



# BARGE "HFL 443"

## 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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	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 = 5'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-06"

November 12, 2015

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 443"

## 3 STBD 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	1,027	0	15,626	0	30,625	0	45,607	0	60,604	0	75,603	0	90,601	0	105,600	0	120,582	0	135,561
1/4	1,261	1/4	15,939	1/4	30,937	1/4	45,919	1/4	60,916	1/4	75,915	1/4	90,914	1/4	105,912	1/4	120,894	1/4	135,873
1/2	1,496	1/2	16,251	1/2	31,250	1/2	46,231	1/2	61,229	1/2	76,227	1/2	91,226	1/2	106,225	1/2	121,206	1/2	136,185
3/4	1,730	3/4	16,564	3/4	31,562	3/4	46,543	3/4	61,541	3/4	76,540	3/4	91,539	3/4	106,537	3/4	121,518	3/4	136,497
1	1,964	1	16,876	1	31,874	1	46,856	1	61,854	1	76,852	1	91,851	1	106,850	1	121,830	1	136,809
1/4	2,256	1/4	17,189	1/4	32,187	1/4	47,168	1/4	62,166	1/4	77,165	1/4	92,164	1/4	107,162	1/4	122,142	1/4	137,121
1/2	2,549	1/2	17,501	1/2	32,499	1/2	47,480	1/2	62,479	1/2	77,477	1/2	92,476	1/2	107,474	1/2	122,454	1/2	137,433
3/4	2,841	3/4	17,814	3/4	32,812	3/4	47,793	3/4	62,791	3/4	77,790	3/4	92,788	3/4	107,787	3/4	122,766	3/4	137,745
2	3,133	2	18,126	2	33,124	2	48,105	2	63,104	2	78,102	2	93,101	2	108,099	2	123,078	2	138,057
1/4	3,444	1/4	18,439	1/4	33,437	1/4	48,417	1/4	63,416	1/4	78,415	1/4	93,413	1/4	108,411	1/4	123,390	1/4	138,369
1/2	3,756	1/2	18,751	1/2	33,749	1/2	48,730	1/2	63,729	1/2	78,727	1/2	93,726	1/2	108,723	1/2	123,702	1/2	138,681
3/4	4,067	3/4	19,064	3/4	34,062	3/4	49,042	3/4	64,041	3/4	79,040	3/4	94,038	3/4	109,035	3/4	124,014	3/4	138,993
3	4,379	3	19,376	3	34,374	3	49,355	3	64,354	3	79,352	3	94,351	3	109,348	3	124,327	3	139,305
1/4	4,691	1/4	19,688	1/4	34,686	1/4	49,667	1/4	64,666	1/4	79,665	1/4	94,663	1/4	109,660	1/4	124,639	1/4	139,617
1/2	5,003	1/2	20,001	1/2	34,999	1/2	49,980	1/2	64,978	1/2	79,977	1/2	94,976	1/2	109,972	1/2	124,951	1/2	139,929
3/4	5,316	3/4	20,313	3/4	35,311	3/4	50,292	3/4	65,291	3/4	80,290	3/4	95,288	3/4	110,284	3/4	125,263	3/4	140,241
4	5,628	4	20,626	4	35,623	4	50,605	4	65,603	4	80,602	4	95,601	4	110,596	4	125,575	4	140,553
1/4	5,940	1/4	20,938	1/4	35,935	1/4	50,917	1/4	65,916	1/4	80,915	1/4	95,913	1/4	110,908	1/4	125,887	1/4	140,865
1/2	6,253	1/2	21,251	1/2	36,247	1/2	51,230	1/2	66,228	1/2	81,227	1/2	96,226	1/2	111,220	1/2	126,199	1/2	141,177
3/4	6,565	3/4	21,563	3/4	36,559	3/4	51,542	3/4	66,541	3/4	81,539	3/4	96,538	3/4	111,532	3/4	126,511	3/4	141,489
5	6,877	5	21,876	5	36,871	5	51,855	5	66,853	5	81,852	5	96,851	5	111,844	5	126,823	5	141,801
1/4	7,190	1/4	22,188	1/4	37,183	1/4	52,167	1/4	67,166	1/4	82,164	1/4	97,163	1/4	112,156	1/4	127,135	1/4	142,113
1/2	7,502	1/2	22,501	1/2	37,495	1/2	52,480	1/2	67,478	1/2	82,477	1/2	97,476	1/2	112,468	1/2	127,447	1/2	142,425
3/4	7,815	3/4	22,813	3/4	37,807	3/4	52,792	3/4	67,791	3/4	82,789	3/4	97,788	3/4	112,780	3/4	127,759	3/4	142,737
6	8,127	6	23,126	6	38,119	6	53,105	6	68,103	6	83,102	6	98,100	6	113,093	6	128,071	6	143,048
1/4	8,440	1/4	23,438	1/4	38,431	1/4	53,417	1/4	68,416	1/4	83,414	1/4	98,413	1/4	113,405	1/4	128,383	1/4	143,356
1/2	8,752	1/2	23,750	1/2	38,743	1/2	53,729	1/2	68,728	1/2	83,727	1/2	98,725	1/2	113,717	1/2	128,695	1/2	143,663
3/4	9,065	3/4	24,063	3/4	39,055	3/4	54,042	3/4	69,041	3/4	84,039	3/4	99,038	3/4	114,029	3/4	129,007	3/4	143,970
7	9,377	7	24,375	7	39,367	7	54,354	7	69,353	7	84,352	7	99,350	7	114,341	7	129,319	7	144,278
1/4	9,690	1/4	24,688	1/4	39,679	1/4	54,667	1/4	69,666	1/4	84,664	1/4	99,663	1/4	114,653	1/4	129,631	1/4	144,573
1/2	10,002	1/2	25,000	1/2	39,991	1/2	54,979	1/2	69,978	1/2	84,977	1/2	99,975	1/2	114,965	1/2	129,944	1/2	144,868
3/4	10,315	3/4	25,313	3/4	40,303	3/4	55,292	3/4	70,290	3/4	85,289	3/4	100,288	3/4	115,277	3/4	130,256	3/4	145,163
8	10,627	8	25,625	8	40,615	8	55,604	8	70,603	8	85,602	8	100,600	8	115,589	8	130,568	8	145,458
1/4	10,939	1/4	25,938	1/4	40,927	1/4	55,917	1/4	70,915	1/4	85,914	1/4	100,913	1/4	115,901	1/4	130,880	1/4	145,737
1/2	11,252	1/2	26,250	1/2	41,239	1/2	56,229	1/2	71,228	1/2	86,227	1/2	101,225	1/2	116,213	1/2	131,192	1/2	146,015
3/4	11,564	3/4	26,563	3/4	41,551	3/4	56,542	3/4	71,540	3/4	86,539	3/4	101,538	3/4	116,525	3/4	131,504	3/4	146,294
9	11,877	9	26,875	9	41,863	9	56,854	9	71,853	9	86,852	9	101,850	9	116,837	9	131,816	9	146,573
1/4	12,189	1/4	27,188	1/4	42,175	1/4	57,167	1/4	72,165	1/4	87,164	1/4	102,163	1/4	117,149	1/4	132,128	1/4	146,836
1/2	12,502	1/2	27,500	1/2	42,487	1/2	57,479	1/2	72,478	1/2	87,476	1/2	102,475	1/2	117,461	1/2	132,440	1/2	147,099
3/4	12,814	3/4	27,812	3/4	42,799	3/4	57,792	3/4	72,790	3/4	87,789	3/4	102,788	3/4	117,773	3/4	132,752	3/4	147,362
10	13,127	10	28,125	10	43,111	10	58,104	10	73,103	10	88,101	10	103,100	10	118,085	10	133,064	10	147,625
1/4	13,439	1/4	28,437	1/4	43,422	1/4	58,417	1/4	73,415	1/4	88,414	1/4	103,413	1/4	118,397	1/4	133,376	1/4	147,872
1/2	13,752	1/2	28,750	1/2	43,734	1/2	58,729	1/2	73,728	1/2	88,726	1/2	103,725	1/2	118,710	1/2	133,688	1/2	148,119
3/4	14,064	3/4	29,062	3/4	44,046	3/4	59,041	3/4	74,040	3/4	89,039	3/4	104,037	3/4	119,022	3/4	134,000	3/4	148,366
11	14,377	11	29,375	11	44,358	11	59,354	11	74,353	11	89,351	11	104,350	11	119,334	11	134,312	11	148,613
1/4	14,689	1/4	29,687	1/4	44,671	1/4	59,666	1/4	74,665	1/4	89,664	1/4	104,662	1/4	119,646	1/4	134,624	1/4	148,844
1/2	15,002	1/2	30,000	1/2	44,983	1/2	59,979	1/2	74,978	1/2	89,976	1/2	104,975	1/2	119,958	1/2	134,936	1/2	149,075
3/4	15,314	3/4	30,312	3/4	45,295	3/4	60,291	3/4	75,290	3/4	90,289	3/4	105,287	3/4	120,270	3/4	135,248	3/4	149,306

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'-0" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "HFL 443"

**3 STBD**  
**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	149,536	0	159,905	0	170,253	0	180,571	0	190,875	0		0		0		0		0	
1/4	149,756	1/4	160,121	1/4	170,468	1/4	180,786	1/4	191,068	1/4		1/4		1/4		1/4		1/4	
1/2	149,975	1/2	160,337	1/2	170,683	1/2	181,001	1/2	191,260	1/2		1/2		1/2		1/2		1/2	
3/4	150,194	3/4	160,553	3/4	170,898	3/4	181,216	3/4	191,453	3/4		3/4		3/4		3/4		3/4	
1	150,414	1	160,768	1	171,113	1	181,431	1	191,646	1		1		1		1		1	
1/4	150,629	1/4	160,984	1/4	171,327	1/4	181,646	1/4	191,806	1/4		1/4		1/4		1/4		1/4	
1/2	150,845	1/2	161,200	1/2	171,542	1/2	181,861	1/2	191,965	1/2		1/2		1/2		1/2		1/2	
3/4	151,061	3/4	161,416	3/4	171,757	3/4	182,076	3/4	192,124	3/4		3/4		3/4		3/4		3/4	
2	151,276	2	161,631	2	171,972	2	182,291	2	192,284	2		2		2		2		2	
1/4	151,492	1/4	161,847	1/4	172,187	1/4	182,506	1/4	192,407	1/4		1/4		1/4		1/4		1/4	
1/2	151,708	1/2	162,063	1/2	172,402	1/2	182,721	1/2	192,531	1/2		1/2		1/2		1/2		1/2	
3/4	151,924	3/4	162,278	3/4	172,617	3/4	182,936	3/4	192,654	3/4		3/4		3/4		3/4		3/4	
3	152,139	3	162,494	3	172,832	3	183,151	3	192,778	3		3		3		3		3	
1/4	152,355	1/4	162,710	1/4	173,047	1/4	183,366	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,571	1/2	162,926	1/2	173,262	1/2	183,581	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,786	3/4	163,141	3/4	173,477	3/4	183,795	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,002	4	163,357	4	173,692	4	184,010	4		4		4		4		4		4	
1/4	153,218	1/4	163,573	1/4	173,907	1/4	184,225	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,434	1/2	163,788	1/2	174,122	1/2	184,440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,649	3/4	164,004	3/4	174,337	3/4	184,655	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,865	5	164,220	5	174,552	5	184,870	5		5		5		5		5		5	
1/4	154,081	1/4	164,436	1/4	174,767	1/4	185,085	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,297	1/2	164,651	1/2	174,982	1/2	185,300	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,512	3/4	164,867	3/4	175,197	3/4	185,515	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,728	6	165,083	6	175,412	6	185,730	6		6		6		6		6		6	
1/4	154,944	1/4	165,299	1/4	175,627	1/4	185,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,159	1/2	165,514	1/2	175,842	1/2	186,160	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,375	3/4	165,730	3/4	176,057	3/4	186,375	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,591	7	165,946	7	176,272	7	186,590	7		7		7		7		7		7	
1/4	155,807	1/4	166,161	1/4	176,487	1/4	186,805	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,022	1/2	166,377	1/2	176,702	1/2	187,020	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,238	3/4	166,593	3/4	176,917	3/4	187,235	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,454	8	166,809	8	177,132	8	187,450	8		8		8		8		8		8	
1/4	156,670	1/4	167,024	1/4	177,347	1/4	187,665	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,885	1/2	167,240	1/2	177,561	1/2	187,880	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,101	3/4	167,456	3/4	177,776	3/4	188,095	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,317	9	167,672	9	177,991	9	188,310	9		9		9		9		9		9	
1/4	157,532	1/4	167,887	1/4	178,206	1/4	188,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,748	1/2	168,102	1/2	178,421	1/2	188,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,964	3/4	168,318	3/4	178,636	3/4	188,955	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,180	10	168,533	10	178,851	10	189,170	10		10		10		10		10		10	
1/4	158,395	1/4	168,748	1/4	179,066	1/4	189,385	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,611	1/2	168,963	1/2	179,281	1/2	189,600	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,827	3/4	169,178	3/4	179,496	3/4	189,815	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,043	11	169,393	11	179,711	11	190,029	11		11		11		11		11		11	
1/4	159,258	1/4	169,608	1/4	179,926	1/4	190,241	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,474	1/2	169,823	1/2	180,141	1/2	190,452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,690	3/4	170,038	3/4	180,356	3/4	190,663	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

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



# BARGE "HFL 443"

## 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	1,026	0	15,607	0	30,571	0	45,307	0	59,840	0	74,725	0	89,667	0	104,620	0	119,564	0	134,504
1/4	1,261	1/4	15,919	1/4	30,883	1/4	45,608	1/4	60,151	1/4	75,035	1/4	89,978	1/4	104,932	1/4	119,875	1/4	134,815
1/2	1,495	1/2	16,231	1/2	31,195	1/2	45,909	1/2	60,463	1/2	75,345	1/2	90,290	1/2	105,244	1/2	120,186	1/2	135,126
3/4	1,729	3/4	16,543	3/4	31,507	3/4	46,211	3/4	60,774	3/4	75,655	3/4	90,601	3/4	105,555	3/4	120,497	3/4	135,437
1	1,963	1	16,855	1	31,819	1	46,512	1	61,086	1	75,964	1	90,913	1	105,867	1	120,809	1	135,749
1/4	2,255	1/4	17,166	1/4	32,130	1/4	46,813	1/4	61,397	1/4	76,274	1/4	91,224	1/4	106,178	1/4	121,120	1/4	136,060
1/2	2,547	1/2	17,478	1/2	32,442	1/2	47,115	1/2	61,709	1/2	76,584	1/2	91,535	1/2	106,490	1/2	121,431	1/2	136,371
3/4	2,839	3/4	17,790	3/4	32,754	3/4	47,416	3/4	62,020	3/4	76,894	3/4	91,847	3/4	106,801	3/4	121,742	3/4	136,682
2	3,131	2	18,102	2	33,066	2	47,718	2	62,331	2	77,204	2	92,158	2	107,113	2	122,054	2	136,994
1/4	3,442	1/4	18,414	1/4	33,377	1/4	48,020	1/4	62,642	1/4	77,514	1/4	92,470	1/4	107,424	1/4	122,365	1/4	137,305
1/2	3,754	1/2	18,725	1/2	33,689	1/2	48,322	1/2	62,953	1/2	77,825	1/2	92,781	1/2	107,736	1/2	122,676	1/2	137,616
3/4	4,065	3/4	19,037	3/4	34,001	3/4	48,624	3/4	63,263	3/4	78,136	3/4	93,092	3/4	108,047	3/4	122,987	3/4	137,927
3	4,376	3	19,349	3	34,313	3	48,926	3	63,574	3	78,447	3	93,404	3	108,358	3	123,299	3	138,239
1/4	4,688	1/4	19,661	1/4	34,624	1/4	49,228	1/4	63,884	1/4	78,758	1/4	93,715	1/4	108,670	1/4	123,610	1/4	138,550
1/2	5,000	1/2	19,972	1/2	34,935	1/2	49,530	1/2	64,193	1/2	79,070	1/2	94,027	1/2	108,981	1/2	123,921	1/2	138,861
3/4	5,312	3/4	20,284	3/4	35,247	3/4	49,832	3/4	64,503	3/4	79,382	3/4	94,338	3/4	109,292	3/4	124,232	3/4	139,172
4	5,624	4	20,596	4	35,558	4	50,133	4	64,813	4	79,693	4	94,649	4	109,604	4	124,544	4	139,484
1/4	5,936	1/4	20,908	1/4	35,866	1/4	50,435	1/4	65,123	1/4	80,005	1/4	94,961	1/4	109,915	1/4	124,855	1/4	139,795
1/2	6,248	1/2	21,220	1/2	36,173	1/2	50,737	1/2	65,432	1/2	80,317	1/2	95,272	1/2	110,226	1/2	125,166	1/2	140,106
3/4	6,560	3/4	21,531	3/4	36,481	3/4	51,039	3/4	65,742	3/4	80,629	3/4	95,584	3/4	110,537	3/4	125,477	3/4	140,417
5	6,872	5	21,843	5	36,788	5	51,341	5	66,052	5	80,940	5	95,895	5	110,849	5	125,789	5	140,728
1/4	7,184	1/4	22,155	1/4	37,093	1/4	51,643	1/4	66,362	1/4	81,252	1/4	96,207	1/4	111,160	1/4	126,100	1/4	141,039
1/2	7,496	1/2	22,467	1/2	37,397	1/2	51,945	1/2	66,671	1/2	81,564	1/2	96,518	1/2	111,471	1/2	126,411	1/2	141,350
3/4	7,808	3/4	22,779	3/4	37,702	3/4	52,247	3/4	66,981	3/4	81,876	3/4	96,829	3/4	111,782	3/4	126,722	3/4	141,661
6	8,120	6	23,090	6	38,006	6	52,549	6	67,291	6	82,187	6	97,141	6	112,094	6	127,034	6	141,972
1/4	8,432	1/4	23,402	1/4	38,311	1/4	52,851	1/4	67,601	1/4	82,499	1/4	97,452	1/4	112,405	1/4	127,345	1/4	142,279
1/2	8,744	1/2	23,714	1/2	38,615	1/2	53,153	1/2	67,911	1/2	82,811	1/2	97,764	1/2	112,716	1/2	127,656	1/2	142,585
3/4	9,056	3/4	24,026	3/4	38,920	3/4	53,455	3/4	68,220	3/4	83,122	3/4	98,075	3/4	113,027	3/4	127,967	3/4	142,892
7	9,369	7	24,338	7	39,224	7	53,757	7	68,530	7	83,434	7	98,387	7	113,339	7	128,279	7	143,198
1/4	9,681	1/4	24,649	1/4	39,529	1/4	54,059	1/4	68,840	1/4	83,746	1/4	98,699	1/4	113,650	1/4	128,590	1/4	143,492
1/2	9,993	1/2	24,961	1/2	39,833	1/2	54,361	1/2	69,150	1/2	84,058	1/2	99,010	1/2	113,961	1/2	128,901	1/2	143,787
3/4	10,305	3/4	25,273	3/4	40,138	3/4	54,663	3/4	69,459	3/4	84,369	3/4	99,322	3/4	114,272	3/4	129,212	3/4	144,081
8	10,618	8	25,585	8	40,442	8	54,965	8	69,769	8	84,681	8	99,634	8	114,584	8	129,524	8	144,375
1/4	10,930	1/4	25,896	1/4	40,747	1/4	55,267	1/4	70,079	1/4	84,993	1/4	99,945	1/4	114,895	1/4	129,835	1/4	144,653
1/2	11,242	1/2	26,208	1/2	41,051	1/2	55,568	1/2	70,389	1/2	85,305	1/2	100,257	1/2	115,206	1/2	130,146	1/2	144,931
3/4	11,554	3/4	26,520	3/4	41,356	3/4	55,870	3/4	70,698	3/4	85,616	3/4	100,569	3/4	115,517	3/4	130,457	3/4	145,209
9	11,866	9	26,832	9	41,660	9	56,172	9	71,008	9	85,928	9	100,880	9	115,829	9	130,769	9	145,487
1/4	12,178	1/4	27,143	1/4	41,965	1/4	56,476	1/4	71,318	1/4	86,240	1/4	101,192	1/4	116,140	1/4	131,080	1/4	145,750
1/2	12,489	1/2	27,455	1/2	42,269	1/2	56,779	1/2	71,628	1/2	86,551	1/2	101,504	1/2	116,451	1/2	131,391	1/2	146,012
3/4	12,801	3/4	27,766	3/4	42,573	3/4	57,083	3/4	71,938	3/4	86,863	3/4	101,815	3/4	116,762	3/4	131,702	3/4	146,275
10	13,113	10	28,078	10	42,878	10	57,386	10	72,247	10	87,175	10	102,127	10	117,074	10	132,014	10	146,537
1/4	13,425	1/4	28,390	1/4	43,182	1/4	57,692	1/4	72,557	1/4	87,487	1/4	102,439	1/4	117,385	1/4	132,325	1/4	146,784
1/2	13,737	1/2	28,701	1/2	43,487	1/2	57,997	1/2	72,867	1/2	87,798	1/2	102,750	1/2	117,696	1/2	132,636	1/2	147,031
3/4	14,048	3/4	29,013	3/4	43,791	3/4	58,302	3/4	73,177	3/4	88,110	3/4	103,062	3/4	118,007	3/4	132,947	3/4	147,278
11	14,360	11	29,325	11	44,096	11	58,607	11	73,486	11	88,421	11	103,374	11	118,319	11	133,259	11	147,524
1/4	14,672	1/4	29,636	1/4	44,399	1/4	58,915	1/4	73,796	1/4	88,733	1/4	103,685	1/4	118,630	1/4	133,570	1/4	147,755
1/2	14,984	1/2	29,948	1/2	44,701	1/2	59,224	1/2	74,106	1/2	89,044	1/2	103,997	1/2	118,941	1/2	133,881	1/2	147,986
3/4	15,296	3/4	30,260	3/4	45,004	3/4	59,532	3/4	74,416	3/4	89,355	3/4	104,309	3/4	119,252	3/4	134,192	3/4	148,217

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 443"

## 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	148,447	0	158,812	0	169,155	0	179,469	0	189,769	0		0		0		0		0	
1/4	148,666	1/4	159,028	1/4	169,370	1/4	179,684	1/4	189,962	1/4		1/4		1/4		1/4		1/4	
1/2	148,886	1/2	159,243	1/2	169,585	1/2	179,899	1/2	190,155	1/2		1/2		1/2		1/2		1/2	
3/4	149,105	3/4	159,459	3/4	169,800	3/4	180,114	3/4	190,347	3/4		3/4		3/4		3/4		3/4	
1	149,324	1	159,675	1	170,015	1	180,329	1	190,540	1		1		1		1		1	
1/4	149,540	1/4	159,890	1/4	170,230	1/4	180,544	1/4	190,700	1/4		1/4		1/4		1/4		1/4	
1/2	149,755	1/2	160,106	1/2	170,444	1/2	180,759	1/2	190,859	1/2		1/2		1/2		1/2		1/2	
3/4	149,971	3/4	160,322	3/4	170,659	3/4	180,974	3/4	191,018	3/4		3/4		3/4		3/4		3/4	
2	150,186	2	160,537	2	170,874	2	181,188	2	191,178	2		2		2		2		2	
1/4	150,402	1/4	160,753	1/4	171,089	1/4	181,403	1/4	191,301	1/4		1/4		1/4		1/4		1/4	
1/2	150,618	1/2	160,968	1/2	171,304	1/2	181,618	1/2	191,425	1/2		1/2		1/2		1/2		1/2	
3/4	150,833	3/4	161,184	3/4	171,519	3/4	181,833	3/4	191,548	3/4		3/4		3/4		3/4		3/4	
3	151,049	3	161,400	3	171,734	3	182,048	3	191,671	3		3		3		3		3	
1/4	151,265	1/4	161,615	1/4	171,949	1/4	182,263	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,480	1/2	161,831	1/2	172,163	1/2	182,478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,696	3/4	162,047	3/4	172,378	3/4	182,693	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,912	4	162,262	4	172,593	4	182,908	4		4		4		4		4		4	
1/4	152,127	1/4	162,478	1/4	172,808	1/4	183,122	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,343	1/2	162,694	1/2	173,023	1/2	183,337	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,558	3/4	162,909	3/4	173,238	3/4	183,552	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,774	5	163,125	5	173,453	5	183,767	5		5		5		5		5		5	
1/4	152,990	1/4	163,340	1/4	173,668	1/4	183,982	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,205	1/2	163,556	1/2	173,883	1/2	184,197	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,421	3/4	163,772	3/4	174,097	3/4	184,412	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,637	6	163,987	6	174,312	6	184,627	6		6		6		6		6		6	
1/4	153,852	1/4	164,203	1/4	174,527	1/4	184,841	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,068	1/2	164,419	1/2	174,742	1/2	185,056	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,284	3/4	164,634	3/4	174,957	3/4	185,271	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,499	7	164,850	7	175,172	7	185,486	7		7		7		7		7		7	
1/4	154,715	1/4	165,066	1/4	175,387	1/4	185,701	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,931	1/2	165,281	1/2	175,602	1/2	185,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,146	3/4	165,497	3/4	175,816	3/4	186,131	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,362	8	165,713	8	176,031	8	186,346	8		8		8		8		8		8	
1/4	155,577	1/4	165,928	1/4	176,246	1/4	186,561	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,793	1/2	166,144	1/2	176,461	1/2	186,776	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,009	3/4	166,359	3/4	176,676	3/4	186,991	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,224	9	166,575	9	176,891	9	187,206	9		9		9		9		9		9	
1/4	156,440	1/4	166,790	1/4	177,106	1/4	187,421	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,656	1/2	167,006	1/2	177,321	1/2	187,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,871	3/4	167,221	3/4	177,536	3/4	187,851	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,087	10	167,436	10	177,750	10	188,066	10		10		10		10		10		10	
1/4	157,303	1/4	167,651	1/4	177,965	1/4	188,280	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,518	1/2	167,866	1/2	178,180	1/2	188,495	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,734	3/4	168,081	3/4	178,395	3/4	188,709	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,949	11	168,296	11	178,610	11	188,924	11		11		11		11		11		11	
1/4	158,165	1/4	168,511	1/4	178,825	1/4	189,135	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,381	1/2	168,725	1/2	179,040	1/2	189,347	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,596	3/4	168,940	3/4	179,255	3/4	189,558	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

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



# BARGE "HFL 443"

## 2 STBD 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	1,032	0	15,695	0	30,757	0	45,801	0	60,850	0	75,914	0	90,979	0	106,043	0	121,102	0	136,158
1/4	1,267	1/4	16,009	1/4	31,071	1/4	46,114	1/4	61,164	1/4	76,228	1/4	91,292	1/4	106,357	1/4	121,415	1/4	136,472
1/2	1,502	1/2	16,323	1/2	31,385	1/2	46,427	1/2	61,478	1/2	76,542	1/2	91,606	1/2	106,670	1/2	121,729	1/2	136,786
3/4	1,738	3/4	16,637	3/4	31,699	3/4	46,740	3/4	61,792	3/4	76,856	3/4	91,920	3/4	106,984	3/4	122,043	3/4	137,099
1	1,973	1	16,951	1	32,012	1	47,052	1	62,105	1	77,170	1	92,234	1	107,298	1	122,356	1	137,413
1/4	2,266	1/4	17,264	1/4	32,326	1/4	47,365	1/4	62,419	1/4	77,483	1/4	92,548	1/4	107,612	1/4	122,670	1/4	137,727
1/2	2,560	1/2	17,578	1/2	32,640	1/2	47,678	1/2	62,733	1/2	77,797	1/2	92,862	1/2	107,926	1/2	122,984	1/2	138,040
3/4	2,853	3/4	17,892	3/4	32,954	3/4	47,991	3/4	63,047	3/4	78,111	3/4	93,175	3/4	108,240	3/4	123,297	3/4	138,354
2	3,147	2	18,206	2	33,268	2	48,304	2	63,361	2	78,425	2	93,489	2	108,553	2	123,611	2	138,668
1/4	3,460	1/4	18,520	1/4	33,582	1/4	48,617	1/4	63,675	1/4	78,739	1/4	93,803	1/4	108,867	1/4	123,925	1/4	138,981
1/2	3,772	1/2	18,834	1/2	33,895	1/2	48,930	1/2	63,988	1/2	79,053	1/2	94,117	1/2	109,181	1/2	124,238	1/2	139,295
3/4	4,085	3/4	19,147	3/4	34,209	3/4	49,243	3/4	64,302	3/4	79,367	3/4	94,431	3/4	109,495	3/4	124,552	3/4	139,609
3	4,398	3	19,461	3	34,523	3	49,556	3	64,616	3	79,680	3	94,745	3	109,809	3	124,866	3	139,922
1/4	4,712	1/4	19,775	1/4	34,837	1/4	49,869	1/4	64,930	1/4	79,994	1/4	95,058	1/4	110,123	1/4	125,179	1/4	140,236
1/2	5,025	1/2	20,089	1/2	35,151	1/2	50,182	1/2	65,244	1/2	80,308	1/2	95,372	1/2	110,436	1/2	125,493	1/2	140,550
3/4	5,339	3/4	20,403	3/4	35,465	3/4	50,496	3/4	65,558	3/4	80,622	3/4	95,686	3/4	110,750	3/4	125,807	3/4	140,863
4	5,653	4	20,717	4	35,778	4	50,809	4	65,871	4	80,936	4	96,000	4	111,064	4	126,120	4	141,177
1/4	5,966	1/4	21,030	1/4	36,092	1/4	51,122	1/4	66,185	1/4	81,250	1/4	96,314	1/4	111,378	1/4	126,434	1/4	141,491
1/2	6,280	1/2	21,344	1/2	36,406	1/2	51,436	1/2	66,499	1/2	81,563	1/2	96,628	1/2	111,691	1/2	126,748	1/2	141,805
3/4	6,594	3/4	21,658	3/4	36,720	3/4	51,749	3/4	66,813	3/4	81,877	3/4	96,941	3/4	112,005	3/4	127,062	3/4	142,118
5	6,908	5	21,972	5	37,034	5	52,063	5	67,127	5	82,191	5	97,255	5	112,319	5	127,375	5	142,432
1/4	7,222	1/4	22,286	1/4	37,348	1/4	52,376	1/4	67,441	1/4	82,505	1/4	97,569	1/4	112,632	1/4	127,689	1/4	142,746
1/2	7,535	1/2	22,600	1/2	37,661	1/2	52,690	1/2	67,755	1/2	82,819	1/2	97,883	1/2	112,946	1/2	128,003	1/2	143,059
3/4	7,849	3/4	22,913	3/4	37,975	3/4	53,004	3/4	68,068	3/4	83,133	3/4	98,197	3/4	113,260	3/4	128,316	3/4	143,373
6	8,163	6	23,227	6	38,289	6	53,318	6	68,382	6	83,446	6	98,511	6	113,573	6	128,630	6	143,687
1/4	8,477	1/4	23,541	1/4	38,603	1/4	53,632	1/4	68,696	1/4	83,760	1/4	98,824	1/4	113,887	1/4	128,944	1/4	144,000
1/2	8,791	1/2	23,855	1/2	38,916	1/2	53,946	1/2	69,010	1/2	84,074	1/2	99,138	1/2	114,201	1/2	129,257	1/2	144,314
3/4	9,105	3/4	24,169	3/4	39,229	3/4	54,259	3/4	69,324	3/4	84,388	3/4	99,452	3/4	114,514	3/4	129,571	3/4	144,628
7	9,418	7	24,483	7	39,543	7	54,573	7	69,638	7	84,702	7	99,766	7	114,828	7	129,885	7	144,941
1/4	9,732	1/4	24,796	1/4	39,856	1/4	54,887	1/4	69,951	1/4	85,016	1/4	100,080	1/4	115,142	1/4	130,198	1/4	145,255
1/2	10,046	1/2	25,110	1/2	40,168	1/2	55,201	1/2	70,265	1/2	85,329	1/2	100,394	1/2	115,455	1/2	130,512	1/2	145,569
3/4	10,360	3/4	25,424	3/4	40,481	3/4	55,515	3/4	70,579	3/4	85,643	3/4	100,708	3/4	115,769	3/4	130,826	3/4	145,882
8	10,674	8	25,738	8	40,794	8	55,829	8	70,893	8	85,957	8	101,021	8	116,083	8	131,139	8	146,196
1/4	10,988	1/4	26,052	1/4	41,107	1/4	56,143	1/4	71,207	1/4	86,271	1/4	101,335	1/4	116,396	1/4	131,453	1/4	146,510
1/2	11,301	1/2	26,365	1/2	41,420	1/2	56,456	1/2	71,521	1/2	86,585	1/2	101,649	1/2	116,710	1/2	131,767	1/2	146,823
3/4	11,615	3/4	26,679	3/4	41,733	3/4	56,770	3/4	71,834	3/4	86,899	3/4	101,963	3/4	117,024	3/4	132,080	3/4	147,137
9	11,929	9	26,993	9	42,046	9	57,084	9	72,148	9	87,212	9	102,277	9	117,337	9	132,394	9	147,451
1/4	12,243	1/4	27,307	1/4	42,359	1/4	57,398	1/4	72,462	1/4	87,526	1/4	102,591	1/4	117,651	1/4	132,708	1/4	147,764
1/2	12,557	1/2	27,620	1/2	42,672	1/2	57,712	1/2	72,776	1/2	87,840	1/2	102,904	1/2	117,965	1/2	133,021	1/2	148,078
3/4	12,871	3/4	27,934	3/4	42,985	3/4	58,026	3/4	73,090	3/4	88,154	3/4	103,218	3/4	118,278	3/4	133,335	3/4	148,392
10	13,184	10	28,248	10	43,298	10	58,339	10	73,404	10	88,468	10	103,532	10	118,592	10	133,649	10	148,705
1/4	13,498	1/4	28,561	1/4	43,610	1/4	58,653	1/4	73,717	1/4	88,782	1/4	103,846	1/4	118,906	1/4	133,963	1/4	149,019
1/2	13,812	1/2	28,875	1/2	43,923	1/2	58,967	1/2	74,031	1/2	89,095	1/2	104,160	1/2	119,220	1/2	134,276	1/2	149,333
3/4	14,126	3/4	29,188	3/4	44,236	3/4	59,281	3/4	74,345	3/4	89,409	3/4	104,474	3/4	119,533	3/4	134,590	3/4	149,647
11	14,440	11	29,502	11	44,549	11	59,595	11	74,659	11	89,723	11	104,787	11	119,847	11	134,904	11	149,960
1/4	14,754	1/4	29,816	1/4	44,862	1/4	59,909	1/4	74,973	1/4	90,037	1/4	105,101	1/4	120,161	1/4	135,217	1/4	150,274
1/2	15,068	1/2	30,130	1/2	45,175	1/2	60,222	1/2	75,287	1/2	90,351	1/2	105,415	1/2	120,474	1/2	135,531	1/2	150,588
3/4	15,381	3/4	30,443	3/4	45,488	3/4	60,536	3/4	75,600	3/4	90,665	3/4	105,729	3/4	120,788	3/4	135,845	3/4	150,901

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 443"

**2 STBD**  
**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	151,215	0	166,272	0	181,318	0	196,323	0	211,232	0		0		0		0		0	
1/4	151,529	1/4	166,585	1/4	181,630	1/4	196,636	1/4	211,512	1/4		1/4		1/4		1/4		1/4	
1/2	151,842	1/2	166,899	1/2	181,943	1/2	196,948	1/2	211,791	1/2		1/2		1/2		1/2		1/2	
3/4	152,156	3/4	167,213	3/4	182,255	3/4	197,261	3/4	212,071	3/4		3/4		3/4		3/4		3/4	
1	152,470	1	167,526	1	182,568	1	197,574	1	212,351	1		1		1		1		1	
1/4	152,783	1/4	167,840	1/4	182,881	1/4	197,886	1/4	212,582	1/4		1/4		1/4		1/4		1/4	
1/2	153,097	1/2	168,154	1/2	183,193	1/2	198,199	1/2	212,813	1/2		1/2		1/2		1/2		1/2	
3/4	153,411	3/4	168,467	3/4	183,506	3/4	198,511	3/4	213,045	3/4		3/4		3/4		3/4		3/4	
2	153,724	2	168,781	2	183,819	2	198,824	2	213,276	2		2		2		2		2	
1/4	154,038	1/4	169,095	1/4	184,131	1/4	199,137	1/4	213,455	1/4		1/4		1/4		1/4		1/4	
1/2	154,352	1/2	169,408	1/2	184,444	1/2	199,449	1/2	213,634	1/2		1/2		1/2		1/2		1/2	
3/4	154,665	3/4	169,722	3/4	184,756	3/4	199,762	3/4	213,813	3/4		3/4		3/4		3/4		3/4	
3	154,979	3	170,036	3	185,069	3	200,075	3	213,991	3		3		3		3		3	
1/4	155,293	1/4	170,349	1/4	185,382	1/4	200,387	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,606	1/2	170,663	1/2	185,694	1/2	200,700	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,920	3/4	170,977	3/4	186,007	3/4	201,012	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,234	4	171,290	4	186,319	4	201,325	4		4		4		4		4		4	
1/4	156,548	1/4	171,604	1/4	186,632	1/4	201,638	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,861	1/2	171,918	1/2	186,945	1/2	201,950	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,175	3/4	172,232	3/4	187,257	3/4	202,263	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,489	5	172,545	5	187,570	5	202,576	5		5		5		5		5		5	
1/4	157,802	1/4	172,859	1/4	187,883	1/4	202,887	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,116	1/2	173,173	1/2	188,195	1/2	203,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,430	3/4	173,486	3/4	188,508	3/4	203,509	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,743	6	173,800	6	188,820	6	203,820	6		6		6		6		6		6	
1/4	159,057	1/4	174,114	1/4	189,133	1/4	204,129	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,371	1/2	174,427	1/2	189,446	1/2	204,439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,684	3/4	174,741	3/4	189,758	3/4	204,748	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,998	7	175,055	7	190,071	7	205,058	7		7		7		7		7		7	
1/4	160,312	1/4	175,368	1/4	190,383	1/4	205,367	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,625	1/2	175,682	1/2	190,696	1/2	205,677	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,939	3/4	175,996	3/4	191,009	3/4	205,987	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,253	8	176,309	8	191,321	8	206,296	8		8		8		8		8		8	
1/4	161,566	1/4	176,623	1/4	191,634	1/4	206,606	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,880	1/2	176,937	1/2	191,947	1/2	206,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,194	3/4	177,250	3/4	192,259	3/4	207,225	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,507	9	177,564	9	192,572	9	207,535	9		9		9		9		9		9	
1/4	162,821	1/4	177,877	1/4	192,884	1/4	207,845	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,135	1/2	178,190	1/2	193,197	1/2	208,154	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,448	3/4	178,504	3/4	193,510	3/4	208,464	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,762	10	178,817	10	193,822	10	208,773	10		10		10		10		10		10	
1/4	164,076	1/4	179,129	1/4	194,135	1/4	209,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,390	1/2	179,442	1/2	194,447	1/2	209,392	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,703	3/4	179,755	3/4	194,760	3/4	209,701	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,017	11	180,067	11	195,073	11	210,010	11		11		11		11		11		11	
1/4	165,331	1/4	180,380	1/4	195,385	1/4	210,316	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,644	1/2	180,692	1/2	195,698	1/2	210,621	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,958	3/4	181,005	3/4	196,011	3/4	210,926	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HFL 443"

## 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	15,698	0	30,764	0	45,457	0	59,945	0	74,801	0	89,869	0	104,937	0	120,000	0	135,060
1/4	1,267	1/4	16,012	1/4	31,077	1/4	45,759	1/4	60,248	1/4	75,115	1/4	90,183	1/4	105,251	1/4	120,313	1/4	135,374
1/2	1,503	1/2	16,326	1/2	31,391	1/2	46,060	1/2	60,550	1/2	75,429	1/2	90,497	1/2	105,565	1/2	120,627	1/2	135,688
3/4	1,738	3/4	16,640	3/4	31,705	3/4	46,361	3/4	60,852	3/4	75,743	3/4	90,811	3/4	105,879	3/4	120,941	3/4	136,001
1	1,973	1	16,954	1	32,019	1	46,662	1	61,154	1	76,057	1	91,125	1	106,193	1	121,255	1	136,315
1/4	2,267	1/4	17,268	1/4	32,333	1/4	46,963	1/4	61,456	1/4	76,371	1/4	91,439	1/4	106,507	1/4	121,568	1/4	136,629
1/2	2,560	1/2	17,582	1/2	32,647	1/2	47,265	1/2	61,758	1/2	76,685	1/2	91,753	1/2	106,821	1/2	121,882	1/2	136,943
3/4	2,854	3/4	17,896	3/4	32,961	3/4	47,566	3/4	62,060	3/4	76,999	3/4	92,067	3/4	107,135	3/4	122,196	3/4	137,256
2	3,147	2	18,210	2	33,275	2	47,867	2	62,363	2	77,313	2	92,381	2	107,448	2	122,510	2	137,570
1/4	3,460	1/4	18,524	1/4	33,589	1/4	48,168	1/4	62,665	1/4	77,627	1/4	92,695	1/4	107,762	1/4	122,823	1/4	137,884
1/2	3,773	1/2	18,837	1/2	33,903	1/2	48,470	1/2	62,967	1/2	77,941	1/2	93,008	1/2	108,076	1/2	123,137	1/2	138,198
3/4	4,086	3/4	19,151	3/4	34,216	3/4	48,771	3/4	63,269	3/4	78,254	3/4	93,322	3/4	108,390	3/4	123,451	3/4	138,511
3	4,399	3	19,465	3	34,530	3	49,072	3	63,571	3	78,568	3	93,636	3	108,704	3	123,765	3	138,825
1/4	4,713	1/4	19,779	1/4	34,844	1/4	49,374	1/4	63,873	1/4	78,882	1/4	93,950	1/4	109,018	1/4	124,079	1/4	139,139
1/2	5,026	1/2	20,093	1/2	35,158	1/2	49,675	1/2	64,175	1/2	79,196	1/2	94,264	1/2	109,332	1/2	124,392	1/2	139,453
3/4	5,340	3/4	20,407	3/4	35,472	3/4	49,977	3/4	64,478	3/4	79,510	3/4	94,578	3/4	109,646	3/4	124,706	3/4	139,766
4	5,654	4	20,721	4	35,786	4	50,278	4	64,780	4	79,824	4	94,892	4	109,959	4	125,020	4	140,080
1/4	5,967	1/4	21,035	1/4	36,094	1/4	50,580	1/4	65,088	1/4	80,138	1/4	95,206	1/4	110,273	1/4	125,334	1/4	140,394
1/2	6,281	1/2	21,349	1/2	36,402	1/2	50,882	1/2	65,396	1/2	80,452	1/2	95,520	1/2	110,587	1/2	125,647	1/2	140,708
3/4	6,595	3/4	21,663	3/4	36,710	3/4	51,184	3/4	65,704	3/4	80,766	3/4	95,834	3/4	110,901	3/4	125,961	3/4	141,021
5	6,909	5	21,976	5	37,018	5	51,485	5	66,012	5	81,080	5	96,148	5	111,215	5	126,275	5	141,335
1/4	7,223	1/4	22,290	1/4	37,320	1/4	51,787	1/4	66,326	1/4	81,394	1/4	96,461	1/4	111,528	1/4	126,589	1/4	141,649
1/2	7,537	1/2	22,604	1/2	37,622	1/2	52,090	1/2	66,640	1/2	81,708	1/2	96,775	1/2	111,842	1/2	126,902	1/2	141,963
3/4	7,851	3/4	22,918	3/4	37,924	3/4	52,392	3/4	66,954	3/4	82,021	3/4	97,089	3/4	112,156	3/4	127,216	3/4	142,276
6	8,165	6	23,232	6	38,227	6	52,694	6	67,268	6	82,335	6	97,403	6	112,470	6	127,530	6	142,590
1/4	8,479	1/4	23,546	1/4	38,528	1/4	52,996	1/4	67,581	1/4	82,649	1/4	97,717	1/4	112,783	1/4	127,844	1/4	142,904
1/2	8,792	1/2	23,860	1/2	38,830	1/2	53,298	1/2	67,895	1/2	82,963	1/2	98,031	1/2	113,097	1/2	128,157	1/2	143,218
3/4	9,106	3/4	24,174	3/4	39,132	3/4	53,600	3/4	68,209	3/4	83,277	3/4	98,345	3/4	113,411	3/4	128,471	3/4	143,531
7	9,420	7	24,488	7	39,433	7	53,902	7	68,523	7	83,591	7	98,659	7	113,725	7	128,785	7	143,845
1/4	9,734	1/4	24,802	1/4	39,734	1/4	54,205	1/4	68,837	1/4	83,905	1/4	98,973	1/4	114,038	1/4	129,099	1/4	144,159
1/2	10,048	1/2	25,116	1/2	40,036	1/2	54,507	1/2	69,151	1/2	84,219	1/2	99,287	1/2	114,352	1/2	129,412	1/2	144,473
3/4	10,362	3/4	25,429	3/4	40,337	3/4	54,809	3/4	69,465	3/4	84,533	3/4	99,601	3/4	114,666	3/4	129,726	3/4	144,786
8	10,676	8	25,743	8	40,638	8	55,111	8	69,779	8	84,847	8	99,915	8	114,980	8	130,040	8	145,100
1/4	10,990	1/4	26,057	1/4	40,939	1/4	55,413	1/4	70,093	1/4	85,161	1/4	100,228	1/4	115,293	1/4	130,354	1/4	145,414
1/2	11,304	1/2	26,371	1/2	41,241	1/2	55,715	1/2	70,407	1/2	85,475	1/2	100,542	1/2	115,607	1/2	130,667	1/2	145,728
3/4	11,618	3/4	26,685	3/4	41,542	3/4	56,018	3/4	70,721	3/4	85,788	3/4	100,856	3/4	115,921	3/4	130,981	3/4	146,041
9	11,932	9	26,999	9	41,843	9	56,320	9	71,034	9	86,102	9	101,170	9	116,235	9	131,295	9	146,355
1/4	12,245	1/4	27,312	1/4	42,144	1/4	56,622	1/4	71,348	1/4	86,416	1/4	101,484	1/4	116,548	1/4	131,609	1/4	146,669
1/2	12,559	1/2	27,626	1/2	42,445	1/2	56,924	1/2	71,662	1/2	86,730	1/2	101,798	1/2	116,862	1/2	131,922	1/2	146,983
3/4	12,873	3/4	27,940	3/4	42,747	3/4	57,226	3/4	71,976	3/4	87,044	3/4	102,112	3/4	117,176	3/4	132,236	3/4	147,296
10	13,187	10	28,253	10	43,048	10	57,528	10	72,290	10	87,358	10	102,426	10	117,490	10	132,550	10	147,610
1/4	13,501	1/4	28,567	1/4	43,349	1/4	57,830	1/4	72,604	1/4	87,672	1/4	102,740	1/4	117,803	1/4	132,864	1/4	147,924
1/2	13,815	1/2	28,881	1/2	43,650	1/2	58,133	1/2	72,918	1/2	87,986	1/2	103,054	1/2	118,117	1/2	133,177	1/2	148,238
3/4	14,129	3/4	29,194	3/4	43,951	3/4	58,435	3/4	73,232	3/4	88,300	3/4	103,368	3/4	118,431	3/4	133,491	3/4	148,552
11	14,443	11	29,508	11	44,253	11	58,737	11	73,546	11	88,614	11	103,682	11	118,745	11	133,805	11	148,865
1/4	14,757	1/4	29,822	1/4	44,554	1/4	59,039	1/4	73,860	1/4	88,928	1/4	103,995	1/4	119,058	1/4	134,119	1/4	149,179
1/2	15,071	1/2	30,136	1/2	44,855	1/2	59,341	1/2	74,174	1/2	89,241	1/2	104,309	1/2	119,372	1/2	134,432	1/2	149,493
3/4	15,384	3/4	30,450	3/4	45,156	3/4	59,643	3/4	74,488	3/4	89,555	3/4	104,623	3/4	119,686	3/4	134,746	3/4	149,807

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 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 443"

## 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	150,120	0	165,181	0	180,230	0	195,239	0	210,152	0		0		0		0		0	
1/4	150,434	1/4	165,494	1/4	180,543	1/4	195,552	1/4	210,432	1/4		1/4		1/4		1/4		1/4	
1/2	150,748	1/2	165,808	1/2	180,856	1/2	195,865	1/2	210,711	1/2		1/2		1/2		1/2		1/2	
3/4	151,062	3/4	166,122	3/4	181,168	3/4	196,178	3/4	210,991	3/4		3/4		3/4		3/4		3/4	
1	151,375	1	166,436	1	181,481	1	196,490	1	211,271	1		1		1		1		1	
1/4	151,689	1/4	166,749	1/4	181,794	1/4	196,803	1/4	211,502	1/4		1/4		1/4		1/4		1/4	
1/2	152,003	1/2	167,063	1/2	182,106	1/2	197,116	1/2	211,733	1/2		1/2		1/2		1/2		1/2	
3/4	152,317	3/4	167,377	3/4	182,419	3/4	197,428	3/4	211,965	3/4		3/4		3/4		3/4		3/4	
2	152,630	2	167,691	2	182,732	2	197,741	2	212,196	2		2		2		2		2	
1/4	152,944	1/4	168,004	1/4	183,044	1/4	198,054	1/4	212,375	1/4		1/4		1/4		1/4		1/4	
1/2	153,258	1/2	168,318	1/2	183,357	1/2	198,366	1/2	212,554	1/2		1/2		1/2		1/2		1/2	
3/4	153,572	3/4	168,632	3/4	183,670	3/4	198,679	3/4	212,733	3/4		3/4		3/4		3/4		3/4	
3	153,885	3	168,946	3	183,983	3	198,992	3	212,912	3		3		3		3		3	
1/4	154,199	1/4	169,259	1/4	184,295	1/4	199,304	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,513	1/2	169,573	1/2	184,608	1/2	199,617	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,827	3/4	169,887	3/4	184,921	3/4	199,930	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,140	4	170,201	4	185,233	4	200,242	4		4		4		4		4		4	
1/4	155,454	1/4	170,514	1/4	185,546	1/4	200,555	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,768	1/2	170,828	1/2	185,859	1/2	200,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,082	3/4	171,142	3/4	186,171	3/4	201,181	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,395	5	171,456	5	186,484	5	201,493	5		5		5		5		5		5	
1/4	156,709	1/4	171,769	1/4	186,797	1/4	201,804	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,023	1/2	172,083	1/2	187,109	1/2	202,116	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,337	3/4	172,397	3/4	187,422	3/4	202,427	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,650	6	172,711	6	187,735	6	202,738	6		6		6		6		6		6	
1/4	157,964	1/4	173,024	1/4	188,048	1/4	203,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,278	1/2	173,338	1/2	188,360	1/2	203,357	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,592	3/4	173,652	3/4	188,673	3/4	203,667	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,905	7	173,966	7	188,986	7	203,976	7		7		7		7		7		7	
1/4	159,219	1/4	174,280	1/4	189,298	1/4	204,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,533	1/2	174,593	1/2	189,611	1/2	204,596	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,847	3/4	174,907	3/4	189,924	3/4	204,905	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,160	8	175,221	8	190,236	8	205,215	8		8		8		8		8		8	
1/4	160,474	1/4	175,535	1/4	190,549	1/4	205,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,788	1/2	175,848	1/2	190,862	1/2	205,834	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,102	3/4	176,162	3/4	191,174	3/4	206,144	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,416	9	176,476	9	191,487	9	206,454	9		9		9		9		9		9	
1/4	161,729	1/4	176,789	1/4	191,800	1/4	206,764	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,043	1/2	177,102	1/2	192,113	1/2	207,073	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,357	3/4	177,415	3/4	192,425	3/4	207,383	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,671	10	177,729	10	192,738	10	207,693	10		10		10		10		10		10	
1/4	162,984	1/4	178,041	1/4	193,051	1/4	208,002	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,298	1/2	178,354	1/2	193,363	1/2	208,311	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,612	3/4	178,667	3/4	193,676	3/4	208,620	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,926	11	178,979	11	193,989	11	208,930	11		11		11		11		11		11	
1/4	164,239	1/4	179,292	1/4	194,301	1/4	209,235	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,553	1/2	179,605	1/2	194,614	1/2	209,541	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,867	3/4	179,918	3/4	194,927	3/4	209,846	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HFL 443"

## 1 STBD 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	386	0	13,259	0	28,193	0	43,224	0	58,250	0	73,278	0	88,309	0	103,341	0	118,367	0	133,392
1/4	563	1/4	13,560	1/4	28,506	1/4	43,537	1/4	58,563	1/4	73,591	1/4	88,623	1/4	103,654	1/4	118,680	1/4	133,705
1/2	740	1/2	13,862	1/2	28,819	1/2	43,850	1/2	58,876	1/2	73,905	1/2	88,936	1/2	103,967	1/2	118,993	1/2	134,018
3/4	917	3/4	14,163	3/4	29,132	3/4	44,163	3/4	59,189	3/4	74,218	3/4	89,249	3/4	104,280	3/4	119,306	3/4	134,331
1	1,094	1	14,465	1	29,446	1	44,476	1	59,502	1	74,531	1	89,562	1	104,593	1	119,619	1	134,644
1/4	1,332	1/4	14,770	1/4	29,759	1/4	44,789	1/4	59,815	1/4	74,844	1/4	89,875	1/4	104,906	1/4	119,932	1/4	134,957
1/2	1,571	1/2	15,076	1/2	30,072	1/2	45,103	1/2	60,127	1/2	75,157	1/2	90,188	1/2	105,219	1/2	120,245	1/2	135,270
3/4	1,810	3/4	15,381	3/4	30,385	3/4	45,416	3/4	60,440	3/4	75,470	3/4	90,501	3/4	105,533	3/4	120,558	3/4	135,583
2	2,049	2	15,687	2	30,698	2	45,729	2	60,753	2	75,783	2	90,815	2	105,846	2	120,871	2	135,896
1/4	2,311	1/4	15,996	1/4	31,011	1/4	46,042	1/4	61,066	1/4	76,097	1/4	91,128	1/4	106,159	1/4	121,184	1/4	136,209
1/2	2,573	1/2	16,305	1/2	31,324	1/2	46,355	1/2	61,379	1/2	76,410	1/2	91,441	1/2	106,472	1/2	121,497	1/2	136,522
3/4	2,835	3/4	16,615	3/4	31,638	3/4	46,668	3/4	61,692	3/4	76,723	3/4	91,754	3/4	106,785	3/4	121,810	3/4	136,835
3	3,097	3	16,924	3	31,951	3	46,981	3	62,005	3	77,036	3	92,067	3	107,098	3	122,123	3	137,148
1/4	3,364	1/4	17,236	1/4	32,264	1/4	47,294	1/4	62,318	1/4	77,349	1/4	92,380	1/4	107,411	1/4	122,436	1/4	137,461
1/2	3,630	1/2	17,548	1/2	32,577	1/2	47,608	1/2	62,631	1/2	77,662	1/2	92,693	1/2	107,724	1/2	122,749	1/2	137,774
3/4	3,897	3/4	17,860	3/4	32,890	3/4	47,921	3/4	62,944	3/4	77,976	3/4	93,007	3/4	108,038	3/4	123,062	3/4	138,087
4	4,164	4	18,173	4	33,203	4	48,234	4	63,258	4	78,289	4	93,320	4	108,351	4	123,375	4	138,400
1/4	4,434	1/4	18,486	1/4	33,516	1/4	48,547	1/4	63,571	1/4	78,602	1/4	93,633	1/4	108,664	1/4	123,688	1/4	138,713
1/2	4,705	1/2	18,799	1/2	33,830	1/2	48,860	1/2	63,884	1/2	78,915	1/2	93,946	1/2	108,977	1/2	124,001	1/2	139,026
3/4	4,976	3/4	19,112	3/4	34,143	3/4	49,173	3/4	64,197	3/4	79,228	3/4	94,259	3/4	109,290	3/4	124,314	3/4	139,339
5	5,246	5	19,425	5	34,456	5	49,486	5	64,510	5	79,541	5	94,572	5	109,603	5	124,627	5	139,652
1/4	5,521	1/4	19,738	1/4	34,769	1/4	49,800	1/4	64,823	1/4	79,854	1/4	94,886	1/4	109,916	1/4	124,940	1/4	139,965
1/2	5,796	1/2	20,051	1/2	35,082	1/2	50,113	1/2	65,136	1/2	80,168	1/2	95,199	1/2	110,229	1/2	125,253	1/2	140,278
3/4	6,070	3/4	20,365	3/4	35,395	3/4	50,426	3/4	65,450	3/4	80,481	3/4	95,512	3/4	110,542	3/4	125,566	3/4	140,591
6	6,345	6	20,678	6	35,708	6	50,739	6	65,763	6	80,794	6	95,825	6	110,855	6	125,879	6	140,904
1/4	6,623	1/4	20,991	1/4	36,021	1/4	51,052	1/4	66,076	1/4	81,107	1/4	96,138	1/4	111,168	1/4	126,192	1/4	141,217
1/2	6,902	1/2	21,304	1/2	36,335	1/2	51,365	1/2	66,389	1/2	81,420	1/2	96,451	1/2	111,481	1/2	126,505	1/2	141,530
3/4	7,180	3/4	21,617	3/4	36,648	3/4	51,678	3/4	66,702	3/4	81,733	3/4	96,764	3/4	111,794	3/4	126,818	3/4	141,843
7	7,459	7	21,930	7	36,961	7	51,991	7	67,015	7	82,046	7	97,078	7	112,107	7	127,131	7	142,156
1/4	7,741	1/4	22,243	1/4	37,274	1/4	52,304	1/4	67,328	1/4	82,360	1/4	97,391	1/4	112,420	1/4	127,444	1/4	142,469
1/2	8,023	1/2	22,557	1/2	37,587	1/2	52,617	1/2	67,642	1/2	82,673	1/2	97,704	1/2	112,733	1/2	127,757	1/2	142,782
3/4	8,305	3/4	22,870	3/4	37,900	3/4	52,930	3/4	67,955	3/4	82,986	3/4	98,017	3/4	113,046	3/4	128,070	3/4	143,095
8	8,588	8	23,183	8	38,213	8	53,243	8	68,268	8	83,299	8	98,330	8	113,359	8	128,383	8	143,408
1/4	8,874	1/4	23,496	1/4	38,527	1/4	53,556	1/4	68,581	1/4	83,612	1/4	98,643	1/4	113,672	1/4	128,696	1/4	143,721
1/2	9,160	1/2	23,809	1/2	38,840	1/2	53,869	1/2	68,894	1/2	83,925	1/2	98,956	1/2	113,985	1/2	129,009	1/2	144,034
3/4	9,446	3/4	24,122	3/4	39,153	3/4	54,182	3/4	69,207	3/4	84,238	3/4	99,270	3/4	114,298	3/4	129,322	3/4	144,347
9	9,732	9	24,435	9	39,466	9	54,495	9	69,521	9	84,552	9	99,583	9	114,611	9	129,635	9	144,660
1/4	10,022	1/4	24,748	1/4	39,779	1/4	54,808	1/4	69,834	1/4	84,865	1/4	99,896	1/4	114,924	1/4	129,949	1/4	144,973
1/2	10,312	1/2	25,062	1/2	40,092	1/2	55,121	1/2	70,147	1/2	85,178	1/2	100,209	1/2	115,237	1/2	130,262	1/2	145,286
3/4	10,602	3/4	25,375	3/4	40,405	3/4	55,434	3/4	70,460	3/4	85,491	3/4	100,522	3/4	115,550	3/4	130,575	3/4	145,599
10	10,892	10	25,688	10	40,719	10	55,747	10	70,773	10	85,804	10	100,835	10	115,863	10	130,888	10	145,912
1/4	11,186	1/4	26,001	1/4	41,032	1/4	56,059	1/4	71,086	1/4	86,117	1/4	101,148	1/4	116,176	1/4	131,201	1/4	146,225
1/2	11,480	1/2	26,314	1/2	41,345	1/2	56,372	1/2	71,399	1/2	86,431	1/2	101,462	1/2	116,489	1/2	131,514	1/2	146,538
3/4	11,774	3/4	26,627	3/4	41,658	3/4	56,685	3/4	71,713	3/4	86,744	3/4	101,775	3/4	116,802	3/4	131,827	3/4	146,851
11	12,068	11	26,940	11	41,971	11	56,998	11	72,026	11	87,057	11	102,088	11	117,115	11	132,140	11	147,164
1/4	12,366	1/4	27,254	1/4	42,284	1/4	57,311	1/4	72,339	1/4	87,370	1/4	102,401	1/4	117,428	1/4	132,453	1/4	147,477
1/2	12,663	1/2	27,567	1/2	42,597	1/2	57,624	1/2	72,652	1/2	87,683	1/2	102,714	1/2	117,741	1/2	132,766	1/2	147,790
3/4	12,961	3/4	27,880	3/4	42,911	3/4	57,937	3/4	72,965	3/4	87,996	3/4	103,027	3/4	118,054	3/4	133,079	3/4	148,103

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 443"

**1 STBD**  
**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	148,416	0	163,441	0	178,457	0	193,438	0	208,347	0		0		0		0		0	
1/4	148,729	1/4	163,754	1/4	178,769	1/4	193,750	1/4	208,627	1/4		1/4		1/4		1/4		1/4	
1/2	149,043	1/2	164,067	1/2	179,081	1/2	194,062	1/2	208,907	1/2		1/2		1/2		1/2		1/2	
3/4	149,356	3/4	164,380	3/4	179,393	3/4	194,374	3/4	209,187	3/4		3/4		3/4		3/4		3/4	
1	149,669	1	164,693	1	179,705	1	194,687	1	209,468	1		1		1		1		1	
1/4	149,982	1/4	165,006	1/4	180,018	1/4	194,999	1/4	209,699	1/4		1/4		1/4		1/4		1/4	
1/2	150,295	1/2	165,319	1/2	180,330	1/2	195,311	1/2	209,931	1/2		1/2		1/2		1/2		1/2	
3/4	150,608	3/4	165,632	3/4	180,642	3/4	195,623	3/4	210,163	3/4		3/4		3/4		3/4		3/4	
2	150,921	2	165,945	2	180,954	2	195,935	2	210,395	2		2		2		2		2	
1/4	151,234	1/4	166,258	1/4	181,266	1/4	196,247	1/4	210,575	1/4		1/4		1/4		1/4		1/4	
1/2	151,547	1/2	166,572	1/2	181,578	1/2	196,559	1/2	210,754	1/2		1/2		1/2		1/2		1/2	
3/4	151,860	3/4	166,885	3/4	181,890	3/4	196,871	3/4	210,934	3/4		3/4		3/4		3/4		3/4	
3	152,173	3	167,198	3	182,202	3	197,183	3	211,113	3		3		3		3		3	
1/4	152,486	1/4	167,511	1/4	182,514	1/4	197,495	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,799	1/2	167,824	1/2	182,827	1/2	197,808	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,112	3/4	168,137	3/4	183,139	3/4	198,120	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,425	4	168,450	4	183,451	4	198,432	4		4		4		4		4		4	
1/4	153,738	1/4	168,763	1/4	183,763	1/4	198,744	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,051	1/2	169,076	1/2	184,075	1/2	199,056	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,364	3/4	169,389	3/4	184,387	3/4	199,368	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,677	5	169,702	5	184,699	5	199,680	5		5		5		5		5		5	
1/4	154,990	1/4	170,015	1/4	185,011	1/4	199,991	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,303	1/2	170,328	1/2	185,323	1/2	200,302	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,616	3/4	170,641	3/4	185,635	3/4	200,613	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,929	6	170,954	6	185,948	6	200,924	6		6		6		6		6		6	
1/4	156,242	1/4	171,267	1/4	186,260	1/4	201,234	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,555	1/2	171,580	1/2	186,572	1/2	201,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,868	3/4	171,893	3/4	186,884	3/4	201,854	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,181	7	172,206	7	187,196	7	202,164	7		7		7		7		7		7	
1/4	157,494	1/4	172,519	1/4	187,508	1/4	202,474	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,807	1/2	172,832	1/2	187,820	1/2	202,784	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,120	3/4	173,145	3/4	188,132	3/4	203,094	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,433	8	173,458	8	188,444	8	203,404	8		8		8		8		8		8	
1/4	158,746	1/4	173,771	1/4	188,757	1/4	203,714	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,059	1/2	174,084	1/2	189,069	1/2	204,025	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,372	3/4	174,397	3/4	189,381	3/4	204,335	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,685	9	174,710	9	189,693	9	204,645	9		9		9		9		9		9	
1/4	159,998	1/4	175,023	1/4	190,005	1/4	204,955	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,311	1/2	175,335	1/2	190,317	1/2	205,265	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,624	3/4	175,648	3/4	190,629	3/4	205,575	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,937	10	175,960	10	190,941	10	205,885	10		10		10		10		10		10	
1/4	161,250	1/4	176,272	1/4	191,253	1/4	206,194	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,563	1/2	176,584	1/2	191,565	1/2	206,504	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,876	3/4	176,897	3/4	191,878	3/4	206,814	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,189	11	177,209	11	192,190	11	207,123	11		11		11		11		11		11	
1/4	162,502	1/4	177,521	1/4	192,502	1/4	207,429	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,815	1/2	177,833	1/2	192,814	1/2	207,735	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,128	3/4	178,145	3/4	193,126	3/4	208,041	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HFL 443"

## 1 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	386	0	13,259	0	28,193	0	43,224	0	58,194	0	73,182	0	88,214	0	103,245	0	118,272	0	133,297
1/4	563	1/4	13,560	1/4	28,507	1/4	43,538	1/4	58,505	1/4	73,496	1/4	88,527	1/4	103,558	1/4	118,585	1/4	133,610
1/2	740	1/2	13,862	1/2	28,820	1/2	43,851	1/2	58,815	1/2	73,809	1/2	88,840	1/2	103,872	1/2	118,898	1/2	133,923
3/4	917	3/4	14,164	3/4	29,133	3/4	44,164	3/4	59,126	3/4	74,122	3/4	89,153	3/4	104,185	3/4	119,211	3/4	134,236
1	1,094	1	14,465	1	29,446	1	44,477	1	59,437	1	74,435	1	89,466	1	104,498	1	119,524	1	134,549
1/4	1,332	1/4	14,771	1/4	29,759	1/4	44,790	1/4	59,748	1/4	74,748	1/4	89,780	1/4	104,811	1/4	119,837	1/4	134,862
1/2	1,571	1/2	15,076	1/2	30,072	1/2	45,103	1/2	60,058	1/2	75,061	1/2	90,093	1/2	105,124	1/2	120,150	1/2	135,175
3/4	1,810	3/4	15,381	3/4	30,385	3/4	45,416	3/4	60,369	3/4	75,374	3/4	90,406	3/4	105,437	3/4	120,463	3/4	135,488
2	2,049	2	15,687	2	30,699	2	45,730	2	60,680	2	75,688	2	90,719	2	105,750	2	120,776	2	135,801
1/4	2,311	1/4	15,996	1/4	31,012	1/4	46,043	1/4	60,991	1/4	76,001	1/4	91,032	1/4	106,064	1/4	121,089	1/4	136,114
1/2	2,573	1/2	16,306	1/2	31,325	1/2	46,356	1/2	61,302	1/2	76,314	1/2	91,345	1/2	106,377	1/2	121,402	1/2	136,427
3/4	2,835	3/4	16,615	3/4	31,638	3/4	46,669	3/4	61,613	3/4	76,627	3/4	91,659	3/4	106,690	3/4	121,715	3/4	136,740
3	3,097	3	16,924	3	31,951	3	46,982	3	61,923	3	76,940	3	91,972	3	107,003	3	122,028	3	137,053
1/4	3,364	1/4	17,236	1/4	32,264	1/4	47,295	1/4	62,234	1/4	77,253	1/4	92,285	1/4	107,316	1/4	122,341	1/4	137,366
1/2	3,630	1/2	17,548	1/2	32,577	1/2	47,608	1/2	62,545	1/2	77,567	1/2	92,598	1/2	107,629	1/2	122,654	1/2	137,679
3/4	3,897	3/4	17,861	3/4	32,891	3/4	47,922	3/4	62,856	3/4	77,880	3/4	92,911	3/4	107,942	3/4	122,967	3/4	137,992
4	4,164	4	18,173	4	33,204	4	48,235	4	63,167	4	78,193	4	93,224	4	108,255	4	123,280	4	138,305
1/4	4,434	1/4	18,486	1/4	33,517	1/4	48,547	1/4	63,479	1/4	78,506	1/4	93,537	1/4	108,568	1/4	123,593	1/4	138,618
1/2	4,705	1/2	18,799	1/2	33,830	1/2	48,860	1/2	63,791	1/2	78,819	1/2	93,851	1/2	108,881	1/2	123,906	1/2	138,931
3/4	4,976	3/4	19,112	3/4	34,143	3/4	49,172	3/4	64,103	3/4	79,132	3/4	94,164	3/4	109,195	3/4	124,219	3/4	139,244
5	5,246	5	19,425	5	34,456	5	49,484	5	64,415	5	79,445	5	94,477	5	109,508	5	124,532	5	139,557
1/4	5,521	1/4	19,739	1/4	34,770	1/4	49,796	1/4	64,728	1/4	79,759	1/4	94,790	1/4	109,821	1/4	124,845	1/4	139,870
1/2	5,796	1/2	20,052	1/2	35,083	1/2	50,108	1/2	65,041	1/2	80,072	1/2	95,103	1/2	110,134	1/2	125,158	1/2	140,183
3/4	6,070	3/4	20,365	3/4	35,396	3/4	50,420	3/4	65,354	3/4	80,385	3/4	95,416	3/4	110,447	3/4	125,472	3/4	140,496
6	6,345	6	20,678	6	35,709	6	50,731	6	65,667	6	80,698	6	95,730	6	110,760	6	125,785	6	140,809
1/4	6,623	1/4	20,991	1/4	36,022	1/4	51,043	1/4	65,980	1/4	81,011	1/4	96,043	1/4	111,073	1/4	126,098	1/4	141,122
1/2	6,902	1/2	21,304	1/2	36,335	1/2	51,354	1/2	66,293	1/2	81,324	1/2	96,356	1/2	111,386	1/2	126,411	1/2	141,435
3/4	7,180	3/4	21,617	3/4	36,648	3/4	51,666	3/4	66,606	3/4	81,638	3/4	96,669	3/4	111,699	3/4	126,724	3/4	141,748
7	7,459	7	21,931	7	36,962	7	51,977	7	66,919	7	81,951	7	96,982	7	112,012	7	127,037	7	142,062
1/4	7,741	1/4	22,244	1/4	37,275	1/4	52,288	1/4	67,232	1/4	82,264	1/4	97,295	1/4	112,325	1/4	127,350	1/4	142,375
1/2	8,023	1/2	22,557	1/2	37,588	1/2	52,599	1/2	67,546	1/2	82,577	1/2	97,608	1/2	112,638	1/2	127,663	1/2	142,688
3/4	8,305	3/4	22,870	3/4	37,901	3/4	52,910	3/4	67,859	3/4	82,890	3/4	97,922	3/4	112,951	3/4	127,976	3/4	143,001
8	8,588	8	23,183	8	38,214	8	53,221	8	68,172	8	83,203	8	98,235	8	113,264	8	128,289	8	143,314
1/4	8,874	1/4	23,496	1/4	38,527	1/4	53,532	1/4	68,485	1/4	83,517	1/4	98,548	1/4	113,577	1/4	128,602	1/4	143,627
1/2	9,160	1/2	23,809	1/2	38,840	1/2	53,843	1/2	68,798	1/2	83,830	1/2	98,861	1/2	113,890	1/2	128,915	1/2	143,940
3/4	9,446	3/4	24,123	3/4	39,154	3/4	54,154	3/4	69,111	3/4	84,143	3/4	99,174	3/4	114,203	3/4	129,228	3/4	144,253
9	9,732	9	24,436	9	39,467	9	54,464	9	69,425	9	84,456	9	99,487	9	114,516	9	129,541	9	144,566
1/4	10,022	1/4	24,749	1/4	39,780	1/4	54,775	1/4	69,738	1/4	84,769	1/4	99,801	1/4	114,829	1/4	129,854	1/4	144,879
1/2	10,312	1/2	25,062	1/2	40,093	1/2	55,086	1/2	70,051	1/2	85,082	1/2	100,114	1/2	115,142	1/2	130,167	1/2	145,192
3/4	10,602	3/4	25,375	3/4	40,406	3/4	55,397	3/4	70,364	3/4	85,395	3/4	100,427	3/4	115,455	3/4	130,480	3/4	145,505
10	10,892	10	25,688	10	40,719	10	55,707	10	70,677	10	85,709	10	100,740	10	115,768	10	130,793	10	145,818
1/4	11,186	1/4	26,001	1/4	41,032	1/4	56,018	1/4	70,990	1/4	86,022	1/4	101,053	1/4	116,081	1/4	131,106	1/4	146,131
1/2	11,480	1/2	26,315	1/2	41,346	1/2	56,329	1/2	71,303	1/2	86,335	1/2	101,366	1/2	116,394	1/2	131,419	1/2	146,444
3/4	11,774	3/4	26,628	3/4	41,659	3/4	56,640	3/4	71,617	3/4	86,648	3/4	101,679	3/4	116,707	3/4	131,732	3/4	146,757
11	12,068	11	26,941	11	41,972	11	56,951	11	71,930	11	86,961	11	101,993	11	117,020	11	132,045	11	147,070
1/4	12,366	1/4	27,254	1/4	42,285	1/4	57,261	1/4	72,243	1/4	87,274	1/4	102,306	1/4	117,333	1/4	132,358	1/4	147,383
1/2	12,663	1/2	27,567	1/2	42,598	1/2	57,572	1/2	72,556	1/2	87,588	1/2	102,619	1/2	117,646	1/2	132,671	1/2	147,696
3/4	12,961	3/4	27,880	3/4	42,911	3/4	57,883	3/4	72,869	3/4	87,901	3/4	102,932	3/4	117,959	3/4	132,984	3/4	148,009

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

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 443"

## 1 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	148,322	0	163,347	0	178,363	0	193,344	0	208,252	0		0		0		0		0	
1/4	148,635	1/4	163,660	1/4	178,675	1/4	193,656	1/4	208,533	1/4		1/4		1/4		1/4		1/4	
1/2	148,948	1/2	163,973	1/2	178,987	1/2	193,968	1/2	208,813	1/2		1/2		1/2		1/2		1/2	
3/4	149,261	3/4	164,286	3/4	179,299	3/4	194,280	3/4	209,093	3/4		3/4		3/4		3/4		3/4	
1	149,574	1	164,599	1	179,611	1	194,592	1	209,373	1		1		1		1		1	
1/4	149,887	1/4	164,912	1/4	179,923	1/4	194,904	1/4	209,605	1/4		1/4		1/4		1/4		1/4	
1/2	150,200	1/2	165,225	1/2	180,235	1/2	195,216	1/2	209,837	1/2		1/2		1/2		1/2		1/2	
3/4	150,513	3/4	165,538	3/4	180,547	3/4	195,528	3/4	210,069	3/4		3/4		3/4		3/4		3/4	
2	150,826	2	165,851	2	180,859	2	195,841	2	210,301	2		2		2		2		2	
1/4	151,139	1/4	166,164	1/4	181,172	1/4	196,153	1/4	210,480	1/4		1/4		1/4		1/4		1/4	
1/2	151,452	1/2	166,477	1/2	181,484	1/2	196,465	1/2	210,660	1/2		1/2		1/2		1/2		1/2	
3/4	151,765	3/4	166,790	3/4	181,796	3/4	196,777	3/4	210,839	3/4		3/4		3/4		3/4		3/4	
3	152,078	3	167,103	3	182,108	3	197,089	3	211,019	3		3		3		3		3	
1/4	152,391	1/4	167,416	1/4	182,420	1/4	197,401	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,704	1/2	167,729	1/2	182,732	1/2	197,713	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,017	3/4	168,042	3/4	183,044	3/4	198,025	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,330	4	168,355	4	183,356	4	198,337	4		4		4		4		4		4	
1/4	153,643	1/4	168,668	1/4	183,668	1/4	198,649	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,956	1/2	168,981	1/2	183,981	1/2	198,962	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,269	3/4	169,294	3/4	184,293	3/4	199,274	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,582	5	169,607	5	184,605	5	199,586	5		5		5		5		5		5	
1/4	154,895	1/4	169,920	1/4	184,917	1/4	199,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,208	1/2	170,233	1/2	185,229	1/2	200,208	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,521	3/4	170,546	3/4	185,541	3/4	200,519	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,834	6	170,859	6	185,853	6	200,830	6		6		6		6		6		6	
1/4	156,147	1/4	171,172	1/4	186,165	1/4	201,140	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,460	1/2	171,485	1/2	186,477	1/2	201,450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,773	3/4	171,798	3/4	186,789	3/4	201,760	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,086	7	172,111	7	187,102	7	202,070	7		7		7		7		7		7	
1/4	157,399	1/4	172,424	1/4	187,414	1/4	202,380	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,712	1/2	172,737	1/2	187,726	1/2	202,690	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,025	3/4	173,050	3/4	188,038	3/4	203,000	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,339	8	173,363	8	188,350	8	203,310	8		8		8		8		8		8	
1/4	158,652	1/4	173,676	1/4	188,662	1/4	203,620	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,965	1/2	173,989	1/2	188,974	1/2	203,930	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,278	3/4	174,302	3/4	189,286	3/4	204,240	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,591	9	174,616	9	189,598	9	204,550	9		9		9		9		9		9	
1/4	159,904	1/4	174,928	1/4	189,911	1/4	204,860	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,217	1/2	175,241	1/2	190,223	1/2	205,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,530	3/4	175,553	3/4	190,535	3/4	205,480	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,843	10	175,866	10	190,847	10	205,790	10		10		10		10		10		10	
1/4	161,156	1/4	176,178	1/4	191,159	1/4	206,100	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,469	1/2	176,490	1/2	191,471	1/2	206,410	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,782	3/4	176,802	3/4	191,783	3/4	206,719	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,095	11	177,114	11	192,095	11	207,029	11		11		11		11		11		11	
1/4	162,408	1/4	177,426	1/4	192,407	1/4	207,335	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,721	1/2	177,738	1/2	192,719	1/2	207,641	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,034	3/4	178,050	3/4	193,032	3/4	207,946	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/13/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2015

PRECISION MEASUREMENT  
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# BARGE "HFL 443"

## 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: 11/12/2015 SW  
CALCULATED: 11/12/2015 CL  
PRINTED: 11/12/2015 JS

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 443"

## PORT 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

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PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HFL 443"

## 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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