014	1/2	143,828
3/4	11,411	3/4	26,086	3/4	40,443	3/4	55,257	3/4	70,070	3/4	84,883	3/4	99,696	3/4	114,510	3/4	129,323	3/4	144,136
9	11,719	9	26,382	9	40,752	9	55,565	9	70,379	9	85,192	9	100,005	9	114,818	9	129,632	9	144,445
1/4	12,028	1/4	26,678	1/4	41,061	1/4	55,874	1/4	70,687	1/4	85,500	1/4	100,314	1/4	115,127	1/4	129,940	1/4	144,753
1/2	12,337	1/2	26,974	1/2	41,369	1/2	56,183	1/2	70,996	1/2	85,809	1/2	100,622	1/2	115,436	1/2	130,249	1/2	145,062
3/4	12,645	3/4	27,270	3/4	41,678	3/4	56,491	3/4	71,304	3/4	86,118	3/4	100,931	3/4	115,744	3/4	130,557	3/4	145,371
10	12,954	10	27,566	10	41,987	10	56,800	10	71,613	10	86,426	10	101,239	10	116,053	10	130,866	10	145,679
1/4	13,262	1/4	27,862	1/4	42,295	1/4	57,108	1/4	71,922	1/4	86,735	1/4	101,548	1/4	116,361	1/4	131,175	1/4	145,988
1/2	13,571	1/2	28,158	1/2	42,604	1/2	57,417	1/2	72,230	1/2	87,043	1/2	101,857	1/2	116,670	1/2	131,483	1/2	146,296
3/4	13,880	3/4	28,454	3/4	42,912	3/4	57,726	3/4	72,539	3/4	87,352	3/4	102,165	3/4	116,979	3/4	131,792	3/4	146,605
11	14,188	11	28,750	11	43,221	11	58,034	11	72,847	11	87,661	11	102,474	11	117,287	11	132,100	11	146,914
1/4	14,497	1/4	29,046	1/4	43,530	1/4	58,343	1/4	73,156	1/4	87,969	1/4	102,783	1/4	117,596	1/4	132,409	1/4	147,222
1/2	14,805	1/2	29,342	1/2	43,838	1/2	58,651	1/2	73,465	1/2	88,278	1/2	103,091	1/2	117,904	1/2	132,718	1/2	147,531
3/4	15,114	3/4	29,638	3/4	44,147	3/4	58,960	3/4	73,773	3/4	88,587	3/4	103,400	3/4	118,213	3/4	133,026	3/4	147,839

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HFL 431"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

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	148,148	0	162,961	0	177,753	0	192,522	0	207,269	0		0		0		0		0	
1/4	148,457	1/4	163,270	1/4	178,060	1/4	192,830	1/4	207,533	1/4		1/4		1/4		1/4		1/4	
1/2	148,765	1/2	163,579	1/2	178,368	1/2	193,137	1/2	207,796	1/2		1/2		1/2		1/2		1/2	
3/4	149,074	3/4	163,887	3/4	178,676	3/4	193,445	3/4	208,060	3/4		3/4		3/4		3/4		3/4	
1	149,383	1	164,196	1	178,983	1	193,753	1	208,324	1		1		1		1		1	
1/4	149,691	1/4	164,504	1/4	179,291	1/4	194,060	1/4	208,543	1/4		1/4		1/4		1/4		1/4	
1/2	150,000	1/2	164,813	1/2	179,599	1/2	194,368	1/2	208,763	1/2		1/2		1/2		1/2		1/2	
3/4	150,308	3/4	165,122	3/4	179,906	3/4	194,676	3/4	208,982	3/4		3/4		3/4		3/4		3/4	
2	150,617	2	165,430	2	180,214	2	194,984	2	209,202	2		2		2		2		2	
1/4	150,926	1/4	165,739	1/4	180,522	1/4	195,291	1/4	209,377	1/4		1/4		1/4		1/4		1/4	
1/2	151,234	1/2	166,047	1/2	180,830	1/2	195,599	1/2	209,553	1/2		1/2		1/2		1/2		1/2	
3/4	151,543	3/4	166,356	3/4	181,137	3/4	195,907	3/4	209,728	3/4		3/4		3/4		3/4		3/4	
3	151,851	3	166,665	3	181,445	3	196,214	3	209,904	3		3		3		3		3	
1/4	152,160	1/4	166,973	1/4	181,753	1/4	196,522	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,469	1/2	167,282	1/2	182,060	1/2	196,830	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,777	3/4	167,590	3/4	182,368	3/4	197,137	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,086	4	167,899	4	182,676	4	197,445	4		4		4		4		4		4	
1/4	153,394	1/4	168,208	1/4	182,983	1/4	197,753	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,703	1/2	168,516	1/2	183,291	1/2	198,060	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,012	3/4	168,825	3/4	183,599	3/4	198,368	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,320	5	169,133	5	183,907	5	198,676	5		5		5		5		5		5	
1/4	154,629	1/4	169,442	1/4	184,214	1/4	198,984	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,937	1/2	169,751	1/2	184,522	1/2	199,291	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,246	3/4	170,059	3/4	184,830	3/4	199,599	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,555	6	170,368	6	185,137	6	199,907	6		6		6		6		6		6	
1/4	155,863	1/4	170,676	1/4	185,445	1/4	200,214	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,172	1/2	170,983	1/2	185,753	1/2	200,522	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,481	3/4	171,291	3/4	186,060	3/4	200,830	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,789	7	171,599	7	186,368	7	201,137	7		7		7		7		7		7	
1/4	157,098	1/4	171,906	1/4	186,676	1/4	201,445	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,406	1/2	172,214	1/2	186,983	1/2	201,753	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,715	3/4	172,522	3/4	187,291	3/4	202,061	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,024	8	172,829	8	187,599	8	202,368	8		8		8		8		8		8	
1/4	158,332	1/4	173,137	1/4	187,907	1/4	202,676	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,641	1/2	173,445	1/2	188,214	1/2	202,984	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,949	3/4	173,753	3/4	188,522	3/4	203,291	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,258	9	174,060	9	188,830	9	203,599	9		9		9		9		9		9	
1/4	159,567	1/4	174,368	1/4	189,137	1/4	203,907	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,875	1/2	174,676	1/2	189,445	1/2	204,214	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,184	3/4	174,983	3/4	189,753	3/4	204,522	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,492	10	175,291	10	190,060	10	204,830	10		10		10		10		10		10	
1/4	160,801	1/4	175,599	1/4	190,368	1/4	205,137	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,110	1/2	175,906	1/2	190,676	1/2	205,445	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,418	3/4	176,214	3/4	190,983	3/4	205,753	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,727	11	176,522	11	191,291	11	206,061	11		11		11		11		11		11	
1/4	162,035	1/4	176,830	1/4	191,599	1/4	206,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,344	1/2	177,137	1/2	191,907	1/2	206,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,653	3/4	177,445	3/4	192,214	3/4	206,967	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/215 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 431"

2 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	850	0	15,420	0	30,208	0	45,006	0	59,816	0	74,626	0	89,435	0	104,245	0	119,055	0	133,864
1/4	1,107	1/4	15,729	1/4	30,516	1/4	45,315	1/4	60,124	1/4	74,934	1/4	89,744	1/4	104,554	1/4	119,363	1/4	134,173
1/2	1,364	1/2	16,038	1/2	30,824	1/2	45,623	1/2	60,433	1/2	75,243	1/2	90,052	1/2	104,862	1/2	119,672	1/2	134,482
3/4	1,621	3/4	16,346	3/4	31,131	3/4	45,932	3/4	60,741	3/4	75,551	3/4	90,361	3/4	105,171	3/4	119,980	3/4	134,790
1	1,878	1	16,655	1	31,439	1	46,240	1	61,050	1	75,860	1	90,669	1	105,479	1	120,289	1	135,099
1/4	2,182	1/4	16,963	1/4	31,746	1/4	46,549	1/4	61,359	1/4	76,168	1/4	90,978	1/4	105,788	1/4	120,597	1/4	135,407
1/2	2,487	1/2	17,272	1/2	32,054	1/2	46,857	1/2	61,667	1/2	76,477	1/2	91,287	1/2	106,096	1/2	120,906	1/2	135,716
3/4	2,792	3/4	17,580	3/4	32,362	3/4	47,166	3/4	61,976	3/4	76,785	3/4	91,595	3/4	106,405	3/4	121,215	3/4	136,024
2	3,096	2	17,889	2	32,669	2	47,474	2	62,284	2	77,094	2	91,904	2	106,713	2	121,523	2	136,333
1/4	3,402	1/4	18,197	1/4	32,977	1/4	47,783	1/4	62,593	1/4	77,402	1/4	92,212	1/4	107,022	1/4	121,832	1/4	136,641
1/2	3,709	1/2	18,506	1/2	33,285	1/2	48,091	1/2	62,901	1/2	77,711	1/2	92,521	1/2	107,330	1/2	122,140	1/2	136,950
3/4	4,015	3/4	18,814	3/4	33,593	3/4	48,400	3/4	63,210	3/4	78,019	3/4	92,829	3/4	107,639	3/4	122,449	3/4	137,258
3	4,322	3	19,123	3	33,901	3	48,709	3	63,518	3	78,328	3	93,138	3	107,947	3	122,757	3	137,567
1/4	4,629	1/4	19,431	1/4	34,209	1/4	49,017	1/4	63,827	1/4	78,637	1/4	93,446	1/4	108,256	1/4	123,066	1/4	137,875
1/2	4,936	1/2	19,740	1/2	34,517	1/2	49,326	1/2	64,135	1/2	78,945	1/2	93,755	1/2	108,565	1/2	123,374	1/2	138,184
3/4	5,244	3/4	20,048	3/4	34,825	3/4	49,634	3/4	64,444	3/4	79,254	3/4	94,063	3/4	108,873	3/4	123,683	3/4	138,493
4	5,551	4	20,357	4	35,133	4	49,943	4	64,752	4	79,562	4	94,372	4	109,182	4	123,991	4	138,801
1/4	5,859	1/4	20,665	1/4	35,441	1/4	50,251	1/4	65,061	1/4	79,871	1/4	94,680	1/4	109,490	1/4	124,300	1/4	139,110
1/2	6,167	1/2	20,974	1/2	35,750	1/2	50,560	1/2	65,369	1/2	80,179	1/2	94,989	1/2	109,799	1/2	124,608	1/2	139,418
3/4	6,475	3/4	21,283	3/4	36,059	3/4	50,868	3/4	65,678	3/4	80,488	3/4	95,297	3/4	110,107	3/4	124,917	3/4	139,727
5	6,783	5	21,591	5	36,367	5	51,177	5	65,987	5	80,796	5	95,606	5	110,416	5	125,225	5	140,035
1/4	7,091	1/4	21,900	1/4	36,676	1/4	51,485	1/4	66,295	1/4	81,105	1/4	95,915	1/4	110,724	1/4	125,534	1/4	140,344
1/2	7,399	1/2	22,208	1/2	36,984	1/2	51,794	1/2	66,604	1/2	81,413	1/2	96,223	1/2	111,033	1/2	125,843	1/2	140,652
3/4	7,708	3/4	22,517	3/4	37,293	3/4	52,102	3/4	66,912	3/4	81,722	3/4	96,532	3/4	111,341	3/4	126,151	3/4	140,961
6	8,016	6	22,825	6	37,601	6	52,411	6	67,221	6	82,030	6	96,840	6	111,650	6	126,460	6	141,269
1/4	8,324	1/4	23,133	1/4	37,910	1/4	52,720	1/4	67,529	1/4	82,339	1/4	97,149	1/4	111,958	1/4	126,768	1/4	141,578
1/2	8,633	1/2	23,440	1/2	38,218	1/2	53,028	1/2	67,838	1/2	82,648	1/2	97,457	1/2	112,267	1/2	127,077	1/2	141,886
3/4	8,941	3/4	23,748	3/4	38,527	3/4	53,337	3/4	68,146	3/4	82,956	3/4	97,766	3/4	112,575	3/4	127,385	3/4	142,195
7	9,250	7	24,056	7	38,835	7	53,645	7	68,455	7	83,265	7	98,074	7	112,884	7	127,694	7	142,503
1/4	9,558	1/4	24,363	1/4	39,144	1/4	53,954	1/4	68,763	1/4	83,573	1/4	98,383	1/4	113,193	1/4	128,002	1/4	142,812
1/2	9,867	1/2	24,671	1/2	39,452	1/2	54,262	1/2	69,072	1/2	83,882	1/2	98,691	1/2	113,501	1/2	128,311	1/2	143,121
3/4	10,176	3/4	24,979	3/4	39,761	3/4	54,571	3/4	69,380	3/4	84,190	3/4	99,000	3/4	113,810	3/4	128,619	3/4	143,429
8	10,484	8	25,286	8	40,070	8	54,879	8	69,689	8	84,499	8	99,308	8	114,118	8	128,928	8	143,738
1/4	10,793	1/4	25,594	1/4	40,378	1/4	55,188	1/4	69,998	1/4	84,807	1/4	99,617	1/4	114,427	1/4	129,236	1/4	144,046
1/2	11,101	1/2	25,901	1/2	40,687	1/2	55,496	1/2	70,306	1/2	85,116	1/2	99,926	1/2	114,735	1/2	129,545	1/2	144,355
3/4	11,410	3/4	26,209	3/4	40,995	3/4	55,805	3/4	70,615	3/4	85,424	3/4	100,234	3/4	115,044	3/4	129,854	3/4	144,663
9	11,718	9	26,517	9	41,304	9	56,113	9	70,923	9	85,733	9	100,543	9	115,352	9	130,162	9	144,972
1/4	12,027	1/4	26,824	1/4	41,612	1/4	56,422	1/4	71,232	1/4	86,041	1/4	100,851	1/4	115,661	1/4	130,471	1/4	145,280
1/2	12,335	1/2	27,132	1/2	41,921	1/2	56,730	1/2	71,540	1/2	86,350	1/2	101,160	1/2	115,969	1/2	130,779	1/2	145,589
3/4	12,644	3/4	27,440	3/4	42,229	3/4	57,039	3/4	71,849	3/4	86,658	3/4	101,468	3/4	116,278	3/4	131,088	3/4	145,897
10	12,952	10	27,747	10	42,538	10	57,348	10	72,157	10	86,967	10	101,777	10	116,586	10	131,396	10	146,206
1/4	13,261	1/4	28,055	1/4	42,846	1/4	57,656	1/4	72,466	1/4	87,276	1/4	102,085	1/4	116,895	1/4	131,705	1/4	146,514
1/2	13,569	1/2	28,363	1/2	43,155	1/2	57,965	1/2	72,774	1/2	87,584	1/2	102,394	1/2	117,204	1/2	132,013	1/2	146,823
3/4	13,878	3/4	28,670	3/4	43,463	3/4	58,273	3/4	73,083	3/4	87,893	3/4	102,702	3/4	117,512	3/4	132,322	3/4	147,132
11	14,186	11	28,978	11	43,772	11	58,582	11	73,391	11	88,201	11	103,011	11	117,821	11	132,630	11	147,440
1/4	14,495	1/4	29,285	1/4	44,081	1/4	58,890	1/4	73,700	1/4	88,510	1/4	103,319	1/4	118,129	1/4	132,939	1/4	147,749
1/2	14,803	1/2	29,593	1/2	44,389	1/2	59,199	1/2	74,008	1/2	88,818	1/2	103,628	1/2	118,438	1/2	133,247	1/2	148,057
3/4	15,112	3/4	29,901	3/4	44,698	3/4	59,507	3/4	74,317	3/4	89,127	3/4	103,936	3/4	118,746	3/4	133,556	3/4	148,366

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "HFL 431"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-06"

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	148,674	0	163,484	0	178,272	0	193,038	0	207,781	0		0		0		0		0	
1/4	148,983	1/4	163,792	1/4	178,579	1/4	193,345	1/4	208,045	1/4		1/4		1/4		1/4		1/4	
1/2	149,291	1/2	164,101	1/2	178,887	1/2	193,653	1/2	208,309	1/2		1/2		1/2		1/2		1/2	
3/4	149,600	3/4	164,410	3/4	179,195	3/4	193,960	3/4	208,572	3/4		3/4		3/4		3/4		3/4	
1	149,908	1	164,718	1	179,502	1	194,268	1	208,836	1		1		1		1		1	
1/4	150,217	1/4	165,027	1/4	179,810	1/4	194,576	1/4	209,055	1/4		1/4		1/4		1/4		1/4	
1/2	150,525	1/2	165,335	1/2	180,117	1/2	194,883	1/2	209,275	1/2		1/2		1/2		1/2		1/2	
3/4	150,834	3/4	165,644	3/4	180,425	3/4	195,191	3/4	209,494	3/4		3/4		3/4		3/4		3/4	
2	151,142	2	165,952	2	180,733	2	195,499	2	209,713	2		2		2		2		2	
1/4	151,451	1/4	166,261	1/4	181,040	1/4	195,806	1/4	209,889	1/4		1/4		1/4		1/4		1/4	
1/2	151,760	1/2	166,569	1/2	181,348	1/2	196,114	1/2	210,064	1/2		1/2		1/2		1/2		1/2	
3/4	152,068	3/4	166,878	3/4	181,656	3/4	196,421	3/4	210,240	3/4		3/4		3/4		3/4		3/4	
3	152,377	3	167,186	3	181,963	3	196,729	3	210,415	3		3		3		3		3	
1/4	152,685	1/4	167,495	1/4	182,271	1/4	197,037	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,994	1/2	167,803	1/2	182,578	1/2	197,344	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,302	3/4	168,112	3/4	182,886	3/4	197,652	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,611	4	168,421	4	183,194	4	197,960	4		4		4		4		4		4	
1/4	153,919	1/4	168,729	1/4	183,501	1/4	198,267	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,228	1/2	169,038	1/2	183,809	1/2	198,575	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,536	3/4	169,346	3/4	184,117	3/4	198,882	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,845	5	169,655	5	184,424	5	199,190	5		5		5		5		5		5	
1/4	155,153	1/4	169,963	1/4	184,732	1/4	199,498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,462	1/2	170,272	1/2	185,039	1/2	199,805	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,771	3/4	170,580	3/4	185,347	3/4	200,113	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,079	6	170,889	6	185,655	6	200,421	6		6		6		6		6		6	
1/4	156,388	1/4	171,196	1/4	185,962	1/4	200,728	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,696	1/2	171,504	1/2	186,270	1/2	201,036	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,005	3/4	171,812	3/4	186,578	3/4	201,343	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,313	7	172,119	7	186,885	7	201,651	7		7		7		7		7		7	
1/4	157,622	1/4	172,427	1/4	187,193	1/4	201,959	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,930	1/2	172,735	1/2	187,500	1/2	202,266	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,239	3/4	173,042	3/4	187,808	3/4	202,574	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,547	8	173,350	8	188,116	8	202,882	8		8		8		8		8		8	
1/4	158,856	1/4	173,657	1/4	188,423	1/4	203,189	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,164	1/2	173,965	1/2	188,731	1/2	203,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,473	3/4	174,273	3/4	189,039	3/4	203,804	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,782	9	174,580	9	189,346	9	204,112	9		9		9		9		9		9	
1/4	160,090	1/4	174,888	1/4	189,654	1/4	204,420	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,399	1/2	175,196	1/2	189,961	1/2	204,727	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,707	3/4	175,503	3/4	190,269	3/4	205,035	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,016	10	175,811	10	190,577	10	205,342	10		10		10		10		10		10	
1/4	161,324	1/4	176,118	1/4	190,884	1/4	205,650	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,633	1/2	176,426	1/2	191,192	1/2	205,958	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,941	3/4	176,734	3/4	191,499	3/4	206,265	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,250	11	177,041	11	191,807	11	206,573	11		11		11		11		11		11	
1/4	162,558	1/4	177,349	1/4	192,115	1/4	206,875	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,867	1/2	177,656	1/2	192,422	1/2	207,177	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,175	3/4	177,964	3/4	192,730	3/4	207,479	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/215 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 431"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	972	0	17,692	0	34,436	0	51,167	0	68,020	0	84,846	0	101,806	0	118,789	0	135,754	0	152,718
1/4	1,267	1/4	18,046	1/4	34,779	1/4	51,520	1/4	68,370	1/4	85,198	1/4	102,160	1/4	119,142	1/4	136,108	1/4	153,072
1/2	1,562	1/2	18,400	1/2	35,122	1/2	51,874	1/2	68,719	1/2	85,549	1/2	102,514	1/2	119,496	1/2	136,461	1/2	153,425
3/4	1,858	3/4	18,754	3/4	35,466	3/4	52,227	3/4	69,069	3/4	85,901	3/4	102,868	3/4	119,849	3/4	136,815	3/4	153,779
1	2,153	1	19,108	1	35,809	1	52,580	1	69,418	1	86,253	1	103,222	1	120,203	1	137,168	1	154,132
1/4	2,503	1/4	19,462	1/4	36,153	1/4	52,934	1/4	69,768	1/4	86,605	1/4	103,576	1/4	120,556	1/4	137,521	1/4	154,485
1/2	2,852	1/2	19,816	1/2	36,496	1/2	53,287	1/2	70,117	1/2	86,957	1/2	103,930	1/2	120,910	1/2	137,875	1/2	154,839
3/4	3,202	3/4	20,170	3/4	36,839	3/4	53,640	3/4	70,467	3/4	87,308	3/4	104,283	3/4	121,263	3/4	138,228	3/4	155,192
2	3,552	2	20,523	2	37,183	2	53,994	2	70,816	2	87,660	2	104,637	2	121,617	2	138,582	2	155,546
1/4	3,904	1/4	20,877	1/4	37,527	1/4	54,347	1/4	71,166	1/4	88,012	1/4	104,991	1/4	121,970	1/4	138,935	1/4	155,899
1/2	4,256	1/2	21,231	1/2	37,870	1/2	54,700	1/2	71,515	1/2	88,364	1/2	105,345	1/2	122,324	1/2	139,289	1/2	156,253
3/4	4,608	3/4	21,585	3/4	38,214	3/4	55,054	3/4	71,865	3/4	88,716	3/4	105,699	3/4	122,677	3/4	139,642	3/4	156,606
3	4,960	3	21,939	3	38,558	3	55,407	3	72,214	3	89,067	3	106,053	3	123,031	3	139,995	3	156,959
1/4	5,313	1/4	22,293	1/4	38,901	1/4	55,761	1/4	72,562	1/4	89,421	1/4	106,407	1/4	123,384	1/4	140,349	1/4	157,313
1/2	5,666	1/2	22,647	1/2	39,245	1/2	56,114	1/2	72,909	1/2	89,775	1/2	106,761	1/2	123,738	1/2	140,702	1/2	157,666
3/4	6,019	3/4	23,001	3/4	39,589	3/4	56,467	3/4	73,257	3/4	90,129	3/4	107,114	3/4	124,091	3/4	141,056	3/4	158,020
4	6,372	4	23,354	4	39,932	4	56,821	4	73,605	4	90,483	4	107,468	4	124,445	4	141,409	4	158,373
1/4	6,725	1/4	23,708	1/4	40,277	1/4	57,174	1/4	73,952	1/4	90,837	1/4	107,822	1/4	124,798	1/4	141,762	1/4	158,726
1/2	7,078	1/2	24,062	1/2	40,621	1/2	57,527	1/2	74,300	1/2	91,191	1/2	108,176	1/2	125,151	1/2	142,116	1/2	159,080
3/4	7,432	3/4	24,416	3/4	40,965	3/4	57,881	3/4	74,647	3/4	91,544	3/4	108,530	3/4	125,505	3/4	142,469	3/4	159,433
5	7,785	5	24,770	5	41,310	5	58,234	5	74,995	5	91,898	5	108,884	5	125,858	5	142,823	5	159,787
1/4	8,139	1/4	25,124	1/4	41,654	1/4	58,583	1/4	75,347	1/4	92,252	1/4	109,238	1/4	126,212	1/4	143,176	1/4	160,140
1/2	8,492	1/2	25,478	1/2	41,998	1/2	58,933	1/2	75,699	1/2	92,606	1/2	109,591	1/2	126,565	1/2	143,530	1/2	160,494
3/4	8,845	3/4	25,832	3/4	42,342	3/4	59,282	3/4	76,051	3/4	92,960	3/4	109,945	3/4	126,919	3/4	143,883	3/4	160,847
6	9,199	6	26,186	6	42,687	6	59,632	6	76,402	6	93,314	6	110,299	6	127,272	6	144,236	6	161,200
1/4	9,553	1/4	26,530	1/4	43,040	1/4	59,981	1/4	76,754	1/4	93,668	1/4	110,653	1/4	127,626	1/4	144,590	1/4	161,554
1/2	9,907	1/2	26,873	1/2	43,393	1/2	60,331	1/2	77,106	1/2	94,021	1/2	111,007	1/2	127,979	1/2	144,943	1/2	161,907
3/4	10,261	3/4	27,217	3/4	43,747	3/4	60,681	3/4	77,458	3/4	94,375	3/4	111,361	3/4	128,333	3/4	145,297	3/4	162,261
7	10,615	7	27,561	7	44,100	7	61,030	7	77,810	7	94,729	7	111,715	7	128,686	7	145,650	7	162,614
1/4	10,968	1/4	27,905	1/4	44,453	1/4	61,380	1/4	78,161	1/4	95,083	1/4	112,068	1/4	129,039	1/4	146,003	1/4	162,967
1/2	11,322	1/2	28,249	1/2	44,807	1/2	61,729	1/2	78,513	1/2	95,437	1/2	112,422	1/2	129,393	1/2	146,357	1/2	163,321
3/4	11,676	3/4	28,593	3/4	45,160	3/4	62,079	3/4	78,865	3/4	95,791	3/4	112,776	3/4	129,746	3/4	146,710	3/4	163,674
8	12,030	8	28,937	8	45,514	8	62,428	8	79,217	8	96,145	8	113,130	8	130,100	8	147,064	8	164,028
1/4	12,384	1/4	29,281	1/4	45,867	1/4	62,778	1/4	79,569	1/4	96,499	1/4	113,484	1/4	130,453	1/4	147,417	1/4	164,381
1/2	12,738	1/2	29,625	1/2	46,220	1/2	63,127	1/2	79,920	1/2	96,852	1/2	113,838	1/2	130,807	1/2	147,771	1/2	164,735
3/4	13,092	3/4	29,969	3/4	46,574	3/4	63,477	3/4	80,272	3/4	97,206	3/4	114,192	3/4	131,160	3/4	148,124	3/4	165,088
9	13,446	9	30,313	9	46,927	9	63,826	9	80,624	9	97,560	9	114,546	9	131,513	9	148,477	9	165,441
1/4	13,800	1/4	30,657	1/4	47,280	1/4	64,176	1/4	80,976	1/4	97,914	1/4	114,899	1/4	131,867	1/4	148,831	1/4	165,795
1/2	14,153	1/2	31,001	1/2	47,634	1/2	64,525	1/2	81,328	1/2	98,268	1/2	115,253	1/2	132,220	1/2	149,184	1/2	166,148
3/4	14,507	3/4	31,345	3/4	47,987	3/4	64,875	3/4	81,679	3/4	98,622	3/4	115,607	3/4	132,574	3/4	149,538	3/4	166,502
10	14,861	10	31,689	10	48,340	10	65,224	10	82,031	10	98,976	10	115,961	10	132,927	10	149,891	10	166,855
1/4	15,215	1/4	32,032	1/4	48,694	1/4	65,574	1/4	82,383	1/4	99,329	1/4	116,314	1/4	133,280	1/4	150,244	1/4	167,091
1/2	15,569	1/2	32,375	1/2	49,047	1/2	65,923	1/2	82,735	1/2	99,683	1/2	116,668	1/2	133,634	1/2	150,598	1/2	167,327
3/4	15,923	3/4	32,719	3/4	49,400	3/4	66,273	3/4	83,087	3/4	100,037	3/4	117,021	3/4	133,987	3/4	150,951	3/4	167,563
11	16,277	11	33,062	11	49,754	11	66,622	11	83,438	11	100,391	11	117,375	11	134,341	11	151,305	11	167,798
1/4	16,631	1/4	33,406	1/4	50,107	1/4	66,972	1/4	83,790	1/4	100,745	1/4	117,728	1/4	134,694	1/4	151,658	1/4	168,034
1/2	16,985	1/2	33,749	1/2	50,460	1/2	67,321	1/2	84,142	1/2	101,099	1/2	118,082	1/2	135,048	1/2	152,012	1/2	168,270
3/4	17,338	3/4	34,092	3/4	50,814	3/4	67,671	3/4	84,494	3/4	101,453	3/4	118,435	3/4	135,401	3/4	152,365	3/4	168,506

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HFL 431"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	168,742	0	180,063	0	191,367	0	202,655	0	213,863	0		0		0		0		0	
1/4	168,978	1/4	180,298	1/4	191,602	1/4	202,890	1/4	214,046	1/4		1/4		1/4		1/4		1/4	
1/2	169,214	1/2	180,534	1/2	191,837	1/2	203,125	1/2	214,228	1/2		1/2		1/2		1/2		1/2	
3/4	169,449	3/4	180,770	3/4	192,072	3/4	203,360	3/4	214,410	3/4		3/4		3/4		3/4		3/4	
1	169,685	1	181,006	1	192,307	1	203,595	1	214,593	1		1		1		1		1	
1/4	169,921	1/4	181,242	1/4	192,543	1/4	203,830	1/4	214,724	1/4		1/4		1/4		1/4		1/4	
1/2	170,157	1/2	181,478	1/2	192,778	1/2	204,066	1/2	214,856	1/2		1/2		1/2		1/2		1/2	
3/4	170,393	3/4	181,713	3/4	193,013	3/4	204,301	3/4	214,988	3/4		3/4		3/4		3/4		3/4	
2	170,629	2	181,949	2	193,248	2	204,536	2	215,119	2		2		2		2		2	
1/4	170,864	1/4	182,185	1/4	193,483	1/4	204,771	1/4	215,200	1/4		1/4		1/4		1/4		1/4	
1/2	171,100	1/2	182,421	1/2	193,718	1/2	205,006	1/2	215,281	1/2		1/2		1/2		1/2		1/2	
3/4	171,336	3/4	182,657	3/4	193,954	3/4	205,241	3/4	215,362	3/4		3/4		3/4		3/4		3/4	
3	171,572	3	182,893	3	194,189	3	205,477	3	215,443	3		3		3		3		3	
1/4	171,808	1/4	183,129	1/4	194,424	1/4	205,712	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,044	1/2	183,364	1/2	194,659	1/2	205,947	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172,280	3/4	183,600	3/4	194,894	3/4	206,182	3/4		3/4		3/4		3/4		3/4		3/4	
4	172,515	4	183,836	4	195,129	4	206,417	4		4		4		4		4		4	
1/4	172,751	1/4	184,072	1/4	195,365	1/4	206,652	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,987	1/2	184,308	1/2	195,600	1/2	206,887	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	173,223	3/4	184,544	3/4	195,835	3/4	207,123	3/4		3/4		3/4		3/4		3/4		3/4	
5	173,459	5	184,780	5	196,070	5	207,358	5		5		5		5		5		5	
1/4	173,695	1/4	185,015	1/4	196,305	1/4	207,593	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	173,931	1/2	185,251	1/2	196,540	1/2	207,828	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	174,166	3/4	185,487	3/4	196,776	3/4	208,063	3/4		3/4		3/4		3/4		3/4		3/4	
6	174,402	6	185,723	6	197,011	6	208,298	6		6		6		6		6		6	
1/4	174,638	1/4	185,958	1/4	197,246	1/4	208,531	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	174,874	1/2	186,193	1/2	197,481	1/2	208,764	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	175,110	3/4	186,428	3/4	197,716	3/4	208,997	3/4		3/4		3/4		3/4		3/4		3/4	
7	175,346	7	186,664	7	197,951	7	209,230	7		7		7		7		7		7	
1/4	175,581	1/4	186,899	1/4	198,186	1/4	209,463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	175,817	1/2	187,134	1/2	198,422	1/2	209,696	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	176,053	3/4	187,369	3/4	198,657	3/4	209,929	3/4		3/4		3/4		3/4		3/4		3/4	
8	176,289	8	187,604	8	198,892	8	210,162	8		8		8		8		8		8	
1/4	176,525	1/4	187,839	1/4	199,127	1/4	210,395	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	176,761	1/2	188,075	1/2	199,362	1/2	210,628	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	176,997	3/4	188,310	3/4	199,597	3/4	210,861	3/4		3/4		3/4		3/4		3/4		3/4	
9	177,232	9	188,545	9	199,833	9	211,094	9		9		9		9		9		9	
1/4	177,468	1/4	188,780	1/4	200,068	1/4	211,326	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	177,704	1/2	189,015	1/2	200,303	1/2	211,559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	177,940	3/4	189,250	3/4	200,538	3/4	211,792	3/4		3/4		3/4		3/4		3/4		3/4	
10	178,176	10	189,485	10	200,773	10	212,025	10		10		10		10		10		10	
1/4	178,412	1/4	189,721	1/4	201,008	1/4	212,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	178,647	1/2	189,956	1/2	201,244	1/2	212,491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	178,883	3/4	190,191	3/4	201,479	3/4	212,724	3/4		3/4		3/4		3/4		3/4		3/4	
11	179,119	11	190,426	11	201,714	11	212,957	11		11		11		11		11		11	
1/4	179,355	1/4	190,661	1/4	201,949	1/4	213,184	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	179,591	1/2	190,896	1/2	202,184	1/2	213,410	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	179,827	3/4	191,132	3/4	202,419	3/4	213,637	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/2015 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 431"

3 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	972	0	17,707	0	34,695	0	51,694	0	68,704	0	85,713	0	102,722	0	119,728	0	136,718	0	153,709
1/4	1,267	1/4	18,061	1/4	35,049	1/4	52,048	1/4	69,058	1/4	86,067	1/4	103,076	1/4	120,082	1/4	137,072	1/4	154,063
1/2	1,562	1/2	18,415	1/2	35,402	1/2	52,402	1/2	69,413	1/2	86,422	1/2	103,431	1/2	120,436	1/2	137,426	1/2	154,417
3/4	1,858	3/4	18,770	3/4	35,755	3/4	52,757	3/4	69,767	3/4	86,776	3/4	103,785	3/4	120,790	3/4	137,780	3/4	154,771
1	2,153	1	19,124	1	36,109	1	53,111	1	70,121	1	87,130	1	104,139	1	121,144	1	138,134	1	155,125
1/4	2,502	1/4	19,478	1/4	36,462	1/4	53,465	1/4	70,476	1/4	87,485	1/4	104,494	1/4	121,498	1/4	138,488	1/4	155,479
1/2	2,852	1/2	19,833	1/2	36,816	1/2	53,820	1/2	70,830	1/2	87,839	1/2	104,848	1/2	121,852	1/2	138,842	1/2	155,833
3/4	3,202	3/4	20,187	3/4	37,169	3/4	54,174	3/4	71,185	3/4	88,194	3/4	105,202	3/4	122,206	3/4	139,196	3/4	156,187
2	3,551	2	20,542	2	37,523	2	54,529	2	71,539	2	88,548	2	105,557	2	122,559	2	139,550	2	156,541
1/4	3,903	1/4	20,896	1/4	37,877	1/4	54,883	1/4	71,893	1/4	88,902	1/4	105,911	1/4	122,913	1/4	139,904	1/4	156,895
1/2	4,255	1/2	21,250	1/2	38,230	1/2	55,237	1/2	72,248	1/2	89,257	1/2	106,265	1/2	123,267	1/2	140,258	1/2	157,248
3/4	4,606	3/4	21,605	3/4	38,584	3/4	55,592	3/4	72,602	3/4	89,611	3/4	106,620	3/4	123,621	3/4	140,612	3/4	157,602
3	4,958	3	21,959	3	38,938	3	55,946	3	72,956	3	89,965	3	106,974	3	123,975	3	140,966	3	157,956
1/4	5,311	1/4	22,313	1/4	39,292	1/4	56,301	1/4	73,311	1/4	90,320	1/4	107,328	1/4	124,329	1/4	141,320	1/4	158,310
1/2	5,664	1/2	22,668	1/2	39,646	1/2	56,655	1/2	73,665	1/2	90,674	1/2	107,683	1/2	124,683	1/2	141,674	1/2	158,664
3/4	6,017	3/4	23,022	3/4	39,999	3/4	57,009	3/4	74,019	3/4	91,028	3/4	108,037	3/4	125,037	3/4	142,028	3/4	159,018
4	6,370	4	23,377	4	40,353	4	57,364	4	74,374	4	91,383	4	108,392	4	125,391	4	142,382	4	159,372
1/4	6,724	1/4	23,731	1/4	40,708	1/4	57,718	1/4	74,728	1/4	91,737	1/4	108,746	1/4	125,745	1/4	142,736	1/4	159,726
1/2	7,078	1/2	24,085	1/2	41,062	1/2	58,072	1/2	75,083	1/2	92,091	1/2	109,100	1/2	126,099	1/2	143,090	1/2	160,080
3/4	7,431	3/4	24,440	3/4	41,416	3/4	58,427	3/4	75,437	3/4	92,446	3/4	109,455	3/4	126,453	3/4	143,444	3/4	160,434
5	7,785	5	24,794	5	41,771	5	58,781	5	75,791	5	92,800	5	109,809	5	126,807	5	143,798	5	160,788
1/4	8,139	1/4	25,148	1/4	42,125	1/4	59,136	1/4	76,146	1/4	93,154	1/4	110,163	1/4	127,161	1/4	144,152	1/4	161,142
1/2	8,493	1/2	25,503	1/2	42,480	1/2	59,490	1/2	76,500	1/2	93,509	1/2	110,518	1/2	127,515	1/2	144,506	1/2	161,496
3/4	8,848	3/4	25,857	3/4	42,834	3/4	59,844	3/4	76,854	3/4	93,863	3/4	110,872	3/4	127,869	3/4	144,860	3/4	161,850
6	9,202	6	26,212	6	43,188	6	60,199	6	77,209	6	94,217	6	111,226	6	128,223	6	145,214	6	162,204
1/4	9,556	1/4	26,565	1/4	43,543	1/4	60,553	1/4	77,563	1/4	94,572	1/4	111,581	1/4	128,577	1/4	145,567	1/4	162,558
1/2	9,910	1/2	26,918	1/2	43,897	1/2	60,907	1/2	77,917	1/2	94,926	1/2	111,935	1/2	128,931	1/2	145,921	1/2	162,912
3/4	10,265	3/4	27,272	3/4	44,251	3/4	61,262	3/4	78,272	3/4	95,281	3/4	112,289	3/4	129,285	3/4	146,275	3/4	163,266
7	10,619	7	27,625	7	44,606	7	61,616	7	78,626	7	95,635	7	112,644	7	129,639	7	146,629	7	163,620
1/4	10,973	1/4	27,979	1/4	44,960	1/4	61,971	1/4	78,980	1/4	95,989	1/4	112,998	1/4	129,993	1/4	146,983	1/4	163,974
1/2	11,328	1/2	28,332	1/2	45,315	1/2	62,325	1/2	79,335	1/2	96,344	1/2	113,352	1/2	130,347	1/2	147,337	1/2	164,328
3/4	11,682	3/4	28,686	3/4	45,669	3/4	62,679	3/4	79,689	3/4	96,698	3/4	113,707	3/4	130,701	3/4	147,691	3/4	164,682
8	12,037	8	29,039	8	46,023	8	63,034	8	80,043	8	97,052	8	114,061	8	131,055	8	148,045	8	165,036
1/4	12,391	1/4	29,393	1/4	46,378	1/4	63,388	1/4	80,398	1/4	97,407	1/4	114,416	1/4	131,409	1/4	148,399	1/4	165,390
1/2	12,745	1/2	29,746	1/2	46,732	1/2	63,743	1/2	80,752	1/2	97,761	1/2	114,770	1/2	131,763	1/2	148,753	1/2	165,744
3/4	13,100	3/4	30,100	3/4	47,087	3/4	64,097	3/4	81,106	3/4	98,115	3/4	115,124	3/4	132,117	3/4	149,107	3/4	166,098
9	13,454	9	30,453	9	47,441	9	64,451	9	81,461	9	98,470	9	115,479	9	132,471	9	149,461	9	166,452
1/4	13,808	1/4	30,807	1/4	47,795	1/4	64,806	1/4	81,815	1/4	98,824	1/4	115,833	1/4	132,825	1/4	149,815	1/4	166,806
1/2	14,163	1/2	31,160	1/2	48,150	1/2	65,160	1/2	82,170	1/2	99,178	1/2	116,187	1/2	133,179	1/2	150,169	1/2	167,160
3/4	14,517	3/4	31,514	3/4	48,504	3/4	65,514	3/4	82,524	3/4	99,533	3/4	116,542	3/4	133,533	3/4	150,523	3/4	167,514
10	14,872	10	31,867	10	48,858	10	65,869	10	82,878	10	99,887	10	116,896	10	133,887	10	150,877	10	167,868
1/4	15,226	1/4	32,221	1/4	49,213	1/4	66,223	1/4	83,233	1/4	100,241	1/4	117,250	1/4	134,240	1/4	151,231	1/4	168,103
1/2	15,580	1/2	32,574	1/2	49,567	1/2	66,578	1/2	83,587	1/2	100,596	1/2	117,604	1/2	134,594	1/2	151,585	1/2	168,339
3/4	15,935	3/4	32,928	3/4	49,922	3/4	66,932	3/4	83,941	3/4	100,950	3/4	117,958	3/4	134,948	3/4	151,939	3/4	168,575
11	16,289	11	33,281	11	50,276	11	67,286	11	84,296	11	101,305	11	118,312	11	135,302	11	152,293	11	168,811
1/4	16,643	1/4	33,635	1/4	50,630	1/4	67,641	1/4	84,650	1/4	101,659	1/4	118,666	1/4	135,656	1/4	152,647	1/4	169,047
1/2	16,998	1/2	33,988	1/2	50,985	1/2	67,995	1/2	85,004	1/2	102,013	1/2	119,020	1/2	136,010	1/2	153,001	1/2	169,283
3/4	17,352	3/4	34,342	3/4	51,339	3/4	68,350	3/4	85,359	3/4	102,368	3/4	119,374	3/4	136,364	3/4	153,355	3/4	169,518

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 LIP OF 2" "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "HFL 431"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	169,754	0	181,074	0	192,378	0	203,665	0	214,873	0		0		0		0		0	
1/4	169,990	1/4	181,310	1/4	192,613	1/4	203,900	1/4	215,055	1/4		1/4		1/4		1/4		1/4	
1/2	170,226	1/2	181,546	1/2	192,848	1/2	204,135	1/2	215,238	1/2		1/2		1/2		1/2		1/2	
3/4	170,462	3/4	181,782	3/4	193,083	3/4	204,370	3/4	215,420	3/4		3/4		3/4		3/4		3/4	
1	170,698	1	182,018	1	193,318	1	204,606	1	215,602	1		1		1		1		1	
1/4	170,933	1/4	182,253	1/4	193,554	1/4	204,841	1/4	215,734	1/4		1/4		1/4		1/4		1/4	
1/2	171,169	1/2	182,489	1/2	193,789	1/2	205,076	1/2	215,865	1/2		1/2		1/2		1/2		1/2	
3/4	171,405	3/4	182,725	3/4	194,024	3/4	205,311	3/4	215,997	3/4		3/4		3/4		3/4		3/4	
2	171,641	2	182,961	2	194,259	2	205,546	2	216,129	2		2		2		2		2	
1/4	171,877	1/4	183,197	1/4	194,494	1/4	205,781	1/4	216,210	1/4		1/4		1/4		1/4		1/4	
1/2	172,113	1/2	183,433	1/2	194,729	1/2	206,016	1/2	216,291	1/2		1/2		1/2		1/2		1/2	
3/4	172,348	3/4	183,668	3/4	194,964	3/4	206,252	3/4	216,372	3/4		3/4		3/4		3/4		3/4	
3	172,584	3	183,904	3	195,200	3	206,487	3	216,453	3		3		3		3		3	
1/4	172,820	1/4	184,140	1/4	195,435	1/4	206,722	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	173,056	1/2	184,376	1/2	195,670	1/2	206,957	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	173,292	3/4	184,612	3/4	195,905	3/4	207,192	3/4		3/4		3/4		3/4		3/4		3/4	
4	173,528	4	184,848	4	196,140	4	207,427	4		4		4		4		4		4	
1/4	173,763	1/4	185,083	1/4	196,375	1/4	207,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	173,999	1/2	185,319	1/2	196,611	1/2	207,898	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	174,235	3/4	185,555	3/4	196,846	3/4	208,133	3/4		3/4		3/4		3/4		3/4		3/4	
5	174,471	5	185,791	5	197,081	5	208,368	5		5		5		5		5		5	
1/4	174,707	1/4	186,027	1/4	197,316	1/4	208,603	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	174,943	1/2	186,263	1/2	197,551	1/2	208,838	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	175,178	3/4	186,498	3/4	197,786	3/4	209,073	3/4		3/4		3/4		3/4		3/4		3/4	
6	175,414	6	186,734	6	198,021	6	209,309	6		6		6		6		6		6	
1/4	175,650	1/4	186,969	1/4	198,257	1/4	209,541	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	175,886	1/2	187,205	1/2	198,492	1/2	209,774	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	176,122	3/4	187,440	3/4	198,727	3/4	210,007	3/4		3/4		3/4		3/4		3/4		3/4	
7	176,358	7	187,675	7	198,962	7	210,240	7		7		7		7		7		7	
1/4	176,593	1/4	187,910	1/4	199,197	1/4	210,473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	176,829	1/2	188,145	1/2	199,432	1/2	210,706	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	177,065	3/4	188,380	3/4	199,667	3/4	210,939	3/4		3/4		3/4		3/4		3/4		3/4	
8	177,301	8	188,615	8	199,903	8	211,172	8		8		8		8		8		8	
1/4	177,537	1/4	188,851	1/4	200,138	1/4	211,405	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	177,773	1/2	189,086	1/2	200,373	1/2	211,638	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	178,008	3/4	189,321	3/4	200,608	3/4	211,871	3/4		3/4		3/4		3/4		3/4		3/4	
9	178,244	9	189,556	9	200,843	9	212,103	9		9		9		9		9		9	
1/4	178,480	1/4	189,791	1/4	201,078	1/4	212,336	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	178,716	1/2	190,026	1/2	201,313	1/2	212,569	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	178,952	3/4	190,262	3/4	201,549	3/4	212,802	3/4		3/4		3/4		3/4		3/4		3/4	
10	179,188	10	190,497	10	201,784	10	213,035	10		10		10		10		10		10	
1/4	179,423	1/4	190,732	1/4	202,019	1/4	213,268	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	179,659	1/2	190,967	1/2	202,254	1/2	213,501	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	179,895	3/4	191,202	3/4	202,489	3/4	213,734	3/4		3/4		3/4		3/4		3/4		3/4	
11	180,131	11	191,437	11	202,724	11	213,967	11		11		11		11		11		11	
1/4	180,367	1/4	191,672	1/4	202,960	1/4	214,193	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	180,603	1/2	191,908	1/2	203,195	1/2	214,420	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	180,838	3/4	192,143	3/4	203,430	3/4	214,646	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/215 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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<http://www.pmacorp.net>



# BARGE "HFL 431"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-02 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	109	0	278	0	444	0		0		0		0		0		0	
1/4	1	1/4	112	1/4	281	1/4	448	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	115	1/2	285	1/2	451	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	119	3/4	289	3/4	454	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	122	1	292	1	457	1		1		1		1		1		1	
1/4	4	1/4	125	1/4	296	1/4	460	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	128	1/2	300	1/2	463	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	132	3/4	303	3/4	465	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	135	2	307	2	468	2		2		2		2		2		2	
1/4	10	1/4	138	1/4	311	1/4	471	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	142	1/2	314	1/2	474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	145	3/4	318	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	149	3	321	3	480	3		3		3		3		3		3	
1/4	16	1/4	152	1/4	325	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	18	1/2	156	1/2	329	1/2	485	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	20	3/4	159	3/4	332	3/4	488	3/4		3/4		3/4		3/4		3/4		3/4	
4	22	4	162	4	336	4	490	4		4		4		4		4		4	
1/4	24	1/4	166	1/4	339	1/4	493	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	169	1/2	343	1/2	495	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	173	3/4	347	3/4	498	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	176	5	350	5	501	5		5		5		5		5		5	
1/4	33	1/4	180	1/4	354	1/4	503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	183	1/2	357	1/2	505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	38	3/4	187	3/4	361	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
6	40	6	191	6	364	6	510	6		6		6		6		6		6	
1/4	43	1/4	194	1/4	368	1/4	512	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	45	1/2	198	1/2	371	1/2	514	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	48	3/4	201	3/4	375	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	
7	50	7	205	7	378	7	519	7		7		7		7		7		7	
1/4	53	1/4	208	1/4	382	1/4	520	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	212	1/2	385	1/2	522	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	58	3/4	216	3/4	389	3/4	524	3/4		3/4		3/4		3/4		3/4		3/4	
8	61	8	219	8	392	8	526	8		8		8		8		8		8	
1/4	64	1/4	223	1/4	396	1/4	528	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	67	1/2	227	1/2	399	1/2	530	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	70	3/4	230	3/4	402	3/4	531	3/4		3/4		3/4		3/4		3/4		3/4	
9	72	9	234	9	406	9	533	9		9		9		9		9		9	
1/4	75	1/4	237	1/4	409	1/4	534	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	78	1/2	241	1/2	412	1/2	535	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	81	3/4	245	3/4	416	3/4	537	3/4		3/4		3/4		3/4		3/4		3/4	
10	84	10	248	10	419	10	538	10		10		10		10		10		10	
1/4	87	1/4	252	1/4	422	1/4	539	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	90	1/2	256	1/2	425	1/2	539	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	93	3/4	259	3/4	429	3/4	540	3/4		3/4		3/4		3/4		3/4		3/4	
11	96	11	263	11	432	11	541	11		11		11		11		11		11	
1/4	99	1/4	267	1/4	435	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	103	1/2	270	1/2	438	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	106	3/4	274	3/4	441	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 03/05/2015 SW  
CALCULATED: 03/05/2015 CL  
PRINTED: 03/05/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HFL 431"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09 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	94	0	4,599	0	9,104	0	13,609	0	18,113	0		0		0		0		0	
1/4	188	1/4	4,693	1/4	9,198	1/4	13,703	1/4	18,205	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	4,787	1/2	9,292	1/2	13,797	1/2	18,298	1/2		1/2		1/2		1/2		1/2	
3/4	375	3/4	4,881	3/4	9,386	3/4	13,891	3/4	18,390	3/4		3/4		3/4		3/4		3/4	
1	469	1	4,974	1	9,480	1	13,985	1	18,483	1		1		1		1		1	
1/4	563	1/4	5,068	1/4	9,573	1/4	14,078	1/4	18,575	1/4		1/4		1/4		1/4		1/4	
1/2	657	1/2	5,162	1/2	9,667	1/2	14,172	1/2	18,668	1/2		1/2		1/2		1/2		1/2	
3/4	751	3/4	5,256	3/4	9,761	3/4	14,266	3/4	18,760	3/4		3/4		3/4		3/4		3/4	
2	845	2	5,350	2	9,855	2	14,360	2	18,852	2		2		2		2		2	
1/4	939	1/4	5,444	1/4	9,949	1/4	14,454	1/4	18,945	1/4		1/4		1/4		1/4		1/4	
1/2	1,032	1/2	5,538	1/2	10,043	1/2	14,548	1/2	19,037	1/2		1/2		1/2		1/2		1/2	
3/4	1,126	3/4	5,631	3/4	10,137	3/4	14,642	3/4	19,130	3/4		3/4		3/4		3/4		3/4	
3	1,220	3	5,725	3	10,230	3	14,735	3	19,222	3		3		3		3		3	
1/4	1,314	1/4	5,819	1/4	10,324	1/4	14,829	1/4	19,315	1/4		1/4		1/4		1/4		1/4	
1/2	1,408	1/2	5,913	1/2	10,418	1/2	14,923	1/2	19,407	1/2		1/2		1/2		1/2		1/2	
3/4	1,502	3/4	6,007	3/4	10,512	3/4	15,017	3/4	19,500	3/4		3/4		3/4		3/4		3/4	
4	1,596	4	6,101	4	10,606	4	15,111	4	19,592	4		4		4		4		4	
1/4	1,689	1/4	6,195	1/4	10,700	1/4	15,205	1/4	19,684	1/4		1/4		1/4		1/4		1/4	
1/2	1,783	1/2	6,288	1/2	10,794	1/2	15,299	1/2	19,777	1/2		1/2		1/2		1/2		1/2	
3/4	1,877	3/4	6,382	3/4	10,887	3/4	15,392	3/4	19,869	3/4		3/4		3/4		3/4		3/4	
5	1,971	5	6,476	5	10,981	5	15,486	5	19,962	5		5		5		5		5	
1/4	2,065	1/4	6,570	1/4	11,075	1/4	15,580	1/4	20,054	1/4		1/4		1/4		1/4		1/4	
1/2	2,159	1/2	6,664	1/2	11,169	1/2	15,674	1/2	20,147	1/2		1/2		1/2		1/2		1/2	
3/4	2,253	3/4	6,758	3/4	11,263	3/4	15,768	3/4	20,239	3/4		3/4		3/4		3/4		3/4	
6	2,346	6	6,852	6	11,357	6	15,862	6	20,333	6		6		6		6		6	
1/4	2,440	1/4	6,945	1/4	11,451	1/4	15,956	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,534	1/2	7,039	1/2	11,544	1/2	16,049	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,628	3/4	7,133	3/4	11,638	3/4	16,143	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,722	7	7,227	7	11,732	7	16,237	7		7		7		7		7		7	
1/4	2,816	1/4	7,321	1/4	11,826	1/4	16,331	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,910	1/2	7,415	1/2	11,920	1/2	16,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,003	3/4	7,509	3/4	12,014	3/4	16,519	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,097	8	7,602	8	12,107	8	16,613	8		8		8		8		8		8	
1/4	3,191	1/4	7,696	1/4	12,201	1/4	16,706	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,285	1/2	7,790	1/2	12,295	1/2	16,800	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,379	3/4	7,884	3/4	12,389	3/4	16,894	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,473	9	7,978	9	12,483	9	16,988	9		9		9		9		9		9	
1/4	3,567	1/4	8,072	1/4	12,577	1/4	17,082	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660	1/2	8,166	1/2	12,671	1/2	17,176	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754	3/4	8,259	3/4	12,764	3/4	17,270	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,848	10	8,353	10	12,858	10	17,363	10		10		10		10		10		10	
1/4	3,942	1/4	8,447	1/4	12,952	1/4	17,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036	1/2	8,541	1/2	13,046	1/2	17,551	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,130	3/4	8,635	3/4	13,140	3/4	17,645	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,224	11	8,729	11	13,234	11	17,739	11		11		11		11		11		11	
1/4	4,317	1/4	8,823	1/4	13,328	1/4	17,833	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,411	1/2	8,916	1/2	13,421	1/2	17,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,505	3/4	9,010	3/4	13,515	3/4	18,020	3/4		3/4		3/4		3/4		3/4		3/4	

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

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& ANALYSIS, INC.  
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Pearland, Texas 77588  
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# BARGE "HFL 431"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-09 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	94	0	4,599	0	9,104	0	13,609	0	18,113	0		0		0		0		0	
1/4	188	1/4	4,693	1/4	9,198	1/4	13,703	1/4	18,205	1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	4,787	1/2	9,292	1/2	13,797	1/2	18,298	1/2		1/2		1/2		1/2		1/2	
3/4	375	3/4	4,881	3/4	9,386	3/4	13,891	3/4	18,390	3/4		3/4		3/4		3/4		3/4	
1	469	1	4,974	1	9,480	1	13,985	1	18,483	1		1		1		1		1	
1/4	563	1/4	5,068	1/4	9,573	1/4	14,078	1/4	18,575	1/4		1/4		1/4		1/4		1/4	
1/2	657	1/2	5,162	1/2	9,667	1/2	14,172	1/2	18,668	1/2		1/2		1/2		1/2		1/2	
3/4	751	3/4	5,256	3/4	9,761	3/4	14,266	3/4	18,760	3/4		3/4		3/4		3/4		3/4	
2	845	2	5,350	2	9,855	2	14,360	2	18,852	2		2		2		2		2	
1/4	939	1/4	5,444	1/4	9,949	1/4	14,454	1/4	18,945	1/4		1/4		1/4		1/4		1/4	
1/2	1,032	1/2	5,538	1/2	10,043	1/2	14,548	1/2	19,037	1/2		1/2		1/2		1/2		1/2	
3/4	1,126	3/4	5,631	3/4	10,137	3/4	14,642	3/4	19,130	3/4		3/4		3/4		3/4		3/4	
3	1,220	3	5,725	3	10,230	3	14,735	3	19,222	3		3		3		3		3	
1/4	1,314	1/4	5,819	1/4	10,324	1/4	14,829	1/4	19,315	1/4		1/4		1/4		1/4		1/4	
1/2	1,408	1/2	5,913	1/2	10,418	1/2	14,923	1/2	19,407	1/2		1/2		1/2		1/2		1/2	
3/4	1,502	3/4	6,007	3/4	10,512	3/4	15,017	3/4	19,500	3/4		3/4		3/4		3/4		3/4	
4	1,596	4	6,101	4	10,606	4	15,111	4	19,592	4		4		4		4		4	
1/4	1,689	1/4	6,195	1/4	10,700	1/4	15,205	1/4	19,684	1/4		1/4		1/4		1/4		1/4	
1/2	1,783	1/2	6,288	1/2	10,794	1/2	15,299	1/2	19,777	1/2		1/2		1/2		1/2		1/2	
3/4	1,877	3/4	6,382	3/4	10,887	3/4	15,392	3/4	19,869	3/4		3/4		3/4		3/4		3/4	
5	1,971	5	6,476	5	10,981	5	15,486	5	19,962	5		5		5		5		5	
1/4	2,065	1/4	6,570	1/4	11,075	1/4	15,580	1/4	20,054	1/4		1/4		1/4		1/4		1/4	
1/2	2,159	1/2	6,664	1/2	11,169	1/2	15,674	1/2	20,147	1/2		1/2		1/2		1/2		1/2	
3/4	2,253	3/4	6,758	3/4	11,263	3/4	15,768	3/4	20,239	3/4		3/4		3/4		3/4		3/4	
6	2,346	6	6,852	6	11,357	6	15,862	6	20,333	6		6		6		6		6	
1/4	2,440	1/4	6,945	1/4	11,451	1/4	15,956	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,534	1/2	7,039	1/2	11,544	1/2	16,049	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,628	3/4	7,133	3/4	11,638	3/4	16,143	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,722	7	7,227	7	11,732	7	16,237	7		7		7		7		7		7	
1/4	2,816	1/4	7,321	1/4	11,826	1/4	16,331	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,910	1/2	7,415	1/2	11,920	1/2	16,425	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,003	3/4	7,509	3/4	12,014	3/4	16,519	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,097	8	7,602	8	12,107	8	16,613	8		8		8		8		8		8	
1/4	3,191	1/4	7,696	1/4	12,201	1/4	16,706	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,285	1/2	7,790	1/2	12,295	1/2	16,800	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,379	3/4	7,884	3/4	12,389	3/4	16,894	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,473	9	7,978	9	12,483	9	16,988	9		9		9		9		9		9	
1/4	3,567	1/4	8,072	1/4	12,577	1/4	17,082	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,660	1/2	8,166	1/2	12,671	1/2	17,176	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754	3/4	8,259	3/4	12,764	3/4	17,270	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,848	10	8,353	10	12,858	10	17,363	10		10		10		10		10		10	
1/4	3,942	1/4	8,447	1/4	12,952	1/4	17,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,036	1/2	8,541	1/2	13,046	1/2	17,551	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,130	3/4	8,635	3/4	13,140	3/4	17,645	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,224	11	8,729	11	13,234	11	17,739	11		11		11		11		11		11	
1/4	4,317	1/4	8,823	1/4	13,328	1/4	17,833	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,411	1/2	8,916	1/2	13,421	1/2	17,927	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,505	3/4	9,010	3/4	13,515	3/4	18,020	3/4		3/4		3/4		3/4		3/4		3/4	

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