



BARGE "HFL 441"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	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 INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE 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 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	15,613	0	30,598	0	45,567	0	60,550	0	75,536	0	90,521	0	105,507	0	120,476	0	135,441
1/4	1,260	1/4	15,925	1/4	30,910	1/4	45,879	1/4	60,863	1/4	75,848	1/4	90,834	1/4	105,819	1/4	120,787	1/4	135,753
1/2	1,494	1/2	16,237	1/2	31,222	1/2	46,190	1/2	61,175	1/2	76,160	1/2	91,146	1/2	106,131	1/2	121,099	1/2	136,065
3/4	1,728	3/4	16,549	3/4	31,534	3/4	46,502	3/4	61,487	3/4	76,473	3/4	91,458	3/4	106,443	3/4	121,411	3/4	136,377
1	1,963	1	16,861	1	31,846	1	46,814	1	61,799	1	76,785	1	91,770	1	106,756	1	121,723	1	136,688
1/4	2,254	1/4	17,174	1/4	32,159	1/4	47,126	1/4	62,111	1/4	77,097	1/4	92,082	1/4	107,068	1/4	122,035	1/4	137,000
1/2	2,546	1/2	17,486	1/2	32,471	1/2	47,438	1/2	62,424	1/2	77,409	1/2	92,395	1/2	107,380	1/2	122,346	1/2	137,312
3/4	2,838	3/4	17,798	3/4	32,783	3/4	47,751	3/4	62,736	3/4	77,721	3/4	92,707	3/4	107,692	3/4	122,658	3/4	137,624
2	3,130	2	18,110	2	33,095	2	48,063	2	63,048	2	78,034	2	93,019	2	108,004	2	122,970	2	137,935
1/4	3,441	1/4	18,422	1/4	33,407	1/4	48,375	1/4	63,360	1/4	78,346	1/4	93,331	1/4	108,316	1/4	123,282	1/4	138,247
1/2	3,753	1/2	18,735	1/2	33,720	1/2	48,687	1/2	63,672	1/2	78,658	1/2	93,643	1/2	108,628	1/2	123,594	1/2	138,559
3/4	4,064	3/4	19,047	3/4	34,032	3/4	48,999	3/4	63,985	3/4	78,970	3/4	93,956	3/4	108,939	3/4	123,905	3/4	138,871
3	4,375	3	19,359	3	34,344	3	49,311	3	64,297	3	79,282	3	94,268	3	109,251	3	124,217	3	139,183
1/4	4,687	1/4	19,671	1/4	34,656	1/4	49,624	1/4	64,609	1/4	79,594	1/4	94,580	1/4	109,563	1/4	124,529	1/4	139,494
1/2	4,999	1/2	19,983	1/2	34,968	1/2	49,936	1/2	64,921	1/2	79,907	1/2	94,892	1/2	109,875	1/2	124,841	1/2	139,806
3/4	5,311	3/4	20,295	3/4	35,280	3/4	50,248	3/4	65,233	3/4	80,219	3/4	95,204	3/4	110,187	3/4	125,152	3/4	140,118
4	5,623	4	20,608	4	35,592	4	50,560	4	65,546	4	80,531	4	95,517	4	110,499	4	125,464	4	140,430
1/4	5,935	1/4	20,920	1/4	35,903	1/4	50,872	1/4	65,858	1/4	80,843	1/4	95,829	1/4	110,811	1/4	125,776	1/4	140,741
1/2	6,247	1/2	21,232	1/2	36,215	1/2	51,185	1/2	66,170	1/2	81,155	1/2	96,141	1/2	111,122	1/2	126,088	1/2	141,053
3/4	6,559	3/4	21,544	3/4	36,527	3/4	51,497	3/4	66,482	3/4	81,468	3/4	96,453	3/4	111,434	3/4	126,400	3/4	141,365
5	6,871	5	21,856	5	36,839	5	51,809	5	66,794	5	81,780	5	96,765	5	111,746	5	126,711	5	141,677
1/4	7,184	1/4	22,169	1/4	37,150	1/4	52,121	1/4	67,107	1/4	82,092	1/4	97,078	1/4	112,058	1/4	127,023	1/4	141,988
1/2	7,496	1/2	22,481	1/2	37,462	1/2	52,433	1/2	67,419	1/2	82,404	1/2	97,390	1/2	112,369	1/2	127,335	1/2	142,300
3/4	7,808	3/4	22,793	3/4	37,774	3/4	52,746	3/4	67,731	3/4	82,716	3/4	97,702	3/4	112,681	3/4	127,647	3/4	142,611
6	8,120	6	23,105	6	38,085	6	53,058	6	68,043	6	83,029	6	98,014	6	112,993	6	127,958	6	142,922
1/4	8,432	1/4	23,417	1/4	38,397	1/4	53,370	1/4	68,355	1/4	83,341	1/4	98,326	1/4	113,305	1/4	128,270	1/4	143,230
1/2	8,745	1/2	23,730	1/2	38,709	1/2	53,682	1/2	68,668	1/2	83,653	1/2	98,639	1/2	113,617	1/2	128,582	1/2	143,537
3/4	9,057	3/4	24,042	3/4	39,020	3/4	53,994	3/4	68,980	3/4	83,965	3/4	98,951	3/4	113,928	3/4	128,894	3/4	143,844
7	9,369	7	24,354	7	39,332	7	54,307	7	69,292	7	84,277	7	99,263	7	114,240	7	129,206	7	144,151
1/4	9,681	1/4	24,666	1/4	39,644	1/4	54,619	1/4	69,604	1/4	84,590	1/4	99,575	1/4	114,552	1/4	129,517	1/4	144,445
1/2	9,993	1/2	24,978	1/2	39,956	1/2	54,931	1/2	69,916	1/2	84,902	1/2	99,887	1/2	114,864	1/2	129,829	1/2	144,740
3/4	10,305	3/4	25,290	3/4	40,267	3/4	55,243	3/4	70,229	3/4	85,214	3/4	100,199	3/4	115,175	3/4	130,141	3/4	145,035
8	10,618	8	25,603	8	40,579	8	55,555	8	70,541	8	85,526	8	100,512	8	115,487	8	130,453	8	145,330
1/4	10,930	1/4	25,915	1/4	40,891	1/4	55,868	1/4	70,853	1/4	85,838	1/4	100,824	1/4	115,799	1/4	130,764	1/4	145,608
1/2	11,242	1/2	26,227	1/2	41,202	1/2	56,180	1/2	71,165	1/2	86,151	1/2	101,136	1/2	116,111	1/2	131,076	1/2	145,887
3/4	11,554	3/4	26,539	3/4	41,514	3/4	56,492	3/4	71,477	3/4	86,463	3/4	101,448	3/4	116,423	3/4	131,388	3/4	146,166
9	11,866	9	26,851	9	41,826	9	56,804	9	71,790	9	86,775	9	101,760	9	116,734	9	131,700	9	146,444
1/4	12,179	1/4	27,164	1/4	42,137	1/4	57,116	1/4	72,102	1/4	87,087	1/4	102,073	1/4	117,046	1/4	132,012	1/4	146,707
1/2	12,491	1/2	27,476	1/2	42,449	1/2	57,429	1/2	72,414	1/2	87,399	1/2	102,385	1/2	117,358	1/2	132,323	1/2	146,970
3/4	12,803	3/4	27,788	3/4	42,761	3/4	57,741	3/4	72,726	3/4	87,712	3/4	102,697	3/4	117,670	3/4	132,635	3/4	147,232
10	13,115	10	28,100	10	43,073	10	58,053	10	73,038	10	88,024	10	103,009	10	117,981	10	132,947	10	147,495
1/4	13,427	1/4	28,412	1/4	43,384	1/4	58,365	1/4	73,351	1/4	88,336	1/4	103,321	1/4	118,293	1/4	133,259	1/4	147,742
1/2	13,740	1/2	28,725	1/2	43,696	1/2	58,677	1/2	73,663	1/2	88,648	1/2	103,634	1/2	118,605	1/2	133,570	1/2	147,989
3/4	14,052	3/4	29,037	3/4	44,008	3/4	58,989	3/4	73,975	3/4	88,960	3/4	103,946	3/4	118,917	3/4	133,882	3/4	148,235
11	14,364	11	29,349	11	44,319	11	59,302	11	74,287	11	89,273	11	104,258	11	119,229	11	134,194	11	148,482
1/4	14,676	1/4	29,661	1/4	44,631	1/4	59,614	1/4	74,599	1/4	89,585	1/4	104,570	1/4	119,540	1/4	134,506	1/4	148,713
1/2	14,988	1/2	29,973	1/2	44,943	1/2	59,926	1/2	74,912	1/2	89,897	1/2	104,882	1/2	119,852	1/2	134,818	1/2	148,943
3/4	15,300	3/4	30,285	3/4	45,255	3/4	60,238	3/4	75,224	3/4	90,209	3/4	105,195	3/4	120,164	3/4	135,129	3/4	149,174

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
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BARGE "HFL 441"

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	149,405	0	159,765	0	170,103	0	180,412	0	190,707	0		0		0		0		0	
1/4	149,624	1/4	159,980	1/4	170,318	1/4	180,627	1/4	190,899	1/4		1/4		1/4		1/4		1/4	
1/2	149,843	1/2	160,196	1/2	170,532	1/2	180,842	1/2	191,092	1/2		1/2		1/2		1/2		1/2	
3/4	150,062	3/4	160,411	3/4	170,747	3/4	181,056	3/4	191,285	3/4		3/4		3/4		3/4		3/4	
1	150,281	1	160,627	1	170,962	1	181,271	1	191,477	1		1		1		1		1	
1/4	150,497	1/4	160,842	1/4	171,177	1/4	181,486	1/4	191,637	1/4		1/4		1/4		1/4		1/4	
1/2	150,712	1/2	161,058	1/2	171,391	1/2	181,701	1/2	191,796	1/2		1/2		1/2		1/2		1/2	
3/4	150,928	3/4	161,273	3/4	171,606	3/4	181,915	3/4	191,955	3/4		3/4		3/4		3/4		3/4	
2	151,143	2	161,489	2	171,821	2	182,130	2	192,115	2		2		2		2		2	
1/4	151,359	1/4	161,704	1/4	172,036	1/4	182,345	1/4	192,238	1/4		1/4		1/4		1/4		1/4	
1/2	151,574	1/2	161,920	1/2	172,251	1/2	182,560	1/2	192,361	1/2		1/2		1/2		1/2		1/2	
3/4	151,790	3/4	162,136	3/4	172,465	3/4	182,775	3/4	192,485	3/4		3/4		3/4		3/4		3/4	
3	152,005	3	162,351	3	172,680	3	182,989	3	192,608	3		3		3		3		3	
1/4	152,221	1/4	162,567	1/4	172,895	1/4	183,204	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,436	1/2	162,782	1/2	173,110	1/2	183,419	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,652	3/4	162,998	3/4	173,324	3/4	183,634	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,867	4	163,213	4	173,539	4	183,848	4		4		4		4		4		4	
1/4	153,083	1/4	163,429	1/4	173,754	1/4	184,063	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,299	1/2	163,644	1/2	173,969	1/2	184,278	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,514	3/4	163,860	3/4	174,183	3/4	184,493	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,730	5	164,075	5	174,398	5	184,708	5		5		5		5		5		5	
1/4	153,945	1/4	164,291	1/4	174,613	1/4	184,922	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,161	1/2	164,506	1/2	174,828	1/2	185,137	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,376	3/4	164,722	3/4	175,043	3/4	185,352	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,592	6	164,937	6	175,257	6	185,567	6		6		6		6		6		6	
1/4	154,807	1/4	165,153	1/4	175,472	1/4	185,781	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,023	1/2	165,369	1/2	175,687	1/2	185,996	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,238	3/4	165,584	3/4	175,902	3/4	186,211	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,454	7	165,800	7	176,116	7	186,426	7		7		7		7		7		7	
1/4	155,669	1/4	166,015	1/4	176,331	1/4	186,641	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,885	1/2	166,231	1/2	176,546	1/2	186,855	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,101	3/4	166,446	3/4	176,761	3/4	187,070	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,316	8	166,662	8	176,976	8	187,285	8		8		8		8		8		8	
1/4	156,532	1/4	166,877	1/4	177,190	1/4	187,500	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,747	1/2	167,093	1/2	177,405	1/2	187,715	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,963	3/4	167,308	3/4	177,620	3/4	187,930	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,178	9	167,524	9	177,835	9	188,145	9		9		9		9		9		9	
1/4	157,394	1/4	167,739	1/4	178,049	1/4	188,359	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,609	1/2	167,954	1/2	178,264	1/2	188,574	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,825	3/4	168,169	3/4	178,479	3/4	188,789	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,040	10	168,385	10	178,694	10	189,004	10		10		10		10		10		10	
1/4	158,256	1/4	168,599	1/4	178,909	1/4	189,218	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,471	1/2	168,814	1/2	179,123	1/2	189,433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,687	3/4	169,029	3/4	179,338	3/4	189,648	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,902	11	169,244	11	179,553	11	189,862	11		11		11		11		11		11	
1/4	159,118	1/4	169,458	1/4	179,768	1/4	190,073	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,334	1/2	169,673	1/2	179,982	1/2	190,284	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,549	3/4	169,888	3/4	180,197	3/4	190,496	3/4		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
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BARGE "HFL 441"

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	15,605	0	30,566	0	45,299	0	59,830	0	74,712	0	89,651	0	104,602	0	119,543	0	134,480
1/4	1,260	1/4	15,916	1/4	30,878	1/4	45,600	1/4	60,141	1/4	75,022	1/4	89,962	1/4	104,913	1/4	119,854	1/4	134,791
1/2	1,495	1/2	16,228	1/2	31,189	1/2	45,901	1/2	60,452	1/2	75,332	1/2	90,274	1/2	105,225	1/2	120,165	1/2	135,102
3/4	1,729	3/4	16,540	3/4	31,501	3/4	46,202	3/4	60,764	3/4	75,641	3/4	90,585	3/4	105,537	3/4	120,476	3/4	135,413
1	1,963	1	16,852	1	31,813	1	46,504	1	61,075	1	75,951	1	90,897	1	105,848	1	120,787	1	135,725
1/4	2,255	1/4	17,163	1/4	32,125	1/4	46,805	1/4	61,386	1/4	76,261	1/4	91,208	1/4	106,160	1/4	121,098	1/4	136,036
1/2	2,547	1/2	17,475	1/2	32,436	1/2	47,107	1/2	61,698	1/2	76,571	1/2	91,519	1/2	106,471	1/2	121,410	1/2	136,347
3/4	2,839	3/4	17,787	3/4	32,748	3/4	47,408	3/4	62,009	3/4	76,880	3/4	91,831	3/4	106,783	3/4	121,721	3/4	136,658
2	3,130	2	18,099	2	33,060	2	47,710	2	62,320	2	77,190	2	92,142	2	107,094	2	122,032	2	136,969
1/4	3,442	1/4	18,410	1/4	33,372	1/4	48,011	1/4	62,631	1/4	77,501	1/4	92,453	1/4	107,405	1/4	122,343	1/4	137,281
1/2	3,753	1/2	18,722	1/2	33,683	1/2	48,313	1/2	62,942	1/2	77,811	1/2	92,765	1/2	107,717	1/2	122,654	1/2	137,592
3/4	4,064	3/4	19,034	3/4	33,995	3/4	48,615	3/4	63,252	3/4	78,122	3/4	93,076	3/4	108,028	3/4	122,966	3/4	137,903
3	4,375	3	19,345	3	34,307	3	48,917	3	63,563	3	78,433	3	93,387	3	108,339	3	123,277	3	138,214
1/4	4,687	1/4	19,657	1/4	34,618	1/4	49,219	1/4	63,872	1/4	78,744	1/4	93,699	1/4	108,651	1/4	123,588	1/4	138,525
1/2	4,999	1/2	19,969	1/2	34,929	1/2	49,521	1/2	64,182	1/2	79,056	1/2	94,010	1/2	108,962	1/2	123,899	1/2	138,837
3/4	5,311	3/4	20,281	3/4	35,240	3/4	49,823	3/4	64,492	3/4	79,368	3/4	94,321	3/4	109,273	3/4	124,210	3/4	139,148
4	5,623	4	20,592	4	35,552	4	50,125	4	64,801	4	79,679	4	94,633	4	109,584	4	124,522	4	139,459
1/4	5,935	1/4	20,904	1/4	35,859	1/4	50,427	1/4	65,111	1/4	79,991	1/4	94,944	1/4	109,895	1/4	124,833	1/4	139,770
1/2	6,247	1/2	21,216	1/2	36,167	1/2	50,728	1/2	65,421	1/2	80,303	1/2	95,256	1/2	110,207	1/2	125,144	1/2	140,081
3/4	6,559	3/4	21,528	3/4	36,474	3/4	51,030	3/4	65,731	3/4	80,614	3/4	95,567	3/4	110,518	3/4	125,455	3/4	140,392
5	6,871	5	21,839	5	36,782	5	51,332	5	66,040	5	80,926	5	95,878	5	110,829	5	125,766	5	140,703
1/4	7,183	1/4	22,151	1/4	37,086	1/4	51,634	1/4	66,350	1/4	81,238	1/4	96,190	1/4	111,140	1/4	126,078	1/4	141,014
1/2	7,495	1/2	22,463	1/2	37,391	1/2	51,936	1/2	66,660	1/2	81,549	1/2	96,501	1/2	111,451	1/2	126,389	1/2	141,325
3/4	7,807	3/4	22,775	3/4	37,695	3/4	52,238	3/4	66,969	3/4	81,861	3/4	96,812	3/4	111,763	3/4	126,700	3/4	141,636
6	8,118	6	23,086	6	38,000	6	52,540	6	67,279	6	82,173	6	97,124	6	112,074	6	127,011	6	141,947
1/4	8,431	1/4	23,398	1/4	38,304	1/4	52,842	1/4	67,589	1/4	82,484	1/4	97,435	1/4	112,385	1/4	127,322	1/4	142,254
1/2	8,743	1/2	23,710	1/2	38,608	1/2	53,144	1/2	67,899	1/2	82,796	1/2	97,747	1/2	112,696	1/2	127,634	1/2	142,560
3/4	9,055	3/4	24,022	3/4	38,913	3/4	53,445	3/4	68,208	3/4	83,108	3/4	98,058	3/4	113,007	3/4	127,945	3/4	142,866
7	9,367	7	24,333	7	39,217	7	53,747	7	68,518	7	83,420	7	98,370	7	113,319	7	128,256	7	143,173
1/4	9,679	1/4	24,645	1/4	39,522	1/4	54,049	1/4	68,828	1/4	83,731	1/4	98,681	1/4	113,630	1/4	128,567	1/4	143,467
1/2	9,991	1/2	24,957	1/2	39,826	1/2	54,351	1/2	69,137	1/2	84,043	1/2	98,993	1/2	113,941	1/2	128,878	1/2	143,761
3/4	10,304	3/4	25,268	3/4	40,131	3/4	54,653	3/4	69,447	3/4	84,355	3/4	99,304	3/4	114,252	3/4	129,190	3/4	144,055
8	10,616	8	25,580	8	40,435	8	54,955	8	69,757	8	84,666	8	99,616	8	114,563	8	129,501	8	144,349
1/4	10,928	1/4	25,892	1/4	40,739	1/4	55,257	1/4	70,067	1/4	84,978	1/4	99,928	1/4	114,875	1/4	129,812	1/4	144,628
1/2	11,240	1/2	26,204	1/2	41,044	1/2	55,559	1/2	70,376	1/2	85,290	1/2	100,239	1/2	115,186	1/2	130,123	1/2	144,906
3/4	11,552	3/4	26,515	3/4	41,348	3/4	55,861	3/4	70,686	3/4	85,601	3/4	100,551	3/4	115,497	3/4	130,434	3/4	145,184
9	11,864	9	26,827	9	41,653	9	56,162	9	70,996	9	85,913	9	100,862	9	115,808	9	130,746	9	145,462
1/4	12,176	1/4	27,138	1/4	41,957	1/4	56,466	1/4	71,305	1/4	86,225	1/4	101,174	1/4	116,119	1/4	131,057	1/4	145,724
1/2	12,487	1/2	27,450	1/2	42,262	1/2	56,769	1/2	71,615	1/2	86,536	1/2	101,486	1/2	116,431	1/2	131,368	1/2	145,987
3/4	12,799	3/4	27,762	3/4	42,566	3/4	57,073	3/4	71,925	3/4	86,848	3/4	101,797	3/4	116,742	3/4	131,679	3/4	146,249
10	13,111	10	28,073	10	42,870	10	57,376	10	72,235	10	87,160	10	102,109	10	117,053	10	131,990	10	146,511
1/4	13,422	1/4	28,385	1/4	43,175	1/4	57,681	1/4	72,544	1/4	87,471	1/4	102,421	1/4	117,364	1/4	132,301	1/4	146,758
1/2	13,734	1/2	28,696	1/2	43,479	1/2	57,987	1/2	72,854	1/2	87,783	1/2	102,732	1/2	117,675	1/2	132,613	1/2	147,005
3/4	14,046	3/4	29,008	3/4	43,784	3/4	58,292	3/4	73,164	3/4	88,094	3/4	103,044	3/4	117,987	3/4	132,924	3/4	147,252
11	14,358	11	29,319	11	44,088	11	58,597	11	73,473	11	88,406	11	103,355	11	118,298	11	133,235	11	147,498
1/4	14,669	1/4	29,631	1/4	44,391	1/4	58,905	1/4	73,783	1/4	88,717	1/4	103,667	1/4	118,609	1/4	133,546	1/4	147,729
1/2	14,981	1/2	29,943	1/2	44,694	1/2	59,213	1/2	74,093	1/2	89,028	1/2	103,979	1/2	118,920	1/2	133,857	1/2	147,960
3/4	15,293	3/4	30,254	3/4	44,996	3/4	59,521	3/4	74,403	3/4	89,340	3/4	104,290	3/4	119,231	3/4	134,169	3/4	148,190

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.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 441"

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	148,421	0	158,784	0	169,125	0	179,438	0	189,736	0		0		0		0		0	
1/4	148,640	1/4	159,000	1/4	169,340	1/4	179,653	1/4	189,929	1/4		1/4		1/4		1/4		1/4	
1/2	148,859	1/2	159,215	1/2	169,555	1/2	179,868	1/2	190,121	1/2		1/2		1/2		1/2		1/2	
3/4	149,078	3/4	159,431	3/4	169,770	3/4	180,082	3/4	190,314	3/4		3/4		3/4		3/4		3/4	
1	149,298	1	159,646	1	169,985	1	180,297	1	190,507	1		1		1		1		1	
1/4	149,513	1/4	159,862	1/4	170,200	1/4	180,512	1/4	190,666	1/4		1/4		1/4		1/4		1/4	
1/2	149,729	1/2	160,078	1/2	170,414	1/2	180,727	1/2	190,825	1/2		1/2		1/2		1/2		1/2	
3/4	149,944	3/4	160,293	3/4	170,629	3/4	180,942	3/4	190,985	3/4		3/4		3/4		3/4		3/4	
2	150,160	2	160,509	2	170,844	2	181,157	2	191,144	2		2		2		2		2	
1/4	150,376	1/4	160,724	1/4	171,059	1/4	181,371	1/4	191,268	1/4		1/4		1/4		1/4		1/4	
1/2	150,591	1/2	160,940	1/2	171,274	1/2	181,586	1/2	191,391	1/2		1/2		1/2		1/2		1/2	
3/4	150,807	3/4	161,156	3/4	171,489	3/4	181,801	3/4	191,514	3/4		3/4		3/4		3/4		3/4	
3	151,022	3	161,371	3	171,703	3	182,016	3	191,638	3		3		3		3		3	
1/4	151,238	1/4	161,587	1/4	171,918	1/4	182,231	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,454	1/2	161,802	1/2	172,133	1/2	182,446	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,669	3/4	162,018	3/4	172,348	3/4	182,660	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,885	4	162,234	4	172,563	4	182,875	4		4		4		4		4		4	
1/4	152,100	1/4	162,449	1/4	172,778	1/4	183,090	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,316	1/2	162,665	1/2	172,993	1/2	183,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,532	3/4	162,880	3/4	173,207	3/4	183,520	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,747	5	163,096	5	173,422	5	183,735	5		5		5		5		5		5	
1/4	152,963	1/4	163,312	1/4	173,637	1/4	183,950	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,178	1/2	163,527	1/2	173,852	1/2	184,164	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,394	3/4	163,743	3/4	174,067	3/4	184,379	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,610	6	163,958	6	174,282	6	184,594	6		6		6		6		6		6	
1/4	153,825	1/4	164,174	1/4	174,496	1/4	184,809	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,041	1/2	164,390	1/2	174,711	1/2	185,024	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,256	3/4	164,605	3/4	174,926	3/4	185,239	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,472	7	164,821	7	175,141	7	185,453	7		7		7		7		7		7	
1/4	154,688	1/4	165,037	1/4	175,356	1/4	185,668	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,903	1/2	165,252	1/2	175,571	1/2	185,883	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,119	3/4	165,468	3/4	175,786	3/4	186,098	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,334	8	165,683	8	176,000	8	186,313	8		8		8		8		8		8	
1/4	155,550	1/4	165,899	1/4	176,215	1/4	186,528	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,766	1/2	166,115	1/2	176,430	1/2	186,743	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,981	3/4	166,330	3/4	176,645	3/4	186,958	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,197	9	166,546	9	176,860	9	187,173	9		9		9		9		9		9	
1/4	156,412	1/4	166,761	1/4	177,075	1/4	187,388	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,628	1/2	166,976	1/2	177,289	1/2	187,603	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,844	3/4	167,191	3/4	177,504	3/4	187,818	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,059	10	167,407	10	177,719	10	188,032	10		10		10		10		10		10	
1/4	157,275	1/4	167,621	1/4	177,934	1/4	188,247	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,490	1/2	167,836	1/2	178,149	1/2	188,462	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,706	3/4	168,051	3/4	178,364	3/4	188,676	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,922	11	168,266	11	178,578	11	188,891	11		11		11		11		11		11	
1/4	158,137	1/4	168,481	1/4	178,793	1/4	189,102	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,353	1/2	168,696	1/2	179,008	1/2	189,313	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,568	3/4	168,911	3/4	179,223	3/4	189,525	3/4		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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BARGE "HFL 441"

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	15,693	0	30,753	0	45,795	0	60,843	0	75,905	0	90,968	0	106,030	0	121,087	0	136,142
1/4	1,267	1/4	16,007	1/4	31,067	1/4	46,108	1/4	61,157	1/4	76,219	1/4	91,281	1/4	106,344	1/4	121,401	1/4	136,455
1/2	1,502	1/2	16,321	1/2	31,381	1/2	46,421	1/2	61,470	1/2	76,533	1/2	91,595	1/2	106,658	1/2	121,714	1/2	136,769
3/4	1,737	3/4	16,635	3/4	31,695	3/4	46,734	3/4	61,784	3/4	76,847	3/4	91,909	3/4	106,971	3/4	122,028	3/4	137,083
1	1,973	1	16,948	1	32,009	1	47,047	1	62,098	1	77,160	1	92,223	1	107,285	1	122,342	1	137,396
1/4	2,266	1/4	17,262	1/4	32,322	1/4	47,360	1/4	62,412	1/4	77,474	1/4	92,537	1/4	107,599	1/4	122,655	1/4	137,710
1/2	2,560	1/2	17,576	1/2	32,636	1/2	47,672	1/2	62,726	1/2	77,788	1/2	92,850	1/2	107,913	1/2	122,969	1/2	138,024
3/4	2,853	3/4	17,890	3/4	32,950	3/4	47,985	3/4	63,039	3/4	78,102	3/4	93,164	3/4	108,227	3/4	123,282	3/4	138,337
2	3,146	2	18,204	2	33,264	2	48,298	2	63,353	2	78,416	2	93,478	2	108,540	2	123,596	2	138,651
1/4	3,459	1/4	18,517	1/4	33,578	1/4	48,611	1/4	63,667	1/4	78,729	1/4	93,792	1/4	108,854	1/4	123,910	1/4	138,965
1/2	3,772	1/2	18,831	1/2	33,891	1/2	48,924	1/2	63,981	1/2	79,043	1/2	94,106	1/2	109,168	1/2	124,223	1/2	139,278
3/4	4,085	3/4	19,145	3/4	34,205	3/4	49,237	3/4	64,295	3/4	79,357	3/4	94,419	3/4	109,482	3/4	124,537	3/4	139,592
3	4,398	3	19,459	3	34,519	3	49,550	3	64,608	3	79,671	3	94,733	3	109,796	3	124,851	3	139,905
1/4	4,711	1/4	19,773	1/4	34,833	1/4	49,863	1/4	64,922	1/4	79,985	1/4	95,047	1/4	110,109	1/4	125,164	1/4	140,219
1/2	5,025	1/2	20,086	1/2	35,147	1/2	50,176	1/2	65,236	1/2	80,298	1/2	95,361	1/2	110,423	1/2	125,478	1/2	140,533
3/4	5,338	3/4	20,400	3/4	35,460	3/4	50,489	3/4	65,550	3/4	80,612	3/4	95,675	3/4	110,737	3/4	125,792	3/4	140,846
4	5,652	4	20,714	4	35,774	4	50,803	4	65,864	4	80,926	4	95,988	4	111,050	4	126,105	4	141,160
1/4	5,966	1/4	21,028	1/4	36,088	1/4	51,116	1/4	66,177	1/4	81,240	1/4	96,302	1/4	111,364	1/4	126,419	1/4	141,474
1/2	6,279	1/2	21,342	1/2	36,402	1/2	51,429	1/2	66,491	1/2	81,554	1/2	96,616	1/2	111,678	1/2	126,733	1/2	141,787
3/4	6,593	3/4	21,655	3/4	36,716	3/4	51,743	3/4	66,805	3/4	81,867	3/4	96,930	3/4	111,991	3/4	127,046	3/4	142,101
5	6,907	5	21,969	5	37,029	5	52,056	5	67,119	5	82,181	5	97,244	5	112,305	5	127,360	5	142,415
1/4	7,221	1/4	22,283	1/4	37,343	1/4	52,370	1/4	67,433	1/4	82,495	1/4	97,557	1/4	112,619	1/4	127,673	1/4	142,728
1/2	7,535	1/2	22,597	1/2	37,657	1/2	52,684	1/2	67,746	1/2	82,809	1/2	97,871	1/2	112,932	1/2	127,987	1/2	143,042
3/4	7,848	3/4	22,911	3/4	37,971	3/4	52,998	3/4	68,060	3/4	83,123	3/4	98,185	3/4	113,246	3/4	128,301	3/4	143,356
6	8,162	6	23,224	6	38,285	6	53,312	6	68,374	6	83,436	6	98,499	6	113,560	6	128,614	6	143,669
1/4	8,476	1/4	23,538	1/4	38,598	1/4	53,625	1/4	68,688	1/4	83,750	1/4	98,813	1/4	113,873	1/4	128,928	1/4	143,983
1/2	8,790	1/2	23,852	1/2	38,911	1/2	53,939	1/2	69,002	1/2	84,064	1/2	99,126	1/2	114,187	1/2	129,242	1/2	144,296
3/4	9,104	3/4	24,166	3/4	39,225	3/4	54,253	3/4	69,315	3/4	84,378	3/4	99,440	3/4	114,500	3/4	129,555	3/4	144,610
7	9,417	7	24,480	7	39,538	7	54,567	7	69,629	7	84,692	7	99,754	7	114,814	7	129,869	7	144,924
1/4	9,731	1/4	24,793	1/4	39,851	1/4	54,881	1/4	69,943	1/4	85,005	1/4	100,068	1/4	115,128	1/4	130,183	1/4	145,237
1/2	10,045	1/2	25,107	1/2	40,164	1/2	55,194	1/2	70,257	1/2	85,319	1/2	100,382	1/2	115,441	1/2	130,496	1/2	145,551
3/4	10,359	3/4	25,421	3/4	40,476	3/4	55,508	3/4	70,571	3/4	85,633	3/4	100,695	3/4	115,755	3/4	130,810	3/4	145,865
8	10,673	8	25,735	8	40,789	8	55,822	8	70,884	8	85,947	8	101,009	8	116,069	8	131,124	8	146,178
1/4	10,986	1/4	26,049	1/4	41,102	1/4	56,136	1/4	71,198	1/4	86,261	1/4	101,323	1/4	116,382	1/4	131,437	1/4	146,492
1/2	11,300	1/2	26,362	1/2	41,415	1/2	56,450	1/2	71,512	1/2	86,574	1/2	101,637	1/2	116,696	1/2	131,751	1/2	146,806
3/4	11,614	3/4	26,676	3/4	41,728	3/4	56,763	3/4	71,826	3/4	86,888	3/4	101,951	3/4	117,010	3/4	132,064	3/4	147,119
9	11,928	9	26,990	9	42,041	9	57,077	9	72,140	9	87,202	9	102,264	9	117,323	9	132,378	9	147,433
1/4	12,241	1/4	27,303	1/4	42,354	1/4	57,391	1/4	72,453	1/4	87,516	1/4	102,578	1/4	117,637	1/4	132,692	1/4	147,747
1/2	12,555	1/2	27,617	1/2	42,667	1/2	57,705	1/2	72,767	1/2	87,830	1/2	102,892	1/2	117,951	1/2	133,005	1/2	148,060
3/4	12,869	3/4	27,931	3/4	42,979	3/4	58,019	3/4	73,081	3/4	88,143	3/4	103,206	3/4	118,264	3/4	133,319	3/4	148,374
10	13,183	10	28,244	10	43,292	10	58,332	10	73,395	10	88,457	10	103,520	10	118,578	10	133,633	10	148,687
1/4	13,497	1/4	28,558	1/4	43,605	1/4	58,646	1/4	73,709	1/4	88,771	1/4	103,833	1/4	118,891	1/4	133,946	1/4	149,001
1/2	13,810	1/2	28,871	1/2	43,918	1/2	58,960	1/2	74,022	1/2	89,085	1/2	104,147	1/2	119,205	1/2	134,260	1/2	149,315
3/4	14,124	3/4	29,185	3/4	44,231	3/4	59,274	3/4	74,336	3/4	89,399	3/4	104,461	3/4	119,519	3/4	134,574	3/4	149,628
11	14,438	11	29,498	11	44,544	11	59,588	11	74,650	11	89,712	11	104,775	11	119,832	11	134,887	11	149,942
1/4	14,752	1/4	29,812	1/4	44,857	1/4	59,901	1/4	74,964	1/4	90,026	1/4	105,089	1/4	120,146	1/4	135,201	1/4	150,256
1/2	15,066	1/2	30,126	1/2	45,170	1/2	60,215	1/2	75,278	1/2	90,340	1/2	105,402	1/2	120,460	1/2	135,514	1/2	150,569
3/4	15,379	3/4	30,440	3/4	45,482	3/4	60,529	3/4	75,591	3/4	90,654	3/4	105,716	3/4	120,773	3/4	135,828	3/4	150,883

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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

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	151,197	0	166,251	0	181,296	0	196,299	0	211,206	0		0		0		0		0	
1/4	151,510	1/4	166,565	1/4	181,608	1/4	196,612	1/4	211,486	1/4		1/4		1/4		1/4		1/4	
1/2	151,824	1/2	166,879	1/2	181,921	1/2	196,925	1/2	211,766	1/2		1/2		1/2		1/2		1/2	
3/4	152,138	3/4	167,192	3/4	182,233	3/4	197,237	3/4	212,045	3/4		3/4		3/4		3/4		3/4	
1	152,451	1	167,506	1	182,546	1	197,550	1	212,325	1		1		1		1		1	
1/4	152,765	1/4	167,820	1/4	182,859	1/4	197,862	1/4	212,556	1/4		1/4		1/4		1/4		1/4	
1/2	153,078	1/2	168,133	1/2	183,171	1/2	198,175	1/2	212,788	1/2		1/2		1/2		1/2		1/2	
3/4	153,392	3/4	168,447	3/4	183,484	3/4	198,487	3/4	213,019	3/4		3/4		3/4		3/4		3/4	
2	153,706	2	168,761	2	183,796	2	198,800	2	213,250	2		2		2		2		2	
1/4	154,019	1/4	169,074	1/4	184,109	1/4	199,113	1/4	213,429	1/4		1/4		1/4		1/4		1/4	
1/2	154,333	1/2	169,388	1/2	184,421	1/2	199,425	1/2	213,608	1/2		1/2		1/2		1/2		1/2	
3/4	154,647	3/4	169,702	3/4	184,734	3/4	199,738	3/4	213,787	3/4		3/4		3/4		3/4		3/4	
3	154,960	3	170,015	3	185,047	3	200,050	3	213,966	3		3		3		3		3	
1/4	155,274	1/4	170,329	1/4	185,359	1/4	200,363	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,588	1/2	170,642	1/2	185,672	1/2	200,676	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,901	3/4	170,956	3/4	185,984	3/4	200,988	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,215	4	171,270	4	186,297	4	201,301	4		4		4		4		4		4	
1/4	156,529	1/4	171,583	1/4	186,609	1/4	201,613	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,842	1/2	171,897	1/2	186,922	1/2	201,926	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,156	3/4	172,211	3/4	187,235	3/4	202,238	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,469	5	172,524	5	187,547	5	202,551	5		5		5		5		5		5	
1/4	157,783	1/4	172,838	1/4	187,860	1/4	202,862	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,097	1/2	173,152	1/2	188,172	1/2	203,173	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,410	3/4	173,465	3/4	188,485	3/4	203,484	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,724	6	173,779	6	188,798	6	203,795	6		6		6		6		6		6	
1/4	159,038	1/4	174,093	1/4	189,110	1/4	204,105	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,351	1/2	174,406	1/2	189,423	1/2	204,414	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,665	3/4	174,720	3/4	189,735	3/4	204,724	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,979	7	175,033	7	190,048	7	205,033	7		7		7		7		7		7	
1/4	160,292	1/4	175,347	1/4	190,360	1/4	205,343	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,606	1/2	175,661	1/2	190,673	1/2	205,652	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,920	3/4	175,974	3/4	190,986	3/4	205,962	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,233	8	176,288	8	191,298	8	206,271	8		8		8		8		8		8	
1/4	161,547	1/4	176,602	1/4	191,611	1/4	206,581	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,860	1/2	176,915	1/2	191,923	1/2	206,891	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,174	3/4	177,229	3/4	192,236	3/4	207,200	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,488	9	177,543	9	192,548	9	207,510	9		9		9		9		9		9	
1/4	162,801	1/4	177,856	1/4	192,861	1/4	207,819	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,115	1/2	178,169	1/2	193,174	1/2	208,129	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,429	3/4	178,482	3/4	193,486	3/4	208,439	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,742	10	178,795	10	193,799	10	208,748	10		10		10		10		10		10	
1/4	164,056	1/4	179,108	1/4	194,111	1/4	209,057	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,370	1/2	179,420	1/2	194,424	1/2	209,366	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,683	3/4	179,733	3/4	194,737	3/4	209,675	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,997	11	180,045	11	195,049	11	209,985	11		11		11		11		11		11	
1/4	165,311	1/4	180,358	1/4	195,362	1/4	210,290	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,624	1/2	180,670	1/2	195,674	1/2	210,595	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,938	3/4	180,983	3/4	195,987	3/4	210,901	3/4		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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BARGE "HFL 441"

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	1,031	0	15,687	0	30,741	0	45,424	0	59,902	0	74,747	0	89,804	0	104,861	0	119,913	0	134,962
1/4	1,266	1/4	16,001	1/4	31,055	1/4	45,725	1/4	60,204	1/4	75,061	1/4	90,118	1/4	105,175	1/4	120,226	1/4	135,275
1/2	1,501	1/2	16,314	1/2	31,369	1/2	46,026	1/2	60,506	1/2	75,374	1/2	90,431	1/2	105,488	1/2	120,540	1/2	135,589
3/4	1,737	3/4	16,628	3/4	31,682	3/4	46,327	3/4	60,808	3/4	75,688	3/4	90,745	3/4	105,802	3/4	120,853	3/4	135,902
1	1,972	1	16,942	1	31,996	1	46,628	1	61,110	1	76,002	1	91,059	1	106,116	1	121,167	1	136,216
1/4	2,265	1/4	17,255	1/4	32,310	1/4	46,929	1/4	61,411	1/4	76,316	1/4	91,372	1/4	106,429	1/4	121,480	1/4	136,530
1/2	2,558	1/2	17,569	1/2	32,623	1/2	47,230	1/2	61,713	1/2	76,629	1/2	91,686	1/2	106,743	1/2	121,794	1/2	136,843
3/4	2,852	3/4	17,883	3/4	32,937	3/4	47,531	3/4	62,015	3/4	76,943	3/4	92,000	3/4	107,057	3/4	122,107	3/4	137,157
2	3,145	2	18,196	2	33,251	2	47,832	2	62,317	2	77,257	2	92,314	2	107,370	2	122,421	2	137,470
1/4	3,458	1/4	18,510	1/4	33,564	1/4	48,133	1/4	62,619	1/4	77,570	1/4	92,627	1/4	107,684	1/4	122,734	1/4	137,784
1/2	3,770	1/2	18,824	1/2	33,878	1/2	48,435	1/2	62,921	1/2	77,884	1/2	92,941	1/2	107,998	1/2	123,048	1/2	138,097
3/4	4,083	3/4	19,137	3/4	34,192	3/4	48,736	3/4	63,223	3/4	78,198	3/4	93,255	3/4	108,311	3/4	123,361	3/4	138,411
3	4,396	3	19,451	3	34,505	3	49,037	3	63,525	3	78,511	3	93,568	3	108,625	3	123,675	3	138,724
1/4	4,709	1/4	19,765	1/4	34,819	1/4	49,338	1/4	63,827	1/4	78,825	1/4	93,882	1/4	108,939	1/4	123,988	1/4	139,038
1/2	5,023	1/2	20,078	1/2	35,133	1/2	49,639	1/2	64,129	1/2	79,139	1/2	94,196	1/2	109,252	1/2	124,302	1/2	139,351
3/4	5,336	3/4	20,392	3/4	35,446	3/4	49,940	3/4	64,431	3/4	79,452	3/4	94,509	3/4	109,566	3/4	124,615	3/4	139,665
4	5,649	4	20,706	4	35,760	4	50,242	4	64,733	4	79,766	4	94,823	4	109,880	4	124,929	4	139,978
1/4	5,963	1/4	21,019	1/4	36,068	1/4	50,543	1/4	65,040	1/4	80,080	1/4	95,137	1/4	110,193	1/4	125,242	1/4	140,292
1/2	6,277	1/2	21,333	1/2	36,376	1/2	50,845	1/2	65,348	1/2	80,393	1/2	95,450	1/2	110,507	1/2	125,556	1/2	140,605
3/4	6,590	3/4	21,647	3/4	36,683	3/4	51,146	3/4	65,656	3/4	80,707	3/4	95,764	3/4	110,820	3/4	125,870	3/4	140,919
5	6,904	5	21,961	5	36,991	5	51,448	5	65,964	5	81,021	5	96,078	5	111,134	5	126,183	5	141,232
1/4	7,218	1/4	22,274	1/4	37,293	1/4	51,750	1/4	66,278	1/4	81,335	1/4	96,391	1/4	111,447	1/4	126,497	1/4	141,546
1/2	7,531	1/2	22,588	1/2	37,595	1/2	52,052	1/2	66,591	1/2	81,648	1/2	96,705	1/2	111,761	1/2	126,810	1/2	141,859
3/4	7,845	3/4	22,902	3/4	37,897	3/4	52,354	3/4	66,905	3/4	81,962	3/4	97,019	3/4	112,074	3/4	127,124	3/4	142,173
6	8,159	6	23,215	6	38,199	6	52,656	6	67,219	6	82,276	6	97,332	6	112,388	6	127,437	6	142,487
1/4	8,472	1/4	23,529	1/4	38,500	1/4	52,958	1/4	67,532	1/4	82,589	1/4	97,646	1/4	112,701	1/4	127,751	1/4	142,800
1/2	8,786	1/2	23,843	1/2	38,802	1/2	53,259	1/2	67,846	1/2	82,903	1/2	97,960	1/2	113,015	1/2	128,064	1/2	143,114
3/4	9,100	3/4	24,156	3/4	39,103	3/4	53,561	3/4	68,160	3/4	83,217	3/4	98,274	3/4	113,328	3/4	128,378	3/4	143,427
7	9,413	7	24,470	7	39,405	7	53,863	7	68,473	7	83,530	7	98,587	7	113,642	7	128,691	7	143,741
1/4	9,727	1/4	24,784	1/4	39,706	1/4	54,165	1/4	68,787	1/4	83,844	1/4	98,901	1/4	113,955	1/4	129,005	1/4	144,054
1/2	10,041	1/2	25,097	1/2	40,007	1/2	54,467	1/2	69,101	1/2	84,158	1/2	99,215	1/2	114,269	1/2	129,318	1/2	144,368
3/4	10,354	3/4	25,411	3/4	40,308	3/4	54,769	3/4	69,414	3/4	84,471	3/4	99,528	3/4	114,583	3/4	129,632	3/4	144,681
8	10,668	8	25,725	8	40,609	8	55,071	8	69,728	8	84,785	8	99,842	8	114,896	8	129,945	8	144,995
1/4	10,982	1/4	26,038	1/4	40,910	1/4	55,373	1/4	70,042	1/4	85,099	1/4	100,156	1/4	115,210	1/4	130,259	1/4	145,308
1/2	11,296	1/2	26,352	1/2	41,211	1/2	55,675	1/2	70,355	1/2	85,412	1/2	100,469	1/2	115,523	1/2	130,572	1/2	145,622
3/4	11,609	3/4	26,665	3/4	41,512	3/4	55,977	3/4	70,669	3/4	85,726	3/4	100,783	3/4	115,837	3/4	130,886	3/4	145,935
9	11,923	9	26,979	9	41,813	9	56,279	9	70,983	9	86,040	9	101,097	9	116,150	9	131,200	9	146,249
1/4	12,237	1/4	27,293	1/4	42,114	1/4	56,581	1/4	71,297	1/4	86,353	1/4	101,410	1/4	116,464	1/4	131,513	1/4	146,562
1/2	12,550	1/2	27,606	1/2	42,415	1/2	56,883	1/2	71,610	1/2	86,667	1/2	101,724	1/2	116,777	1/2	131,827	1/2	146,876
3/4	12,864	3/4	27,919	3/4	42,716	3/4	57,185	3/4	71,924	3/4	86,981	3/4	102,038	3/4	117,091	3/4	132,140	3/4	147,189
10	13,178	10	28,233	10	43,017	10	57,486	10	72,238	10	87,295	10	102,351	10	117,404	10	132,454	10	147,503
1/4	13,491	1/4	28,546	1/4	43,317	1/4	57,788	1/4	72,551	1/4	87,608	1/4	102,665	1/4	117,718	1/4	132,767	1/4	147,817
1/2	13,805	1/2	28,860	1/2	43,618	1/2	58,090	1/2	72,865	1/2	87,922	1/2	102,979	1/2	118,031	1/2	133,081	1/2	148,130
3/4	14,119	3/4	29,173	3/4	43,919	3/4	58,392	3/4	73,179	3/4	88,236	3/4	103,293	3/4	118,345	3/4	133,394	3/4	148,444
11	14,432	11	29,487	11	44,220	11	58,694	11	73,492	11	88,549	11	103,606	11	118,658	11	133,708	11	148,757
1/4	14,746	1/4	29,800	1/4	44,521	1/4	58,996	1/4	73,806	1/4	88,863	1/4	103,920	1/4	118,972	1/4	134,021	1/4	149,071
1/2	15,060	1/2	30,114	1/2	44,822	1/2	59,298	1/2	74,120	1/2	89,177	1/2	104,234	1/2	119,285	1/2	134,335	1/2	149,384
3/4	15,373	3/4	30,428	3/4	45,123	3/4	59,600	3/4	74,433	3/4	89,490	3/4	104,547	3/4	119,599	3/4	134,648	3/4	149,698

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 441"

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	150,011	0	165,061	0	180,099	0	195,098	0	209,999	0		0		0		0		0	
1/4	150,325	1/4	165,374	1/4	180,412	1/4	195,410	1/4	210,279	1/4		1/4		1/4		1/4		1/4	
1/2	150,638	1/2	165,688	1/2	180,724	1/2	195,723	1/2	210,558	1/2		1/2		1/2		1/2		1/2	
3/4	150,952	3/4	166,001	3/4	181,037	3/4	196,035	3/4	210,838	3/4		3/4		3/4		3/4		3/4	
1	151,265	1	166,315	1	181,349	1	196,347	1	211,117	1		1		1		1		1	
1/4	151,579	1/4	166,628	1/4	181,662	1/4	196,660	1/4	211,349	1/4		1/4		1/4		1/4		1/4	
1/2	151,892	1/2	166,942	1/2	181,974	1/2	196,972	1/2	211,580	1/2		1/2		1/2		1/2		1/2	
3/4	152,206	3/4	167,255	3/4	182,287	3/4	197,285	3/4	211,811	3/4		3/4		3/4		3/4		3/4	
2	152,519	2	167,569	2	182,599	2	197,597	2	212,042	2		2		2		2		2	
1/4	152,833	1/4	167,882	1/4	182,911	1/4	197,910	1/4	212,221	1/4		1/4		1/4		1/4		1/4	
1/2	153,147	1/2	168,196	1/2	183,224	1/2	198,222	1/2	212,400	1/2		1/2		1/2		1/2		1/2	
3/4	153,460	3/4	168,509	3/4	183,536	3/4	198,535	3/4	212,578	3/4		3/4		3/4		3/4		3/4	
3	153,774	3	168,823	3	183,849	3	198,847	3	212,757	3		3		3		3		3	
1/4	154,087	1/4	169,136	1/4	184,161	1/4	199,160	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,401	1/2	169,450	1/2	184,474	1/2	199,472	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,714	3/4	169,764	3/4	184,786	3/4	199,785	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,028	4	170,077	4	185,099	4	200,097	4		4		4		4		4		4	
1/4	155,341	1/4	170,391	1/4	185,411	1/4	200,409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,655	1/2	170,704	1/2	185,724	1/2	200,722	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,968	3/4	171,018	3/4	186,036	3/4	201,034	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,282	5	171,331	5	186,349	5	201,347	5		5		5		5		5		5	
1/4	156,595	1/4	171,645	1/4	186,661	1/4	201,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,909	1/2	171,958	1/2	186,974	1/2	201,969	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,222	3/4	172,272	3/4	187,286	3/4	202,280	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,536	6	172,585	6	187,598	6	202,591	6		6		6		6		6		6	
1/4	157,849	1/4	172,899	1/4	187,911	1/4	202,900	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,163	1/2	173,212	1/2	188,223	1/2	203,209	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,476	3/4	173,526	3/4	188,536	3/4	203,519	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,790	7	173,839	7	188,848	7	203,828	7		7		7		7		7		7	
1/4	159,104	1/4	174,153	1/4	189,161	1/4	204,137	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,417	1/2	174,466	1/2	189,473	1/2	204,447	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,731	3/4	174,780	3/4	189,786	3/4	204,756	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,044	8	175,094	8	190,098	8	205,066	8		8		8		8		8		8	
1/4	160,358	1/4	175,407	1/4	190,411	1/4	205,375	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,671	1/2	175,721	1/2	190,723	1/2	205,685	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,985	3/4	176,034	3/4	191,036	3/4	205,994	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,298	9	176,348	9	191,348	9	206,304	9		9		9		9		9		9	
1/4	161,612	1/4	176,661	1/4	191,660	1/4	206,613	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,925	1/2	176,974	1/2	191,973	1/2	206,923	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,239	3/4	177,287	3/4	192,285	3/4	207,232	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,552	10	177,600	10	192,598	10	207,542	10		10		10		10		10		10	
1/4	162,866	1/4	177,912	1/4	192,910	1/4	207,851	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,179	1/2	178,225	1/2	193,223	1/2	208,160	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,493	3/4	178,537	3/4	193,535	3/4	208,469	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,806	11	178,849	11	193,848	11	208,778	11		11		11		11		11		11	
1/4	164,120	1/4	179,162	1/4	194,160	1/4	209,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,434	1/2	179,474	1/2	194,473	1/2	209,388	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,747	3/4	179,787	3/4	194,785	3/4	209,694	3/4		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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BARGE "HFL 441"

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 441"

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: 11/05/2015 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 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	13,260	0	28,197	0	43,230	0	58,201	0	73,191	0	88,225	0	103,258	0	118,286	0	133,313
1/4	563	1/4	13,562	1/4	28,510	1/4	43,543	1/4	58,512	1/4	73,504	1/4	88,538	1/4	103,571	1/4	118,599	1/4	133,626
1/2	740	1/2	13,864	1/2	28,823	1/2	43,856	1/2	58,822	1/2	73,818	1/2	88,851	1/2	103,884	1/2	118,913	1/2	133,939
3/4	917	3/4	14,165	3/4	29,136	3/4	44,169	3/4	59,133	3/4	74,131	3/4	89,164	3/4	104,197	3/4	119,226	3/4	134,252
1	1,094	1	14,467	1	29,450	1	44,482	1	59,444	1	74,444	1	89,477	1	104,511	1	119,539	1	134,565
1/4	1,332	1/4	14,772	1/4	29,763	1/4	44,796	1/4	59,755	1/4	74,757	1/4	89,791	1/4	104,824	1/4	119,852	1/4	134,878
1/2	1,571	1/2	15,078	1/2	30,076	1/2	45,109	1/2	60,066	1/2	75,070	1/2	90,104	1/2	105,137	1/2	120,165	1/2	135,192
3/4	1,810	3/4	15,383	3/4	30,389	3/4	45,422	3/4	60,377	3/4	75,384	3/4	90,417	3/4	105,450	3/4	120,478	3/4	135,505
2	2,049	2	15,689	2	30,702	2	45,735	2	60,687	2	75,697	2	90,730	2	105,763	2	120,791	2	135,818
1/4	2,311	1/4	15,998	1/4	31,016	1/4	46,048	1/4	60,998	1/4	76,010	1/4	91,043	1/4	106,077	1/4	121,104	1/4	136,131
1/2	2,573	1/2	16,307	1/2	31,329	1/2	46,362	1/2	61,309	1/2	76,323	1/2	91,356	1/2	106,390	1/2	121,417	1/2	136,444
3/4	2,835	3/4	16,617	3/4	31,642	3/4	46,675	3/4	61,620	3/4	76,636	3/4	91,670	3/4	106,703	3/4	121,730	3/4	136,757
3	3,097	3	16,926	3	31,955	3	46,988	3	61,931	3	76,950	3	91,983	3	107,016	3	122,043	3	137,070
1/4	3,364	1/4	17,238	1/4	32,268	1/4	47,301	1/4	62,242	1/4	77,263	1/4	92,296	1/4	107,329	1/4	122,356	1/4	137,383
1/2	3,631	1/2	17,551	1/2	32,581	1/2	47,614	1/2	62,553	1/2	77,576	1/2	92,609	1/2	107,642	1/2	122,669	1/2	137,696
3/4	3,897	3/4	17,863	3/4	32,895	3/4	47,927	3/4	62,864	3/4	77,889	3/4	92,922	3/4	107,955	3/4	122,982	3/4	138,009
4	4,164	4	18,175	4	33,208	4	48,241	4	63,175	4	78,202	4	93,236	4	108,269	4	123,295	4	138,322
1/4	4,435	1/4	18,488	1/4	33,521	1/4	48,553	1/4	63,487	1/4	78,516	1/4	93,549	1/4	108,582	1/4	123,608	1/4	138,635
1/2	4,706	1/2	18,801	1/2	33,834	1/2	48,866	1/2	63,799	1/2	78,829	1/2	93,862	1/2	108,895	1/2	123,921	1/2	138,948
3/4	4,976	3/4	19,115	3/4	34,147	3/4	49,178	3/4	64,111	3/4	79,142	3/4	94,175	3/4	109,208	3/4	124,235	3/4	139,261
5	5,247	5	19,428	5	34,461	5	49,490	5	64,423	5	79,455	5	94,488	5	109,521	5	124,548	5	139,574
1/4	5,522	1/4	19,741	1/4	34,774	1/4	49,802	1/4	64,736	1/4	79,768	1/4	94,802	1/4	109,834	1/4	124,861	1/4	139,887
1/2	5,796	1/2	20,054	1/2	35,087	1/2	50,114	1/2	65,049	1/2	80,082	1/2	95,115	1/2	110,147	1/2	125,174	1/2	140,200
3/4	6,071	3/4	20,367	3/4	35,400	3/4	50,426	3/4	65,362	3/4	80,395	3/4	95,428	3/4	110,460	3/4	125,487	3/4	140,513
6	6,346	6	20,680	6	35,713	6	50,737	6	65,675	6	80,708	6	95,741	6	110,773	6	125,800	6	140,827
1/4	6,624	1/4	20,994	1/4	36,026	1/4	51,049	1/4	65,988	1/4	81,021	1/4	96,054	1/4	111,086	1/4	126,113	1/4	141,140
1/2	6,902	1/2	21,307	1/2	36,340	1/2	51,360	1/2	66,301	1/2	81,334	1/2	96,368	1/2	111,399	1/2	126,426	1/2	141,453
3/4	7,181	3/4	21,620	3/4	36,653	3/4	51,672	3/4	66,614	3/4	81,647	3/4	96,681	3/4	111,712	3/4	126,739	3/4	141,766
7	7,459	7	21,933	7	36,966	7	51,983	7	66,927	7	81,961	7	96,994	7	112,025	7	127,052	7	142,079
1/4	7,742	1/4	22,246	1/4	37,279	1/4	52,295	1/4	67,241	1/4	82,274	1/4	97,307	1/4	112,338	1/4	127,365	1/4	142,392
1/2	8,024	1/2	22,560	1/2	37,592	1/2	52,606	1/2	67,554	1/2	82,587	1/2	97,620	1/2	112,651	1/2	127,678	1/2	142,705
3/4	8,306	3/4	22,873	3/4	37,906	3/4	52,917	3/4	67,867	3/4	82,900	3/4	97,934	3/4	112,964	3/4	127,991	3/4	143,018
8	8,589	8	23,186	8	38,219	8	53,228	8	68,180	8	83,213	8	98,247	8	113,278	8	128,304	8	143,331
1/4	8,875	1/4	23,499	1/4	38,532	1/4	53,539	1/4	68,493	1/4	83,527	1/4	98,560	1/4	113,591	1/4	128,617	1/4	143,644
1/2	9,161	1/2	23,812	1/2	38,845	1/2	53,849	1/2	68,807	1/2	83,840	1/2	98,873	1/2	113,904	1/2	128,930	1/2	143,957
3/4	9,447	3/4	24,126	3/4	39,158	3/4	54,160	3/4	69,120	3/4	84,153	3/4	99,186	3/4	114,217	3/4	129,243	3/4	144,270
9	9,734	9	24,439	9	39,471	9	54,471	9	69,433	9	84,466	9	99,499	9	114,530	9	129,556	9	144,583
1/4	10,024	1/4	24,752	1/4	39,785	1/4	54,782	1/4	69,746	1/4	84,779	1/4	99,813	1/4	114,843	1/4	129,870	1/4	144,896
1/2	10,314	1/2	25,065	1/2	40,098	1/2	55,093	1/2	70,059	1/2	85,093	1/2	100,126	1/2	115,156	1/2	130,183	1/2	145,209
3/4	10,604	3/4	25,378	3/4	40,411	3/4	55,403	3/4	70,373	3/4	85,406	3/4	100,439	3/4	115,469	3/4	130,496	3/4	145,522
10	10,894	10	25,691	10	40,724	10	55,714	10	70,686	10	85,719	10	100,752	10	115,782	10	130,809	10	145,835
1/4	11,188	1/4	26,005	1/4	41,037	1/4	56,025	1/4	70,999	1/4	86,032	1/4	101,065	1/4	116,095	1/4	131,122	1/4	146,149
1/2	11,482	1/2	26,318	1/2	41,351	1/2	56,336	1/2	71,312	1/2	86,345	1/2	101,379	1/2	116,408	1/2	131,435	1/2	146,462
3/4	11,776	3/4	26,631	3/4	41,664	3/4	56,647	3/4	71,625	3/4	86,659	3/4	101,692	3/4	116,721	3/4	131,748	3/4	146,775
11	12,069	11	26,944	11	41,977	11	56,958	11	71,939	11	86,972	11	102,005	11	117,034	11	132,061	11	147,088
1/4	12,367	1/4	27,257	1/4	42,290	1/4	57,268	1/4	72,252	1/4	87,285	1/4	102,318	1/4	117,347	1/4	132,374	1/4	147,401
1/2	12,665	1/2	27,571	1/2	42,603	1/2	57,579	1/2	72,565	1/2	87,598	1/2	102,631	1/2	117,660	1/2	132,687	1/2	147,714
3/4	12,963	3/4	27,884	3/4	42,916	3/4	57,890	3/4	72,878	3/4	87,911	3/4	102,945	3/4	117,973	3/4	133,000	3/4	148,027

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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 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 441"

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	148,340	0	163,367	0	178,384	0	193,367	0	208,278	0		0		0		0		0	
1/4	148,653	1/4	163,680	1/4	178,696	1/4	193,679	1/4	208,558	1/4		1/4		1/4		1/4		1/4	
1/2	148,966	1/2	163,993	1/2	179,009	1/2	193,991	1/2	208,838	1/2		1/2		1/2		1/2		1/2	
3/4	149,279	3/4	164,306	3/4	179,321	3/4	194,304	3/4	209,118	3/4		3/4		3/4		3/4		3/4	
1	149,592	1	164,619	1	179,633	1	194,616	1	209,399	1		1		1		1		1	
1/4	149,905	1/4	164,932	1/4	179,945	1/4	194,928	1/4	209,631	1/4		1/4		1/4		1/4		1/4	
1/2	150,218	1/2	165,245	1/2	180,257	1/2	195,240	1/2	209,862	1/2		1/2		1/2		1/2		1/2	
3/4	150,531	3/4	165,558	3/4	180,569	3/4	195,552	3/4	210,094	3/4		3/4		3/4		3/4		3/4	
2	150,844	2	165,871	2	180,881	2	195,864	2	210,326	2		2		2		2		2	
1/4	151,157	1/4	166,184	1/4	181,194	1/4	196,176	1/4	210,506	1/4		1/4		1/4		1/4		1/4	
1/2	151,470	1/2	166,497	1/2	181,506	1/2	196,489	1/2	210,685	1/2		1/2		1/2		1/2		1/2	
3/4	151,784	3/4	166,810	3/4	181,818	3/4	196,801	3/4	210,865	3/4		3/4		3/4		3/4		3/4	
3	152,097	3	167,123	3	182,130	3	197,113	3	211,045	3		3		3		3		3	
1/4	152,410	1/4	167,436	1/4	182,442	1/4	197,425	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,723	1/2	167,749	1/2	182,754	1/2	197,737	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,036	3/4	168,063	3/4	183,066	3/4	198,049	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,349	4	168,376	4	183,379	4	198,361	4		4		4		4		4		4	
1/4	153,662	1/4	168,689	1/4	183,691	1/4	198,674	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,975	1/2	169,002	1/2	184,003	1/2	198,986	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,288	3/4	169,315	3/4	184,315	3/4	199,298	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,601	5	169,628	5	184,627	5	199,610	5		5		5		5		5		5	
1/4	154,914	1/4	169,941	1/4	184,939	1/4	199,921	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,227	1/2	170,254	1/2	185,251	1/2	200,232	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,540	3/4	170,567	3/4	185,564	3/4	200,543	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,853	6	170,880	6	185,876	6	200,854	6		6		6		6		6		6	
1/4	156,166	1/4	171,193	1/4	186,188	1/4	201,164	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,479	1/2	171,506	1/2	186,500	1/2	201,474	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,792	3/4	171,819	3/4	186,812	3/4	201,784	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,106	7	172,132	7	187,124	7	202,094	7		7		7		7		7		7	
1/4	157,419	1/4	172,445	1/4	187,436	1/4	202,404	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,732	1/2	172,758	1/2	187,749	1/2	202,714	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,045	3/4	173,071	3/4	188,061	3/4	203,025	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,358	8	173,384	8	188,373	8	203,335	8		8		8		8		8		8	
1/4	158,671	1/4	173,698	1/4	188,685	1/4	203,645	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,984	1/2	174,011	1/2	188,997	1/2	203,955	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,297	3/4	174,324	3/4	189,309	3/4	204,265	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,610	9	174,637	9	189,621	9	204,575	9		9		9		9		9		9	
1/4	159,923	1/4	174,949	1/4	189,934	1/4	204,885	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,236	1/2	175,262	1/2	190,246	1/2	205,195	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,549	3/4	175,575	3/4	190,558	3/4	205,505	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,862	10	175,887	10	190,870	10	205,815	10		10		10		10		10		10	
1/4	161,175	1/4	176,199	1/4	191,182	1/4	206,125	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,488	1/2	176,511	1/2	191,494	1/2	206,435	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,801	3/4	176,824	3/4	191,806	3/4	206,744	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,114	11	177,136	11	192,119	11	207,054	11		11		11		11		11		11	
1/4	162,427	1/4	177,448	1/4	192,431	1/4	207,360	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,741	1/2	177,760	1/2	192,743	1/2	207,666	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,054	3/4	178,072	3/4	193,055	3/4	207,972	3/4		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
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BARGE "HFL 441"

STBD SLOP INNAGE 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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		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	1/4	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	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	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		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	1/4	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	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	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		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	1/4	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	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	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		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	1/4	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	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	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		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	1/4	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	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	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		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	1/4	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	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	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: 11/05/2015 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"

PORT SLOP INNAGE 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	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	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	1/4	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	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	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	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	1/4	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	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	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	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	1/4	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	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	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		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	1/4	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	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	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		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	1/4	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	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	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		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	1/4	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	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	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		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	1/4	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	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	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		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	1/4	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	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	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		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	1/4	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	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	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
<http://www.pmacorp.net>



BARGE "HFL 441"

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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