



BARGE "HFL 441"

ULLAGE 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	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 5, 2015

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 441"

3 STBD ULLAGE 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	0	0	188,789	0	178,479	0	168,169	0	157,825	0	147,232	0	132,635	0	117,670	0	102,697			
1/4	1/4	1/4	188,574	1/4	178,264	1/4	167,954	1/4	157,609	1/4	146,970	1/4	132,323	1/4	117,358	1/4	102,385			
1/2	1/2	1/2	188,359	1/2	178,049	1/2	167,739	1/2	157,394	1/2	146,707	1/2	132,012	1/2	117,046	1/2	102,073			
3/4	3/4	3/4	188,145	3/4	177,835	3/4	167,524	3/4	157,178	3/4	146,444	3/4	131,700	3/4	116,734	3/4	101,760			
1	1	1	187,930	1	177,620	1	167,308	1	156,963	1	146,166	1	131,388	1	116,423	1	101,448			
1/4	1/4	1/4	187,715	1/4	177,405	1/4	167,093	1/4	156,747	1/4	145,887	1/4	131,076	1/4	116,111	1/4	101,136			
1/2	1/2	1/2	187,500	1/2	177,190	1/2	166,877	1/2	156,532	1/2	145,608	1/2	130,764	1/2	115,799	1/2	100,824			
3/4	3/4	3/4	187,285	3/4	176,976	3/4	166,662	3/4	156,316	3/4	145,330	3/4	130,453	3/4	115,487	3/4	100,512			
2	2	2	187,070	2	176,761	2	166,446	2	156,101	2	145,035	2	130,141	2	115,175	2	100,199			
1/4	1/4	1/4	186,855	1/4	176,546	1/4	166,231	1/4	155,885	1/4	144,740	1/4	129,829	1/4	114,864	1/4	99,887			
1/2	1/2	1/2	186,641	1/2	176,331	1/2	166,015	1/2	155,669	1/2	144,445	1/2	129,517	1/2	114,552	1/2	99,575			
3/4	3/4	3/4	186,426	3/4	176,116	3/4	165,800	3/4	155,454	3/4	144,151	3/4	129,206	3/4	114,240	3/4	99,263			
3	3	3	186,211	3	175,902	3	165,584	3	155,238	3	143,844	3	128,894	3	113,928	3	98,951			
1/4	1/4	1/4	185,996	1/4	175,687	1/4	165,369	1/4	155,023	1/4	143,537	1/4	128,582	1/4	113,617	1/4	98,639			
1/2	1/2	1/2	185,781	1/2	175,472	1/2	165,153	1/2	154,807	1/2	143,230	1/2	128,270	1/2	113,305	1/2	98,326			
3/4	3/4	3/4	185,567	3/4	175,257	3/4	164,937	3/4	154,592	3/4	142,922	3/4	127,958	3/4	112,993	3/4	98,014			
4	4	4	185,352	4	175,043	4	164,722	4	154,376	4	142,611	4	127,647	4	112,681	4	97,702			
1/4	1/4	1/4	185,137	1/4	174,828	1/4	164,506	1/4	154,161	1/4	142,300	1/4	127,335	1/4	112,369	1/4	97,390			
1/2	1/2	1/2	184,922	1/2	174,613	1/2	164,291	1/2	153,945	1/2	141,988	1/2	127,023	1/2	112,058	1/2	97,078			
3/4	3/4	3/4	184,708	3/4	174,398	3/4	164,075	3/4	153,730	3/4	141,677	3/4	126,711	3/4	111,746	3/4	96,765			
5	5	5	184,493	5	174,183	5	163,860	5	153,514	5	141,365	5	126,400	5	111,434	5	96,453			
1/4	1/4	1/4	184,278	1/4	173,969	1/4	163,644	1/4	153,299	1/4	141,053	1/4	126,088	1/4	111,122	1/4	96,141			
1/2	1/2	1/2	184,063	1/2	173,754	1/2	163,429	1/2	153,083	1/2	140,741	1/2	125,776	1/2	110,811	1/2	95,829			
3/4	3/4	3/4	183,848	3/4	173,539	3/4	163,213	3/4	152,867	3/4	140,430	3/4	125,464	3/4	110,499	3/4	95,517			
6	6	6	183,634	6	173,324	6	162,998	6	152,652	6	140,118	6	125,152	6	110,187	6	95,204			
1/4	1/4	1/4	183,419	1/4	173,110	1/4	162,782	1/4	152,436	1/4	139,806	1/4	124,841	1/4	109,875	1/4	94,892			
1/2	1/2	1/2	183,204	1/2	172,895	1/2	162,567	1/2	152,221	1/2	139,494	1/2	124,529	1/2	109,563	1/2	94,580			
3/4	3/4	192,608	182,989	3/4	172,680	3/4	162,351	3/4	152,005	3/4	139,183	3/4	124,217	3/4	109,251	3/4	94,268			
7	7	192,485	7	182,775	7	172,465	7	162,136	7	151,790	7	138,871	7	123,905	7	108,939	7	93,956		
1/4	1/4	192,361	1/4	182,560	1/4	172,251	1/4	161,920	1/4	151,574	1/4	138,559	1/4	123,594	1/4	108,628	1/4	93,643		
1/2	1/2	192,238	1/2	182,345	1/2	172,036	1/2	161,704	1/2	151,359	1/2	138,247	1/2	123,282	1/2	108,316	1/2	93,331		
3/4	3/4	192,115	182,130	3/4	171,821	3/4	161,489	3/4	151,143	3/4	137,935	3/4	122,970	3/4	108,004	3/4	93,019			
8	8	191,955	8	181,915	8	171,606	8	161,273	8	150,928	8	137,624	8	122,658	8	107,692	8	92,707		
1/4	1/4	191,796	1/4	181,701	1/4	171,391	1/4	161,058	1/4	150,712	1/4	137,312	1/4	122,346	1/4	107,380	1/4	92,395		
1/2	1/2	191,637	1/2	181,486	1/2	171,177	1/2	160,842	1/2	150,497	1/2	137,000	1/2	122,035	1/2	107,068	1/2	92,082		
3/4	3/4	191,477	181,271	3/4	170,962	3/4	160,627	3/4	150,281	3/4	136,688	3/4	121,723	3/4	106,756	3/4	91,770			
9	9	191,285	9	181,056	9	170,747	9	160,411	9	150,062	9	136,377	9	121,411	9	106,443	9	91,458		
1/4	1/4	191,092	1/4	180,842	1/4	170,532	1/4	160,196	1/4	149,843	1/4	136,065	1/4	121,099	1/4	106,131	1/4	91,146		
1/2	1/2	190,899	1/2	180,627	1/2	170,318	1/2	159,980	1/2	149,624	1/2	135,753	1/2	120,787	1/2	105,819	1/2	90,834		
3/4	3/4	190,707	180,412	3/4	170,103	3/4	159,765	3/4	149,405	3/4	135,441	3/4	120,476	3/4	105,507	3/4	90,521			
10	10	190,496	10	180,197	10	169,888	10	159,549	10	149,174	10	135,129	10	120,164	10	105,195	10	90,209		
1/4	1/4	190,284	1/4	179,982	1/4	169,673	1/4	159,334	1/4	148,943	1/4	134,818	1/4	119,852	1/4	104,882	1/4	89,897		
1/2	1/2	190,073	1/2	179,768	1/2	169,458	1/2	159,118	1/2	148,713	1/2	134,506	1/2	119,540	1/2	104,570	1/2	89,585		
3/4	3/4	189,862	179,553	3/4	169,244	3/4	158,902	3/4	148,482	3/4	134,194	3/4	119,229	3/4	104,258	3/4	89,273			
11	11	189,648	11	179,338	11	169,029	11	158,687	11	148,235	11	133,882	11	118,917	11	103,946	11	88,960		
1/4	1/4	189,433	1/4	179,123	1/4	168,814	1/4	158,471	1/4	147,989	1/4	133,570	1/4	118,605	1/4	103,634	1/4	88,648		
1/2	1/2	189,218	1/2	178,909	1/2	168,599	1/2	158,256	1/2	147,742	1/2	133,259	1/2	118,293	1/2	103,321	1/2	88,336		
3/4	3/4	189,004	178,694	3/4	168,385	3/4	158,040	3/4	147,495	3/4	132,947	3/4	117,981	3/4	103,009	3/4	88,024			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

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BARGE "HFL 441"

3 STBD ULLAGE 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	87,712	0	72,726	0	57,741	0	42,761	0	27,788	0	12,803	0		0					0
1/4	87,399	1/4	72,414	1/4	57,429	1/4	42,449	1/4	27,476	1/4	12,491	1/4		1/4					1/4
1/2	87,087	1/2	72,102	1/2	57,116	1/2	42,137	1/2	27,164	1/2	12,179	1/2		1/2					1/2
3/4	86,775	3/4	71,790	3/4	56,804	3/4	41,826	3/4	26,851	3/4	11,866	3/4		3/4					3/4
1	86,463	1	71,477	1	56,492	1	41,514	1	26,539	1	11,554	1		1					1
1/4	86,151	1/4	71,165	1/4	56,180	1/4	41,202	1/4	26,227	1/4	11,242	1/4		1/4					1/4
1/2	85,838	1/2	70,853	1/2	55,868	1/2	40,891	1/2	25,915	1/2	10,930	1/2		1/2					1/2
3/4	85,526	3/4	70,541	3/4	55,555	3/4	40,579	3/4	25,603	3/4	10,618	3/4		3/4					3/4
2	85,214	2	70,229	2	55,243	2	40,267	2	25,290	2	10,305	2		2					2
1/4	84,902	1/4	69,916	1/4	54,931	1/4	39,956	1/4	24,978	1/4	9,993	1/4		1/4					1/4
1/2	84,590	1/2	69,604	1/2	54,619	1/2	39,644	1/2	24,666	1/2	9,681	1/2		1/2					1/2
3/4	84,277	3/4	69,292	3/4	54,307	3/4	39,332	3/4	24,354	3/4	9,369	3/4		3/4					3/4
3	83,965	3	68,980	3	53,994	3	39,020	3	24,042	3	9,057	3		3					3
1/4	83,653	1/4	68,668	1/4	53,682	1/4	38,709	1/4	23,730	1/4	8,745	1/4		1/4					1/4
1/2	83,341	1/2	68,355	1/2	53,370	1/2	38,397	1/2	23,417	1/2	8,432	1/2		1/2					1/2
3/4	83,029	3/4	68,043	3/4	53,058	3/4	38,085	3/4	23,105	3/4	8,120	3/4		3/4					3/4
4	82,716	4	67,731	4	52,746	4	37,774	4	22,793	4	7,808	4		4					4
1/4	82,404	1/4	67,419	1/4	52,433	1/4	37,462	1/4	22,481	1/4	7,496	1/4		1/4					1/4
1/2	82,092	1/2	67,107	1/2	52,121	1/2	37,150	1/2	22,169	1/2	7,184	1/2		1/2					1/2
3/4	81,780	3/4	66,794	3/4	51,809	3/4	36,839	3/4	21,856	3/4	6,871	3/4		3/4					3/4
5	81,468	5	66,482	5	51,497	5	36,527	5	21,544	5	6,559	5		5					5
1/4	81,155	1/4	66,170	1/4	51,185	1/4	36,215	1/4	21,232	1/4	6,247	1/4		1/4					1/4
1/2	80,843	1/2	65,858	1/2	50,872	1/2	35,903	1/2	20,920	1/2	5,935	1/2		1/2					1/2
3/4	80,531	3/4	65,546	3/4	50,560	3/4	35,592	3/4	20,608	3/4	5,623	3/4		3/4					3/4
6	80,219	6	65,233	6	50,248	6	35,280	6	20,295	6	5,311	6		6					6
1/4	79,907	1/4	64,921	1/4	49,936	1/4	34,968	1/4	19,983	1/4	4,999	1/4		1/4					1/4
1/2	79,594	1/2	64,609	1/2	49,624	1/2	34,656	1/2	19,671	1/2	4,687	1/2		1/2					1/2
3/4	79,282	3/4	64,297	3/4	49,311	3/4	34,344	3/4	19,359	3/4	4,375	3/4		3/4					3/4
7	78,970	7	63,985	7	48,999	7	34,032	7	19,047	7	4,064	7		7					7
1/4	78,658	1/4	63,672	1/4	48,687	1/4	33,720	1/4	18,735	1/4	3,753	1/4		1/4					1/4
1/2	78,346	1/2	63,360	1/2	48,375	1/2	33,407	1/2	18,422	1/2	3,441	1/2		1/2					1/2
3/4	78,034	3/4	63,048	3/4	48,063	3/4	33,095	3/4	18,110	3/4	3,130	3/4		3/4					3/4
8	77,721	8	62,736	8	47,751	8	32,783	8	17,798	8	2,838	8		8					8
1/4	77,409	1/4	62,424	1/4	47,438	1/4	32,471	1/4	17,486	1/4	2,546	1/4		1/4					1/4
1/2	77,097	1/2	62,111	1/2	47,126	1/2	32,159	1/2	17,174	1/2	2,254	1/2		1/2					1/2
3/4	76,785	3/4	61,799	3/4	46,814	3/4	31,846	3/4	16,861	3/4	1,963	3/4		3/4					3/4
9	76,473	9	61,487	9	46,502	9	31,534	9	16,549	9	1,728	9		9					9
1/4	76,160	1/4	61,175	1/4	46,190	1/4	31,222	1/4	16,237	1/4	1,494	1/4		1/4					1/4
1/2	75,848	1/2	60,863	1/2	45,879	1/2	30,910	1/2	15,925	1/2	1,260	1/2		1/2					1/2
3/4	75,536	3/4	60,550	3/4	45,567	3/4	30,598	3/4	15,613	3/4	1,026	3/4		3/4					3/4
10	75,224	10	60,238	10	45,255	10	30,285	10	15,300	10		10		10					10
1/4	74,912	1/4	59,926	1/4	44,943	1/4	29,973	1/4	14,988	1/4		1/4		1/4					1/4
1/2	74,599	1/2	59,614	1/2	44,631	1/2	29,661	1/2	14,676	1/2		1/2		1/2					1/2
3/4	74,287	3/4	59,302	3/4	44,319	3/4	29,349	3/4	14,364	3/4		3/4		3/4					3/4
11	73,975	11	58,989	11	44,008	11	29,037	11	14,052	11		11		11					11
1/4	73,663	1/4	58,677	1/4	43,696	1/4	28,725	1/4	13,740	1/4		1/4		1/4					1/4
1/2	73,351	1/2	58,365	1/2	43,384	1/2	28,412	1/2	13,427	1/2		1/2		1/2					1/2
3/4	73,038	3/4	58,053	3/4	43,073	3/4	28,100	3/4	13,115	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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3 PORT ULLAGE 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	0	0	187,818	0	177,504	0	167,191	0	156,844	0	146,249	0	131,679	0	116,742	0	101,797		
1/4	1/4	1/4	187,603	1/4	177,289	1/4	166,976	1/4	156,628	1/4	145,987	1/4	131,368	1/4	116,431	1/4	101,486		
1/2	1/2	1/2	187,388	1/2	177,075	1/2	166,761	1/2	156,412	1/2	145,724	1/2	131,057	1/2	116,119	1/2	101,174		
3/4	3/4	3/4	187,173	3/4	176,860	3/4	166,546	3/4	156,197	3/4	145,462	3/4	130,746	3/4	115,808	3/4	100,862		
1	1	1	186,958	1	176,645	1	166,330	1	155,981	1	145,184	1	130,434	1	115,497	1	100,551		
1/4	1/4	1/4	186,743	1/4	176,430	1/4	166,115	1/4	155,766	1/4	144,906	1/4	130,123	1/4	115,186	1/4	100,239		
1/2	1/2	1/2	186,528	1/2	176,215	1/2	165,899	1/2	155,550	1/2	144,628	1/2	129,812	1/2	114,875	1/2	99,928		
3/4	3/4	3/4	186,313	3/4	176,000	3/4	165,683	3/4	155,334	3/4	144,349	3/4	129,501	3/4	114,563	3/4	99,616		
2	2	2	186,098	2	175,786	2	165,468	2	155,119	2	144,055	2	129,190	2	114,252	2	99,304		
1/4	1/4	1/4	185,883	1/4	175,571	1/4	165,252	1/4	154,903	1/4	143,761	1/4	128,878	1/4	113,941	1/4	98,993		
1/2	1/2	1/2	185,668	1/2	175,356	1/2	165,037	1/2	154,688	1/2	143,467	1/2	128,567	1/2	113,630	1/2	98,681		
3/4	3/4	3/4	185,453	3/4	175,141	3/4	164,821	3/4	154,472	3/4	143,173	3/4	128,256	3/4	113,319	3/4	98,370		
3	3	3	185,239	3	174,926	3	164,605	3	154,256	3	142,866	3	127,945	3	113,007	3	98,058		
1/4	1/4	1/4	185,024	1/4	174,711	1/4	164,390	1/4	154,041	1/4	142,560	1/4	127,634	1/4	112,696	1/4	97,747		
1/2	1/2	1/2	184,809	1/2	174,496	1/2	164,174	1/2	153,825	1/2	142,254	1/2	127,322	1/2	112,385	1/2	97,435		
3/4	3/4	3/4	184,594	3/4	174,282	3/4	163,958	3/4	153,610	3/4	141,947	3/4	127,011	3/4	112,074	3/4	97,124		
4	4	4	184,379	4	174,067	4	163,743	4	153,394	4	141,636	4	126,700	4	111,763	4	96,812		
1/4	1/4	1/4	184,164	1/4	173,852	1/4	163,527	1/4	153,178	1/4	141,325	1/4	126,389	1/4	111,451	1/4	96,501		
1/2	1/2	1/2	183,950	1/2	173,637	1/2	163,312	1/2	152,963	1/2	141,014	1/2	126,078	1/2	111,140	1/2	96,190		
3/4	3/4	3/4	183,735	3/4	173,422	3/4	163,096	3/4	152,747	3/4	140,703	3/4	125,766	3/4	110,829	3/4	95,878		
5	5	5	183,520	5	173,207	5	162,880	5	152,532	5	140,392	5	125,455	5	110,518	5	95,567		
1/4	1/4	1/4	183,305	1/4	172,993	1/4	162,665	1/4	152,316	1/4	140,081	1/4	125,144	1/4	110,207	1/4	95,256		
1/2	1/2	1/2	183,090	1/2	172,778	1/2	162,449	1/2	152,100	1/2	139,770	1/2	124,833	1/2	109,895	1/2	94,944		
3/4	3/4	3/4	182,875	3/4	172,563	3/4	162,234	3/4	151,885	3/4	139,459	3/4	124,522	3/4	109,584	3/4	94,633		
6	6	6	182,660	6	172,348	6	162,018	6	151,669	6	139,148	6	124,210	6	109,273	6	94,321		
1/4	1/4	1/4	182,446	1/4	172,133	1/4	161,802	1/4	151,454	1/4	138,837	1/4	123,899	1/4	108,962	1/4	94,010		
1/2	1/2	1/2	182,231	1/2	171,918	1/2	161,587	1/2	151,238	1/2	138,525	1/2	123,588	1/2	108,651	1/2	93,699		
3/4	3/4	191,638	182,016	3/4	171,703	3/4	161,371	3/4	151,022	3/4	138,214	3/4	123,277	3/4	108,339	3/4	93,387		
7	7	191,514	181,801	7	171,489	7	161,156	7	150,807	7	137,903	7	122,966	7	108,028	7	93,076		
1/4	1/4	191,391	181,586	1/4	171,274	1/4	160,940	1/4	150,591	1/4	137,592	1/4	122,654	1/4	107,717	1/4	92,765		
1/2	1/2	191,268	181,371	1/2	171,059	1/2	160,724	1/2	150,376	1/2	137,281	1/2	122,343	1/2	107,405	1/2	92,453		
3/4	3/4	191,144	181,157	3/4	170,844	3/4	160,509	3/4	150,160	3/4	136,969	3/4	122,032	3/4	107,094	3/4	92,142		
8	8	190,985	180,942	8	170,629	8	160,293	8	149,944	8	136,658	8	121,721	8	106,783	8	91,831		
1/4	1/4	190,825	180,727	1/4	170,414	1/4	160,078	1/4	149,729	1/4	136,347	1/4	121,410	1/4	106,471	1/4	91,519		
1/2	1/2	190,666	180,512	1/2	170,200	1/2	159,862	1/2	149,513	1/2	136,036	1/2	121,098	1/2	106,160	1/2	91,208		
3/4	3/4	190,507	180,297	3/4	169,985	3/4	159,646	3/4	149,298	3/4	135,725	3/4	120,787	3/4	105,848	3/4	90,897		
9	9	190,314	180,082	9	169,770	9	159,431	9	149,078	9	135,413	9	120,476	9	105,537	9	90,585		
1/4	1/4	190,121	179,868	1/4	169,555	1/4	159,215	1/4	148,859	1/4	135,102	1/4	120,165	1/4	105,225	1/4	90,274		
1/2	1/2	189,929	179,653	1/2	169,340	1/2	159,000	1/2	148,640	1/2	134,791	1/2	119,854	1/2	104,913	1/2	89,962		
3/4	3/4	189,736	179,438	3/4	169,125	3/4	158,784	3/4	148,421	3/4	134,480	3/4	119,543	3/4	104,602	3/4	89,651		
10	10	189,525	179,223	10	168,911	10	158,568	10	148,190	10	134,169	10	119,231	10	104,290	10	89,340		
1/4	1/4	189,313	179,008	1/4	168,696	1/4	158,353	1/4	147,960	1/4	133,857	1/4	118,920	1/4	103,979	1/4	89,028		
1/2	1/2	189,102	178,793	1/2	168,481	1/2	158,137	1/2	147,729	1/2	133,546	1/2	118,609	1/2	103,667	1/2	88,717		
3/4	3/4	188,891	178,578	3/4	168,266	3/4	157,922	3/4	147,498	3/4	133,235	3/4	118,298	3/4	103,355	3/4	88,406		
11	11	188,676	178,364	11	168,051	11	157,706	11	147,252	11	132,924	11	117,987	11	103,044	11	88,094		
1/4	1/4	188,462	178,149	1/4	167,836	1/4	157,490	1/4	147,005	1/4	132,613	1/4	117,675	1/4	102,732	1/4	87,783		
1/2	1/2	188,247	177,934	1/2	167,621	1/2	157,275	1/2	146,758	1/2	132,301	1/2	117,364	1/2	102,421	1/2	87,471		
3/4	3/4	188,032	177,719	3/4	167,407	3/4	157,059	3/4	146,511	3/4	131,990	3/4	117,053	3/4	102,109	3/4	87,160		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 441"

3 PORT ULLAGE 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	86,848	0	71,925	0	57,073	0	42,566	0	27,762	0	12,799	0		0				0	
1/4	86,536	1/4	71,615	1/4	56,769	1/4	42,262	1/4	27,450	1/4	12,487	1/4		1/4				1/4	1/4
1/2	86,225	1/2	71,305	1/2	56,466	1/2	41,957	1/2	27,138	1/2	12,176	1/2		1/2				1/2	1/2
3/4	85,913	3/4	70,996	3/4	56,162	3/4	41,653	3/4	26,827	3/4	11,864	3/4		3/4				3/4	3/4
1	85,601	1	70,686	1	55,861	1	41,348	1	26,515	1	11,552	1		1				1	1
1/4	85,290	1/4	70,376	1/4	55,559	1/4	41,044	1/4	26,204	1/4	11,240	1/4		1/4				1/4	1/4
1/2	84,978	1/2	70,067	1/2	55,257	1/2	40,739	1/2	25,892	1/2	10,928	1/2		1/2				1/2	1/2
3/4	84,666	3/4	69,757	3/4	54,955	3/4	40,435	3/4	25,580	3/4	10,616	3/4		3/4				3/4	3/4
2	84,355	2	69,447	2	54,653	2	40,131	2	25,268	2	10,304	2		2				2	2
1/4	84,043	1/4	69,137	1/4	54,351	1/4	39,826	1/4	24,957	1/4	9,991	1/4		1/4				1/4	1/4
1/2	83,731	1/2	68,828	1/2	54,049	1/2	39,522	1/2	24,645	1/2	9,679	1/2		1/2				1/2	1/2
3/4	83,420	3/4	68,518	3/4	53,747	3/4	39,217	3/4	24,333	3/4	9,367	3/4		3/4				3/4	3/4
3	83,108	3	68,208	3	53,445	3	38,913	3	24,022	3	9,055	3		3				3	3
1/4	82,796	1/4	67,899	1/4	53,144	1/4	38,608	1/4	23,710	1/4	8,743	1/4		1/4				1/4	1/4
1/2	82,484	1/2	67,589	1/2	52,842	1/2	38,304	1/2	23,398	1/2	8,431	1/2		1/2				1/2	1/2
3/4	82,173	3/4	67,279	3/4	52,540	3/4	38,000	3/4	23,086	3/4	8,118	3/4		3/4				3/4	3/4
4	81,861	4	66,969	4	52,238	4	37,695	4	22,775	4	7,807	4		4				4	4
1/4	81,549	1/4	66,660	1/4	51,936	1/4	37,391	1/4	22,463	1/4	7,495	1/4		1/4				1/4	1/4
1/2	81,238	1/2	66,350	1/2	51,634	1/2	37,086	1/2	22,151	1/2	7,183	1/2		1/2				1/2	1/2
3/4	80,926	3/4	66,040	3/4	51,332	3/4	36,782	3/4	21,839	3/4	6,871	3/4		3/4				3/4	3/4
5	80,614	5	65,731	5	51,030	5	36,474	5	21,528	5	6,559	5		5				5	5
1/4	80,303	1/4	65,421	1/4	50,728	1/4	36,167	1/4	21,216	1/4	6,247	1/4		1/4				1/4	1/4
1/2	79,991	1/2	65,111	1/2	50,427	1/2	35,859	1/2	20,904	1/2	5,935	1/2		1/2				1/2	1/2
3/4	79,679	3/4	64,801	3/4	50,125	3/4	35,552	3/4	20,592	3/4	5,623	3/4		3/4				3/4	3/4
6	79,368	6	64,492	6	49,823	6	35,240	6	20,281	6	5,311	6		6				6	6
1/4	79,056	1/4	64,182	1/4	49,521	1/4	34,929	1/4	19,969	1/4	4,999	1/4		1/4				1/4	1/4
1/2	78,744	1/2	63,872	1/2	49,219	1/2	34,618	1/2	19,657	1/2	4,687	1/2		1/2				1/2	1/2
3/4	78,433	3/4	63,563	3/4	48,917	3/4	34,307	3/4	19,345	3/4	4,375	3/4		3/4				3/4	3/4
7	78,122	7	63,252	7	48,615	7	33,995	7	19,034	7	4,064	7		7				7	7
1/4	77,811	1/4	62,942	1/4	48,313	1/4	33,683	1/4	18,722	1/4	3,753	1/4		1/4				1/4	1/4
1/2	77,501	1/2	62,631	1/2	48,011	1/2	33,372	1/2	18,410	1/2	3,442	1/2		1/2				1/2	1/2
3/4	77,190	3/4	62,320	3/4	47,710	3/4	33,060	3/4	18,099	3/4	3,130	3/4		3/4				3/4	3/4
8	76,880	8	62,009	8	47,408	8	32,748	8	17,787	8	2,839	8		8				8	8
1/4	76,571	1/4	61,698	1/4	47,107	1/4	32,436	1/4	17,475	1/4	2,547	1/4		1/4				1/4	1/4
1/2	76,261	1/2	61,386	1/2	46,805	1/2	32,125	1/2	17,163	1/2	2,255	1/2		1/2				1/2	1/2
3/4	75,951	3/4	61,075	3/4	46,504	3/4	31,813	3/4	16,852	3/4	1,963	3/4		3/4				3/4	3/4
9	75,641	9	60,764	9	46,202	9	31,501	9	16,540	9	1,729	9		9				9	9
1/4	75,332	1/4	60,452	1/4	45,901	1/4	31,189	1/4	16,228	1/4	1,495	1/4		1/4				1/4	1/4
1/2	75,022	1/2	60,141	1/2	45,600	1/2	30,878	1/2	15,916	1/2	1,260	1/2		1/2				1/2	1/2
3/4	74,712	3/4	59,830	3/4	45,299	3/4	30,566	3/4	15,605	3/4	1,026	3/4		3/4				3/4	3/4
10	74,403	10	59,521	10	44,996	10	30,254	10	15,293	10		10		10				10	10
1/4	74,093	1/4	59,213	1/4	44,694	1/4	29,943	1/4	14,981	1/4		1/4		1/4				1/4	1/4
1/2	73,783	1/2	58,905	1/2	44,391	1/2	29,631	1/2	14,669	1/2		1/2		1/2				1/2	1/2
3/4	73,473	3/4	58,597	3/4	44,088	3/4	29,319	3/4	14,358	3/4		3/4		3/4				3/4	3/4
11	73,164	11	58,292	11	43,784	11	29,008	11	14,046	11		11		11				11	11
1/4	72,854	1/4	57,987	1/4	43,479	1/4	28,696	1/4	13,734	1/4		1/4		1/4				1/4	1/4
1/2	72,544	1/2	57,681	1/2	43,175	1/2	28,385	1/2	13,422	1/2		1/2		1/2				1/2	1/2
3/4	72,235	3/4	57,376	3/4	42,870	3/4	28,073	3/4	13,111	3/4		3/4		3/4				3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HFL 441"

2 STBD ULLAGE 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	0	0	0	0	208,439	0	193,486	0	178,482	0	163,429	0	148,374	0	133,319	0	118,264	0	103,206
1/4	1/4	1/4	1/4	1/4	208,129	1/4	193,174	1/4	178,169	1/4	163,115	1/4	148,060	1/4	133,005	1/4	117,951	1/4	102,892
1/2	1/2	1/2	1/2	1/2	207,819	1/2	192,861	1/2	177,856	1/2	162,801	1/2	147,747	1/2	132,692	1/2	117,637	1/2	102,578
3/4	3/4	3/4	3/4	3/4	207,510	3/4	192,548	3/4	177,543	3/4	162,488	3/4	147,433	3/4	132,378	3/4	117,323	3/4	102,264
1	1	1	1	1	207,200	1	192,236	1	177,229	1	162,174	1	147,119	1	132,064	1	117,010	1	101,951
1/4	1/4	1/4	1/4	1/4	206,891	1/4	191,923	1/4	176,915	1/4	161,860	1/4	146,806	1/4	131,751	1/4	116,696	1/4	101,637
1/2	1/2	1/2	1/2	1/2	206,581	1/2	191,611	1/2	176,602	1/2	161,547	1/2	146,492	1/2	131,437	1/2	116,382	1/2	101,323
3/4	3/4	3/4	3/4	3/4	206,271	3/4	191,298	3/4	176,288	3/4	161,233	3/4	146,178	3/4	131,124	3/4	116,069	3/4	101,009
2	2	2	2	2	205,962	2	190,986	2	175,974	2	160,920	2	145,865	2	130,810	2	115,755	2	100,695
1/4	1/4	1/4	1/4	1/4	205,652	1/4	190,673	1/4	175,661	1/4	160,606	1/4	145,551	1/4	130,496	1/4	115,441	1/4	100,382
1/2	1/2	1/2	1/2	1/2	205,343	1/2	190,360	1/2	175,347	1/2	160,292	1/2	145,237	1/2	130,183	1/2	115,128	1/2	100,068
3/4	3/4	3/4	3/4	3/4	205,033	3/4	190,048	3/4	175,033	3/4	159,979	3/4	144,924	3/4	129,869	3/4	114,814	3/4	99,754
3	3	3	3	3	204,724	3	189,735	3	174,720	3	159,665	3	144,610	3	129,555	3	114,500	3	99,440
1/4	1/4	1/4	1/4	1/4	204,414	1/4	189,423	1/4	174,406	1/4	159,351	1/4	144,296	1/4	129,242	1/4	114,187	1/4	99,126
1/2	1/2	1/2	1/2	1/2	204,105	1/2	189,110	1/2	174,093	1/2	159,038	1/2	143,983	1/2	128,928	1/2	113,873	1/2	98,813
3/4	3/4	3/4	3/4	3/4	203,795	3/4	188,798	3/4	173,779	3/4	158,724	3/4	143,669	3/4	128,614	3/4	113,560	3/4	98,499
4	4	4	4	4	203,484	4	188,485	4	173,465	4	158,410	4	143,356	4	128,301	4	113,246	4	98,185
1/4	1/4	1/4	1/4	1/4	203,173	1/4	188,172	1/4	173,152	1/4	158,097	1/4	143,042	1/4	127,987	1/4	112,932	1/4	97,871
1/2	1/2	1/2	1/2	1/2	202,862	1/2	187,860	1/2	172,838	1/2	157,783	1/2	142,728	1/2	127,673	1/2	112,619	1/2	97,557
3/4	3/4	3/4	3/4	3/4	202,551	3/4	187,547	3/4	172,524	3/4	157,469	3/4	142,415	3/4	127,360	3/4	112,305	3/4	97,244
5	5	5	5	5	202,238	5	187,235	5	172,211	5	157,156	5	142,101	5	127,046	5	111,991	5	96,930
1/4	1/4	1/4	1/4	1/4	201,926	1/4	186,922	1/4	171,897	1/4	156,842	1/4	141,787	1/4	126,733	1/4	111,678	1/4	96,616
1/2	1/2	1/2	1/2	1/2	201,613	1/2	186,609	1/2	171,583	1/2	156,529	1/2	141,474	1/2	126,419	1/2	111,364	1/2	96,302
3/4	3/4	3/4	3/4	3/4	201,301	3/4	186,297	3/4	171,270	3/4	156,215	3/4	141,160	3/4	126,105	3/4	111,050	3/4	95,988
6	6	6	6	6	200,988	6	185,984	6	170,956	6	155,901	6	140,846	6	125,792	6	110,737	6	95,675
1/4	1/4	1/4	1/4	1/4	200,676	1/4	185,672	1/4	170,642	1/4	155,588	1/4	140,533	1/4	125,478	1/4	110,423	1/4	95,361
1/2	1/2	1/2	1/2	1/2	200,363	1/2	185,359	1/2	170,329	1/2	155,274	1/2	140,219	1/2	125,164	1/2	110,109	1/2	95,047
3/4	3/4	3/4	3/4	3/4	213,966	3/4	200,050	3/4	185,047	3/4	170,015	3/4	154,960	3/4	139,905	3/4	124,851	3/4	109,796
7	7	7	7	7	213,787	7	199,738	7	184,734	7	169,702	7	154,647	7	139,592	7	124,537	7	109,482
1/4	1/4	1/4	1/4	1/4	213,608	1/4	199,425	1/4	184,421	1/4	169,388	1/4	154,333	1/4	139,278	1/4	124,223	1/4	109,168
1/2	1/2	1/2	1/2	1/2	213,429	1/2	199,113	1/2	184,109	1/2	169,074	1/2	154,019	1/2	138,965	1/2	123,910	1/2	108,854
3/4	3/4	3/4	3/4	3/4	213,250	3/4	198,800	3/4	183,796	3/4	168,761	3/4	153,706	3/4	138,651	3/4	123,596	3/4	108,540
8	8	8	8	8	213,019	8	198,487	8	183,484	8	168,447	8	153,392	8	138,337	8	123,282	8	108,227
1/4	1/4	1/4	1/4	1/4	212,788	1/4	198,175	1/4	183,171	1/4	168,133	1/4	153,078	1/4	138,024	1/4	122,969	1/4	107,913
1/2	1/2	1/2	1/2	1/2	212,556	1/2	197,862	1/2	182,859	1/2	167,820	1/2	152,765	1/2	137,710	1/2	122,655	1/2	107,599
3/4	3/4	3/4	3/4	3/4	212,325	3/4	197,550	3/4	182,546	3/4	167,506	3/4	152,451	3/4	137,396	3/4	122,342	3/4	107,285
9	9	9	9	9	212,045	9	197,237	9	182,233	9	167,192	9	152,138	9	137,083	9	122,028	9	106,971
1/4	1/4	1/4	1/4	1/4	211,766	1/4	196,925	1/4	181,921	1/4	166,879	1/4	151,824	1/4	136,769	1/4	121,714	1/4	106,658
1/2	1/2	1/2	1/2	1/2	211,486	1/2	196,612	1/2	181,608	1/2	166,565	1/2	151,510	1/2	136,455	1/2	121,401	1/2	106,344
3/4	3/4	3/4	3/4	3/4	211,206	3/4	196,299	3/4	181,296	3/4	166,251	3/4	151,197	3/4	136,142	3/4	121,087	3/4	106,030
10	10	10	10	10	210,901	10	195,987	10	180,983	10	165,938	10	150,883	10	135,828	10	120,773	10	105,716
1/4	1/4	1/4	1/4	1/4	210,595	1/4	195,674	1/4	180,670	1/4	165,624	1/4	150,569	1/4	135,514	1/4	120,460	1/4	105,402
1/2	1/2	1/2	1/2	1/2	210,290	1/2	195,362	1/2	180,358	1/2	165,311	1/2	150,256	1/2	135,201	1/2	120,146	1/2	105,089
3/4	3/4	3/4	3/4	3/4	209,985	3/4	195,049	3/4	180,045	3/4	164,997	3/4	149,942	3/4	134,887	3/4	119,832	3/4	104,775
11	11	11	11	11	209,675	11	194,737	11	179,733	11	164,683	11	149,628	11	134,574	11	119,519	11	104,461
1/4	1/4	1/4	1/4	1/4	209,366	1/4	194,424	1/4	179,420	1/4	164,370	1/4	149,315	1/4	134,260	1/4	119,205	1/4	104,147
1/2	1/2	1/2	1/2	1/2	209,057	1/2	194,111	1/2	179,108	1/2	164,056	1/2	149,001	1/2	133,946	1/2	118,891	1/2	103,833
3/4	3/4	3/4	3/4	3/4	208,748	3/4	193,799	3/4	178,795	3/4	163,742	3/4	148,687	3/4	133,633	3/4	118,578	3/4	103,520

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 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 441"

2 STBD ULLAGE 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	88,143	0	73,081	0	58,019	0	42,979	0	27,931	0	12,869	0		0				0	
1/4	87,830	1/4	72,767	1/4	57,705	1/4	42,667	1/4	27,617	1/4	12,555	1/4		1/4				1/4	
1/2	87,516	1/2	72,453	1/2	57,391	1/2	42,354	1/2	27,303	1/2	12,241	1/2		1/2				1/2	
3/4	87,202	3/4	72,140	3/4	57,077	3/4	42,041	3/4	26,990	3/4	11,928	3/4		3/4				3/4	
1	86,888	1	71,826	1	56,763	1	41,728	1	26,676	1	11,614	1		1				1	
1/4	86,574	1/4	71,512	1/4	56,450	1/4	41,415	1/4	26,362	1/4	11,300	1/4		1/4				1/4	
1/2	86,261	1/2	71,198	1/2	56,136	1/2	41,102	1/2	26,049	1/2	10,986	1/2		1/2				1/2	
3/4	85,947	3/4	70,884	3/4	55,822	3/4	40,789	3/4	25,735	3/4	10,673	3/4		3/4				3/4	
2	85,633	2	70,571	2	55,508	2	40,476	2	25,421	2	10,359	2		2				2	
1/4	85,319	1/4	70,257	1/4	55,194	1/4	40,164	1/4	25,107	1/4	10,045	1/4		1/4				1/4	
1/2	85,005	1/2	69,943	1/2	54,881	1/2	39,851	1/2	24,793	1/2	9,731	1/2		1/2				1/2	
3/4	84,692	3/4	69,629	3/4	54,567	3/4	39,538	3/4	24,480	3/4	9,417	3/4		3/4				3/4	
3	84,378	3	69,315	3	54,253	3	39,225	3	24,166	3	9,104	3		3				3	
1/4	84,064	1/4	69,002	1/4	53,939	1/4	38,911	1/4	23,852	1/4	8,790	1/4		1/4				1/4	
1/2	83,750	1/2	68,688	1/2	53,625	1/2	38,598	1/2	23,538	1/2	8,476	1/2		1/2				1/2	
3/4	83,436	3/4	68,374	3/4	53,312	3/4	38,285	3/4	23,224	3/4	8,162	3/4		3/4				3/4	
4	83,123	4	68,060	4	52,998	4	37,971	4	22,911	4	7,848	4		4				4	
1/4	82,809	1/4	67,746	1/4	52,684	1/4	37,657	1/4	22,597	1/4	7,535	1/4		1/4				1/4	
1/2	82,495	1/2	67,433	1/2	52,370	1/2	37,343	1/2	22,283	1/2	7,221	1/2		1/2				1/2	
3/4	82,181	3/4	67,119	3/4	52,056	3/4	37,029	3/4	21,969	3/4	6,907	3/4		3/4				3/4	
5	81,867	5	66,805	5	51,743	5	36,716	5	21,655	5	6,593	5		5				5	
1/4	81,554	1/4	66,491	1/4	51,429	1/4	36,402	1/4	21,342	1/4	6,279	1/4		1/4				1/4	
1/2	81,240	1/2	66,177	1/2	51,116	1/2	36,088	1/2	21,028	1/2	5,966	1/2		1/2				1/2	
3/4	80,926	3/4	65,864	3/4	50,803	3/4	35,774	3/4	20,714	3/4	5,652	3/4		3/4				3/4	
6	80,612	6	65,550	6	50,489	6	35,460	6	20,400	6	5,338	6		6				6	
1/4	80,298	1/4	65,236	1/4	50,176	1/4	35,147	1/4	20,086	1/4	5,025	1/4		1/4				1/4	
1/2	79,985	1/2	64,922	1/2	49,863	1/2	34,833	1/2	19,773	1/2	4,711	1/2		1/2				1/2	
3/4	79,671	3/4	64,608	3/4	49,550	3/4	34,519	3/4	19,459	3/4	4,398	3/4		3/4				3/4	
7	79,357	7	64,295	7	49,237	7	34,205	7	19,145	7	4,085	7		7				7	
1/4	79,043	1/4	63,981	1/4	48,924	1/4	33,891	1/4	18,831	1/4	3,772	1/4		1/4				1/4	
1/2	78,729	1/2	63,667	1/2	48,611	1/2	33,578	1/2	18,517	1/2	3,459	1/2		1/2				1/2	
3/4	78,416	3/4	63,353	3/4	48,298	3/4	33,264	3/4	18,204	3/4	3,146	3/4		3/4				3/4	
8	78,102	8	63,039	8	47,985	8	32,950	8	17,890	8	2,853	8		8				8	
1/4	77,788	1/4	62,726	1/4	47,672	1/4	32,636	1/4	17,576	1/4	2,560	1/4		1/4				1/4	
1/2	77,474	1/2	62,412	1/2	47,360	1/2	32,322	1/2	17,262	1/2	2,266	1/2		1/2				1/2	
3/4	77,160	3/4	62,098	3/4	47,047	3/4	32,009	3/4	16,948	3/4	1,973	3/4		3/4				3/4	
9	76,847	9	61,784	9	46,734	9	31,695	9	16,635	9	1,737	9		9				9	
1/4	76,533	1/4	61,470	1/4	46,421	1/4	31,381	1/4	16,321	1/4	1,502	1/4		1/4				1/4	
1/2	76,219	1/2	61,157	1/2	46,108	1/2	31,067	1/2	16,007	1/2	1,267	1/2		1/2				1/2	
3/4	75,905	3/4	60,843	3/4	45,795	3/4	30,753	3/4	15,693	3/4	1,032	3/4		3/4				3/4	
10	75,591	10	60,529	10	45,482	10	30,440	10	15,379	10		10		10				10	
1/4	75,278	1/4	60,215	1/4	45,170	1/4	30,126	1/4	15,066	1/4		1/4		1/4				1/4	
1/2	74,964	1/2	59,901	1/2	44,857	1/2	29,812	1/2	14,752	1/2		1/2		1/2				1/2	
3/4	74,650	3/4	59,588	3/4	44,544	3/4	29,498	3/4	14,438	3/4		3/4		3/4				3/4	
11	74,336	11	59,274	11	44,231	11	29,185	11	14,124	11		11		11				11	
1/4	74,022	1/4	58,960	1/4	43,918	1/4	28,871	1/4	13,810	1/4		1/4		1/4				1/4	
1/2	73,709	1/2	58,646	1/2	43,605	1/2	28,558	1/2	13,497	1/2		1/2		1/2				1/2	
3/4	73,395	3/4	58,332	3/4	43,292	3/4	28,244	3/4	13,183	3/4		3/4		3/4				3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 441"

2 PORT ULLAGE 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	0	0	0	0	207,542	0	192,598	0	177,600	0	162,552	0	147,503	0	132,454	0	117,404	0	102,351
1/4		1/4		1/4	207,232	1/4	192,285	1/4	177,287	1/4	162,239	1/4	147,189	1/4	132,140	1/4	117,091	1/4	102,038
1/2		1/2		1/2	206,923	1/2	191,973	1/2	176,974	1/2	161,925	1/2	146,876	1/2	131,827	1/2	116,777	1/2	101,724
3/4		3/4		3/4	206,613	3/4	191,660	3/4	176,661	3/4	161,612	3/4	146,562	3/4	131,513	3/4	116,464	3/4	101,410
1	1	1	1	1	206,304	1	191,348	1	176,348	1	161,298	1	146,249	1	131,200	1	116,150	1	101,097
1/4		1/4		1/4	205,994	1/4	191,036	1/4	176,034	1/4	160,985	1/4	145,935	1/4	130,886	1/4	115,837	1/4	100,783
1/2		1/2		1/2	205,685	1/2	190,723	1/2	175,721	1/2	160,671	1/2	145,622	1/2	130,572	1/2	115,523	1/2	100,469
3/4		3/4		3/4	205,375	3/4	190,411	3/4	175,407	3/4	160,358	3/4	145,308	3/4	130,259	3/4	115,210	3/4	100,156
2	2	2	2	2	205,066	2	190,098	2	175,094	2	160,044	2	144,995	2	129,945	2	114,896	2	99,842
1/4		1/4		1/4	204,756	1/4	189,786	1/4	174,780	1/4	159,731	1/4	144,681	1/4	129,632	1/4	114,583	1/4	99,528
1/2		1/2		1/2	204,447	1/2	189,473	1/2	174,466	1/2	159,417	1/2	144,368	1/2	129,318	1/2	114,269	1/2	99,215
3/4		3/4		3/4	204,137	3/4	189,161	3/4	174,153	3/4	159,104	3/4	144,054	3/4	129,005	3/4	113,955	3/4	98,901
3	3	3	3	3	203,828	3	188,848	3	173,839	3	158,790	3	143,741	3	128,691	3	113,642	3	98,587
1/4		1/4		1/4	203,519	1/4	188,536	1/4	173,526	1/4	158,476	1/4	143,427	1/4	128,378	1/4	113,328	1/4	98,274
1/2		1/2		1/2	203,209	1/2	188,223	1/2	173,212	1/2	158,163	1/2	143,114	1/2	128,064	1/2	113,015	1/2	97,960
3/4		3/4		3/4	202,900	3/4	187,911	3/4	172,899	3/4	157,849	3/4	142,800	3/4	127,751	3/4	112,701	3/4	97,646
4	4	4	4	4	202,591	4	187,598	4	172,585	4	157,536	4	142,487	4	127,437	4	112,388	4	97,332
1/4		1/4		1/4	202,280	1/4	187,286	1/4	172,272	1/4	157,222	1/4	142,173	1/4	127,124	1/4	112,074	1/4	97,019
1/2		1/2		1/2	201,969	1/2	186,974	1/2	171,958	1/2	156,909	1/2	141,859	1/2	126,810	1/2	111,761	1/2	96,705
3/4		3/4		3/4	201,658	3/4	186,661	3/4	171,645	3/4	156,595	3/4	141,546	3/4	126,497	3/4	111,447	3/4	96,391
5	5	5	5	5	201,347	5	186,349	5	171,331	5	156,282	5	141,232	5	126,183	5	111,134	5	96,078
1/4		1/4		1/4	201,034	1/4	186,036	1/4	171,018	1/4	155,968	1/4	140,919	1/4	125,870	1/4	110,820	1/4	95,764
1/2		1/2		1/2	200,722	1/2	185,724	1/2	170,704	1/2	155,655	1/2	140,605	1/2	125,556	1/2	110,507	1/2	95,450
3/4		3/4		3/4	200,409	3/4	185,411	3/4	170,391	3/4	155,341	3/4	140,292	3/4	125,242	3/4	110,193	3/4	95,137
6	6	6	6	6	200,097	6	185,099	6	170,077	6	155,028	6	139,978	6	124,929	6	109,880	6	94,823
1/4		1/4		1/4	199,785	1/4	184,786	1/4	169,764	1/4	154,714	1/4	139,665	1/4	124,615	1/4	109,566	1/4	94,509
1/2		1/2		1/2	199,472	1/2	184,474	1/2	169,450	1/2	154,401	1/2	139,351	1/2	124,302	1/2	109,252	1/2	94,196
3/4		3/4		3/4	199,160	3/4	184,161	3/4	169,136	3/4	154,087	3/4	139,038	3/4	123,988	3/4	108,939	3/4	93,882
7	7	212,757	7	198,847	7	183,849	7	168,823	7	153,774	7	138,724	7	123,675	7	108,625	7	93,568	
1/4		212,578	1/4	198,535	1/4	183,536	1/4	168,509	1/4	153,460	1/4	138,411	1/4	123,361	1/4	108,311	1/4	93,255	
1/2		212,400	1/2	198,222	1/2	183,224	1/2	168,196	1/2	153,147	1/2	138,097	1/2	123,048	1/2	107,998	1/2	92,941	
3/4		212,221	3/4	197,910	3/4	182,911	3/4	167,882	3/4	152,833	3/4	137,784	3/4	122,734	3/4	107,684	3/4	92,627	
8	8	212,042	8	197,597	8	182,599	8	167,569	8	152,519	8	137,470	8	122,421	8	107,370	8	92,314	
1/4		211,811	1/4	197,285	1/4	182,287	1/4	167,255	1/4	152,206	1/4	137,157	1/4	122,107	1/4	107,057	1/4	92,000	
1/2		211,580	1/2	196,972	1/2	181,974	1/2	166,942	1/2	151,892	1/2	136,843	1/2	121,794	1/2	106,743	1/2	91,686	
3/4		211,349	3/4	196,660	3/4	181,662	3/4	166,628	3/4	151,579	3/4	136,530	3/4	121,480	3/4	106,429	3/4	91,372	
9	9	211,117	9	196,347	9	181,349	9	166,315	9	151,265	9	136,216	9	121,167	9	106,116	9	91,059	
1/4		210,838	1/4	196,035	1/4	181,037	1/4	166,001	1/4	150,952	1/4	135,902	1/4	120,853	1/4	105,802	1/4	90,745	
1/2		210,558	1/2	195,723	1/2	180,724	1/2	165,688	1/2	150,638	1/2	135,589	1/2	120,540	1/2	105,488	1/2	90,431	
3/4		210,279	3/4	195,410	3/4	180,412	3/4	165,374	3/4	150,325	3/4	135,275	3/4	120,226	3/4	105,175	3/4	90,118	
10	10	209,999	10	195,098	10	180,099	10	165,061	10	150,011	10	134,962	10	119,913	10	104,861	10	89,804	
1/4		209,694	1/4	194,785	1/4	179,787	1/4	164,747	1/4	149,698	1/4	134,648	1/4	119,599	1/4	104,547	1/4	89,490	
1/2		209,388	1/2	194,473	1/2	179,474	1/2	164,434	1/2	149,384	1/2	134,335	1/2	119,285	1/2	104,234	1/2	89,177	
3/4		209,083	3/4	194,160	3/4	179,162	3/4	164,120	3/4	149,071	3/4	134,021	3/4	118,972	3/4	103,920	3/4	88,863	
11	11	208,778	11	193,848	11	178,849	11	163,806	11	148,757	11	133,708	11	118,658	11	103,606	11	88,549	
1/4		208,469	1/4	193,535	1/4	178,537	1/4	163,493	1/4	148,444	1/4	133,394	1/4	118,345	1/4	103,293	1/4	88,236	
1/2		208,160	1/2	193,223	1/2	178,225	1/2	163,179	1/2	148,130	1/2	133,081	1/2	118,031	1/2	102,979	1/2	87,922	
3/4		207,851	3/4	192,910	3/4	177,912	3/4	162,866	3/4	147,817	3/4	132,767	3/4	117,718	3/4	102,665	3/4	87,608	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 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 441"

2 PORT ULLAGE 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	87,295	0	72,238	0	57,486	0	43,017	0	28,233	0	13,178	0		0					0
1/4	86,981	1/4	71,924	1/4	57,185	1/4	42,716	1/4	27,919	1/4	12,864	1/4		1/4					1/4
1/2	86,667	1/2	71,610	1/2	56,883	1/2	42,415	1/2	27,606	1/2	12,550	1/2		1/2					1/2
3/4	86,353	3/4	71,297	3/4	56,581	3/4	42,114	3/4	27,293	3/4	12,237	3/4		3/4					3/4
1	86,040	1	70,983	1	56,279	1	41,813	1	26,979	1	11,923	1		1					1
1/4	85,726	1/4	70,669	1/4	55,977	1/4	41,512	1/4	26,665	1/4	11,609	1/4		1/4					1/4
1/2	85,412	1/2	70,355	1/2	55,675	1/2	41,211	1/2	26,352	1/2	11,296	1/2		1/2					1/2
3/4	85,099	3/4	70,042	3/4	55,373	3/4	40,910	3/4	26,038	3/4	10,982	3/4		3/4					3/4
2	84,785	2	69,728	2	55,071	2	40,609	2	25,725	2	10,668	2		2					2
1/4	84,471	1/4	69,414	1/4	54,769	1/4	40,308	1/4	25,411	1/4	10,354	1/4		1/4					1/4
1/2	84,158	1/2	69,101	1/2	54,467	1/2	40,007	1/2	25,097	1/2	10,041	1/2		1/2					1/2
3/4	83,844	3/4	68,787	3/4	54,165	3/4	39,706	3/4	24,784	3/4	9,727	3/4		3/4					3/4
3	83,530	3	68,473	3	53,863	3	39,405	3	24,470	3	9,413	3		3					3
1/4	83,217	1/4	68,160	1/4	53,561	1/4	39,103	1/4	24,156	1/4	9,100	1/4		1/4					1/4
1/2	82,903	1/2	67,846	1/2	53,259	1/2	38,802	1/2	23,843	1/2	8,786	1/2		1/2					1/2
3/4	82,589	3/4	67,532	3/4	52,958	3/4	38,500	3/4	23,529	3/4	8,472	3/4		3/4					3/4
4	82,276	4	67,219	4	52,656	4	38,199	4	23,215	4	8,159	4		4					4
1/4	81,962	1/4	66,905	1/4	52,354	1/4	37,897	1/4	22,902	1/4	7,845	1/4		1/4					1/4
1/2	81,648	1/2	66,591	1/2	52,052	1/2	37,595	1/2	22,588	1/2	7,531	1/2		1/2					1/2
3/4	81,335	3/4	66,278	3/4	51,750	3/4	37,293	3/4	22,274	3/4	7,218	3/4		3/4					3/4
5	81,021	5	65,964	5	51,448	5	36,991	5	21,961	5	6,904	5		5					5
1/4	80,707	1/4	65,656	1/4	51,146	1/4	36,683	1/4	21,647	1/4	6,590	1/4		1/4					1/4
1/2	80,393	1/2	65,348	1/2	50,845	1/2	36,376	1/2	21,333	1/2	6,277	1/2		1/2					1/2
3/4	80,080	3/4	65,040	3/4	50,543	3/4	36,068	3/4	21,019	3/4	5,963	3/4		3/4					3/4
6	79,766	6	64,733	6	50,242	6	35,760	6	20,706	6	5,649	6		6					6
1/4	79,452	1/4	64,431	1/4	49,940	1/4	35,446	1/4	20,392	1/4	5,336	1/4		1/4					1/4
1/2	79,139	1/2	64,129	1/2	49,639	1/2	35,133	1/2	20,078	1/2	5,023	1/2		1/2					1/2
3/4	78,825	3/4	63,827	3/4	49,338	3/4	34,819	3/4	19,765	3/4	4,709	3/4		3/4					3/4
7	78,511	7	63,525	7	49,037	7	34,505	7	19,451	7	4,396	7		7					7
1/4	78,198	1/4	63,223	1/4	48,736	1/4	34,192	1/4	19,137	1/4	4,083	1/4		1/4					1/4
1/2	77,884	1/2	62,921	1/2	48,435	1/2	33,878	1/2	18,824	1/2	3,770	1/2		1/2					1/2
3/4	77,570	3/4	62,619	3/4	48,133	3/4	33,564	3/4	18,510	3/4	3,458	3/4		3/4					3/4
8	77,257	8	62,317	8	47,832	8	33,251	8	18,196	8	3,145	8		8					8
1/4	76,943	1/4	62,015	1/4	47,531	1/4	32,937	1/4	17,883	1/4	2,832	1/4		1/4					1/4
1/2	76,629	1/2	61,713	1/2	47,230	1/2	32,623	1/2	17,569	1/2	2,518	1/2		1/2					1/2
3/4	76,316	3/4	61,411	3/4	46,929	3/4	32,310	3/4	17,255	3/4	2,205	3/4		3/4					3/4
9	76,002	9	61,110	9	46,628	9	31,996	9	16,942	9	1,972	9		9					9
1/4	75,688	1/4	60,808	1/4	46,327	1/4	31,682	1/4	16,628	1/4	1,737	1/4		1/4					1/4
1/2	75,374	1/2	60,506	1/2	46,026	1/2	31,369	1/2	16,314	1/2	1,501	1/2		1/2					1/2
3/4	75,061	3/4	60,204	3/4	45,725	3/4	31,055	3/4	16,001	3/4	1,266	3/4		3/4					3/4
10	74,747	10	59,902	10	45,424	10	30,741	10	15,687	10	1,031	10		10					10
1/4	74,433	1/4	59,600	1/4	45,123	1/4	30,428	1/4	15,373	1/4		1/4		1/4					1/4
1/2	74,120	1/2	59,298	1/2	44,822	1/2	30,114	1/2	15,060	1/2		1/2		1/2					1/2
3/4	73,806	3/4	58,996	3/4	44,521	3/4	29,800	3/4	14,746	3/4		3/4		3/4					3/4
11	73,492	11	58,694	11	44,220	11	29,487	11	14,432	11		11		11					11
1/4	73,179	1/4	58,392	1/4	43,919	1/4	29,173	1/4	14,119	1/4		1/4		1/4					1/4
1/2	72,865	1/2	58,090	1/2	43,618	1/2	28,860	1/2	13,805	1/2		1/2		1/2					1/2
3/4	72,551	3/4	57,788	3/4	43,317	3/4	28,546	3/4	13,491	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 441"

1 STBD ULLAGE 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	0	0	0	0	205,575	0	190,629	0	175,648	0	160,624	0	145,599	0	130,575	0	115,550	0	100,522
1/4	1/4	1/4	1/4	1/4	205,265	1/4	190,317	1/4	175,335	1/4	160,311	1/4	145,286	1/4	130,262	1/4	115,237	1/4	100,209
1/2	1/2	1/2	1/2	1/2	204,955	1/2	190,005	1/2	175,023	1/2	159,998	1/2	144,973	1/2	129,949	1/2	114,924	1/2	99,896
3/4	3/4	3/4	3/4	3/4	204,645	3/4	189,693	3/4	174,710	3/4	159,685	3/4	144,660	3/4	129,635	3/4	114,611	3/4	99,583
1	1	1	1	1	204,335	1	189,381	1	174,397	1	159,372	1	144,347	1	129,322	1	114,298	1	99,270
1/4	1/4	1/4	1/4	1/4	204,025	1/4	189,069	1/4	174,084	1/4	159,059	1/4	144,034	1/4	129,009	1/4	113,985	1/4	98,956
1/2	1/2	1/2	1/2	1/2	203,714	1/2	188,757	1/2	173,771	1/2	158,746	1/2	143,721	1/2	128,696	1/2	113,672	1/2	98,643
3/4	3/4	3/4	3/4	3/4	203,404	3/4	188,444	3/4	173,458	3/4	158,433	3/4	143,408	3/4	128,383	3/4	113,359	3/4	98,330
2	2	2	2	2	203,094	2	188,132	2	173,145	2	158,120	2	143,095	2	128,070	2	113,046	2	98,017
1/4	1/4	1/4	1/4	1/4	202,784	1/4	187,820	1/4	172,832	1/4	157,807	1/4	142,782	1/4	127,757	1/4	112,733	1/4	97,704
1/2	1/2	1/2	1/2	1/2	202,474	1/2	187,508	1/2	172,519	1/2	157,494	1/2	142,469	1/2	127,444	1/2	112,420	1/2	97,391
3/4	3/4	3/4	3/4	3/4	202,164	3/4	187,196	3/4	172,206	3/4	157,181	3/4	142,156	3/4	127,131	3/4	112,107	3/4	97,078
3	3	3	3	3	201,854	3	186,884	3	171,893	3	156,868	3	141,843	3	126,818	3	111,794	3	96,764
1/4	1/4	1/4	1/4	1/4	201,544	1/4	186,572	1/4	171,580	1/4	156,555	1/4	141,530	1/4	126,505	1/4	111,481	1/4	96,451
1/2	1/2	1/2	1/2	1/2	201,234	1/2	186,260	1/2	171,267	1/2	156,242	1/2	141,217	1/2	126,192	1/2	111,168	1/2	96,138
3/4	3/4	3/4	3/4	3/4	200,924	3/4	185,948	3/4	170,954	3/4	155,929	3/4	140,904	3/4	125,879	3/4	110,855	3/4	95,825
4	4	4	4	4	200,613	4	185,635	4	170,641	4	155,616	4	140,591	4	125,566	4	110,542	4	95,512
1/4	1/4	1/4	1/4	1/4	200,302	1/4	185,323	1/4	170,328	1/4	155,303	1/4	140,278	1/4	125,253	1/4	110,229	1/4	95,199
1/2	1/2	1/2	1/2	1/2	199,991	1/2	185,011	1/2	170,015	1/2	154,990	1/2	139,965	1/2	124,940	1/2	109,916	1/2	94,886
3/4	3/4	3/4	3/4	3/4	199,680	3/4	184,699	3/4	169,702	3/4	154,677	3/4	139,652	3/4	124,627	3/4	109,603	3/4	94,572
5	5	5	5	5	199,368	5	184,387	5	169,389	5	154,364	5	139,339	5	124,314	5	109,290	5	94,259
1/4	1/4	1/4	1/4	1/4	199,056	1/4	184,075	1/4	169,076	1/4	154,051	1/4	139,026	1/4	124,001	1/4	109,977	1/4	93,946
1/2	1/2	1/2	1/2	1/2	198,744	1/2	183,763	1/2	168,763	1/2	153,738	1/2	138,713	1/2	123,688	1/2	108,664	1/2	93,633
3/4	3/4	3/4	3/4	3/4	198,432	3/4	183,451	3/4	168,450	3/4	153,425	3/4	138,400	3/4	123,375	3/4	108,351	3/4	93,320
6	6	6	6	6	198,120	6	183,139	6	168,137	6	153,112	6	138,087	6	123,062	6	108,038	6	93,007
1/4	1/4	1/4	1/4	1/4	197,808	1/4	182,827	1/4	167,824	1/4	152,799	1/4	137,774	1/4	122,749	1/4	107,724	1/4	92,693
1/2	1/2	1/2	1/2	1/2	197,495	1/2	182,514	1/2	167,511	1/2	152,486	1/2	137,461	1/2	122,436	1/2	107,411	1/2	92,380
3/4	3/4	3/4	3/4	3/4	211,113	3/4	197,183	3/4	182,202	3/4	167,198	3/4	152,173	3/4	137,148	3/4	122,123	3/4	107,098
7	7	7	7	7	210,934	7	196,871	7	181,890	7	166,885	7	151,860	7	136,835	7	121,810	7	106,785
1/4	1/4	1/4	1/4	1/4	210,754	1/4	196,559	1/4	181,578	1/4	166,572	1/4	151,547	1/4	136,522	1/4	121,497	1/4	106,472
1/2	1/2	1/2	1/2	1/2	210,575	1/2	196,247	1/2	181,266	1/2	166,258	1/2	151,234	1/2	136,209	1/2	121,184	1/2	106,159
3/4	3/4	3/4	3/4	3/4	210,395	3/4	195,935	3/4	180,954	3/4	165,945	3/4	150,921	3/4	135,896	3/4	120,871	3/4	105,846
8	8	8	8	8	210,163	8	195,623	8	180,642	8	165,632	8	150,608	8	135,583	8	120,558	8	105,533
1/4	1/4	1/4	1/4	1/4	209,931	1/4	195,311	1/4	180,330	1/4	165,319	1/4	150,295	1/4	135,270	1/4	120,245	1/4	105,219
1/2	1/2	1/2	1/2	1/2	209,699	1/2	194,999	1/2	180,018	1/2	165,006	1/2	149,982	1/2	134,957	1/2	119,932	1/2	104,906
3/4	3/4	3/4	3/4	3/4	209,468	3/4	194,687	3/4	179,705	3/4	164,693	3/4	149,669	3/4	134,644	3/4	119,619	3/4	104,593
9	9	9	9	9	209,187	9	194,374	9	179,393	9	164,380	9	149,356	9	134,331	9	119,306	9	104,280
1/4	1/4	1/4	1/4	1/4	208,907	1/4	194,062	1/4	179,081	1/4	164,067	1/4	149,043	1/4	134,018	1/4	118,993	1/4	103,967
1/2	1/2	1/2	1/2	1/2	208,627	1/2	193,750	1/2	178,769	1/2	163,754	1/2	148,729	1/2	133,705	1/2	118,680	1/2	103,654
3/4	3/4	3/4	3/4	3/4	208,347	3/4	193,438	3/4	178,457	3/4	163,441	3/4	148,416	3/4	133,392	3/4	118,367	3/4	103,341
10	10	10	10	10	208,041	10	193,126	10	178,145	10	163,128	10	148,103	10	133,079	10	118,054	10	103,027
1/4	1/4	1/4	1/4	1/4	207,735	1/4	192,814	1/4	177,833	1/4	162,815	1/4	147,790	1/4	132,766	1/4	117,741	1/4	102,714
1/2	1/2	1/2	1/2	1/2	207,429	1/2	192,502	1/2	177,521	1/2	162,502	1/2	147,477	1/2	132,453	1/2	117,428	1/2	102,401
3/4	3/4	3/4	3/4	3/4	207,123	3/4	192,190	3/4	177,209	3/4	162,189	3/4	147,164	3/4	132,140	3/4	117,115	3/4	102,088
11	11	11	11	11	206,814	11	191,878	11	176,897	11	161,876	11	146,851	11	131,827	11	116,802	11	101,775
1/4	1/4	1/4	1/4	1/4	206,504	1/4	191,565	1/4	176,584	1/4	161,563	1/4	146,538	1/4	131,514	1/4	116,489	1/4	101,462
1/2	1/2	1/2	1/2	1/2	206,194	1/2	191,253	1/2	176,272	1/2	161,250	1/2	146,225	1/2	131,201	1/2	116,176	1/2	101,148
3/4	3/4	3/4	3/4	3/4	205,885	3/4	190,941	3/4	175,960	3/4	160,937	3/4	145,912	3/4	130,888	3/4	115,863	3/4	100,835

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO 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 441"

1 STBD ULLAGE 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	85,491	0	70,460	0	55,434	0	40,405	0	25,375	0	10,602	0		0					0
1/4	85,178	1/4	70,147	1/4	55,121	1/4	40,092	1/4	25,062	1/4	10,312	1/4		1/4					1/4
1/2	84,865	1/2	69,834	1/2	54,808	1/2	39,779	1/2	24,748	1/2	10,022	1/2		1/2					1/2
3/4	84,552	3/4	69,521	3/4	54,495	3/4	39,466	3/4	24,435	3/4	9,732	3/4		3/4					3/4
1	84,238	1	69,207	1	54,182	1	39,153	1	24,122	1	9,446	1		1					1
1/4	83,925	1/4	68,894	1/4	53,869	1/4	38,840	1/4	23,809	1/4	9,160	1/4		1/4					1/4
1/2	83,612	1/2	68,581	1/2	53,556	1/2	38,527	1/2	23,496	1/2	8,874	1/2		1/2					1/2
3/4	83,299	3/4	68,268	3/4	53,243	3/4	38,213	3/4	23,183	3/4	8,588	3/4		3/4					3/4
2	82,986	2	67,955	2	52,930	2	37,900	2	22,870	2	8,305	2		2					2
1/4	82,673	1/4	67,642	1/4	52,617	1/4	37,587	1/4	22,557	1/4	8,023	1/4		1/4					1/4
1/2	82,360	1/2	67,328	1/2	52,304	1/2	37,274	1/2	22,243	1/2	7,741	1/2		1/2					1/2
3/4	82,046	3/4	67,015	3/4	51,991	3/4	36,961	3/4	21,930	3/4	7,459	3/4		3/4					3/4
3	81,733	3	66,702	3	51,678	3	36,648	3	21,617	3	7,180	3		3					3
1/4	81,420	1/4	66,389	1/4	51,365	1/4	36,335	1/4	21,304	1/4	6,902	1/4		1/4					1/4
1/2	81,107	1/2	66,076	1/2	51,052	1/2	36,021	1/2	20,991	1/2	6,623	1/2		1/2					1/2
3/4	80,794	3/4	65,763	3/4	50,739	3/4	35,708	3/4	20,678	3/4	6,345	3/4		3/4					3/4
4	80,481	4	65,450	4	50,426	4	35,395	4	20,365	4	6,070	4		4					4
1/4	80,168	1/4	65,136	1/4	50,113	1/4	35,082	1/4	20,051	1/4	5,796	1/4		1/4					1/4
1/2	79,854	1/2	64,823	1/2	49,800	1/2	34,769	1/2	19,738	1/2	5,521	1/2		1/2					1/2
3/4	79,541	3/4	64,510	3/4	49,486	3/4	34,456	3/4	19,425	3/4	5,246	3/4		3/4					3/4
5	79,228	5	64,197	5	49,173	5	34,143	5	19,112	5	4,976	5		5					5
1/4	78,915	1/4	63,884	1/4	48,860	1/4	33,830	1/4	18,799	1/4	4,705	1/4		1/4					1/4
1/2	78,602	1/2	63,571	1/2	48,547	1/2	33,516	1/2	18,486	1/2	4,434	1/2		1/2					1/2
3/4	78,289	3/4	63,258	3/4	48,234	3/4	33,203	3/4	18,173	3/4	4,164	3/4		3/4					3/4
6	77,976	6	62,944	6	47,921	6	32,890	6	17,860	6	3,897	6		6					6
1/4	77,662	1/4	62,631	1/4	47,608	1/4	32,577	1/4	17,548	1/4	3,630	1/4		1/4					1/4
1/2	77,349	1/2	62,318	1/2	47,294	1/2	32,264	1/2	17,236	1/2	3,364	1/2		1/2					1/2
3/4	77,036	3/4	62,005	3/4	46,981	3/4	31,951	3/4	16,924	3/4	3,097	3/4		3/4					3/4
7	76,723	7	61,692	7	46,668	7	31,638	7	16,615	7	2,835	7		7					7
1/4	76,410	1/4	61,379	1/4	46,355	1/4	31,324	1/4	16,305	1/4	2,573	1/4		1/4					1/4
1/2	76,097	1/2	61,066	1/2	46,042	1/2	31,011	1/2	15,996	1/2	2,311	1/2		1/2					1/2
3/4	75,783	3/4	60,753	3/4	45,729	3/4	30,698	3/4	15,687	3/4	2,049	3/4		3/4					3/4
8	75,470	8	60,440	8	45,416	8	30,385	8	15,381	8	1,810	8		8					8
1/4	75,157	1/4	60,127	1/4	45,103	1/4	30,072	1/4	15,076	1/4	1,571	1/4		1/4					1/4
1/2	74,844	1/2	59,815	1/2	44,789	1/2	29,759	1/2	14,770	1/2	1,332	1/2		1/2					1/2
3/4	74,531	3/4	59,502	3/4	44,476	3/4	29,446	3/4	14,465	3/4	1,094	3/4		3/4					3/4
9	74,218	9	59,189	9	44,163	9	29,132	9	14,163	9	917	9		9					9
1/4	73,905	1/4	58,876	1/4	43,850	1/4	28,819	1/4	13,862	1/4	740	1/4		1/4					1/4
1/2	73,591	1/2	58,563	1/2	43,537	1/2	28,506	1/2	13,560	1/2	563	1/2		1/2					1/2
3/4	73,278	3/4	58,250	3/4	43,224	3/4	28,193	3/4	13,259	3/4	386	3/4		3/4					3/4
10	72,965	10	57,937	10	42,911	10	27,880	10	12,961	10		10		10					10
1/4	72,652	1/4	57,624	1/4	42,597	1/4	27,567	1/4	12,663	1/4		1/4		1/4					1/4
1/2	72,339	1/2	57,311	1/2	42,284	1/2	27,254	1/2	12,366	1/2		1/2		1/2					1/2
3/4	72,026	3/4	56,998	3/4	41,971	3/4	26,940	3/4	12,068	3/4		3/4		3/4					3/4
11	71,713	11	56,685	11	41,658	11	26,627	11	11,774	11		11		11					11
1/4	71,399	1/4	56,372	1/4	41,345	1/4	26,314	1/4	11,480	1/4		1/4		1/4					1/4
1/2	71,086	1/2	56,059	1/2	41,032	1/2	26,001	1/2	11,186	1/2		1/2		1/2					1/2
3/4	70,773	3/4	55,747	3/4	40,719	3/4	25,688	3/4	10,892	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 441"

1 PORT ULLAGE 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	0	0	0	0	205,815	0	190,870	0	175,887	0	160,862	0	145,835	0	130,809	0	115,782	0	100,752
1/4		1/4		1/4	205,505	1/4	190,558	1/4	175,575	1/4	160,549	1/4	145,522	1/4	130,496	1/4	115,469	1/4	100,439
1/2		1/2		1/2	205,195	1/2	190,246	1/2	175,262	1/2	160,236	1/2	145,209	1/2	130,183	1/2	115,156	1/2	100,126
3/4		3/4		3/4	204,885	3/4	189,934	3/4	174,949	3/4	159,923	3/4	144,896	3/4	129,870	3/4	114,843	3/4	99,813
1	1	1	1	204,575	1	189,621	1	174,637	1	159,610	1	144,583	1	129,556	1	114,530	1	99,499	
1/4		1/4		1/4	204,265	1/4	189,309	1/4	174,324	1/4	159,297	1/4	144,270	1/4	129,243	1/4	114,217	1/4	99,186
1/2		1/2		1/2	203,955	1/2	188,997	1/2	174,011	1/2	158,984	1/2	143,957	1/2	128,930	1/2	113,904	1/2	98,873
3/4		3/4		3/4	203,645	3/4	188,685	3/4	173,698	3/4	158,671	3/4	143,644	3/4	128,617	3/4	113,591	3/4	98,560
2	2	2	2	203,335	2	188,373	2	173,384	2	158,358	2	143,331	2	128,304	2	113,278	2	98,247	
1/4		1/4		1/4	203,025	1/4	188,061	1/4	173,071	1/4	158,045	1/4	143,018	1/4	127,991	1/4	112,964	1/4	97,934
1/2		1/2		1/2	202,714	1/2	187,749	1/2	172,758	1/2	157,732	1/2	142,705	1/2	127,678	1/2	112,651	1/2	97,620
3/4		3/4		3/4	202,404	3/4	187,436	3/4	172,445	3/4	157,419	3/4	142,392	3/4	127,365	3/4	112,338	3/4	97,307
3	3	3	3	202,094	3	187,124	3	172,132	3	157,106	3	142,079	3	127,052	3	112,025	3	96,994	
1/4		1/4		1/4	201,784	1/4	186,812	1/4	171,819	1/4	156,792	1/4	141,766	1/4	126,739	1/4	111,712	1/4	96,681
1/2		1/2		1/2	201,474	1/2	186,500	1/2	171,506	1/2	156,479	1/2	141,453	1/2	126,426	1/2	111,399	1/2	96,368
3/4		3/4		3/4	201,164	3/4	186,188	3/4	171,193	3/4	156,166	3/4	141,140	3/4	126,113	3/4	111,086	3/4	96,054
4	4	4	4	200,854	4	185,876	4	170,880	4	155,853	4	140,827	4	125,800	4	110,773	4	95,741	
1/4		1/4		1/4	200,543	1/4	185,564	1/4	170,567	1/4	155,540	1/4	140,513	1/4	125,487	1/4	110,460	1/4	95,428
1/2		1/2		1/2	200,232	1/2	185,251	1/2	170,254	1/2	155,227	1/2	140,200	1/2	125,174	1/2	110,147	1/2	95,115
3/4		3/4		3/4	199,921	3/4	184,939	3/4	169,941	3/4	154,914	3/4	139,887	3/4	124,861	3/4	109,834	3/4	94,802
5	5	5	5	199,610	5	184,627	5	169,628	5	154,601	5	139,574	5	124,548	5	109,521	5	94,488	
1/4		1/4		1/4	199,298	1/4	184,315	1/4	169,315	1/4	154,288	1/4	139,261	1/4	124,235	1/4	109,208	1/4	94,175
1/2		1/2		1/2	198,986	1/2	184,003	1/2	169,002	1/2	153,975	1/2	138,948	1/2	123,921	1/2	108,895	1/2	93,862
3/4		3/4		3/4	198,674	3/4	183,691	3/4	168,689	3/4	153,662	3/4	138,635	3/4	123,608	3/4	108,582	3/4	93,549
6	6	6	6	198,361	6	183,379	6	168,376	6	153,349	6	138,322	6	123,295	6	108,269	6	93,236	
1/4		1/4		1/4	198,049	1/4	183,066	1/4	168,063	1/4	153,036	1/4	138,009	1/4	122,982	1/4	107,955	1/4	92,922
1/2		1/2		1/2	197,737	1/2	182,754	1/2	167,749	1/2	152,723	1/2	137,696	1/2	122,669	1/2	107,642	1/2	92,609
3/4		3/4		3/4	197,425	3/4	182,442	3/4	167,436	3/4	152,410	3/4	137,383	3/4	122,356	3/4	107,329	3/4	92,296
7	7	211,045	7	197,113	7	182,130	7	167,123	7	152,097	7	137,070	7	122,043	7	107,016	7	91,983	
1/4		1/4		1/4	210,865	1/4	196,801	1/4	181,818	1/4	166,810	1/4	151,784	1/4	136,757	1/4	121,730	1/4	106,703
1/2		1/2		1/2	210,685	1/2	196,489	1/2	181,506	1/2	166,497	1/2	151,470	1/2	136,444	1/2	121,417	1/2	106,390
3/4		3/4		3/4	210,506	3/4	196,176	3/4	181,194	3/4	166,184	3/4	151,157	3/4	136,131	3/4	121,104	3/4	106,077
8	8	210,326	8	195,864	8	180,881	8	165,871	8	150,844	8	135,818	8	120,791	8	105,763	8	90,730	
1/4		1/4		1/4	210,094	1/4	195,552	1/4	180,569	1/4	165,558	1/4	150,531	1/4	135,505	1/4	120,478	1/4	105,450
1/2		1/2		1/2	209,862	1/2	195,240	1/2	180,257	1/2	165,245	1/2	150,218	1/2	135,192	1/2	120,165	1/2	105,137
3/4		3/4		3/4	209,631	3/4	194,928	3/4	179,945	3/4	164,932	3/4	149,905	3/4	134,878	3/4	119,852	3/4	104,824
9	9	209,399	9	194,616	9	179,633	9	164,619	9	149,592	9	134,565	9	119,539	9	104,511	9	89,477	
1/4		1/4		1/4	209,118	1/4	194,304	1/4	179,321	1/4	164,306	1/4	149,279	1/4	134,252	1/4	119,226	1/4	104,197
1/2		1/2		1/2	208,838	1/2	193,991	1/2	179,009	1/2	163,993	1/2	148,966	1/2	133,939	1/2	118,913	1/2	103,884
3/4		3/4		3/4	208,558	3/4	193,679	3/4	178,696	3/4	163,680	3/4	148,653	3/4	133,626	3/4	118,599	3/4	103,571
10	10	208,278	10	193,367	10	178,384	10	163,367	10	148,340	10	133,313	10	118,286	10	103,258	10	88,225	
1/4		1/4		1/4	207,972	1/4	193,055	1/4	178,072	1/4	163,054	1/4	148,027	1/4	133,000	1/4	117,973	1/4	102,945
1/2		1/2		1/2	207,666	1/2	192,743	1/2	177,760	1/2	162,741	1/2	147,714	1/2	132,687	1/2	117,660	1/2	102,631
3/4		3/4		3/4	207,360	3/4	192,431	3/4	177,448	3/4	162,427	3/4	147,401	3/4	132,374	3/4	117,347	3/4	102,318
11	11	207,054	11	192,119	11	177,136	11	162,114	11	147,088	11	132,061	11	117,034	11	102,005	11	86,972	
1/4		1/4		1/4	206,744	1/4	191,806	1/4	176,824	1/4	161,801	1/4	146,775	1/4	131,748	1/4	116,721	1/4	101,692
1/2		1/2		1/2	206,435	1/2	191,494	1/2	176,511	1/2	161,488	1/2	146,462	1/2	131,435	1/2	116,408	1/2	101,379
3/4		3/4		3/4	206,125	3/4	191,182	3/4	176,199	3/4	161,175	3/4	146,149	3/4	131,122	3/4	116,095	3/4	101,065

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

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BARGE "HFL 441"

1 PORT ULLAGE 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	85,719	0	70,686	0	55,714	0	40,724	0	25,691	0	10,894	0		0					0
1/4	85,406	1/4	70,373	1/4	55,403	1/4	40,411	1/4	25,378	1/4	10,604	1/4		1/4				1/4	1/4
1/2	85,093	1/2	70,059	1/2	55,093	1/2	40,098	1/2	25,065	1/2	10,314	1/2		1/2				1/2	1/2
3/4	84,779	3/4	69,746	3/4	54,782	3/4	39,785	3/4	24,752	3/4	10,024	3/4		3/4				3/4	3/4
1	84,466	1	69,433	1	54,471	1	39,471	1	24,439	1	9,734	1		1				1	1
1/4	84,153	1/4	69,120	1/4	54,160	1/4	39,158	1/4	24,126	1/4	9,447	1/4		1/4				1/4	1/4
1/2	83,840	1/2	68,807	1/2	53,849	1/2	38,845	1/2	23,812	1/2	9,161	1/2		1/2				1/2	1/2
3/4	83,527	3/4	68,493	3/4	53,539	3/4	38,532	3/4	23,499	3/4	8,875	3/4		3/4				3/4	3/4
2	83,213	2	68,180	2	53,228	2	38,219	2	23,186	2	8,589	2		2				2	2
1/4	82,900	1/4	67,867	1/4	52,917	1/4	37,906	1/4	22,873	1/4	8,306	1/4		1/4				1/4	1/4
1/2	82,587	1/2	67,554	1/2	52,606	1/2	37,592	1/2	22,560	1/2	8,024	1/2		1/2				1/2	1/2
3/4	82,274	3/4	67,241	3/4	52,295	3/4	37,279	3/4	22,246	3/4	7,742	3/4		3/4				3/4	3/4
3	81,961	3	66,927	3	51,983	3	36,966	3	21,933	3	7,459	3		3				3	3
1/4	81,647	1/4	66,614	1/4	51,672	1/4	36,653	1/4	21,620	1/4	7,181	1/4		1/4				1/4	1/4
1/2	81,334	1/2	66,301	1/2	51,360	1/2	36,340	1/2	21,307	1/2	6,902	1/2		1/2				1/2	1/2
3/4	81,021	3/4	65,988	3/4	51,049	3/4	36,026	3/4	20,994	3/4	6,624	3/4		3/4				3/4	3/4
4	80,708	4	65,675	4	50,737	4	35,713	4	20,680	4	6,346	4		4				4	4
1/4	80,395	1/4	65,362	1/4	50,426	1/4	35,400	1/4	20,367	1/4	6,071	1/4		1/4				1/4	1/4
1/2	80,082	1/2	65,049	1/2	50,114	1/2	35,087	1/2	20,054	1/2	5,796	1/2		1/2				1/2	1/2
3/4	79,768	3/4	64,736	3/4	49,802	3/4	34,774	3/4	19,741	3/4	5,522	3/4		3/4				3/4	3/4
5	79,455	5	64,423	5	49,490	5	34,461	5	19,428	5	5,247	5		5				5	5
1/4	79,142	1/4	64,111	1/4	49,178	1/4	34,147	1/4	19,115	1/4	4,976	1/4		1/4				1/4	1/4
1/2	78,829	1/2	63,799	1/2	48,866	1/2	33,834	1/2	18,801	1/2	4,706	1/2		1/2				1/2	1/2
3/4	78,516	3/4	63,487	3/4	48,553	3/4	33,521	3/4	18,488	3/4	4,435	3/4		3/4				3/4	3/4
6	78,202	6	63,175	6	48,241	6	33,208	6	18,175	6	4,164	6		6				6	6
1/4	77,889	1/4	62,864	1/4	47,927	1/4	32,895	1/4	17,863	1/4	3,897	1/4		1/4				1/4	1/4
1/2	77,576	1/2	62,553	1/2	47,614	1/2	32,581	1/2	17,551	1/2	3,631	1/2		1/2				1/2	1/2
3/4	77,263	3/4	62,242	3/4	47,301	3/4	32,268	3/4	17,238	3/4	3,364	3/4		3/4				3/4	3/4
7	76,950	7	61,931	7	46,988	7	31,955	7	16,926	7	3,097	7		7				7	7
1/4	76,636	1/4	61,620	1/4	46,675	1/4	31,642	1/4	16,617	1/4	2,835	1/4		1/4				1/4	1/4
1/2	76,323	1/2	61,309	1/2	46,362	1/2	31,329	1/2	16,307	1/2	2,573	1/2		1/2				1/2	1/2
3/4	76,010	3/4	60,998	3/4	46,048	3/4	31,016	3/4	15,998	3/4	2,311	3/4		3/4				3/4	3/4
8	75,697	8	60,687	8	45,735	8	30,702	8	15,689	8	2,049	8		8				8	8
1/4	75,384	1/4	60,377	1/4	45,422	1/4	30,389	1/4	15,383	1/4	1,810	1/4		1/4				1/4	1/4
1/2	75,070	1/2	60,066	1/2	45,109	1/2	30,076	1/2	15,078	1/2	1,571	1/2		1/2				1/2	1/2
3/4	74,757	3/4	59,755	3/4	44,796	3/4	29,763	3/4	14,772	3/4	1,332	3/4		3/4				3/4	3/4
9	74,444	9	59,444	9	44,482	9	29,450	9	14,467	9	1,094	9		9				9	9
1/4	74,131	1/4	59,133	1/4	44,169	1/4	29,136	1/4	14,165	1/4	917	1/4		1/4				1/4	1/4
1/2	73,818	1/2	58,822	1/2	43,856	1/2	28,823	1/2	13,864	1/2	740	1/2		1/2				1/2	1/2
3/4	73,504	3/4	58,512	3/4	43,543	3/4	28,510	3/4	13,562	3/4	563	3/4		3/4				3/4	3/4
10	73,191	10	58,201	10	43,230	10	28,197	10	13,260	10	386	10		10				10	10
1/4	72,878	1/4	57,890	1/4	42,916	1/4	27,884	1/4	12,963	1/4		1/4		1/4				1/4	1/4
1/2	72,565	1/2	57,579	1/2	42,603	1/2	27,571	1/2	12,665	1/2		1/2		1/2				1/2	1/2
3/4	72,252	3/4	57,268	3/4	42,290	3/4	27,257	3/4	12,367	3/4		3/4		3/4				3/4	3/4
11	71,939	11	56,958	11	41,977	11	26,944	11	12,069	11		11		11				11	11
1/4	71,625	1/4	56,647	1/4	41,664	1/4	26,631	1/4	11,776	1/4		1/4		1/4				1/4	1/4
1/2	71,312	1/2	56,336	1/2	41,351	1/2	26,318	1/2	11,482	1/2		1/2		1/2				1/2	1/2
3/4	70,999	3/4	56,025	3/4	41,037	3/4	26,005	3/4	11,188	3/4		3/4		3/4				3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 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 441"

STBD SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 11/05/2015 CL
CALCULATED: 11/05/2015 CL
PRINTED: 11/05/2015 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015



BARGE "HFL 441"

PORT SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2015



BARGE "HFL 441"

FUEL TANK ULLAGE 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	473	0	332	0	170	0	33	0		0		0		0		0	
1/4		1/4	471	1/4	329	1/4	167	1/4	31	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2		1/2	469	1/2	325	1/2	163	1/2	28	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4		3/4	466	3/4	322	3/4	160	3/4	26	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1		1	464	1	319	1	157	1	24	1		1		1	1	1	1	1	1
1/4		1/4	461	1/4	315	1/4	154	1/4	22	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2		1/2	459	1/2	312	1/2	150	1/2	21	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4		3/4	456	3/4	309	3/4	147	3/4	19	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2		2	453	2	305	2	144	2	17	2		2		2	2	2	2	2	2
1/4		1/4	451	1/4	302	1/4	141	1/4	15	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2		1/2	448	1/2	298	1/2	138	1/2	13	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4		3/4	445	3/4	295	3/4	134	3/4	12	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3		3	443	3	292	3	131	3	10	3		3		3	3	3	3	3	3
1/4		1/4	440	1/4	288	1/4	128	1/4	9	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2		1/2	437	1/2	285	1/2	125	1/2	7	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4		3/4	434	3/4	281	3/4	122	3/4	6	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4		4	432	4	278	4	119	4	5	4		4		4	4	4	4	4	4
1/4		1/4	429	1/4	275	1/4	116	1/4	4	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2		1/2	426	1/2	271	1/2	113	1/2	3	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4		3/4	423	3/4	268	3/4	110	3/4	2	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5		5	420	5	264	5	107	5	1	5		5		5	5	5	5	5	5
1/4		1/4	417	1/4	261	1/4	104	1/4	1	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	515	1/2	414	1/2	258	1/2	101	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	514	3/4	411	3/4	254	3/4	98	1/2	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	514	6	408	6	251	6	95	6	0	6		6		6	6	6	6	6	6
1/4	513	1/4	405	1/4	247	1/4	92	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	512	1/2	402	1/2	244	1/2	89	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	511	3/4	399	3/4	240	3/4	86	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	510	7	396	7	237	7	83	7	0	7		7		7	7	7	7	7	7
1/4	509	1/4	393	1/4	234	1/4	81	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	508	1/2	390	1/2	230	1/2	78	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	506	3/4	387	3/4	227	3/4	75	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	505	8	384	8	223	8	72	8	0	8		8		8	8	8	8	8	8
1/4	503	1/4	381	1/4	220	1/4	70	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	502	1/2	378	1/2	217	1/2	67	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	500	3/4	374	3/4	213	3/4	64	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	498	9	371	9	210	9	62	9	0	9		9		9	9	9	9	9	9
1/4	496	1/4	368	1/4	207	1/4	59	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	495	1/2	365	1/2	203	1/2	56	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	493	3/4	362	3/4	200	3/4	54	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	491	10	358	10	196	10	51	10	0	10		10		10	10	10	10	10	10
1/4	489	1/4	355	1/4	193	1/4	49	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	487	1/2	352	1/2	190	1/2	47	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	484	3/4	349	3/4	186	3/4	44	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	482	11	345	11	183	11	42	11	0	11		11		11	11	11	11	11	11
1/4	480	1/4	342	1/4	180	1/4	39	1/4	0	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	478	1/2	339	1/2	176	1/2	37	1/2	0	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	476	3/4	335	3/4	173	3/4	35	3/4	0	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

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