



BARGE "HFL 437"

INNAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 2, 2015

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 437"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,026	0	15,610	0	30,592	0	45,559	0	60,540	0	75,523	0	90,505	0	105,488	0	120,454	0	135,417
1/4	1,260	1/4	15,922	1/4	30,904	1/4	45,870	1/4	60,852	1/4	75,835	1/4	90,818	1/4	105,800	1/4	120,766	1/4	135,729
1/2	1,494	1/2	16,234	1/2	31,217	1/2	46,182	1/2	61,164	1/2	76,147	1/2	91,130	1/2	106,113	1/2	121,078	1/2	136,041
3/4	1,728	3/4	16,546	3/4	31,529	3/4	46,494	3/4	61,476	3/4	76,459	3/4	91,442	3/4	106,425	3/4	121,390	3/4	136,352
1	1,962	1	16,858	1	31,841	1	46,806	1	61,788	1	76,771	1	91,754	1	106,737	1	121,701	1	136,664
1/4	2,254	1/4	17,171	1/4	32,153	1/4	47,118	1/4	62,101	1/4	77,083	1/4	92,066	1/4	107,049	1/4	122,013	1/4	136,976
1/2	2,546	1/2	17,483	1/2	32,465	1/2	47,430	1/2	62,413	1/2	77,395	1/2	92,378	1/2	107,361	1/2	122,325	1/2	137,288
3/4	2,838	3/4	17,795	3/4	32,777	3/4	47,742	3/4	62,725	3/4	77,708	3/4	92,690	3/4	107,673	3/4	122,637	3/4	137,599
2	3,130	2	18,107	2	33,089	2	48,054	2	63,037	2	78,020	2	93,003	2	107,985	2	122,948	2	137,911
1/4	3,441	1/4	18,419	1/4	33,401	1/4	48,366	1/4	63,349	1/4	78,332	1/4	93,315	1/4	108,297	1/4	123,260	1/4	138,223
1/2	3,752	1/2	18,731	1/2	33,714	1/2	48,678	1/2	63,661	1/2	78,644	1/2	93,627	1/2	108,608	1/2	123,572	1/2	138,535
3/4	4,063	3/4	19,043	3/4	34,026	3/4	48,991	3/4	63,973	3/4	78,956	3/4	93,939	3/4	108,920	3/4	123,883	3/4	138,846
3	4,374	3	19,356	3	34,338	3	49,303	3	64,286	3	79,268	3	94,251	3	109,232	3	124,195	3	139,158
1/4	4,686	1/4	19,668	1/4	34,650	1/4	49,615	1/4	64,598	1/4	79,580	1/4	94,563	1/4	109,544	1/4	124,507	1/4	139,470
1/2	4,998	1/2	19,980	1/2	34,962	1/2	49,927	1/2	64,910	1/2	79,893	1/2	94,875	1/2	109,856	1/2	124,819	1/2	139,781
3/4	5,310	3/4	20,292	3/4	35,274	3/4	50,239	3/4	65,222	3/4	80,205	3/4	95,188	3/4	110,167	3/4	125,130	3/4	140,093
4	5,622	4	20,604	4	35,585	4	50,551	4	65,534	4	80,517	4	95,500	4	110,479	4	125,442	4	140,405
1/4	5,934	1/4	20,916	1/4	35,897	1/4	50,863	1/4	65,846	1/4	80,829	1/4	95,812	1/4	110,791	1/4	125,754	1/4	140,717
1/2	6,246	1/2	21,228	1/2	36,209	1/2	51,176	1/2	66,158	1/2	81,141	1/2	96,124	1/2	111,103	1/2	126,066	1/2	141,028
3/4	6,558	3/4	21,540	3/4	36,520	3/4	51,488	3/4	66,471	3/4	81,453	3/4	96,436	3/4	111,414	3/4	126,377	3/4	141,340
5	6,870	5	21,853	5	36,832	5	51,800	5	66,783	5	81,765	5	96,748	5	111,726	5	126,689	5	141,652
1/4	7,182	1/4	22,165	1/4	37,144	1/4	52,112	1/4	67,095	1/4	82,078	1/4	97,060	1/4	112,038	1/4	127,001	1/4	141,963
1/2	7,494	1/2	22,477	1/2	37,455	1/2	52,424	1/2	67,407	1/2	82,390	1/2	97,373	1/2	112,350	1/2	127,312	1/2	142,274
3/4	7,807	3/4	22,789	3/4	37,767	3/4	52,736	3/4	67,719	3/4	82,702	3/4	97,685	3/4	112,661	3/4	127,624	3/4	142,586
6	8,119	6	23,101	6	38,079	6	53,048	6	68,031	6	83,014	6	97,997	6	112,973	6	127,936	6	142,897
1/4	8,431	1/4	23,413	1/4	38,390	1/4	53,361	1/4	68,343	1/4	83,326	1/4	98,309	1/4	113,285	1/4	128,248	1/4	143,204
1/2	8,743	1/2	23,725	1/2	38,702	1/2	53,673	1/2	68,655	1/2	83,638	1/2	98,621	1/2	113,596	1/2	128,559	1/2	143,511
3/4	9,055	3/4	24,037	3/4	39,014	3/4	53,985	3/4	68,968	3/4	83,950	3/4	98,933	3/4	113,908	3/4	128,871	3/4	143,818
7	9,367	7	24,350	7	39,325	7	54,297	7	69,280	7	84,263	7	99,245	7	114,220	7	129,183	7	144,125
1/4	9,679	1/4	24,662	1/4	39,637	1/4	54,609	1/4	69,592	1/4	84,575	1/4	99,558	1/4	114,532	1/4	129,495	1/4	144,420
1/2	9,992	1/2	24,974	1/2	39,948	1/2	54,921	1/2	69,904	1/2	84,887	1/2	99,870	1/2	114,843	1/2	129,806	1/2	144,715
3/4	10,304	3/4	25,286	3/4	40,260	3/4	55,233	3/4	70,216	3/4	85,199	3/4	100,182	3/4	115,155	3/4	130,118	3/4	145,009
8	10,616	8	25,598	8	40,572	8	55,546	8	70,528	8	85,511	8	100,494	8	115,467	8	130,430	8	145,304
1/4	10,928	1/4	25,910	1/4	40,883	1/4	55,858	1/4	70,840	1/4	85,823	1/4	100,806	1/4	115,779	1/4	130,741	1/4	145,583
1/2	11,240	1/2	26,222	1/2	41,195	1/2	56,170	1/2	71,153	1/2	86,135	1/2	101,118	1/2	116,090	1/2	131,053	1/2	145,861
3/4	11,552	3/4	26,535	3/4	41,507	3/4	56,482	3/4	71,465	3/4	86,448	3/4	101,430	3/4	116,402	3/4	131,365	3/4	146,140
9	11,864	9	26,847	9	41,818	9	56,794	9	71,777	9	86,760	9	101,743	9	116,714	9	131,677	9	146,418
1/4	12,176	1/4	27,159	1/4	42,130	1/4	57,106	1/4	72,089	1/4	87,072	1/4	102,055	1/4	117,025	1/4	131,988	1/4	146,681
1/2	12,489	1/2	27,471	1/2	42,442	1/2	57,418	1/2	72,401	1/2	87,384	1/2	102,367	1/2	117,337	1/2	132,300	1/2	146,944
3/4	12,801	3/4	27,783	3/4	42,753	3/4	57,731	3/4	72,713	3/4	87,696	3/4	102,679	3/4	117,649	3/4	132,612	3/4	147,206
10	13,113	10	28,095	10	43,065	10	58,043	10	73,025	10	88,008	10	102,991	10	117,961	10	132,923	10	147,469
1/4	13,425	1/4	28,407	1/4	43,377	1/4	58,355	1/4	73,338	1/4	88,320	1/4	103,303	1/4	118,272	1/4	133,235	1/4	147,716
1/2	13,737	1/2	28,719	1/2	43,688	1/2	58,667	1/2	73,650	1/2	88,633	1/2	103,615	1/2	118,584	1/2	133,547	1/2	147,962
3/4	14,049	3/4	29,032	3/4	44,000	3/4	58,979	3/4	73,962	3/4	88,945	3/4	103,928	3/4	118,896	3/4	133,859	3/4	148,209
11	14,361	11	29,344	11	44,312	11	59,291	11	74,274	11	89,257	11	104,240	11	119,208	11	134,170	11	148,456
1/4	14,674	1/4	29,656	1/4	44,623	1/4	59,603	1/4	74,586	1/4	89,569	1/4	104,552	1/4	119,519	1/4	134,482	1/4	148,687
1/2	14,986	1/2	29,968	1/2	44,935	1/2	59,916	1/2	74,898	1/2	89,881	1/2	104,864	1/2	119,831	1/2	134,794	1/2	148,917
3/4	15,298	3/4	30,280	3/4	45,247	3/4	60,228	3/4	75,210	3/4	90,193	3/4	105,176	3/4	120,143	3/4	135,106	3/4	149,148

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 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HFL 437"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,378	0	159,736	0	170,073	0	180,380	0	190,673	0		0		0		0		0	
1/4	149,597	1/4	159,952	1/4	170,287	1/4	180,595	1/4	190,866	1/4		1/4		1/4		1/4		1/4	
1/2	149,816	1/2	160,167	1/2	170,502	1/2	180,810	1/2	191,058	1/2		1/2		1/2		1/2		1/2	
3/4	150,036	3/4	160,383	3/4	170,717	3/4	181,024	3/4	191,251	3/4		3/4		3/4		3/4		3/4	
1	150,255	1	160,598	1	170,932	1	181,239	1	191,444	1		1		1		1		1	
1/4	150,470	1/4	160,814	1/4	171,146	1/4	181,454	1/4	191,603	1/4		1/4		1/4		1/4		1/4	
1/2	150,686	1/2	161,029	1/2	171,361	1/2	181,669	1/2	191,762	1/2		1/2		1/2		1/2		1/2	
3/4	150,901	3/4	161,245	3/4	171,576	3/4	181,883	3/4	191,921	3/4		3/4		3/4		3/4		3/4	
2	151,117	2	161,460	2	171,791	2	182,098	2	192,081	2		2		2		2		2	
1/4	151,332	1/4	161,676	1/4	172,005	1/4	182,313	1/4	192,204	1/4		1/4		1/4		1/4		1/4	
1/2	151,548	1/2	161,891	1/2	172,220	1/2	182,528	1/2	192,327	1/2		1/2		1/2		1/2		1/2	
3/4	151,763	3/4	162,107	3/4	172,435	3/4	182,742	3/4	192,451	3/4		3/4		3/4		3/4		3/4	
3	151,979	3	162,322	3	172,650	3	182,957	3	192,574	3		3		3		3		3	
1/4	152,194	1/4	162,538	1/4	172,864	1/4	183,172	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,410	1/2	162,753	1/2	173,079	1/2	183,387	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,625	3/4	162,969	3/4	173,294	3/4	183,601	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,841	4	163,184	4	173,509	4	183,816	4		4		4		4		4		4	
1/4	153,056	1/4	163,400	1/4	173,723	1/4	184,031	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,272	1/2	163,615	1/2	173,938	1/2	184,245	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,487	3/4	163,831	3/4	174,153	3/4	184,460	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,703	5	164,046	5	174,368	5	184,675	5		5		5		5		5		5	
1/4	153,918	1/4	164,262	1/4	174,582	1/4	184,890	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,134	1/2	164,477	1/2	174,797	1/2	185,104	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,349	3/4	164,693	3/4	175,012	3/4	185,319	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,565	6	164,908	6	175,226	6	185,534	6		6		6		6		6		6	
1/4	154,780	1/4	165,124	1/4	175,441	1/4	185,749	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,996	1/2	165,339	1/2	175,656	1/2	185,963	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,211	3/4	165,555	3/4	175,871	3/4	186,178	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,427	7	165,770	7	176,085	7	186,393	7		7		7		7		7		7	
1/4	155,642	1/4	165,986	1/4	176,300	1/4	186,608	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,858	1/2	166,201	1/2	176,515	1/2	186,822	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,073	3/4	166,417	3/4	176,730	3/4	187,037	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,288	8	166,632	8	176,944	8	187,252	8		8		8		8		8		8	
1/4	156,504	1/4	166,848	1/4	177,159	1/4	187,467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,719	1/2	167,063	1/2	177,374	1/2	187,682	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,935	3/4	167,279	3/4	177,589	3/4	187,897	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,150	9	167,494	9	177,803	9	188,111	9		9		9		9		9		9	
1/4	157,366	1/4	167,709	1/4	178,018	1/4	188,326	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,581	1/2	167,925	1/2	178,233	1/2	188,541	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,797	3/4	168,140	3/4	178,448	3/4	188,756	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,012	10	168,355	10	178,662	10	188,971	10		10		10		10		10		10	
1/4	158,228	1/4	168,570	1/4	178,877	1/4	189,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,443	1/2	168,784	1/2	179,092	1/2	189,400	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,659	3/4	168,999	3/4	179,306	3/4	189,614	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,874	11	169,214	11	179,521	11	189,829	11		11		11		11		11		11	
1/4	159,090	1/4	169,429	1/4	179,736	1/4	190,040	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,305	1/2	169,643	1/2	179,951	1/2	190,251	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,521	3/4	169,858	3/4	180,165	3/4	190,462	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 437"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	1,025	0	15,591	0	30,539	0	45,259	0	59,777	0	74,646	0	89,572	0	104,510	0	119,437	0	134,361
1/4	1,259	1/4	15,902	1/4	30,851	1/4	45,560	1/4	60,088	1/4	74,956	1/4	89,883	1/4	104,821	1/4	119,748	1/4	134,672
1/2	1,493	1/2	16,214	1/2	31,162	1/2	45,861	1/2	60,399	1/2	75,265	1/2	90,194	1/2	105,132	1/2	120,059	1/2	134,983
3/4	1,727	3/4	16,525	3/4	31,473	3/4	46,162	3/4	60,710	3/4	75,575	3/4	90,505	3/4	105,444	3/4	120,370	3/4	135,294
1	1,961	1	16,837	1	31,785	1	46,463	1	61,021	1	75,884	1	90,816	1	105,755	1	120,681	1	135,605
1/4	2,253	1/4	17,148	1/4	32,096	1/4	46,764	1/4	61,332	1/4	76,194	1/4	91,128	1/4	106,066	1/4	120,992	1/4	135,916
1/2	2,544	1/2	17,460	1/2	32,408	1/2	47,065	1/2	61,643	1/2	76,503	1/2	91,439	1/2	106,377	1/2	121,303	1/2	136,227
3/4	2,836	3/4	17,771	3/4	32,719	3/4	47,366	3/4	61,954	3/4	76,813	3/4	91,750	3/4	106,689	3/4	121,614	3/4	136,538
2	3,128	2	18,083	2	33,031	2	47,668	2	62,266	2	77,122	2	92,061	2	107,000	2	121,925	2	136,849
1/4	3,439	1/4	18,394	1/4	33,342	1/4	47,969	1/4	62,576	1/4	77,432	1/4	92,372	1/4	107,311	1/4	122,235	1/4	137,160
1/2	3,750	1/2	18,706	1/2	33,654	1/2	48,271	1/2	62,886	1/2	77,743	1/2	92,683	1/2	107,622	1/2	122,546	1/2	137,471
3/4	4,061	3/4	19,017	3/4	33,965	3/4	48,572	3/4	63,196	3/4	78,053	3/4	92,994	3/4	107,933	3/4	122,857	3/4	137,781
3	4,372	3	19,328	3	34,277	3	48,874	3	63,507	3	78,364	3	93,305	3	108,244	3	123,168	3	138,092
1/4	4,683	1/4	19,640	1/4	34,587	1/4	49,176	1/4	63,816	1/4	78,675	1/4	93,616	1/4	108,555	1/4	123,479	1/4	138,403
1/2	4,995	1/2	19,951	1/2	34,898	1/2	49,477	1/2	64,125	1/2	78,986	1/2	93,927	1/2	108,866	1/2	123,790	1/2	138,714
3/4	5,306	3/4	20,263	3/4	35,209	3/4	49,779	3/4	64,435	3/4	79,298	3/4	94,238	3/4	109,177	3/4	124,101	3/4	139,025
4	5,618	4	20,574	4	35,520	4	50,081	4	64,744	4	79,609	4	94,549	4	109,488	4	124,412	4	139,336
1/4	5,930	1/4	20,886	1/4	35,828	1/4	50,382	1/4	65,054	1/4	79,921	1/4	94,861	1/4	109,799	1/4	124,723	1/4	139,647
1/2	6,241	1/2	21,197	1/2	36,135	1/2	50,684	1/2	65,363	1/2	80,232	1/2	95,172	1/2	110,110	1/2	125,034	1/2	139,958
3/4	6,553	3/4	21,509	3/4	36,442	3/4	50,985	3/4	65,673	3/4	80,543	3/4	95,483	3/4	110,421	3/4	125,345	3/4	140,269
5	6,865	5	21,820	5	36,750	5	51,287	5	65,982	5	80,855	5	95,794	5	110,731	5	125,656	5	140,579
1/4	7,176	1/4	22,132	1/4	37,054	1/4	51,589	1/4	66,292	1/4	81,166	1/4	96,105	1/4	111,042	1/4	125,967	1/4	140,890
1/2	7,488	1/2	22,443	1/2	37,358	1/2	51,890	1/2	66,601	1/2	81,478	1/2	96,416	1/2	111,353	1/2	126,277	1/2	141,201
3/4	7,800	3/4	22,755	3/4	37,662	3/4	52,192	3/4	66,910	3/4	81,789	3/4	96,727	3/4	111,664	3/4	126,588	3/4	141,511
6	8,111	6	23,066	6	37,966	6	52,493	6	67,220	6	82,100	6	97,038	6	111,975	6	126,899	6	141,822
1/4	8,423	1/4	23,377	1/4	38,270	1/4	52,795	1/4	67,529	1/4	82,412	1/4	97,349	1/4	112,286	1/4	127,210	1/4	142,128
1/2	8,735	1/2	23,689	1/2	38,574	1/2	53,097	1/2	67,839	1/2	82,723	1/2	97,661	1/2	112,597	1/2	127,521	1/2	142,434
3/4	9,047	3/4	24,000	3/4	38,879	3/4	53,398	3/4	68,148	3/4	83,035	3/4	97,972	3/4	112,908	3/4	127,832	3/4	142,741
7	9,359	7	24,312	7	39,183	7	53,700	7	68,458	7	83,346	7	98,283	7	113,219	7	128,143	7	143,047
1/4	9,671	1/4	24,623	1/4	39,487	1/4	54,002	1/4	68,767	1/4	83,657	1/4	98,594	1/4	113,530	1/4	128,454	1/4	143,341
1/2	9,983	1/2	24,935	1/2	39,791	1/2	54,303	1/2	69,077	1/2	83,969	1/2	98,906	1/2	113,841	1/2	128,765	1/2	143,635
3/4	10,295	3/4	25,246	3/4	40,095	3/4	54,605	3/4	69,386	3/4	84,280	3/4	99,217	3/4	114,152	3/4	129,076	3/4	143,928
8	10,607	8	25,558	8	40,399	8	54,906	8	69,695	8	84,592	8	99,528	8	114,462	8	129,387	8	144,222
1/4	10,918	1/4	25,869	1/4	40,704	1/4	55,208	1/4	70,005	1/4	84,903	1/4	99,840	1/4	114,773	1/4	129,698	1/4	144,500
1/2	11,230	1/2	26,180	1/2	41,008	1/2	55,510	1/2	70,314	1/2	85,214	1/2	100,151	1/2	115,084	1/2	130,008	1/2	144,778
3/4	11,542	3/4	26,492	3/4	41,312	3/4	55,811	3/4	70,624	3/4	85,526	3/4	100,462	3/4	115,395	3/4	130,319	3/4	145,056
9	11,853	9	26,803	9	41,616	9	56,113	9	70,933	9	85,837	9	100,774	9	115,706	9	130,630	9	145,334
1/4	12,165	1/4	27,115	1/4	41,920	1/4	56,416	1/4	71,243	1/4	86,149	1/4	101,085	1/4	116,017	1/4	130,941	1/4	145,596
1/2	12,476	1/2	27,426	1/2	42,224	1/2	56,719	1/2	71,552	1/2	86,460	1/2	101,396	1/2	116,328	1/2	131,252	1/2	145,858
3/4	12,788	3/4	27,737	3/4	42,528	3/4	57,023	3/4	71,861	3/4	86,771	3/4	101,708	3/4	116,639	3/4	131,563	3/4	146,120
10	13,099	10	28,048	10	42,833	10	57,326	10	72,171	10	87,083	10	102,019	10	116,950	10	131,874	10	146,382
1/4	13,411	1/4	28,360	1/4	43,137	1/4	57,631	1/4	72,480	1/4	87,394	1/4	102,330	1/4	117,261	1/4	132,185	1/4	146,629
1/2	13,722	1/2	28,671	1/2	43,441	1/2	57,935	1/2	72,790	1/2	87,705	1/2	102,642	1/2	117,572	1/2	132,496	1/2	146,875
3/4	14,034	3/4	28,982	3/4	43,745	3/4	58,240	3/4	73,099	3/4	88,017	3/4	102,953	3/4	117,883	3/4	132,807	3/4	147,122
11	14,345	11	29,294	11	44,049	11	58,545	11	73,409	11	88,328	11	103,264	11	118,194	11	133,118	11	147,368
1/4	14,657	1/4	29,605	1/4	44,352	1/4	58,853	1/4	73,718	1/4	88,639	1/4	103,576	1/4	118,504	1/4	133,429	1/4	147,599
1/2	14,968	1/2	29,916	1/2	44,654	1/2	59,161	1/2	74,028	1/2	88,950	1/2	103,887	1/2	118,815	1/2	133,740	1/2	147,829
3/4	15,279	3/4	30,228	3/4	44,957	3/4	59,469	3/4	74,337	3/4	89,261	3/4	104,198	3/4	119,126	3/4	134,050	3/4	148,060

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 10'-09" OFF CENTERLINE AND 43'-0" 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 437"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	148,290	0	158,644	0	168,976	0	179,280	0	189,569	0		0		0		0		0	
1/4	148,509	1/4	158,860	1/4	169,191	1/4	179,494	1/4	189,761	1/4		1/4		1/4		1/4		1/4	
1/2	148,728	1/2	159,075	1/2	169,406	1/2	179,709	1/2	189,954	1/2		1/2		1/2		1/2		1/2	
3/4	148,947	3/4	159,290	3/4	169,620	3/4	179,924	3/4	190,146	3/4		3/4		3/4		3/4		3/4	
1	149,166	1	159,506	1	169,835	1	180,138	1	190,339	1		1		1		1		1	
1/4	149,381	1/4	159,721	1/4	170,050	1/4	180,353	1/4	190,498	1/4		1/4		1/4		1/4		1/4	
1/2	149,597	1/2	159,937	1/2	170,264	1/2	180,568	1/2	190,657	1/2		1/2		1/2		1/2		1/2	
3/4	149,812	3/4	160,152	3/4	170,479	3/4	180,782	3/4	190,816	3/4		3/4		3/4		3/4		3/4	
2	150,028	2	160,367	2	170,694	2	180,997	2	190,976	2		2		2		2		2	
1/4	150,243	1/4	160,583	1/4	170,908	1/4	181,212	1/4	191,099	1/4		1/4		1/4		1/4		1/4	
1/2	150,458	1/2	160,798	1/2	171,123	1/2	181,426	1/2	191,222	1/2		1/2		1/2		1/2		1/2	
3/4	150,674	3/4	161,014	3/4	171,338	3/4	181,641	3/4	191,346	3/4		3/4		3/4		3/4		3/4	
3	150,889	3	161,229	3	171,552	3	181,856	3	191,469	3		3		3		3		3	
1/4	151,105	1/4	161,445	1/4	171,767	1/4	182,070	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,320	1/2	161,660	1/2	171,982	1/2	182,285	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,536	3/4	161,875	3/4	172,196	3/4	182,500	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,751	4	162,091	4	172,411	4	182,714	4		4		4		4		4		4	
1/4	151,966	1/4	162,306	1/4	172,625	1/4	182,929	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,182	1/2	162,522	1/2	172,840	1/2	183,144	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,397	3/4	162,737	3/4	173,055	3/4	183,358	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,613	5	162,952	5	173,269	5	183,573	5		5		5		5		5		5	
1/4	152,828	1/4	163,168	1/4	173,484	1/4	183,787	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,043	1/2	163,383	1/2	173,699	1/2	184,002	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,259	3/4	163,599	3/4	173,913	3/4	184,217	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,474	6	163,814	6	174,128	6	184,431	6		6		6		6		6		6	
1/4	153,690	1/4	164,029	1/4	174,343	1/4	184,646	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,905	1/2	164,245	1/2	174,557	1/2	184,861	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,120	3/4	164,460	3/4	174,772	3/4	185,075	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,336	7	164,676	7	174,987	7	185,290	7		7		7		7		7		7	
1/4	154,551	1/4	164,891	1/4	175,201	1/4	185,505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,767	1/2	165,107	1/2	175,416	1/2	185,719	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,982	3/4	165,322	3/4	175,631	3/4	185,934	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,198	8	165,537	8	175,845	8	186,149	8		8		8		8		8		8	
1/4	155,413	1/4	165,753	1/4	176,060	1/4	186,364	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,628	1/2	165,968	1/2	176,275	1/2	186,578	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,844	3/4	166,184	3/4	176,489	3/4	186,793	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,059	9	166,399	9	176,704	9	187,008	9		9		9		9		9		9	
1/4	156,275	1/4	166,614	1/4	176,919	1/4	187,223	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,490	1/2	166,829	1/2	177,133	1/2	187,437	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,705	3/4	167,044	3/4	177,348	3/4	187,652	3/4		3/4		3/4		3/4		3/4		3/4	
10	156,921	10	167,259	10	177,563	10	187,867	10		10		10		10		10		10	
1/4	157,136	1/4	167,474	1/4	177,777	1/4	188,081	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,352	1/2	167,688	1/2	177,992	1/2	188,296	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,567	3/4	167,903	3/4	178,206	3/4	188,510	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,783	11	168,118	11	178,421	11	188,724	11		11		11		11		11		11	
1/4	157,998	1/4	168,332	1/4	178,636	1/4	188,935	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,213	1/2	168,547	1/2	178,850	1/2	189,147	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,429	3/4	168,762	3/4	179,065	3/4	189,358	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

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



BARGE "HFL 437"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,033	0	15,710	0	30,787	0	45,845	0	60,909	0	75,988	0	91,067	0	106,146	0	121,219	0	136,290
1/4	1,268	1/4	16,025	1/4	31,101	1/4	46,158	1/4	61,223	1/4	76,302	1/4	91,381	1/4	106,460	1/4	121,533	1/4	136,604
1/2	1,504	1/2	16,339	1/2	31,415	1/2	46,472	1/2	61,537	1/2	76,616	1/2	91,695	1/2	106,774	1/2	121,847	1/2	136,918
3/4	1,739	3/4	16,653	3/4	31,729	3/4	46,785	3/4	61,851	3/4	76,930	3/4	92,009	3/4	107,088	3/4	122,161	3/4	137,232
1	1,975	1	16,967	1	32,043	1	47,098	1	62,166	1	77,244	1	92,323	1	107,402	1	122,475	1	137,546
1/4	2,269	1/4	17,281	1/4	32,358	1/4	47,411	1/4	62,480	1/4	77,559	1/4	92,637	1/4	107,716	1/4	122,789	1/4	137,860
1/2	2,562	1/2	17,595	1/2	32,672	1/2	47,724	1/2	62,794	1/2	77,873	1/2	92,952	1/2	108,030	1/2	123,103	1/2	138,174
3/4	2,856	3/4	17,909	3/4	32,986	3/4	48,038	3/4	63,108	3/4	78,187	3/4	93,266	3/4	108,344	3/4	123,417	3/4	138,488
2	3,150	2	18,224	2	33,300	2	48,351	2	63,422	2	78,501	2	93,580	2	108,659	2	123,731	2	138,802
1/4	3,463	1/4	18,538	1/4	33,614	1/4	48,664	1/4	63,736	1/4	78,815	1/4	93,894	1/4	108,973	1/4	124,045	1/4	139,116
1/2	3,776	1/2	18,852	1/2	33,928	1/2	48,978	1/2	64,050	1/2	79,129	1/2	94,208	1/2	109,287	1/2	124,359	1/2	139,430
3/4	4,089	3/4	19,166	3/4	34,242	3/4	49,291	3/4	64,365	3/4	79,443	3/4	94,522	3/4	109,601	3/4	124,673	3/4	139,744
3	4,402	3	19,480	3	34,557	3	49,604	3	64,679	3	79,758	3	94,836	3	109,915	3	124,987	3	140,058
1/4	4,716	1/4	19,794	1/4	34,871	1/4	49,918	1/4	64,993	1/4	80,072	1/4	95,151	1/4	110,229	1/4	125,301	1/4	140,372
1/2	5,030	1/2	20,108	1/2	35,185	1/2	50,231	1/2	65,307	1/2	80,386	1/2	95,465	1/2	110,543	1/2	125,615	1/2	140,686
3/4	5,344	3/4	20,423	3/4	35,499	3/4	50,544	3/4	65,621	3/4	80,700	3/4	95,779	3/4	110,857	3/4	125,929	3/4	141,000
4	5,658	4	20,737	4	35,813	4	50,858	4	65,935	4	81,014	4	96,093	4	111,171	4	126,243	4	141,314
1/4	5,972	1/4	21,051	1/4	36,127	1/4	51,172	1/4	66,249	1/4	81,328	1/4	96,407	1/4	111,485	1/4	126,557	1/4	141,628
1/2	6,286	1/2	21,365	1/2	36,441	1/2	51,486	1/2	66,564	1/2	81,642	1/2	96,721	1/2	111,799	1/2	126,871	1/2	141,942
3/4	6,600	3/4	21,679	3/4	36,756	3/4	51,799	3/4	66,878	3/4	81,957	3/4	97,035	3/4	112,113	3/4	127,185	3/4	142,256
5	6,914	5	21,993	5	37,070	5	52,113	5	67,192	5	82,271	5	97,350	5	112,427	5	127,499	5	142,570
1/4	7,229	1/4	22,307	1/4	37,384	1/4	52,427	1/4	67,506	1/4	82,585	1/4	97,664	1/4	112,741	1/4	127,813	1/4	142,884
1/2	7,543	1/2	22,621	1/2	37,698	1/2	52,741	1/2	67,820	1/2	82,899	1/2	97,978	1/2	113,055	1/2	128,127	1/2	143,198
3/4	7,857	3/4	22,936	3/4	38,012	3/4	53,056	3/4	68,134	3/4	83,213	3/4	98,292	3/4	113,369	3/4	128,441	3/4	143,512
6	8,171	6	23,250	6	38,326	6	53,370	6	68,448	6	83,527	6	98,606	6	113,683	6	128,755	6	143,826
1/4	8,485	1/4	23,564	1/4	38,640	1/4	53,684	1/4	68,763	1/4	83,841	1/4	98,920	1/4	113,997	1/4	129,069	1/4	144,140
1/2	8,799	1/2	23,878	1/2	38,954	1/2	53,998	1/2	69,077	1/2	84,156	1/2	99,234	1/2	114,311	1/2	129,383	1/2	144,454
3/4	9,113	3/4	24,192	3/4	39,267	3/4	54,312	3/4	69,391	3/4	84,470	3/4	99,549	3/4	114,625	3/4	129,697	3/4	144,768
7	9,428	7	24,506	7	39,581	7	54,626	7	69,705	7	84,784	7	99,863	7	114,939	7	130,011	7	145,082
1/4	9,742	1/4	24,820	1/4	39,894	1/4	54,940	1/4	70,019	1/4	85,098	1/4	100,177	1/4	115,253	1/4	130,325	1/4	145,396
1/2	10,056	1/2	25,135	1/2	40,207	1/2	55,254	1/2	70,333	1/2	85,412	1/2	100,491	1/2	115,567	1/2	130,638	1/2	145,710
3/4	10,370	3/4	25,449	3/4	40,521	3/4	55,569	3/4	70,647	3/4	85,726	3/4	100,805	3/4	115,881	3/4	130,952	3/4	146,024
8	10,684	8	25,763	8	40,834	8	55,883	8	70,962	8	86,040	8	101,119	8	116,195	8	131,266	8	146,338
1/4	10,998	1/4	26,077	1/4	41,147	1/4	56,197	1/4	71,276	1/4	86,355	1/4	101,433	1/4	116,509	1/4	131,580	1/4	146,652
1/2	11,312	1/2	26,391	1/2	41,460	1/2	56,511	1/2	71,590	1/2	86,669	1/2	101,748	1/2	116,823	1/2	131,894	1/2	146,966
3/4	11,627	3/4	26,705	3/4	41,773	3/4	56,825	3/4	71,904	3/4	86,983	3/4	102,062	3/4	117,137	3/4	132,208	3/4	147,280
9	11,941	9	27,019	9	42,087	9	57,139	9	72,218	9	87,297	9	102,376	9	117,451	9	132,522	9	147,594
1/4	12,255	1/4	27,333	1/4	42,400	1/4	57,453	1/4	72,532	1/4	87,611	1/4	102,690	1/4	117,765	1/4	132,836	1/4	147,908
1/2	12,569	1/2	27,647	1/2	42,713	1/2	57,768	1/2	72,846	1/2	87,925	1/2	103,004	1/2	118,079	1/2	133,150	1/2	148,222
3/4	12,883	3/4	27,961	3/4	43,026	3/4	58,082	3/4	73,161	3/4	88,239	3/4	103,318	3/4	118,393	3/4	133,464	3/4	148,536
10	13,197	10	28,275	10	43,339	10	58,396	10	73,475	10	88,554	10	103,632	10	118,707	10	133,778	10	148,850
1/4	13,511	1/4	28,589	1/4	43,653	1/4	58,710	1/4	73,789	1/4	88,868	1/4	103,947	1/4	119,021	1/4	134,092	1/4	149,164
1/2	13,826	1/2	28,903	1/2	43,966	1/2	59,024	1/2	74,103	1/2	89,182	1/2	104,261	1/2	119,335	1/2	134,406	1/2	149,478
3/4	14,140	3/4	29,217	3/4	44,279	3/4	59,338	3/4	74,417	3/4	89,496	3/4	104,575	3/4	119,649	3/4	134,720	3/4	149,792
11	14,454	11	29,531	11	44,592	11	59,652	11	74,731	11	89,810	11	104,889	11	119,963	11	135,034	11	150,106
1/4	14,768	1/4	29,845	1/4	44,906	1/4	59,967	1/4	75,045	1/4	90,124	1/4	105,203	1/4	120,277	1/4	135,348	1/4	150,420
1/2	15,082	1/2	30,159	1/2	45,219	1/2	60,281	1/2	75,360	1/2	90,438	1/2	105,517	1/2	120,591	1/2	135,662	1/2	150,733
3/4	15,396	3/4	30,473	3/4	45,532	3/4	60,595	3/4	75,674	3/4	90,753	3/4	105,831	3/4	120,905	3/4	135,976	3/4	151,047

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 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

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



BARGE "HFL 437"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	151,361	0	166,433	0	181,493	0	196,513	0	211,437	0		0		0		0		0	
1/4	151,675	1/4	166,747	1/4	181,806	1/4	196,826	1/4	211,717	1/4		1/4		1/4		1/4		1/4	
1/2	151,989	1/2	167,061	1/2	182,119	1/2	197,139	1/2	211,997	1/2		1/2		1/2		1/2		1/2	
3/4	152,303	3/4	167,375	3/4	182,432	3/4	197,452	3/4	212,277	3/4		3/4		3/4		3/4		3/4	
1	152,617	1	167,689	1	182,745	1	197,765	1	212,557	1		1		1		1		1	
1/4	152,931	1/4	168,003	1/4	183,058	1/4	198,078	1/4	212,788	1/4		1/4		1/4		1/4		1/4	
1/2	153,245	1/2	168,317	1/2	183,371	1/2	198,391	1/2	213,020	1/2		1/2		1/2		1/2		1/2	
3/4	153,559	3/4	168,631	3/4	183,684	3/4	198,704	3/4	213,251	3/4		3/4		3/4		3/4		3/4	
2	153,873	2	168,945	2	183,997	2	199,017	2	213,482	2		2		2		2		2	
1/4	154,187	1/4	169,259	1/4	184,310	1/4	199,330	1/4	213,662	1/4		1/4		1/4		1/4		1/4	
1/2	154,501	1/2	169,573	1/2	184,622	1/2	199,643	1/2	213,841	1/2		1/2		1/2		1/2		1/2	
3/4	154,815	3/4	169,887	3/4	184,935	3/4	199,956	3/4	214,020	3/4		3/4		3/4		3/4		3/4	
3	155,129	3	170,201	3	185,248	3	200,268	3	214,199	3		3		3		3		3	
1/4	155,443	1/4	170,515	1/4	185,561	1/4	200,581	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,757	1/2	170,828	1/2	185,874	1/2	200,894	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,071	3/4	171,142	3/4	186,187	3/4	201,207	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,385	4	171,456	4	186,500	4	201,520	4		4		4		4		4		4	
1/4	156,699	1/4	171,770	1/4	186,813	1/4	201,833	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,013	1/2	172,084	1/2	187,126	1/2	202,146	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,327	3/4	172,398	3/4	187,439	3/4	202,459	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,641	5	172,712	5	187,752	5	202,772	5		5		5		5		5		5	
1/4	157,955	1/4	173,026	1/4	188,065	1/4	203,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,269	1/2	173,340	1/2	188,378	1/2	203,395	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,583	3/4	173,654	3/4	188,690	3/4	203,706	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,897	6	173,968	6	189,003	6	204,017	6		6		6		6		6		6	
1/4	159,211	1/4	174,282	1/4	189,316	1/4	204,327	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,525	1/2	174,596	1/2	189,629	1/2	204,637	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,839	3/4	174,910	3/4	189,942	3/4	204,947	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,153	7	175,224	7	190,255	7	205,257	7		7		7		7		7		7	
1/4	160,467	1/4	175,538	1/4	190,568	1/4	205,566	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,781	1/2	175,852	1/2	190,881	1/2	205,876	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,095	3/4	176,166	3/4	191,194	3/4	206,186	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,409	8	176,480	8	191,507	8	206,496	8		8		8		8		8		8	
1/4	161,723	1/4	176,794	1/4	191,820	1/4	206,806	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,037	1/2	177,108	1/2	192,133	1/2	207,116	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,351	3/4	177,422	3/4	192,445	3/4	207,426	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,665	9	177,736	9	192,758	9	207,736	9		9		9		9		9		9	
1/4	162,979	1/4	178,050	1/4	193,071	1/4	208,046	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,293	1/2	178,363	1/2	193,384	1/2	208,356	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,607	3/4	178,676	3/4	193,697	3/4	208,666	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,921	10	178,990	10	194,010	10	208,976	10		10		10		10		10		10	
1/4	164,235	1/4	179,303	1/4	194,323	1/4	209,285	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,549	1/2	179,616	1/2	194,636	1/2	209,595	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,863	3/4	179,929	3/4	194,949	3/4	209,904	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,177	11	180,242	11	195,262	11	210,214	11		11		11		11		11		11	
1/4	165,491	1/4	180,555	1/4	195,575	1/4	210,519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,805	1/2	180,867	1/2	195,888	1/2	210,825	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,119	3/4	181,180	3/4	196,201	3/4	211,131	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

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



BARGE "HFL 437"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,032	0	15,702	0	30,771	0	45,468	0	59,960	0	74,820	0	89,891	0	104,963	0	120,029	0	135,093
1/4	1,267	1/4	16,016	1/4	31,085	1/4	45,770	1/4	60,262	1/4	75,134	1/4	90,205	1/4	105,277	1/4	120,343	1/4	135,407
1/2	1,503	1/2	16,330	1/2	31,399	1/2	46,071	1/2	60,564	1/2	75,448	1/2	90,519	1/2	105,591	1/2	120,656	1/2	135,720
3/4	1,738	3/4	16,644	3/4	31,713	3/4	46,372	3/4	60,867	3/4	75,762	3/4	90,833	3/4	105,905	3/4	120,970	3/4	136,034
1	1,974	1	16,958	1	32,027	1	46,674	1	61,169	1	76,076	1	91,147	1	106,219	1	121,284	1	136,348
1/4	2,267	1/4	17,272	1/4	32,341	1/4	46,975	1/4	61,471	1/4	76,390	1/4	91,461	1/4	106,533	1/4	121,598	1/4	136,662
1/2	2,561	1/2	17,586	1/2	32,655	1/2	47,276	1/2	61,773	1/2	76,703	1/2	91,775	1/2	106,847	1/2	121,912	1/2	136,976
3/4	2,854	3/4	17,900	3/4	32,969	3/4	47,577	3/4	62,075	3/4	77,017	3/4	92,089	3/4	107,161	3/4	122,226	3/4	137,290
2	3,148	2	18,214	2	33,283	2	47,879	2	62,378	2	77,331	2	92,403	2	107,475	2	122,539	2	137,603
1/4	3,461	1/4	18,528	1/4	33,597	1/4	48,180	1/4	62,680	1/4	77,645	1/4	92,717	1/4	107,789	1/4	122,853	1/4	137,917
1/2	3,774	1/2	18,842	1/2	33,911	1/2	48,481	1/2	62,982	1/2	77,959	1/2	93,031	1/2	108,102	1/2	123,167	1/2	138,231
3/4	4,087	3/4	19,156	3/4	34,225	3/4	48,783	3/4	63,284	3/4	78,273	3/4	93,345	3/4	108,416	3/4	123,481	3/4	138,545
3	4,400	3	19,470	3	34,539	3	49,084	3	63,587	3	78,587	3	93,659	3	108,730	3	123,795	3	138,859
1/4	4,714	1/4	19,784	1/4	34,853	1/4	49,386	1/4	63,889	1/4	78,901	1/4	93,973	1/4	109,044	1/4	124,109	1/4	139,173
1/2	5,027	1/2	20,098	1/2	35,167	1/2	49,687	1/2	64,191	1/2	79,215	1/2	94,287	1/2	109,358	1/2	124,422	1/2	139,486
3/4	5,341	3/4	20,412	3/4	35,481	3/4	49,989	3/4	64,493	3/4	79,529	3/4	94,601	3/4	109,672	3/4	124,736	3/4	139,800
4	5,655	4	20,726	4	35,795	4	50,290	4	64,795	4	79,843	4	94,915	4	109,986	4	125,050	4	140,114
1/4	5,969	1/4	21,040	1/4	36,103	1/4	50,592	1/4	65,104	1/4	80,157	1/4	95,229	1/4	110,300	1/4	125,364	1/4	140,428
1/2	6,283	1/2	21,354	1/2	36,411	1/2	50,894	1/2	65,412	1/2	80,471	1/2	95,543	1/2	110,614	1/2	125,678	1/2	140,742
3/4	6,597	3/4	21,668	3/4	36,719	3/4	51,196	3/4	65,720	3/4	80,785	3/4	95,857	3/4	110,928	3/4	125,992	3/4	141,056
5	6,911	5	21,982	5	37,027	5	51,498	5	66,028	5	81,099	5	96,171	5	111,241	5	126,305	5	141,369
1/4	7,225	1/4	22,296	1/4	37,329	1/4	51,800	1/4	66,342	1/4	81,413	1/4	96,485	1/4	111,555	1/4	126,619	1/4	141,683
1/2	7,539	1/2	22,610	1/2	37,631	1/2	52,102	1/2	66,656	1/2	81,727	1/2	96,799	1/2	111,869	1/2	126,933	1/2	141,997
3/4	7,853	3/4	22,924	3/4	37,934	3/4	52,404	3/4	66,970	3/4	82,041	3/4	97,113	3/4	112,183	3/4	127,247	3/4	142,311
6	8,167	6	23,238	6	38,236	6	52,707	6	67,284	6	82,355	6	97,427	6	112,497	6	127,561	6	142,625
1/4	8,481	1/4	23,552	1/4	38,538	1/4	53,009	1/4	67,598	1/4	82,669	1/4	97,741	1/4	112,811	1/4	127,875	1/4	142,939
1/2	8,795	1/2	23,866	1/2	38,839	1/2	53,311	1/2	67,912	1/2	82,983	1/2	98,055	1/2	113,124	1/2	128,188	1/2	143,252
3/4	9,109	3/4	24,180	3/4	39,141	3/4	53,613	3/4	68,226	3/4	83,297	3/4	98,369	3/4	113,438	3/4	128,502	3/4	143,566
7	9,423	7	24,494	7	39,443	7	53,916	7	68,540	7	83,611	7	98,683	7	113,752	7	128,816	7	143,880
1/4	9,737	1/4	24,808	1/4	39,744	1/4	54,218	1/4	68,854	1/4	83,925	1/4	98,997	1/4	114,066	1/4	129,130	1/4	144,194
1/2	10,051	1/2	25,122	1/2	40,045	1/2	54,520	1/2	69,168	1/2	84,239	1/2	99,311	1/2	114,380	1/2	129,444	1/2	144,508
3/4	10,365	3/4	25,436	3/4	40,347	3/4	54,822	3/4	69,482	3/4	84,553	3/4	99,625	3/4	114,694	3/4	129,758	3/4	144,821
8	10,679	8	25,750	8	40,648	8	55,124	8	69,796	8	84,867	8	99,939	8	115,007	8	130,071	8	145,135
1/4	10,992	1/4	26,063	1/4	40,949	1/4	55,427	1/4	70,110	1/4	85,181	1/4	100,253	1/4	115,321	1/4	130,385	1/4	145,449
1/2	11,306	1/2	26,377	1/2	41,251	1/2	55,729	1/2	70,424	1/2	85,495	1/2	100,567	1/2	115,635	1/2	130,699	1/2	145,763
3/4	11,620	3/4	26,691	3/4	41,552	3/4	56,031	3/4	70,738	3/4	85,809	3/4	100,881	3/4	115,949	3/4	131,013	3/4	146,077
9	11,934	9	27,005	9	41,853	9	56,333	9	71,052	9	86,123	9	101,195	9	116,263	9	131,327	9	146,391
1/4	12,248	1/4	27,319	1/4	42,154	1/4	56,636	1/4	71,366	1/4	86,437	1/4	101,509	1/4	116,577	1/4	131,641	1/4	146,704
1/2	12,562	1/2	27,633	1/2	42,456	1/2	56,938	1/2	71,680	1/2	86,751	1/2	101,823	1/2	116,890	1/2	131,954	1/2	147,018
3/4	12,876	3/4	27,947	3/4	42,757	3/4	57,240	3/4	71,994	3/4	87,065	3/4	102,137	3/4	117,204	3/4	132,268	3/4	147,332
10	13,190	10	28,260	10	43,058	10	57,542	10	72,308	10	87,379	10	102,451	10	117,518	10	132,582	10	147,646
1/4	13,504	1/4	28,574	1/4	43,359	1/4	57,844	1/4	72,622	1/4	87,693	1/4	102,765	1/4	117,832	1/4	132,896	1/4	147,960
1/2	13,818	1/2	28,888	1/2	43,661	1/2	58,147	1/2	72,936	1/2	88,007	1/2	103,079	1/2	118,146	1/2	133,210	1/2	148,274
3/4	14,132	3/4	29,202	3/4	43,962	3/4	58,449	3/4	73,250	3/4	88,321	3/4	103,393	3/4	118,460	3/4	133,524	3/4	148,587
11	14,446	11	29,515	11	44,263	11	58,751	11	73,564	11	88,635	11	103,707	11	118,773	11	133,837	11	148,901
1/4	14,760	1/4	29,829	1/4	44,565	1/4	59,053	1/4	73,878	1/4	88,949	1/4	104,021	1/4	119,087	1/4	134,151	1/4	149,215
1/2	15,074	1/2	30,143	1/2	44,866	1/2	59,355	1/2	74,192	1/2	89,263	1/2	104,335	1/2	119,401	1/2	134,465	1/2	149,529
3/4	15,388	3/4	30,457	3/4	45,167	3/4	59,658	3/4	74,506	3/4	89,577	3/4	104,649	3/4	119,715	3/4	134,779	3/4	149,843

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 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 437"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	150,157	0	165,221	0	180,274	0	195,287	0	210,203	0		0		0		0		0	
1/4	150,470	1/4	165,534	1/4	180,587	1/4	195,599	1/4	210,482	1/4		1/4		1/4		1/4		1/4	
1/2	150,784	1/2	165,848	1/2	180,899	1/2	195,912	1/2	210,762	1/2		1/2		1/2		1/2		1/2	
3/4	151,098	3/4	166,162	3/4	181,212	3/4	196,225	3/4	211,042	3/4		3/4		3/4		3/4		3/4	
1	151,412	1	166,476	1	181,525	1	196,538	1	211,322	1		1		1		1		1	
1/4	151,726	1/4	166,790	1/4	181,838	1/4	196,851	1/4	211,553	1/4		1/4		1/4		1/4		1/4	
1/2	152,040	1/2	167,104	1/2	182,151	1/2	197,163	1/2	211,785	1/2		1/2		1/2		1/2		1/2	
3/4	152,353	3/4	167,417	3/4	182,463	3/4	197,476	3/4	212,016	3/4		3/4		3/4		3/4		3/4	
2	152,667	2	167,731	2	182,776	2	197,789	2	212,247	2		2		2		2		2	
1/4	152,981	1/4	168,045	1/4	183,089	1/4	198,102	1/4	212,426	1/4		1/4		1/4		1/4		1/4	
1/2	153,295	1/2	168,359	1/2	183,402	1/2	198,414	1/2	212,605	1/2		1/2		1/2		1/2		1/2	
3/4	153,609	3/4	168,673	3/4	183,714	3/4	198,727	3/4	212,784	3/4		3/4		3/4		3/4		3/4	
3	153,923	3	168,987	3	184,027	3	199,040	3	212,963	3		3		3		3		3	
1/4	154,236	1/4	169,300	1/4	184,340	1/4	199,353	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,550	1/2	169,614	1/2	184,653	1/2	199,665	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,864	3/4	169,928	3/4	184,965	3/4	199,978	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,178	4	170,242	4	185,278	4	200,291	4		4		4		4		4		4	
1/4	155,492	1/4	170,556	1/4	185,591	1/4	200,604	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,806	1/2	170,870	1/2	185,904	1/2	200,917	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,119	3/4	171,183	3/4	186,216	3/4	201,229	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,433	5	171,497	5	186,529	5	201,542	5		5		5		5		5		5	
1/4	156,747	1/4	171,811	1/4	186,842	1/4	201,853	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,061	1/2	172,125	1/2	187,155	1/2	202,164	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,375	3/4	172,439	3/4	187,468	3/4	202,476	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,689	6	172,753	6	187,780	6	202,787	6		6		6		6		6		6	
1/4	158,002	1/4	173,066	1/4	188,093	1/4	203,097	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,316	1/2	173,380	1/2	188,406	1/2	203,406	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,630	3/4	173,694	3/4	188,719	3/4	203,716	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,944	7	174,008	7	189,031	7	204,026	7		7		7		7		7		7	
1/4	159,258	1/4	174,322	1/4	189,344	1/4	204,335	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,572	1/2	174,636	1/2	189,657	1/2	204,645	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,885	3/4	174,949	3/4	189,970	3/4	204,955	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,199	8	175,263	8	190,282	8	205,265	8		8		8		8		8		8	
1/4	160,513	1/4	175,577	1/4	190,595	1/4	205,574	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,827	1/2	175,891	1/2	190,908	1/2	205,884	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,141	3/4	176,205	3/4	191,221	3/4	206,194	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,455	9	176,519	9	191,534	9	206,504	9		9		9		9		9		9	
1/4	161,768	1/4	176,832	1/4	191,846	1/4	206,814	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,082	1/2	177,145	1/2	192,159	1/2	207,123	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,396	3/4	177,458	3/4	192,472	3/4	207,433	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,710	10	177,772	10	192,785	10	207,743	10		10		10		10		10		10	
1/4	163,024	1/4	178,085	1/4	193,097	1/4	208,052	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,338	1/2	178,397	1/2	193,410	1/2	208,361	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,651	3/4	178,710	3/4	193,723	3/4	208,671	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,965	11	179,023	11	194,036	11	208,980	11		11		11		11		11		11	
1/4	164,279	1/4	179,336	1/4	194,348	1/4	209,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,593	1/2	179,648	1/2	194,661	1/2	209,591	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,907	3/4	179,961	3/4	194,974	3/4	209,897	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

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



BARGE "HFL 437"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,239	0	28,152	0	43,161	0	58,165	0	73,172	0	88,181	0	103,190	0	118,195	0	133,197
1/4	562	1/4	13,541	1/4	28,465	1/4	43,473	1/4	58,478	1/4	73,484	1/4	88,493	1/4	103,503	1/4	118,507	1/4	133,510
1/2	738	1/2	13,842	1/2	28,777	1/2	43,786	1/2	58,790	1/2	73,797	1/2	88,806	1/2	103,815	1/2	118,820	1/2	133,822
3/4	915	3/4	14,143	3/4	29,090	3/4	44,099	3/4	59,102	3/4	74,110	3/4	89,119	3/4	104,128	3/4	119,132	3/4	134,135
1	1,092	1	14,444	1	29,403	1	44,411	1	59,415	1	74,422	1	89,432	1	104,441	1	119,445	1	134,448
1/4	1,330	1/4	14,749	1/4	29,715	1/4	44,724	1/4	59,727	1/4	74,735	1/4	89,744	1/4	104,753	1/4	119,757	1/4	134,760
1/2	1,569	1/2	15,054	1/2	30,028	1/2	45,037	1/2	60,040	1/2	75,048	1/2	90,057	1/2	105,066	1/2	120,070	1/2	135,073
3/4	1,807	3/4	15,359	3/4	30,341	3/4	45,349	3/4	60,352	3/4	75,360	3/4	90,370	3/4	105,379	3/4	120,383	3/4	135,385
2	2,046	2	15,664	2	30,653	2	45,662	2	60,665	2	75,673	2	90,682	2	105,692	2	120,695	2	135,698
1/4	2,308	1/4	15,973	1/4	30,966	1/4	45,975	1/4	60,977	1/4	75,986	1/4	90,995	1/4	106,004	1/4	121,008	1/4	136,010
1/2	2,569	1/2	16,282	1/2	31,279	1/2	46,288	1/2	61,290	1/2	76,298	1/2	91,308	1/2	106,317	1/2	121,320	1/2	136,323
3/4	2,831	3/4	16,590	3/4	31,591	3/4	46,600	3/4	61,602	3/4	76,611	3/4	91,620	3/4	106,630	3/4	121,633	3/4	136,635
3	3,093	3	16,899	3	31,904	3	46,913	3	61,915	3	76,924	3	91,933	3	106,942	3	121,945	3	136,948
1/4	3,359	1/4	17,211	1/4	32,217	1/4	47,226	1/4	62,227	1/4	77,237	1/4	92,246	1/4	107,255	1/4	122,258	1/4	137,261
1/2	3,625	1/2	17,523	1/2	32,529	1/2	47,538	1/2	62,540	1/2	77,549	1/2	92,558	1/2	107,568	1/2	122,570	1/2	137,573
3/4	3,891	3/4	17,834	3/4	32,842	3/4	47,851	3/4	62,853	3/4	77,862	3/4	92,871	3/4	107,880	3/4	122,883	3/4	137,886
4	4,157	4	18,146	4	33,155	4	48,164	4	63,165	4	78,175	4	93,184	4	108,193	4	123,196	4	138,198
1/4	4,428	1/4	18,459	1/4	33,468	1/4	48,476	1/4	63,478	1/4	78,487	1/4	93,497	1/4	108,505	1/4	123,508	1/4	138,511
1/2	4,698	1/2	18,771	1/2	33,780	1/2	48,789	1/2	63,791	1/2	78,800	1/2	93,809	1/2	108,818	1/2	123,821	1/2	138,823
3/4	4,968	3/4	19,084	3/4	34,093	3/4	49,102	3/4	64,103	3/4	79,113	3/4	94,122	3/4	109,130	3/4	124,133	3/4	139,136
5	5,239	5	19,397	5	34,406	5	49,414	5	64,416	5	79,425	5	94,435	5	109,443	5	124,446	5	139,449
1/4	5,513	1/4	19,710	1/4	34,718	1/4	49,727	1/4	64,729	1/4	79,738	1/4	94,747	1/4	109,756	1/4	124,758	1/4	139,761
1/2	5,787	1/2	20,022	1/2	35,031	1/2	50,040	1/2	65,042	1/2	80,051	1/2	95,060	1/2	110,068	1/2	125,071	1/2	140,074
3/4	6,061	3/4	20,335	3/4	35,344	3/4	50,352	3/4	65,354	3/4	80,363	3/4	95,373	3/4	110,381	3/4	125,383	3/4	140,386
6	6,336	6	20,648	6	35,656	6	50,665	6	65,667	6	80,676	6	95,685	6	110,693	6	125,696	6	140,699
1/4	6,614	1/4	20,960	1/4	35,969	1/4	50,978	1/4	65,980	1/4	80,989	1/4	95,998	1/4	111,006	1/4	126,009	1/4	141,011
1/2	6,892	1/2	21,273	1/2	36,282	1/2	51,290	1/2	66,292	1/2	81,302	1/2	96,311	1/2	111,318	1/2	126,321	1/2	141,324
3/4	7,170	3/4	21,586	3/4	36,594	3/4	51,603	3/4	66,605	3/4	81,614	3/4	96,623	3/4	111,631	3/4	126,634	3/4	141,636
7	7,448	7	21,898	7	36,907	7	51,916	7	66,918	7	81,927	7	96,936	7	111,943	7	126,946	7	141,949
1/4	7,730	1/4	22,211	1/4	37,220	1/4	52,228	1/4	67,230	1/4	82,240	1/4	97,249	1/4	112,256	1/4	127,259	1/4	142,262
1/2	8,011	1/2	22,524	1/2	37,532	1/2	52,541	1/2	67,543	1/2	82,552	1/2	97,562	1/2	112,569	1/2	127,571	1/2	142,574
3/4	8,293	3/4	22,836	3/4	37,845	3/4	52,853	3/4	67,856	3/4	82,865	3/4	97,874	3/4	112,881	3/4	127,884	3/4	142,887
8	8,575	8	23,149	8	38,158	8	53,166	8	68,168	8	83,178	8	98,187	8	113,194	8	128,196	8	143,199
1/4	8,861	1/4	23,462	1/4	38,470	1/4	53,478	1/4	68,481	1/4	83,490	1/4	98,500	1/4	113,506	1/4	128,509	1/4	143,512
1/2	9,147	1/2	23,774	1/2	38,783	1/2	53,791	1/2	68,794	1/2	83,803	1/2	98,812	1/2	113,819	1/2	128,822	1/2	143,824
3/4	9,432	3/4	24,087	3/4	39,096	3/4	54,103	3/4	69,107	3/4	84,116	3/4	99,125	3/4	114,131	3/4	129,134	3/4	144,137
9	9,718	9	24,400	9	39,409	9	54,416	9	69,419	9	84,428	9	99,438	9	114,444	9	129,447	9	144,450
1/4	10,008	1/4	24,712	1/4	39,721	1/4	54,728	1/4	69,732	1/4	84,741	1/4	99,750	1/4	114,756	1/4	129,759	1/4	144,762
1/2	10,297	1/2	25,025	1/2	40,034	1/2	55,040	1/2	70,045	1/2	85,054	1/2	100,063	1/2	115,069	1/2	130,072	1/2	145,075
3/4	10,587	3/4	25,338	3/4	40,347	3/4	55,353	3/4	70,357	3/4	85,367	3/4	100,376	3/4	115,382	3/4	130,384	3/4	145,387
10	10,877	10	25,650	10	40,659	10	55,665	10	70,670	10	85,679	10	100,688	10	115,694	10	130,697	10	145,700
1/4	11,170	1/4	25,963	1/4	40,972	1/4	55,978	1/4	70,983	1/4	85,992	1/4	101,001	1/4	116,007	1/4	131,009	1/4	146,012
1/2	11,463	1/2	26,276	1/2	41,285	1/2	56,290	1/2	71,295	1/2	86,305	1/2	101,314	1/2	116,319	1/2	131,322	1/2	146,325
3/4	11,757	3/4	26,589	3/4	41,597	3/4	56,603	3/4	71,608	3/4	86,617	3/4	101,627	3/4	116,632	3/4	131,635	3/4	146,637
11	12,050	11	26,901	11	41,910	11	56,915	11	71,921	11	86,930	11	101,939	11	116,944	11	131,947	11	146,950
1/4	12,348	1/4	27,214	1/4	42,223	1/4	57,228	1/4	72,233	1/4	87,243	1/4	102,252	1/4	117,257	1/4	132,260	1/4	147,263
1/2	12,645	1/2	27,527	1/2	42,535	1/2	57,540	1/2	72,546	1/2	87,555	1/2	102,565	1/2	117,569	1/2	132,572	1/2	147,575
3/4	12,942	3/4	27,839	3/4	42,848	3/4	57,853	3/4	72,859	3/4	87,868	3/4	102,877	3/4	117,882	3/4	132,885	3/4	147,888

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 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 437"

**1 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,200	0	163,203	0	178,197	0	193,156	0	208,043	0		0		0		0		0	
1/4	148,513	1/4	163,516	1/4	178,509	1/4	193,468	1/4	208,323	1/4		1/4		1/4		1/4		1/4	
1/2	148,825	1/2	163,828	1/2	178,820	1/2	193,780	1/2	208,603	1/2		1/2		1/2		1/2		1/2	
3/4	149,138	3/4	164,141	3/4	179,132	3/4	194,091	3/4	208,883	3/4		3/4		3/4		3/4		3/4	
1	149,451	1	164,453	1	179,444	1	194,403	1	209,163	1		1		1		1		1	
1/4	149,763	1/4	164,766	1/4	179,755	1/4	194,715	1/4	209,394	1/4		1/4		1/4		1/4		1/4	
1/2	150,076	1/2	165,079	1/2	180,067	1/2	195,026	1/2	209,625	1/2		1/2		1/2		1/2		1/2	
3/4	150,388	3/4	165,391	3/4	180,379	3/4	195,338	3/4	209,857	3/4		3/4		3/4		3/4		3/4	
2	150,701	2	165,704	2	180,690	2	195,650	2	210,088	2		2		2		2		2	
1/4	151,013	1/4	166,016	1/4	181,002	1/4	195,961	1/4	210,268	1/4		1/4		1/4		1/4		1/4	
1/2	151,326	1/2	166,329	1/2	181,314	1/2	196,273	1/2	210,447	1/2		1/2		1/2		1/2		1/2	
3/4	151,638	3/4	166,641	3/4	181,625	3/4	196,584	3/4	210,626	3/4		3/4		3/4		3/4		3/4	
3	151,951	3	166,954	3	181,937	3	196,896	3	210,806	3		3		3		3		3	
1/4	152,264	1/4	167,267	1/4	182,249	1/4	197,208	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,576	1/2	167,579	1/2	182,560	1/2	197,519	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,889	3/4	167,892	3/4	182,872	3/4	197,831	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,201	4	168,204	4	183,184	4	198,143	4		4		4		4		4		4	
1/4	153,514	1/4	168,517	1/4	183,495	1/4	198,454	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,826	1/2	168,829	1/2	183,807	1/2	198,766	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,139	3/4	169,142	3/4	184,118	3/4	199,078	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,452	5	169,454	5	184,430	5	199,389	5		5		5		5		5		5	
1/4	154,764	1/4	169,767	1/4	184,742	1/4	199,700	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,077	1/2	170,080	1/2	185,053	1/2	200,010	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,389	3/4	170,392	3/4	185,365	3/4	200,321	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,702	6	170,705	6	185,677	6	200,632	6		6		6		6		6		6	
1/4	156,014	1/4	171,017	1/4	185,988	1/4	200,941	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,327	1/2	171,330	1/2	186,300	1/2	201,251	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,639	3/4	171,642	3/4	186,612	3/4	201,560	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,952	7	171,955	7	186,923	7	201,870	7		7		7		7		7		7	
1/4	157,265	1/4	172,268	1/4	187,235	1/4	202,179	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,577	1/2	172,580	1/2	187,547	1/2	202,489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,890	3/4	172,893	3/4	187,858	3/4	202,798	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,202	8	173,205	8	188,170	8	203,108	8		8		8		8		8		8	
1/4	158,515	1/4	173,518	1/4	188,482	1/4	203,418	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,827	1/2	173,830	1/2	188,793	1/2	203,727	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,140	3/4	174,143	3/4	189,105	3/4	204,037	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,453	9	174,455	9	189,417	9	204,347	9		9		9		9		9		9	
1/4	159,765	1/4	174,768	1/4	189,728	1/4	204,656	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,078	1/2	175,080	1/2	190,040	1/2	204,966	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,390	3/4	175,392	3/4	190,351	3/4	205,275	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,703	10	175,704	10	190,663	10	205,585	10		10		10		10		10		10	
1/4	161,015	1/4	176,016	1/4	190,975	1/4	205,894	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,328	1/2	176,327	1/2	191,286	1/2	206,203	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,640	3/4	176,639	3/4	191,598	3/4	206,512	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,953	11	176,951	11	191,910	11	206,821	11		11		11		11		11		11	
1/4	162,266	1/4	177,262	1/4	192,221	1/4	207,127	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,578	1/2	177,574	1/2	192,533	1/2	207,432	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,891	3/4	177,885	3/4	192,845	3/4	207,738	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

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



BARGE "HFL 437"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	385	0	13,249	0	28,173	0	43,193	0	58,151	0	73,129	0	88,150	0	103,170	0	118,186	0	133,200
1/4	562	1/4	13,551	1/4	28,486	1/4	43,506	1/4	58,462	1/4	73,442	1/4	88,463	1/4	103,483	1/4	118,499	1/4	133,513
1/2	739	1/2	13,852	1/2	28,799	1/2	43,819	1/2	58,772	1/2	73,755	1/2	88,775	1/2	103,796	1/2	118,812	1/2	133,825
3/4	916	3/4	14,153	3/4	29,112	3/4	44,132	3/4	59,083	3/4	74,068	3/4	89,088	3/4	104,109	3/4	119,124	3/4	134,138
1	1,093	1	14,455	1	29,425	1	44,445	1	59,394	1	74,381	1	89,401	1	104,422	1	119,437	1	134,451
1/4	1,331	1/4	14,760	1/4	29,738	1/4	44,758	1/4	59,704	1/4	74,694	1/4	89,714	1/4	104,735	1/4	119,750	1/4	134,764
1/2	1,570	1/2	15,065	1/2	30,050	1/2	45,070	1/2	60,015	1/2	75,007	1/2	90,027	1/2	105,048	1/2	120,063	1/2	135,077
3/4	1,809	3/4	15,370	3/4	30,363	3/4	45,383	3/4	60,325	3/4	75,320	3/4	90,340	3/4	105,361	3/4	120,375	3/4	135,389
2	2,047	2	15,676	2	30,676	2	45,696	2	60,636	2	75,633	2	90,653	2	105,673	2	120,688	2	135,702
1/4	2,309	1/4	15,985	1/4	30,989	1/4	46,009	1/4	60,946	1/4	75,945	1/4	90,966	1/4	105,986	1/4	121,001	1/4	136,015
1/2	2,571	1/2	16,294	1/2	31,302	1/2	46,322	1/2	61,257	1/2	76,258	1/2	91,279	1/2	106,299	1/2	121,314	1/2	136,328
3/4	2,833	3/4	16,603	3/4	31,615	3/4	46,635	3/4	61,568	3/4	76,571	3/4	91,592	3/4	106,612	3/4	121,627	3/4	136,641
3	3,095	3	16,912	3	31,928	3	46,948	3	61,878	3	76,884	3	91,905	3	106,925	3	121,939	3	136,953
1/4	3,361	1/4	17,224	1/4	32,241	1/4	47,261	1/4	62,189	1/4	77,197	1/4	92,218	1/4	107,238	1/4	122,252	1/4	137,266
1/2	3,628	1/2	17,536	1/2	32,554	1/2	47,574	1/2	62,500	1/2	77,510	1/2	92,531	1/2	107,551	1/2	122,565	1/2	137,579
3/4	3,894	3/4	17,848	3/4	32,867	3/4	47,887	3/4	62,810	3/4	77,823	3/4	92,843	3/4	107,864	3/4	122,878	3/4	137,892
4	4,160	4	18,160	4	33,180	4	48,200	4	63,121	4	78,136	4	93,156	4	108,177	4	123,191	4	138,205
1/4	4,431	1/4	18,472	1/4	33,493	1/4	48,512	1/4	63,433	1/4	78,449	1/4	93,469	1/4	108,489	1/4	123,503	1/4	138,517
1/2	4,702	1/2	18,785	1/2	33,805	1/2	48,824	1/2	63,745	1/2	78,762	1/2	93,782	1/2	108,802	1/2	123,816	1/2	138,830
3/4	4,972	3/4	19,098	3/4	34,118	3/4	49,136	3/4	64,056	3/4	79,075	3/4	94,095	3/4	109,115	3/4	124,129	3/4	139,143
5	5,243	5	19,411	5	34,431	5	49,448	5	64,368	5	79,388	5	94,408	5	109,428	5	124,442	5	139,456
1/4	5,517	1/4	19,724	1/4	34,744	1/4	49,760	1/4	64,681	1/4	79,701	1/4	94,721	1/4	109,741	1/4	124,755	1/4	139,769
1/2	5,791	1/2	20,037	1/2	35,057	1/2	50,071	1/2	64,993	1/2	80,013	1/2	95,034	1/2	110,053	1/2	125,067	1/2	140,081
3/4	6,066	3/4	20,350	3/4	35,370	3/4	50,383	3/4	65,306	3/4	80,326	3/4	95,347	3/4	110,366	3/4	125,380	3/4	140,394
6	6,340	6	20,663	6	35,683	6	50,694	6	65,619	6	80,639	6	95,660	6	110,679	6	125,693	6	140,707
1/4	6,618	1/4	20,976	1/4	35,996	1/4	51,006	1/4	65,932	1/4	80,952	1/4	95,973	1/4	110,992	1/4	126,006	1/4	141,020
1/2	6,897	1/2	21,289	1/2	36,309	1/2	51,317	1/2	66,245	1/2	81,265	1/2	96,286	1/2	111,305	1/2	126,318	1/2	141,332
3/4	7,175	3/4	21,602	3/4	36,622	3/4	51,628	3/4	66,558	3/4	81,578	3/4	96,599	3/4	111,617	3/4	126,631	3/4	141,645
7	7,453	7	21,915	7	36,935	7	51,939	7	66,871	7	81,891	7	96,912	7	111,930	7	126,944	7	141,958
1/4	7,735	1/4	22,228	1/4	37,248	1/4	52,250	1/4	67,183	1/4	82,204	1/4	97,224	1/4	112,243	1/4	127,257	1/4	142,271
1/2	8,017	1/2	22,540	1/2	37,560	1/2	52,561	1/2	67,496	1/2	82,517	1/2	97,537	1/2	112,556	1/2	127,570	1/2	142,584
3/4	8,299	3/4	22,853	3/4	37,873	3/4	52,872	3/4	67,809	3/4	82,830	3/4	97,850	3/4	112,868	3/4	127,882	3/4	142,896
8	8,582	8	23,166	8	38,186	8	53,182	8	68,122	8	83,143	8	98,163	8	113,181	8	128,195	8	143,209
1/4	8,867	1/4	23,479	1/4	38,499	1/4	53,493	1/4	68,435	1/4	83,456	1/4	98,476	1/4	113,494	1/4	128,508	1/4	143,522
1/2	9,153	1/2	23,792	1/2	38,812	1/2	53,804	1/2	68,748	1/2	83,769	1/2	98,789	1/2	113,807	1/2	128,821	1/2	143,835
3/4	9,439	3/4	24,105	3/4	39,125	3/4	54,114	3/4	69,061	3/4	84,082	3/4	99,102	3/4	114,120	3/4	129,134	3/4	144,148
9	9,725	9	24,418	9	39,438	9	54,425	9	69,374	9	84,394	9	99,415	9	114,432	9	129,446	9	144,460
1/4	10,015	1/4	24,731	1/4	39,751	1/4	54,735	1/4	69,687	1/4	84,707	1/4	99,728	1/4	114,745	1/4	129,759	1/4	144,773
1/2	10,305	1/2	25,044	1/2	40,064	1/2	55,046	1/2	70,000	1/2	85,020	1/2	100,041	1/2	115,058	1/2	130,072	1/2	145,086
3/4	10,595	3/4	25,357	3/4	40,377	3/4	55,356	3/4	70,313	3/4	85,333	3/4	100,354	3/4	115,371	3/4	130,385	3/4	145,399
10	10,885	10	25,670	10	40,690	10	55,667	10	70,626	10	85,646	10	100,667	10	115,684	10	130,698	10	145,712
1/4	11,178	1/4	25,983	1/4	41,003	1/4	55,977	1/4	70,939	1/4	85,959	1/4	100,980	1/4	115,996	1/4	131,010	1/4	146,024
1/2	11,472	1/2	26,295	1/2	41,315	1/2	56,288	1/2	71,252	1/2	86,272	1/2	101,292	1/2	116,309	1/2	131,323	1/2	146,337
3/4	11,766	3/4	26,608	3/4	41,628	3/4	56,599	3/4	71,564	3/4	86,585	3/4	101,605	3/4	116,622	3/4	131,636	3/4	146,650
11	12,059	11	26,921	11	41,941	11	56,909	11	71,877	11	86,898	11	101,918	11	116,935	11	131,949	11	146,963
1/4	12,357	1/4	27,234	1/4	42,254	1/4	57,220	1/4	72,190	1/4	87,211	1/4	102,231	1/4	117,248	1/4	132,262	1/4	147,275
1/2	12,654	1/2	27,547	1/2	42,567	1/2	57,530	1/2	72,503	1/2	87,524	1/2	102,544	1/2	117,560	1/2	132,574	1/2	147,588
3/4	12,952	3/4	27,860	3/4	42,880	3/4	57,841	3/4	72,816	3/4	87,837	3/4	102,857	3/4	117,873	3/4	132,887	3/4	147,901

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 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 437"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	148,214	0	163,228	0	178,233	0	193,203	0	208,101	0		0		0		0		0	
1/4	148,527	1/4	163,541	1/4	178,545	1/4	193,515	1/4	208,381	1/4		1/4		1/4		1/4		1/4	
1/2	148,839	1/2	163,853	1/2	178,856	1/2	193,827	1/2	208,661	1/2		1/2		1/2		1/2		1/2	
3/4	149,152	3/4	164,166	3/4	179,168	3/4	194,139	3/4	208,941	3/4		3/4		3/4		3/4		3/4	
1	149,465	1	164,479	1	179,480	1	194,450	1	209,221	1		1		1		1		1	
1/4	149,778	1/4	164,792	1/4	179,792	1/4	194,762	1/4	209,452	1/4		1/4		1/4		1/4		1/4	
1/2	150,091	1/2	165,105	1/2	180,104	1/2	195,074	1/2	209,684	1/2		1/2		1/2		1/2		1/2	
3/4	150,403	3/4	165,417	3/4	180,416	3/4	195,386	3/4	209,916	3/4		3/4		3/4		3/4		3/4	
2	150,716	2	165,730	2	180,728	2	195,698	2	210,147	2		2		2		2		2	
1/4	151,029	1/4	166,043	1/4	181,040	1/4	196,010	1/4	210,327	1/4		1/4		1/4		1/4		1/4	
1/2	151,342	1/2	166,356	1/2	181,351	1/2	196,322	1/2	210,506	1/2		1/2		1/2		1/2		1/2	
3/4	151,655	3/4	166,669	3/4	181,663	3/4	196,634	3/4	210,686	3/4		3/4		3/4		3/4		3/4	
3	151,967	3	166,981	3	181,975	3	196,945	3	210,865	3		3		3		3		3	
1/4	152,280	1/4	167,294	1/4	182,287	1/4	197,257	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,593	1/2	167,607	1/2	182,599	1/2	197,569	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,906	3/4	167,920	3/4	182,911	3/4	197,881	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,219	4	168,232	4	183,223	4	198,193	4		4		4		4		4		4	
1/4	153,531	1/4	168,545	1/4	183,535	1/4	198,505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,844	1/2	168,858	1/2	183,847	1/2	198,817	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,157	3/4	169,171	3/4	184,158	3/4	199,129	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,470	5	169,484	5	184,470	5	199,440	5		5		5		5		5		5	
1/4	154,782	1/4	169,796	1/4	184,782	1/4	199,751	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,095	1/2	170,109	1/2	185,094	1/2	200,062	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,408	3/4	170,422	3/4	185,406	3/4	200,373	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,721	6	170,735	6	185,718	6	200,684	6		6		6		6		6		6	
1/4	156,034	1/4	171,048	1/4	186,030	1/4	200,993	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,346	1/2	171,360	1/2	186,342	1/2	201,303	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,659	3/4	171,673	3/4	186,653	3/4	201,613	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,972	7	171,986	7	186,965	7	201,923	7		7		7		7		7		7	
1/4	157,285	1/4	172,299	1/4	187,277	1/4	202,232	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,598	1/2	172,612	1/2	187,589	1/2	202,542	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,910	3/4	172,924	3/4	187,901	3/4	202,852	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,223	8	173,237	8	188,213	8	203,162	8		8		8		8		8		8	
1/4	158,536	1/4	173,550	1/4	188,525	1/4	203,472	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,849	1/2	173,863	1/2	188,837	1/2	203,782	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,162	3/4	174,176	3/4	189,148	3/4	204,091	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,474	9	174,488	9	189,460	9	204,401	9		9		9		9		9		9	
1/4	159,787	1/4	174,801	1/4	189,772	1/4	204,711	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,100	1/2	175,113	1/2	190,084	1/2	205,021	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,413	3/4	175,425	3/4	190,396	3/4	205,331	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,726	10	175,738	10	190,708	10	205,640	10		10		10		10		10		10	
1/4	161,038	1/4	176,050	1/4	191,020	1/4	205,950	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,351	1/2	176,361	1/2	191,332	1/2	206,259	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,664	3/4	176,673	3/4	191,643	3/4	206,569	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,977	11	176,985	11	191,955	11	206,878	11		11		11		11		11		11	
1/4	162,289	1/4	177,297	1/4	192,267	1/4	207,184	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,602	1/2	177,609	1/2	192,579	1/2	207,489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,915	3/4	177,921	3/4	192,891	3/4	207,795	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
PRINTED: 11/02/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

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



BARGE "HFL 437"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4		3/4		3/4	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1		1		1	
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2		1/2		1/2	
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4		3/4		3/4	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2		2		2	
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4		1/4		1/4	
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2		1/2		1/2	
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3		3		3	
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2		1/2		1/2	
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4		3/4		3/4	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4		4		4	
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4		1/4		1/4	
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4		3/4		3/4	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5		5		5	
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4		3/4		3/4	
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6		6		6	
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4		3/4		3/4	
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7		7		7	
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4		3/4		3/4	
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8		8		8	
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4		3/4		3/4	
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9		9		9	
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10		10		10	
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11		11		11	
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4		3/4		3/4	

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" HERMETIC VALVE

STRAPPED: 11/02/2015 CL
CALCULATED: 11/02/2015 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 437"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4		1/4		1/4	
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2		1/2		1/2	
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4		3/4		3/4	
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1		1		1	
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2		1/2		1/2	
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4		3/4		3/4	
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2		2		2	
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4		1/4		1/4	
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2		1/2		1/2	
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4		3/4		3/4	
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3		3		3	
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2		1/2		1/2	
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4		3/4		3/4	
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4		4		4	
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4		1/4		1/4	
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2		1/2		1/2	
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4		3/4		3/4	
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5		5		5	
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4		3/4		3/4	
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6		6		6	
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4		3/4		3/4	
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7		7		7	
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4		3/4		3/4	
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8		8		8	
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4		3/4		3/4	
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9		9		9	
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10		10		10	
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11		11		11	
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4		3/4		3/4	

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" HERMETIC VALVE

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Pearland, Texas 77588
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BARGE "HFL 437"

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	258	0	414	0	515	0		0		0		0		0	
1/4	1	1/4	104	1/4	261	1/4	417	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	264	1/2	420	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	268	3/4	423	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	271	1	426	1		1		1		1		1		1	
1/4	4	1/4	116	1/4	275	1/4	429	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	278	1/2	432	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	281	3/4	434	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	285	2	437	2		2		2		2		2		2	
1/4	9	1/4	128	1/4	288	1/4	440	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	131	1/2	292	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	134	3/4	295	3/4	445	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	298	3	448	3		3		3		3		3		3	
1/4	15	1/4	141	1/4	302	1/4	451	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	305	1/2	453	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	147	3/4	309	3/4	456	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	150	4	312	4	459	4		4		4		4		4		4	
1/4	22	1/4	154	1/4	315	1/4	461	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	157	1/2	319	1/2	464	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	160	3/4	322	3/4	466	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	163	5	325	5	469	5		5		5		5		5		5	
1/4	31	1/4	167	1/4	329	1/4	471	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	332	1/2	473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	173	3/4	335	3/4	476	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	176	6	339	6	478	6		6		6		6		6		6	
1/4	39	1/4	180	1/4	342	1/4	480	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	183	1/2	345	1/2	482	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	186	3/4	349	3/4	484	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	352	7	487	7		7		7		7		7		7	
1/4	49	1/4	193	1/4	355	1/4	489	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	196	1/2	358	1/2	491	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	200	3/4	362	3/4	493	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	203	8	365	8	495	8		8		8		8		8		8	
1/4	59	1/4	207	1/4	368	1/4	496	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	210	1/2	371	1/2	498	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	213	3/4	374	3/4	500	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	378	9	502	9		9		9		9		9		9	
1/4	70	1/4	220	1/4	381	1/4	503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	72	1/2	223	1/2	384	1/2	505	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	227	3/4	387	3/4	506	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	230	10	390	10	508	10		10		10		10		10		10	
1/4	81	1/4	234	1/4	393	1/4	509	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	83	1/2	237	1/2	396	1/2	510	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	86	3/4	240	3/4	399	3/4	511	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	244	11	402	11	512	11		11		11		11		11		11	
1/4	92	1/4	247	1/4	405	1/4	513	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	251	1/2	408	1/2	514	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	254	3/4	411	3/4	514	3/4		3/4		3/4		3/4		3/4		3/4	

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