



BARGE "HFL 410"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-5/8	01-5/8	- 01-7/8	01-7/8
3 STBD	- 00-3/8	00-3/8	- 00-5/8	00-5/8	- 01-0/8	01-0/8	- 01-1/4	01-1/4	- 01-5/8	01-5/8	- 01-7/8	01-7/8

(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 3 PORT IS 00-5/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 5/8"

LENGTH BETWEEN DRAFT MARKS: 242'-09"

February 1, 2019

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 410"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	41	0	10,981	0	23,845	0	38,079	0	52,923	0	67,791	0	82,658	0	97,526	0	112,393	0	127,260
1/4	174	1/4	11,235	1/4	24,129	1/4	38,386	1/4	53,233	1/4	68,101	1/4	82,968	1/4	97,835	1/4	112,703	1/4	127,570
1/2	308	1/2	11,489	1/2	24,414	1/2	38,694	1/2	53,543	1/2	68,410	1/2	83,278	1/2	98,145	1/2	113,012	1/2	127,880
3/4	441	3/4	11,743	3/4	24,698	3/4	39,001	3/4	53,853	3/4	68,720	3/4	83,587	3/4	98,454	3/4	113,322	3/4	128,189
1	574	1	11,998	1	24,983	1	39,308	1	54,162	1	69,030	1	83,897	1	98,764	1	113,632	1	128,499
1/4	779	1/4	12,254	1/4	25,270	1/4	39,616	1/4	54,472	1/4	69,339	1/4	84,207	1/4	99,074	1/4	113,942	1/4	128,809
1/2	983	1/2	12,511	1/2	25,558	1/2	39,923	1/2	54,782	1/2	69,649	1/2	84,517	1/2	99,384	1/2	114,251	1/2	129,119
3/4	1,188	3/4	12,768	3/4	25,845	3/4	40,230	3/4	55,092	3/4	69,959	3/4	84,826	3/4	99,694	3/4	114,561	3/4	129,428
2	1,392	2	13,025	2	26,132	2	40,538	2	55,401	2	70,269	2	85,136	2	100,003	2	114,871	2	129,738
1/4	1,618	1/4	13,284	1/4	26,421	1/4	40,846	1/4	55,711	1/4	70,578	1/4	85,446	1/4	100,313	1/4	115,180	1/4	130,048
1/2	1,844	1/2	13,543	1/2	26,709	1/2	41,155	1/2	56,021	1/2	70,888	1/2	85,756	1/2	100,623	1/2	115,490	1/2	130,358
3/4	2,070	3/4	13,803	3/4	26,998	3/4	41,464	3/4	56,331	3/4	71,198	3/4	86,065	3/4	100,933	3/4	115,800	3/4	130,667
3	2,296	3	14,062	3	27,287	3	41,773	3	56,640	3	71,508	3	86,375	3	101,242	3	116,110	3	130,977
1/4	2,526	1/4	14,324	1/4	27,578	1/4	42,083	1/4	56,950	1/4	71,817	1/4	86,685	1/4	101,552	1/4	116,419	1/4	131,287
1/2	2,756	1/2	14,586	1/2	27,868	1/2	42,392	1/2	57,260	1/2	72,127	1/2	86,994	1/2	101,862	1/2	116,729	1/2	131,596
3/4	2,986	3/4	14,848	3/4	28,159	3/4	42,702	3/4	57,570	3/4	72,437	3/4	87,304	3/4	102,172	3/4	117,039	3/4	131,906
4	3,216	4	15,109	4	28,450	4	43,012	4	57,879	4	72,747	4	87,614	4	102,481	4	117,349	4	132,216
1/4	3,449	1/4	15,374	1/4	28,743	1/4	43,322	1/4	58,189	1/4	73,056	1/4	87,924	1/4	102,791	1/4	117,658	1/4	132,526
1/2	3,682	1/2	15,638	1/2	29,035	1/2	43,631	1/2	58,499	1/2	73,366	1/2	88,233	1/2	103,101	1/2	117,968	1/2	132,835
3/4	3,915	3/4	15,902	3/4	29,328	3/4	43,941	3/4	58,808	3/4	73,676	3/4	88,543	3/4	103,410	3/4	118,278	3/4	133,145
5	4,148	5	16,166	5	29,621	5	44,251	5	59,118	5	73,986	5	88,853	5	103,720	5	118,588	5	133,455
1/4	4,384	1/4	16,433	1/4	29,916	1/4	44,561	1/4	59,428	1/4	74,295	1/4	89,163	1/4	104,030	1/4	118,897	1/4	133,765
1/2	4,620	1/2	16,699	1/2	30,211	1/2	44,870	1/2	59,738	1/2	74,605	1/2	89,472	1/2	104,340	1/2	119,207	1/2	134,074
3/4	4,856	3/4	16,966	3/4	30,506	3/4	45,180	3/4	60,047	3/4	74,915	3/4	89,782	3/4	104,649	3/4	119,517	3/4	134,384
6	5,092	6	17,233	6	30,801	6	45,490	6	60,357	6	75,224	6	90,092	6	104,959	6	119,827	6	134,694
1/4	5,331	1/4	17,502	1/4	31,098	1/4	45,800	1/4	60,667	1/4	75,534	1/4	90,402	1/4	105,269	1/4	120,136	1/4	135,004
1/2	5,570	1/2	17,771	1/2	31,396	1/2	46,109	1/2	60,977	1/2	75,844	1/2	90,711	1/2	105,579	1/2	120,446	1/2	135,313
3/4	5,809	3/4	18,040	3/4	31,693	3/4	46,419	3/4	61,286	3/4	76,154	3/4	91,021	3/4	105,888	3/4	120,756	3/4	135,623
7	6,048	7	18,309	7	31,991	7	46,729	7	61,596	7	76,463	7	91,331	7	106,198	7	121,065	7	135,933
1/4	6,290	1/4	18,581	1/4	32,291	1/4	47,038	1/4	61,906	1/4	76,773	1/4	91,641	1/4	106,508	1/4	121,375	1/4	136,243
1/2	6,531	1/2	18,853	1/2	32,591	1/2	47,348	1/2	62,216	1/2	77,083	1/2	91,950	1/2	106,818	1/2	121,685	1/2	136,552
3/4	6,773	3/4	19,124	3/4	32,891	3/4	47,658	3/4	62,525	3/4	77,393	3/4	92,260	3/4	107,127	3/4	121,995	3/4	136,862
8	7,014	8	19,396	8	33,191	8	47,968	8	62,835	8	77,702	8	92,570	8	107,437	8	122,304	8	137,172
1/4	7,258	1/4	19,670	1/4	33,494	1/4	48,277	1/4	63,145	1/4	78,012	1/4	92,879	1/4	107,747	1/4	122,614	1/4	137,481
1/2	7,502	1/2	19,945	1/2	33,796	1/2	48,587	1/2	63,455	1/2	78,322	1/2	93,189	1/2	108,057	1/2	122,924	1/2	137,791
3/4	7,747	3/4	20,219	3/4	34,099	3/4	48,897	3/4	63,764	3/4	78,632	3/4	93,499	3/4	108,366	3/4	123,234	3/4	138,101
9	7,991	9	20,493	9	34,401	9	49,207	9	64,074	9	78,941	9	93,809	9	108,676	9	123,543	9	138,411
1/4	8,237	1/4	20,770	1/4	34,707	1/4	49,516	1/4	64,384	1/4	79,251	1/4	94,118	1/4	108,986	1/4	123,853	1/4	138,720
1/2	8,484	1/2	21,047	1/2	35,012	1/2	49,826	1/2	64,693	1/2	79,561	1/2	94,428	1/2	109,295	1/2	124,163	1/2	139,030
3/4	8,731	3/4	21,323	3/4	35,317	3/4	50,136	3/4	65,003	3/4	79,871	3/4	94,738	3/4	109,605	3/4	124,473	3/4	139,340
10	8,977	10	21,600	10	35,622	10	50,446	10	65,313	10	80,180	10	95,048	10	109,915	10	124,782	10	139,650
1/4	9,226	1/4	21,879	1/4	35,929	1/4	50,755	1/4	65,623	1/4	80,490	1/4	95,357	1/4	110,225	1/4	125,092	1/4	139,959
1/2	9,476	1/2	22,159	1/2	36,236	1/2	51,065	1/2	65,932	1/2	80,800	1/2	95,667	1/2	110,534	1/2	125,402	1/2	140,269
3/4	9,725	3/4	22,438	3/4	36,543	3/4	51,375	3/4	66,242	3/4	81,109	3/4	95,977	3/4	110,844	3/4	125,712	3/4	140,579
11	9,974	11	22,717	11	36,849	11	51,685	11	66,552	11	81,419	11	96,287	11	111,154	11	126,021	11	140,889
1/4	10,226	1/4	22,999	1/4	37,157	1/4	51,994	1/4	66,862	1/4	81,729	1/4	96,596	1/4	111,464	1/4	126,331	1/4	141,198
1/2	10,477	1/2	23,281	1/2	37,464	1/2	52,304	1/2	67,171	1/2	82,039	1/2	96,906	1/2	111,773	1/2	126,641	1/2	141,508
3/4	10,729	3/4	23,563	3/4	37,771	3/4	52,614	3/4	67,481	3/4	82,348	3/4	97,216	3/4	112,083	3/4	126,950	3/4	141,818

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

PRECISION MEASUREMENT
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BARGE "HFL 410"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	142,128	0	156,995	0	171,862	0	186,730	0	201,588	0		0		0		0		0	
1/4	142,437	1/4	157,305	1/4	172,172	1/4	187,039	1/4	201,895	1/4		1/4		1/4		1/4		1/4	
1/2	142,747	1/2	157,614	1/2	172,482	1/2	187,349	1/2	202,203	1/2		1/2		1/2		1/2		1/2	
3/4	143,057	3/4	157,924	3/4	172,791	3/4	187,659	3/4	202,510	3/4		3/4		3/4		3/4		3/4	
1	143,366	1	158,234	1	173,101	1	187,969	1	202,817	1		1		1		1		1	
1/4	143,676	1/4	158,544	1/4	173,411	1/4	188,278	1/4	203,120	1/4		1/4		1/4		1/4		1/4	
1/2	143,986	1/2	158,853	1/2	173,721	1/2	188,588	1/2	203,422	1/2		1/2		1/2		1/2		1/2	
3/4	144,296	3/4	159,163	3/4	174,030	3/4	188,898	3/4	203,724	3/4		3/4		3/4		3/4		3/4	
2	144,605	2	159,473	2	174,340	2	189,207	2	204,026	2		2		2		2		2	
1/4	144,915	1/4	159,782	1/4	174,650	1/4	189,517	1/4	204,294	1/4		1/4		1/4		1/4		1/4	
1/2	145,225	1/2	160,092	1/2	174,960	1/2	189,827	1/2	204,561	1/2		1/2		1/2		1/2		1/2	
3/4	145,535	3/4	160,402	3/4	175,269	3/4	190,137	3/4	204,828	3/4		3/4		3/4		3/4		3/4	
3	145,844	3	160,712	3	175,579	3	190,446	3	205,095	3		3		3		3		3	
1/4	146,154	1/4	161,021	1/4	175,889	1/4	190,756	1/4	205,304	1/4		1/4		1/4		1/4		1/4	
1/2	146,464	1/2	161,331	1/2	176,199	1/2	191,066	1/2	205,513	1/2		1/2		1/2		1/2		1/2	
3/4	146,774	3/4	161,641	3/4	176,508	3/4	191,376	3/4	205,722	3/4		3/4		3/4		3/4		3/4	
4	147,083	4	161,951	4	176,818	4	191,685	4	205,932	4		4		4		4		4	
1/4	147,393	1/4	162,260	1/4	177,128	1/4	191,995	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,703	1/2	162,570	1/2	177,437	1/2	192,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,013	3/4	162,880	3/4	177,747	3/4	192,615	3/4		3/4		3/4		3/4		3/4		3/4	
5	148,322	5	163,190	5	178,057	5	192,924	5		5		5		5		5		5	
1/4	148,632	1/4	163,499	1/4	178,367	1/4	193,234	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,942	1/2	163,809	1/2	178,676	1/2	193,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,251	3/4	164,119	3/4	178,986	3/4	193,853	3/4		3/4		3/4		3/4		3/4		3/4	
6	149,561	6	164,429	6	179,296	6	194,163	6		6		6		6		6		6	
1/4	149,871	1/4	164,738	1/4	179,606	1/4	194,473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,181	1/2	165,048	1/2	179,915	1/2	194,783	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	150,490	3/4	165,358	3/4	180,225	3/4	195,092	3/4		3/4		3/4		3/4		3/4		3/4	
7	150,800	7	165,667	7	180,535	7	195,402	7		7		7		7		7		7	
1/4	151,110	1/4	165,977	1/4	180,845	1/4	195,712	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,420	1/2	166,287	1/2	181,154	1/2	196,022	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,729	3/4	166,597	3/4	181,464	3/4	196,331	3/4		3/4		3/4		3/4		3/4		3/4	
8	152,039	8	166,906	8	181,774	8	196,641	8		8		8		8		8		8	
1/4	152,349	1/4	167,216	1/4	182,084	1/4	196,951	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,659	1/2	167,526	1/2	182,393	1/2	197,260	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,968	3/4	167,836	3/4	182,703	3/4	197,570	3/4		3/4		3/4		3/4		3/4		3/4	
9	153,278	9	168,145	9	183,013	9	197,880	9		9		9		9		9		9	
1/4	153,588	1/4	168,455	1/4	183,322	1/4	198,189	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,898	1/2	168,765	1/2	183,632	1/2	198,499	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,207	3/4	169,075	3/4	183,942	3/4	198,808	3/4		3/4		3/4		3/4		3/4		3/4	
10	154,517	10	169,384	10	184,252	10	199,118	10		10		10		10		10		10	
1/4	154,827	1/4	169,694	1/4	184,561	1/4	199,427	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,136	1/2	170,004	1/2	184,871	1/2	199,736	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,446	3/4	170,314	3/4	185,181	3/4	200,045	3/4		3/4		3/4		3/4		3/4		3/4	
11	155,756	11	170,623	11	185,491	11	200,354	11		11		11		11		11		11	
1/4	156,066	1/4	170,933	1/4	185,800	1/4	200,663	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,375	1/2	171,243	1/2	186,110	1/2	200,971	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,685	3/4	171,552	3/4	186,420	3/4	201,279	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 410"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	42	0	11,007	0	23,898	0	38,228	0	53,117	0	68,010	0	82,904	0	97,798	0	112,692	0	127,586
1/4	176	1/4	11,262	1/4	24,183	1/4	38,538	1/4	53,427	1/4	68,321	1/4	83,214	1/4	98,108	1/4	113,002	1/4	127,896
1/2	309	1/2	11,517	1/2	24,468	1/2	38,847	1/2	53,737	1/2	68,631	1/2	83,525	1/2	98,419	1/2	113,312	1/2	128,206
3/4	443	3/4	11,772	3/4	24,753	3/4	39,157	3/4	54,047	3/4	68,941	3/4	83,835	3/4	98,729	3/4	113,623	3/4	128,516
1	577	1	12,027	1	25,038	1	39,467	1	54,358	1	69,252	1	84,145	1	99,039	1	113,933	1	128,827
1/4	782	1/4	12,284	1/4	25,326	1/4	39,777	1/4	54,668	1/4	69,562	1/4	84,456	1/4	99,349	1/4	114,243	1/4	129,137
1/2	987	1/2	12,541	1/2	25,614	1/2	40,086	1/2	54,978	1/2	69,872	1/2	84,766	1/2	99,660	1/2	114,554	1/2	129,447
3/4	1,192	3/4	12,799	3/4	25,902	3/4	40,396	3/4	55,289	3/4	70,182	3/4	85,076	3/4	99,970	3/4	114,864	3/4	129,758
2	1,397	2	13,056	2	26,190	2	40,706	2	55,599	2	70,493	2	85,386	2	100,280	2	115,174	2	130,068
1/4	1,623	1/4	13,316	1/4	26,480	1/4	41,016	1/4	55,909	1/4	70,803	1/4	85,697	1/4	100,591	1/4	115,484	1/4	130,378
1/2	1,850	1/2	13,576	1/2	26,770	1/2	41,326	1/2	56,219	1/2	71,113	1/2	86,007	1/2	100,901	1/2	115,795	1/2	130,688
3/4	2,077	3/4	13,835	3/4	27,060	3/4	41,636	3/4	56,530	3/4	71,424	3/4	86,317	3/4	101,211	3/4	116,105	3/4	130,999
3	2,303	3	14,095	3	27,351	3	41,946	3	56,840	3	71,734	3	86,628	3	101,521	3	116,415	3	131,309
1/4	2,534	1/4	14,358	1/4	27,644	1/4	42,257	1/4	57,150	1/4	72,044	1/4	86,938	1/4	101,832	1/4	116,726	1/4	131,619
1/2	2,764	1/2	14,620	1/2	27,936	1/2	42,567	1/2	57,461	1/2	72,354	1/2	87,248	1/2	102,142	1/2	117,036	1/2	131,930
3/4	2,994	3/4	14,883	3/4	28,229	3/4	42,877	3/4	57,771	3/4	72,665	3/4	87,559	3/4	102,452	3/4	117,346	3/4	132,240
4	3,225	4	15,145	4	28,522	4	43,187	4	58,081	4	72,975	4	87,869	4	102,763	4	117,656	4	132,550
1/4	3,458	1/4	15,410	1/4	28,817	1/4	43,498	1/4	58,391	1/4	73,285	1/4	88,179	1/4	103,073	1/4	117,967	1/4	132,860
1/2	3,692	1/2	15,674	1/2	29,112	1/2	43,808	1/2	58,702	1/2	73,596	1/2	88,489	1/2	103,383	1/2	118,277	1/2	133,171
3/4	3,926	3/4	15,939	3/4	29,407	3/4	44,118	3/4	59,012	3/4	73,906	3/4	88,800	3/4	103,693	3/4	118,587	3/4	133,481
5	4,159	5	16,204	5	29,702	5	44,429	5	59,322	5	74,216	5	89,110	5	104,004	5	118,898	5	133,791
1/4	4,396	1/4	16,471	1/4	30,000	1/4	44,739	1/4	59,633	1/4	74,526	1/4	89,420	1/4	104,314	1/4	119,208	1/4	134,102
1/2	4,633	1/2	16,738	1/2	30,297	1/2	45,049	1/2	59,943	1/2	74,837	1/2	89,731	1/2	104,624	1/2	119,518	1/2	134,412
3/4	4,869	3/4	17,005	3/4	30,595	3/4	45,359	3/4	60,253	3/4	75,147	3/4	90,041	3/4	104,935	3/4	119,828	3/4	134,722
6	5,106	6	17,273	6	30,892	6	45,670	6	60,564	6	75,457	6	90,351	6	105,245	6	120,139	6	135,032
1/4	5,345	1/4	17,542	1/4	31,192	1/4	45,980	1/4	60,874	1/4	75,768	1/4	90,661	1/4	105,555	1/4	120,449	1/4	135,343
1/2	5,585	1/2	17,812	1/2	31,492	1/2	46,290	1/2	61,184	1/2	76,078	1/2	90,972	1/2	105,865	1/2	120,759	1/2	135,653
3/4	5,824	3/4	18,082	3/4	31,792	3/4	46,601	3/4	61,494	3/4	76,388	3/4	91,282	3/4	106,176	3/4	121,070	3/4	135,963
7	6,064	7	18,352	7	32,092	7	46,911	7	61,805	7	76,698	7	91,592	7	106,486	7	121,380	7	136,274
1/4	6,306	1/4	18,624	1/4	32,394	1/4	47,221	1/4	62,115	1/4	77,009	1/4	91,903	1/4	106,796	1/4	121,690	1/4	136,584
1/2	6,548	1/2	18,896	1/2	32,697	1/2	47,531	1/2	62,425	1/2	77,319	1/2	92,213	1/2	107,107	1/2	122,000	1/2	136,894
3/4	6,790	3/4	19,168	3/4	32,999	3/4	47,842	3/4	62,736	3/4	77,629	3/4	92,523	3/4	107,417	3/4	122,311	3/4	137,204
8	7,032	8	19,441	8	33,302	8	48,152	8	63,046	8	77,940	8	92,833	8	107,727	8	122,621	8	137,515
1/4	7,277	1/4	19,715	1/4	33,607	1/4	48,462	1/4	63,356	1/4	78,250	1/4	93,144	1/4	108,037	1/4	122,931	1/4	137,825
1/2	7,521	1/2	19,990	1/2	33,912	1/2	48,773	1/2	63,666	1/2	78,560	1/2	93,454	1/2	108,348	1/2	123,242	1/2	138,135
3/4	7,766	3/4	20,265	3/4	34,217	3/4	49,083	3/4	63,977	3/4	78,870	3/4	93,764	3/4	108,658	3/4	123,552	3/4	138,446
9	8,011	9	20,540	9	34,522	9	49,393	9	64,287	9	79,181	9	94,075	9	108,968	9	123,862	9	138,756
1/4	8,258	1/4	20,817	1/4	34,829	1/4	49,703	1/4	64,597	1/4	79,491	1/4	94,385	1/4	109,279	1/4	124,172	1/4	139,066
1/2	8,505	1/2	21,094	1/2	35,137	1/2	50,014	1/2	64,908	1/2	79,801	1/2	94,695	1/2	109,589	1/2	124,483	1/2	139,377
3/4	8,752	3/4	21,372	3/4	35,444	3/4	50,324	3/4	65,218	3/4	80,112	3/4	95,005	3/4	109,899	3/4	124,793	3/4	139,687
10	9,000	10	21,649	10	35,752	10	50,634	10	65,528	10	80,422	10	95,316	10	110,209	10	125,103	10	139,997
1/4	9,249	1/4	21,929	1/4	36,061	1/4	50,945	1/4	65,838	1/4	80,732	1/4	95,626	1/4	110,520	1/4	125,414	1/4	140,307
1/2	9,499	1/2	22,209	1/2	36,370	1/2	51,255	1/2	66,149	1/2	81,042	1/2	95,936	1/2	110,830	1/2	125,724	1/2	140,618
3/4	9,749	3/4	22,489	3/4	36,680	3/4	51,565	3/4	66,459	3/4	81,353	3/4	96,247	3/4	111,140	3/4	126,034	3/4	140,928
11	9,998	11	22,768	11	36,989	11	51,875	11	66,769	11	81,663	11	96,557	11	111,451	11	126,344	11	141,238
1/4	10,251	1/4	23,051	1/4	37,299	1/4	52,186	1/4	67,080	1/4	81,973	1/4	96,867	1/4	111,761	1/4	126,655	1/4	141,549
1/2	10,503	1/2	23,333	1/2	37,608	1/2	52,496	1/2	67,390	1/2	82,284	1/2	97,177	1/2	112,071	1/2	126,965	1/2	141,859
3/4	10,755	3/4	23,616	3/4	37,918	3/4	52,806	3/4	67,700	3/4	82,594	3/4	97,488	3/4	112,382	3/4	127,275	3/4	142,169

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

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



BARGE "HFL 410"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	142,479	0	157,373	0	172,267	0	187,161	0	202,046	0		0		0		0		0	
1/4	142,790	1/4	157,683	1/4	172,577	1/4	187,471	1/4	202,353	1/4		1/4		1/4		1/4		1/4	
1/2	143,100	1/2	157,994	1/2	172,888	1/2	187,781	1/2	202,661	1/2		1/2		1/2		1/2		1/2	
3/4	143,410	3/4	158,304	3/4	173,198	3/4	188,092	3/4	202,969	3/4		3/4		3/4		3/4		3/4	
1	143,721	1	158,614	1	173,508	1	188,402	1	203,277	1		1		1		1		1	
1/4	144,031	1/4	158,925	1/4	173,818	1/4	188,712	1/4	203,580	1/4		1/4		1/4		1/4		1/4	
1/2	144,341	1/2	159,235	1/2	174,129	1/2	189,022	1/2	203,883	1/2		1/2		1/2		1/2		1/2	
3/4	144,651	3/4	159,545	3/4	174,439	3/4	189,333	3/4	204,186	3/4		3/4		3/4		3/4		3/4	
2	144,962	2	159,855	2	174,749	2	189,643	2	204,489	2		2		2		2		2	
1/4	145,272	1/4	160,166	1/4	175,060	1/4	189,953	1/4	204,756	1/4		1/4		1/4		1/4		1/4	
1/2	145,582	1/2	160,476	1/2	175,370	1/2	190,264	1/2	205,024	1/2		1/2		1/2		1/2		1/2	
3/4	145,893	3/4	160,786	3/4	175,680	3/4	190,574	3/4	205,292	3/4		3/4		3/4		3/4		3/4	
3	146,203	3	161,097	3	175,990	3	190,884	3	205,559	3		3		3		3		3	
1/4	146,513	1/4	161,407	1/4	176,301	1/4	191,194	1/4	205,769	1/4		1/4		1/4		1/4		1/4	
1/2	146,823	1/2	161,717	1/2	176,611	1/2	191,505	1/2	205,978	1/2		1/2		1/2		1/2		1/2	
3/4	147,134	3/4	162,027	3/4	176,921	3/4	191,815	3/4	206,188	3/4		3/4		3/4		3/4		3/4	
4	147,444	4	162,338	4	177,232	4	192,125	4	206,397	4		4		4		4		4	
1/4	147,754	1/4	162,648	1/4	177,542	1/4	192,436	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,065	1/2	162,958	1/2	177,852	1/2	192,746	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	148,375	3/4	163,269	3/4	178,162	3/4	193,056	3/4		3/4		3/4		3/4		3/4		3/4	
5	148,685	5	163,579	5	178,473	5	193,367	5		5		5		5		5		5	
1/4	148,995	1/4	163,889	1/4	178,783	1/4	193,677	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	149,306	1/2	164,199	1/2	179,093	1/2	193,987	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,616	3/4	164,510	3/4	179,404	3/4	194,297	3/4		3/4		3/4		3/4		3/4		3/4	
6	149,926	6	164,820	6	179,714	6	194,608	6		6		6		6		6		6	
1/4	150,237	1/4	165,130	1/4	180,024	1/4	194,918	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,547	1/2	165,441	1/2	180,334	1/2	195,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	150,857	3/4	165,751	3/4	180,645	3/4	195,539	3/4		3/4		3/4		3/4		3/4		3/4	
7	151,167	7	166,061	7	180,955	7	195,849	7		7		7		7		7		7	
1/4	151,478	1/4	166,372	1/4	181,265	1/4	196,159	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,788	1/2	166,682	1/2	181,576	1/2	196,469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,098	3/4	166,992	3/4	181,886	3/4	196,780	3/4		3/4		3/4		3/4		3/4		3/4	
8	152,409	8	167,302	8	182,196	8	197,090	8		8		8		8		8		8	
1/4	152,719	1/4	167,613	1/4	182,506	1/4	197,400	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,029	1/2	167,923	1/2	182,817	1/2	197,710	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,339	3/4	168,233	3/4	183,127	3/4	198,021	3/4		3/4		3/4		3/4		3/4		3/4	
9	153,650	9	168,544	9	183,437	9	198,331	9		9		9		9		9		9	
1/4	153,960	1/4	168,854	1/4	183,748	1/4	198,641	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,270	1/2	169,164	1/2	184,058	1/2	198,951	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,581	3/4	169,474	3/4	184,368	3/4	199,261	3/4		3/4		3/4		3/4		3/4		3/4	
10	154,891	10	169,785	10	184,678	10	199,571	10		10		10		10		10		10	
1/4	155,201	1/4	170,095	1/4	184,989	1/4	199,881	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,511	1/2	170,405	1/2	185,299	1/2	200,190	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,822	3/4	170,716	3/4	185,609	3/4	200,500	3/4		3/4		3/4		3/4		3/4		3/4	
11	156,132	11	171,026	11	185,920	11	200,810	11		11		11		11		11		11	
1/4	156,442	1/4	171,336	1/4	186,230	1/4	201,119	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,753	1/2	171,646	1/2	186,540	1/2	201,428	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,063	3/4	171,957	3/4	186,850	3/4	201,737	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 410"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	617	0	14,936	0	29,265	0	43,802	0	58,591	0	73,380	0	88,170	0	102,959	0	117,748	0	132,538
1/4	835	1/4	15,244	1/4	29,558	1/4	44,110	1/4	58,899	1/4	73,688	1/4	88,478	1/4	103,267	1/4	118,056	1/4	132,846
1/2	1,053	1/2	15,552	1/2	29,852	1/2	44,418	1/2	59,207	1/2	73,997	1/2	88,786	1/2	103,575	1/2	118,364	1/2	133,154
3/4	1,271	3/4	15,860	3/4	30,145	3/4	44,726	3/4	59,515	3/4	74,305	3/4	89,094	3/4	103,883	3/4	118,673	3/4	133,462
1	1,489	1	16,169	1	30,438	1	45,034	1	59,823	1	74,613	1	89,402	1	104,191	1	118,981	1	133,770
1/4	1,776	1/4	16,477	1/4	30,731	1/4	45,342	1/4	60,132	1/4	74,921	1/4	89,710	1/4	104,499	1/4	119,289	1/4	134,078
1/2	2,062	1/2	16,785	1/2	31,025	1/2	45,650	1/2	60,440	1/2	75,229	1/2	90,018	1/2	104,808	1/2	119,597	1/2	134,386
3/4	2,348	3/4	17,093	3/4	31,318	3/4	45,958	3/4	60,748	3/4	75,537	3/4	90,326	3/4	105,116	3/4	119,905	3/4	134,694
2	2,635	2	17,401	2	31,611	2	46,267	2	61,056	2	75,845	2	90,635	2	105,424	2	120,213	2	135,002
1/4	2,940	1/4	17,709	1/4	31,905	1/4	46,575	1/4	61,364	1/4	76,153	1/4	90,943	1/4	105,732	1/4	120,521	1/4	135,311
1/2	3,245	1/2	18,017	1/2	32,199	1/2	46,883	1/2	61,672	1/2	76,461	1/2	91,251	1/2	106,040	1/2	120,829	1/2	135,619
3/4	3,550	3/4	18,325	3/4	32,493	3/4	47,191	3/4	61,980	3/4	76,770	3/4	91,559	3/4	106,348	3/4	121,137	3/4	135,927
3	3,856	3	18,633	3	32,787	3	47,499	3	62,288	3	77,078	3	91,867	3	106,656	3	121,446	3	136,235
1/4	4,162	1/4	18,941	1/4	33,081	1/4	47,807	1/4	62,596	1/4	77,386	1/4	92,175	1/4	106,964	1/4	121,754	1/4	136,543
1/2	4,469	1/2	19,250	1/2	33,375	1/2	48,115	1/2	62,905	1/2	77,694	1/2	92,483	1/2	107,272	1/2	122,062	1/2	136,851
3/4	4,775	3/4	19,558	3/4	33,669	3/4	48,423	3/4	63,213	3/4	78,002	3/4	92,791	3/4	107,581	3/4	122,370	3/4	137,159
4	5,082	4	19,866	4	33,963	4	48,731	4	63,521	4	78,310	4	93,099	4	107,889	4	122,678	4	137,467
1/4	5,389	1/4	20,164	1/4	34,266	1/4	49,040	1/4	63,829	1/4	78,618	1/4	93,407	1/4	108,197	1/4	122,986	1/4	137,775
1/2	5,696	1/2	20,463	1/2	34,569	1/2	49,348	1/2	64,137	1/2	78,926	1/2	93,716	1/2	108,505	1/2	123,294	1/2	138,084
3/4	6,004	3/4	20,762	3/4	34,872	3/4	49,656	3/4	64,445	3/4	79,234	3/4	94,024	3/4	108,813	3/4	123,602	3/4	138,392
5	6,311	5	21,060	5	35,175	5	49,964	5	64,753	5	79,543	5	94,332	5	109,121	5	123,910	5	138,700
1/4	6,619	1/4	21,353	1/4	35,483	1/4	50,272	1/4	65,061	1/4	79,851	1/4	94,640	1/4	109,429	1/4	124,219	1/4	139,008
1/2	6,927	1/2	21,646	1/2	35,791	1/2	50,580	1/2	65,369	1/2	80,159	1/2	94,948	1/2	109,737	1/2	124,527	1/2	139,316
3/4	7,234	3/4	21,940	3/4	36,099	3/4	50,888	3/4	65,678	3/4	80,467	3/4	95,256	3/4	110,045	3/4	124,835	3/4	139,624
6	7,542	6	22,233	6	36,407	6	51,196	6	65,986	6	80,775	6	95,564	6	110,354	6	125,143	6	139,932
1/4	7,850	1/4	22,526	1/4	36,715	1/4	51,504	1/4	66,294	1/4	81,083	1/4	95,872	1/4	110,662	1/4	125,451	1/4	140,240
1/2	8,158	1/2	22,819	1/2	37,023	1/2	51,813	1/2	66,602	1/2	81,391	1/2	96,180	1/2	110,970	1/2	125,759	1/2	140,548
3/4	8,466	3/4	23,112	3/4	37,331	3/4	52,121	3/4	66,910	3/4	81,699	3/4	96,489	3/4	111,278	3/4	126,067	3/4	140,857
7	8,774	7	23,405	7	37,639	7	52,429	7	67,218	7	82,007	7	96,797	7	111,586	7	126,375	7	141,165
1/4	9,082	1/4	23,698	1/4	37,948	1/4	52,737	1/4	67,526	1/4	82,316	1/4	97,105	1/4	111,894	1/4	126,683	1/4	141,473
1/2	9,390	1/2	23,991	1/2	38,256	1/2	53,045	1/2	67,834	1/2	82,624	1/2	97,413	1/2	112,202	1/2	126,992	1/2	141,781
3/4	9,698	3/4	24,284	3/4	38,564	3/4	53,353	3/4	68,142	3/4	82,932	3/4	97,721	3/4	112,510	3/4	127,300	3/4	142,089
8	10,006	8	24,577	8	38,872	8	53,661	8	68,451	8	83,240	8	98,029	8	112,818	8	127,608	8	142,397
1/4	10,315	1/4	24,870	1/4	39,180	1/4	53,969	1/4	68,759	1/4	83,548	1/4	98,337	1/4	113,127	1/4	127,916	1/4	142,705
1/2	10,623	1/2	25,163	1/2	39,488	1/2	54,277	1/2	69,067	1/2	83,856	1/2	98,645	1/2	113,435	1/2	128,224	1/2	143,013
3/4	10,931	3/4	25,456	3/4	39,796	3/4	54,586	3/4	69,375	3/4	84,164	3/4	98,953	3/4	113,743	3/4	128,532	3/4	143,321
9	11,239	9	25,749	9	40,104	9	54,894	9	69,683	9	84,472	9	99,262	9	114,051	9	128,840	9	143,630
1/4	11,547	1/4	26,042	1/4	40,412	1/4	55,202	1/4	69,991	1/4	84,780	1/4	99,570	1/4	114,359	1/4	129,148	1/4	143,938
1/2	11,855	1/2	26,335	1/2	40,721	1/2	55,510	1/2	70,299	1/2	85,089	1/2	99,878	1/2	114,667	1/2	129,456	1/2	144,246
3/4	12,163	3/4	26,628	3/4	41,029	3/4	55,818	3/4	70,607	3/4	85,397	3/4	100,186	3/4	114,975	3/4	129,765	3/4	144,554
10	12,471	10	26,921	10	41,337	10	56,126	10	70,915	10	85,705	10	100,494	10	115,283	10	130,073	10	144,862
1/4	12,779	1/4	27,214	1/4	41,645	1/4	56,434	1/4	71,224	1/4	86,013	1/4	100,802	1/4	115,591	1/4	130,381	1/4	145,170
1/2	13,088	1/2	27,507	1/2	41,953	1/2	56,742	1/2	71,532	1/2	86,321	1/2	101,110	1/2	115,900	1/2	130,689	1/2	145,478
3/4	13,396	3/4	27,800	3/4	42,261	3/4	57,050	3/4	71,840	3/4	86,629	3/4	101,418	3/4	116,208	3/4	130,997	3/4	145,786
11	13,704	11	28,093	11	42,569	11	57,359	11	72,148	11	86,937	11	101,726	11	116,516	11	131,305	11	146,094
1/4	14,012	1/4	28,386	1/4	42,877	1/4	57,667	1/4	72,456	1/4	87,245	1/4	102,035	1/4	116,824	1/4	131,613	1/4	146,403
1/2	14,320	1/2	28,679	1/2	43,185	1/2	57,975	1/2	72,764	1/2	87,553	1/2	102,343	1/2	117,132	1/2	131,921	1/2	146,711
3/4	14,628	3/4	28,972	3/4	43,494	3/4	58,283	3/4	73,072	3/4	87,862	3/4	102,651	3/4	117,440	3/4	132,229	3/4	147,019

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" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

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



BARGE "HFL 410"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	147,327	1/4	162,116	1/4	176,905	1/4	191,695	1/4	206,475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	147,635	1/2	162,424	1/2	177,214	1/2	192,003	1/2	206,781	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	147,943	3/4	162,732	3/4	177,522	3/4	192,311	3/4	207,087	3/4		3/4		3/4		3/4		3/4		3/4	
1	148,251	1	163,040	1	178,830	1	192,619	1	207,392	1		1		1		1		1		1	
1/4	148,559	1/4	163,349	1/4	178,138	1/4	192,927	1/4	207,698	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	148,867	1/2	163,657	1/2	178,446	1/2	193,235	1/2	207,999	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	149,176	3/4	163,965	3/4	178,754	3/4	193,543	3/4	208,300	3/4		3/4		3/4		3/4		3/4		3/4	
2	149,484	2	164,273	2	179,062	2	193,852	2	208,600	2		2		2		2		2		2	
1/4	149,792	1/4	164,581	1/4	179,370	1/4	194,160	1/4	208,901	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	150,100	1/2	164,889	1/2	179,678	1/2	194,468	1/2	209,167	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	150,408	3/4	165,197	3/4	179,987	3/4	194,776	3/4	209,433	3/4		3/4		3/4		3/4		3/4		3/4	
3	150,716	3	165,505	3	180,295	3	195,084	3	209,698	3		3		3		3		3		3	
1/4	151,024	1/4	165,813	1/4	180,603	1/4	195,392	1/4	209,964	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,332	1/2	166,122	1/2	180,911	1/2	195,700	1/2	210,172	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,640	3/4	166,430	3/4	181,219	3/4	196,008	3/4	210,380	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,949	4	166,738	4	181,527	4	196,316	4	210,588	4		4		4		4		4		4	
1/4	152,257	1/4	167,046	1/4	181,835	1/4	196,625	1/4	210,796	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,565	1/2	167,354	1/2	182,143	1/2	196,933	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,873	3/4	167,662	3/4	182,451	3/4	197,241	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	153,181	5	167,970	5	182,760	5	197,549	5		5		5		5		5		5		5	
1/4	153,489	1/4	168,278	1/4	183,068	1/4	197,857	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,797	1/2	168,586	1/2	183,376	1/2	198,165	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,105	3/4	168,895	3/4	183,684	3/4	198,473	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	154,413	6	169,203	6	183,992	6	198,781	6		6		6		6		6		6		6	
1/4	154,722	1/4	169,511	1/4	184,300	1/4	199,089	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,030	1/2	169,819	1/2	184,608	1/2	199,398	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,338	3/4	170,127	3/4	184,916	3/4	199,706	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	155,646	7	170,435	7	185,224	7	200,014	7		7		7		7		7		7		7	
1/4	155,954	1/4	170,743	1/4	185,533	1/4	200,322	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,262	1/2	171,051	1/2	185,841	1/2	200,630	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,570	3/4	171,359	3/4	186,149	3/4	200,938	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	156,878	8	171,668	8	186,457	8	201,246	8		8		8		8		8		8		8	
1/4	157,186	1/4	171,976	1/4	186,765	1/4	201,554	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,495	1/2	172,284	1/2	187,073	1/2	201,862	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,803	3/4	172,592	3/4	187,381	3/4	202,170	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	158,111	9	172,900	9	187,689	9	202,479	9		9		9		9		9		9		9	
1/4	158,419	1/4	173,208	1/4	187,997	1/4	202,787	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,727	1/2	173,516	1/2	188,306	1/2	203,094	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,035	3/4	173,824	3/4	188,614	3/4	203,402	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	159,343	10	174,132	10	188,922	10	203,710	10		10		10		10		10		10		10	
1/4	159,651	1/4	174,441	1/4	189,230	1/4	204,018	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,959	1/2	174,749	1/2	189,538	1/2	204,325	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,267	3/4	175,057	3/4	189,846	3/4	204,633	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	160,576	11	175,365	11	190,154	11	204,940	11		11		11		11		11		11		11	
1/4	160,884	1/4	175,673	1/4	190,462	1/4	205,248	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,192	1/2	175,981	1/2	190,770	1/2	205,555	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,500	3/4	176,289	3/4	191,079	3/4	205,862	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
	161,808		176,597		191,387		206,168														

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 410"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	617	0	14,943	0	29,714	0	44,505	0	59,302	0	74,099	0	88,895	0	103,692	0	118,489	0	133,285
1/4	835	1/4	15,252	1/4	30,022	1/4	44,814	1/4	59,610	1/4	74,407	1/4	89,204	1/4	104,000	1/4	118,797	1/4	133,593
1/2	1,054	1/2	15,560	1/2	30,330	1/2	45,122	1/2	59,919	1/2	74,715	1/2	89,512	1/2	104,308	1/2	119,105	1/2	133,902
3/4	1,272	3/4	15,868	3/4	30,637	3/4	45,430	3/4	60,227	3/4	75,024	3/4	89,820	3/4	104,617	3/4	119,413	3/4	134,210
1	1,490	1	16,176	1	30,945	1	45,739	1	60,535	1	75,332	1	90,128	1	104,925	1	119,722	1	134,518
1/4	1,776	1/4	16,485	1/4	31,253	1/4	46,047	1/4	60,843	1/4	75,640	1/4	90,437	1/4	105,233	1/4	120,030	1/4	134,826
1/2	2,063	1/2	16,793	1/2	31,560	1/2	46,355	1/2	61,152	1/2	75,948	1/2	90,745	1/2	105,542	1/2	120,338	1/2	135,135
3/4	2,349	3/4	17,101	3/4	31,868	3/4	46,663	3/4	61,460	3/4	76,257	3/4	91,053	3/4	105,850	3/4	120,646	3/4	135,443
2	2,636	2	17,410	2	32,176	2	46,972	2	61,768	2	76,565	2	91,361	2	106,158	2	120,955	2	135,751
1/4	2,941	1/4	17,718	1/4	32,484	1/4	47,280	1/4	62,076	1/4	76,873	1/4	91,670	1/4	106,466	1/4	121,263	1/4	136,060
1/2	3,247	1/2	18,026	1/2	32,792	1/2	47,588	1/2	62,385	1/2	77,181	1/2	91,978	1/2	106,775	1/2	121,571	1/2	136,368
3/4	3,552	3/4	18,334	3/4	33,100	3/4	47,896	3/4	62,693	3/4	77,490	3/4	92,286	3/4	107,083	3/4	121,879	3/4	136,676
3	3,858	3	18,643	3	33,408	3	48,205	3	63,001	3	77,798	3	92,594	3	107,391	3	122,188	3	136,984
1/4	4,164	1/4	18,951	1/4	33,716	1/4	48,513	1/4	63,310	1/4	78,106	1/4	92,903	1/4	107,699	1/4	122,496	1/4	137,293
1/2	4,471	1/2	19,259	1/2	34,025	1/2	48,821	1/2	63,618	1/2	78,414	1/2	93,211	1/2	108,008	1/2	122,804	1/2	137,601
3/4	4,778	3/4	19,567	3/4	34,333	3/4	49,129	3/4	63,926	3/4	78,723	3/4	93,519	3/4	108,316	3/4	123,113	3/4	137,909
4	5,084	4	19,876	4	34,641	4	49,438	4	64,234	4	79,031	4	93,828	4	108,624	4	123,421	4	138,217
1/4	5,392	1/4	20,183	1/4	34,949	1/4	49,746	1/4	64,543	1/4	79,339	1/4	94,136	1/4	108,932	1/4	123,729	1/4	138,526
1/2	5,699	1/2	20,491	1/2	35,258	1/2	50,054	1/2	64,851	1/2	79,647	1/2	94,444	1/2	109,241	1/2	124,037	1/2	138,834
3/4	6,007	3/4	20,799	3/4	35,566	3/4	50,362	3/4	65,159	3/4	79,956	3/4	94,752	3/4	109,549	3/4	124,346	3/4	139,142
5	6,314	5	21,106	5	35,874	5	50,671	5	65,467	5	80,264	5	95,061	5	109,857	5	124,654	5	139,450
1/4	6,622	1/4	21,414	1/4	36,182	1/4	50,979	1/4	65,776	1/4	80,572	1/4	95,369	1/4	110,165	1/4	124,962	1/4	139,759
1/2	6,930	1/2	21,721	1/2	36,491	1/2	51,287	1/2	66,084	1/2	80,881	1/2	95,677	1/2	110,474	1/2	125,270	1/2	140,067
3/4	7,238	3/4	22,029	3/4	36,799	3/4	51,596	3/4	66,392	3/4	81,189	3/4	95,985	3/4	110,782	3/4	125,579	3/4	140,375
6	7,546	6	22,336	6	37,107	6	51,904	6	66,700	6	81,497	6	96,294	6	111,090	6	125,887	6	140,683
1/4	7,854	1/4	22,644	1/4	37,415	1/4	52,212	1/4	67,009	1/4	81,805	1/4	96,602	1/4	111,399	1/4	126,195	1/4	140,992
1/2	8,162	1/2	22,951	1/2	37,724	1/2	52,520	1/2	67,317	1/2	82,114	1/2	96,910	1/2	111,707	1/2	126,503	1/2	141,300
3/4	8,470	3/4	23,258	3/4	38,032	3/4	52,829	3/4	67,625	3/4	82,422	3/4	97,218	3/4	112,015	3/4	126,812	3/4	141,608
7	8,778	7	23,566	7	38,340	7	53,137	7	67,933	7	82,730	7	97,527	7	112,323	7	127,120	7	141,917
1/4	9,087	1/4	23,873	1/4	38,649	1/4	53,445	1/4	68,242	1/4	83,038	1/4	97,835	1/4	112,632	1/4	127,428	1/4	142,225
1/2	9,395	1/2	24,181	1/2	38,957	1/2	53,753	1/2	68,550	1/2	83,347	1/2	98,143	1/2	112,940	1/2	127,736	1/2	142,533
3/4	9,703	3/4	24,488	3/4	39,265	3/4	54,062	3/4	68,858	3/4	83,655	3/4	98,451	3/4	113,248	3/4	128,045	3/4	142,841
8	10,011	8	24,796	8	39,573	8	54,370	8	69,167	8	83,963	8	98,760	8	113,556	8	128,353	8	143,150
1/4	10,320	1/4	25,103	1/4	39,882	1/4	54,678	1/4	69,475	1/4	84,271	1/4	99,068	1/4	113,865	1/4	128,661	1/4	143,458
1/2	10,628	1/2	25,410	1/2	40,190	1/2	54,986	1/2	69,783	1/2	84,580	1/2	99,376	1/2	114,173	1/2	128,970	1/2	143,766
3/4	10,936	3/4	25,718	3/4	40,498	3/4	55,295	3/4	70,091	3/4	84,888	3/4	99,685	3/4	114,481	3/4	129,278	3/4	144,074
9	11,244	9	26,025	9	40,806	9	55,603	9	70,400	9	85,196	9	99,993	9	114,789	9	129,586	9	144,383
1/4	11,553	1/4	26,333	1/4	41,115	1/4	55,911	1/4	70,708	1/4	85,504	1/4	100,301	1/4	115,098	1/4	129,894	1/4	144,691
1/2	11,861	1/2	26,640	1/2	41,423	1/2	56,219	1/2	71,016	1/2	85,813	1/2	100,609	1/2	115,406	1/2	130,203	1/2	144,999
3/4	12,169	3/4	26,948	3/4	41,731	3/4	56,528	3/4	71,324	3/4	86,121	3/4	100,918	3/4	115,714	3/4	130,511	3/4	145,307
10	12,477	10	27,255	10	42,039	10	56,836	10	71,633	10	86,429	10	101,226	10	116,022	10	130,819	10	145,616
1/4	12,786	1/4	27,562	1/4	42,348	1/4	57,144	1/4	71,941	1/4	86,737	1/4	101,534	1/4	116,331	1/4	131,127	1/4	145,924
1/2	13,094	1/2	27,870	1/2	42,656	1/2	57,453	1/2	72,249	1/2	87,046	1/2	101,842	1/2	116,639	1/2	131,436	1/2	146,232
3/4	13,402	3/4	28,177	3/4	42,964	3/4	57,761	3/4	72,557	3/4	87,354	3/4	102,151	3/4	116,947	3/4	131,744	3/4	146,540
11	13,710	11	28,485	11	43,272	11	58,069	11	72,866	11	87,662	11	102,459	11	117,256	11	132,052	11	146,849
1/4	14,019	1/4	28,792	1/4	43,581	1/4	58,377	1/4	73,174	1/4	87,971	1/4	102,767	1/4	117,564	1/4	132,360	1/4	147,157
1/2	14,327	1/2	29,100	1/2	43,889	1/2	58,686	1/2	73,482	1/2	88,279	1/2	103,075	1/2	117,872	1/2	132,669	1/2	147,465
3/4	14,635	3/4	29,407	3/4	44,197	3/4	58,994	3/4	73,790	3/4	88,587	3/4	103,384	3/4	118,180	3/4	132,977	3/4	147,774

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" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 410"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	148,082		162,878		177,675		192,472		207,259										
1/4	148,390	1/4	163,187	1/4	177,983	1/4	192,780	1/4	207,565	1/4		1/4		1/4		1/4		1/4	
1/2	148,698	1/2	163,495	1/2	178,292	1/2	193,088	1/2	207,871	1/2		1/2		1/2		1/2		1/2	
3/4	149,007	3/4	163,803	3/4	178,600	3/4	193,396	3/4	208,177	3/4		3/4		3/4		3/4		3/4	
1	149,315	1	164,111	1	178,908	1	193,705	1	208,483	1		1		1		1		1	
1/4	149,623	1/4	164,420	1/4	179,216	1/4	194,013	1/4	208,784	1/4		1/4		1/4		1/4		1/4	
1/2	149,931	1/2	164,728	1/2	179,525	1/2	194,321	1/2	209,085	1/2		1/2		1/2		1/2		1/2	
3/4	150,240	3/4	165,036	3/4	179,833	3/4	194,629	3/4	209,385	3/4		3/4		3/4		3/4		3/4	
2	150,548	2	165,345	2	180,141	2	194,938	2	209,686	2		2		2		2		2	
1/4	150,856	1/4	165,653	1/4	180,449	1/4	195,246	1/4	209,952	1/4		1/4		1/4		1/4		1/4	
1/2	151,164	1/2	165,961	1/2	180,758	1/2	195,554	1/2	210,218	1/2		1/2		1/2		1/2		1/2	
3/4	151,473	3/4	166,269	3/4	181,066	3/4	195,863	3/4	210,484	3/4		3/4		3/4		3/4		3/4	
3	151,781	3	166,578	3	181,374	3	196,171	3	210,750	3		3		3		3		3	
1/4	152,089	1/4	166,886	1/4	181,682	1/4	196,479	1/4	210,958	1/4		1/4		1/4		1/4		1/4	
1/2	152,397	1/2	167,194	1/2	181,991	1/2	196,787	1/2	211,166	1/2		1/2		1/2		1/2		1/2	
3/4	152,706	3/4	167,502	3/4	182,299	3/4	197,096	3/4	211,374	3/4		3/4		3/4		3/4		3/4	
4	153,014	4	167,811	4	182,607	4	197,404	4	211,582	4		4		4		4		4	
1/4	153,322	1/4	168,119	1/4	182,915	1/4	197,712	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,631	1/2	168,427	1/2	183,224	1/2	198,020	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,939	3/4	168,735	3/4	183,532	3/4	198,329	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,247	5	169,044	5	183,840	5	198,637	5		5		5		5		5		5	
1/4	154,555	1/4	169,352	1/4	184,149	1/4	198,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,864	1/2	169,660	1/2	184,457	1/2	199,253	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,172	3/4	169,968	3/4	184,765	3/4	199,562	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,480	6	170,277	6	185,073	6	199,870	6		6		6		6		6		6	
1/4	155,788	1/4	170,585	1/4	185,382	1/4	200,178	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,097	1/2	170,893	1/2	185,690	1/2	200,486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,405	3/4	171,202	3/4	185,998	3/4	200,795	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,713	7	171,510	7	186,306	7	201,103	7		7		7		7		7		7	
1/4	157,021	1/4	171,818	1/4	186,615	1/4	201,411	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,330	1/2	172,126	1/2	186,923	1/2	201,720	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,638	3/4	172,435	3/4	187,231	3/4	202,028	3/4		3/4		3/4		3/4		3/4		3/4	
8	157,946	8	172,743	8	187,539	8	202,336	8		8		8		8		8		8	
1/4	158,254	1/4	173,051	1/4	187,848	1/4	202,644	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,563	1/2	173,359	1/2	188,156	1/2	202,952	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,871	3/4	173,668	3/4	188,464	3/4	203,261	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,179	9	173,976	9	188,772	9	203,569	9		9		9		9		9		9	
1/4	159,488	1/4	174,284	1/4	189,081	1/4	203,877	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,796	1/2	174,592	1/2	189,389	1/2	204,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,104	3/4	174,901	3/4	189,697	3/4	204,493	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,412	10	175,209	10	190,006	10	204,801	10		10		10		10		10		10	
1/4	160,721	1/4	175,517	1/4	190,314	1/4	205,109	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,029	1/2	175,825	1/2	190,622	1/2	205,416	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,337	3/4	176,134	3/4	190,930	3/4	205,724	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,645	11	176,442	11	191,239	11	206,031	11		11		11		11		11		11	
1/4	161,954	1/4	176,750	1/4	191,547	1/4	206,338	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,262	1/2	177,058	1/2	191,855	1/2	206,645	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,570	3/4	177,367	3/4	192,163	3/4	206,952	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 410"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	705	0	17,137	0	33,789	0	50,563	0	67,476	0	84,257	0	101,158	0	118,065	0	135,027	0	151,988
1/4	956	1/4	17,491	1/4	34,133	1/4	50,916	1/4	67,825	1/4	84,610	1/4	101,509	1/4	118,418	1/4	135,380	1/4	152,342
1/2	1,207	1/2	17,845	1/2	34,476	1/2	51,269	1/2	68,174	1/2	84,963	1/2	101,860	1/2	118,772	1/2	135,733	1/2	152,695
3/4	1,458	3/4	18,198	3/4	34,819	3/4	51,622	3/4	68,523	3/4	85,316	3/4	102,211	3/4	119,125	3/4	136,087	3/4	153,049
1	1,709	1	18,552	1	35,162	1	51,975	1	68,873	1	85,669	1	102,562	1	119,478	1	136,440	1	153,402
1/4	2,038	1/4	18,906	1/4	35,505	1/4	52,328	1/4	69,222	1/4	86,022	1/4	102,913	1/4	119,832	1/4	136,794	1/4	153,755
1/2	2,367	1/2	19,260	1/2	35,848	1/2	52,681	1/2	69,571	1/2	86,375	1/2	103,264	1/2	120,185	1/2	137,147	1/2	154,109
3/4	2,696	3/4	19,614	3/4	36,192	3/4	53,033	3/4	69,920	3/4	86,728	3/4	103,615	3/4	120,538	3/4	137,500	3/4	154,462
2	3,026	2	19,968	2	36,535	2	53,386	2	70,269	2	87,081	2	103,966	2	120,892	2	137,854	2	154,815
1/4	3,377	1/4	20,322	1/4	36,879	1/4	53,739	1/4	70,618	1/4	87,434	1/4	104,317	1/4	121,245	1/4	138,207	1/4	155,169
1/2	3,728	1/2	20,675	1/2	37,222	1/2	54,092	1/2	70,967	1/2	87,787	1/2	104,668	1/2	121,599	1/2	138,560	1/2	155,523
3/4	4,079	3/4	21,029	3/4	37,566	3/4	54,445	3/4	71,316	3/4	88,140	3/4	105,019	3/4	121,952	3/4	138,914	3/4	155,877
3	4,430	3	21,383	3	37,910	3	54,798	3	71,665	3	88,493	3	105,370	3	122,305	3	139,267	3	156,231
1/4	4,782	1/4	21,737	1/4	38,254	1/4	55,151	1/4	72,014	1/4	88,846	1/4	105,721	1/4	122,659	1/4	139,620	1/4	156,586
1/2	5,135	1/2	22,091	1/2	38,598	1/2	55,503	1/2	72,363	1/2	89,200	1/2	106,072	1/2	123,012	1/2	139,974	1/2	156,940
3/4	5,487	3/4	22,445	3/4	38,942	3/4	55,856	3/4	72,712	3/4	89,553	3/4	106,422	3/4	123,365	3/4	140,327	3/4	157,295
4	5,840	4	22,799	4	39,285	4	56,209	4	73,061	4	89,906	4	106,773	4	123,719	4	140,681	4	157,649
1/4	6,193	1/4	23,146	1/4	39,635	1/4	56,562	1/4	73,410	1/4	90,259	1/4	107,124	1/4	124,072	1/4	141,034	1/4	158,003
1/2	6,546	1/2	23,493	1/2	39,984	1/2	56,915	1/2	73,759	1/2	90,612	1/2	107,475	1/2	124,426	1/2	141,387	1/2	158,358
3/4	6,899	3/4	23,840	3/4	40,334	3/4	57,268	3/4	74,108	3/4	90,965	3/4	107,826	3/4	124,779	3/4	141,741	3/4	158,712
5	7,253	5	24,187	5	40,683	5	57,621	5	74,457	5	91,318	5	108,177	5	125,132	5	142,094	5	159,066
1/4	7,606	1/4	24,530	1/4	41,036	1/4	57,973	1/4	74,806	1/4	91,671	1/4	108,528	1/4	125,486	1/4	142,447	1/4	159,421
1/2	7,960	1/2	24,873	1/2	41,389	1/2	58,326	1/2	75,156	1/2	92,024	1/2	108,879	1/2	125,839	1/2	142,801	1/2	159,775
3/4	8,313	3/4	25,216	3/4	41,742	3/4	58,679	3/4	75,505	3/4	92,377	3/4	109,230	3/4	126,192	3/4	143,154	3/4	160,130
6	8,666	6	25,559	6	42,095	6	59,032	6	75,854	6	92,730	6	109,581	6	126,546	6	143,508	6	160,484
1/4	9,019	1/4	25,902	1/4	42,448	1/4	59,385	1/4	76,203	1/4	93,082	1/4	109,934	1/4	126,899	1/4	143,861	1/4	160,838
1/2	9,371	1/2	26,245	1/2	42,801	1/2	59,738	1/2	76,552	1/2	93,434	1/2	110,287	1/2	127,253	1/2	144,214	1/2	161,193
3/4	9,723	3/4	26,587	3/4	43,153	3/4	60,090	3/4	76,901	3/4	93,786	3/4	110,640	3/4	127,606	3/4	144,568	3/4	161,547
7	10,075	7	26,930	7	43,506	7	60,443	7	77,250	7	94,138	7	110,992	7	127,959	7	144,921	7	161,901
1/4	10,426	1/4	27,273	1/4	43,859	1/4	60,796	1/4	77,599	1/4	94,489	1/4	111,346	1/4	128,313	1/4	145,274	1/4	162,256
1/2	10,777	1/2	27,616	1/2	44,212	1/2	61,149	1/2	77,948	1/2	94,840	1/2	111,700	1/2	128,666	1/2	145,628	1/2	162,610
3/4	11,128	3/4	27,959	3/4	44,565	3/4	61,502	3/4	78,297	3/4	95,191	3/4	112,054	3/4	129,019	3/4	145,981	3/4	162,964
8	11,479	8	28,302	8	44,918	8	61,855	8	78,646	8	95,542	8	112,407	8	129,373	8	146,335	8	163,319
1/4	11,832	1/4	28,645	1/4	45,271	1/4	62,208	1/4	78,995	1/4	95,893	1/4	112,761	1/4	129,726	1/4	146,688	1/4	163,673
1/2	12,185	1/2	28,988	1/2	45,623	1/2	62,560	1/2	79,344	1/2	96,245	1/2	113,115	1/2	130,079	1/2	147,041	1/2	164,028
3/4	12,538	3/4	29,331	3/4	45,976	3/4	62,913	3/4	79,693	3/4	96,596	3/4	113,469	3/4	130,433	3/4	147,395	3/4	164,382
9	12,890	9	29,674	9	46,329	9	63,266	9	80,042	9	96,947	9	113,822	9	130,786	9	147,748	9	164,736
1/4	13,244	1/4	30,017	1/4	46,682	1/4	63,619	1/4	80,391	1/4	97,298	1/4	114,176	1/4	131,140	1/4	148,101	1/4	165,091
1/2	13,598	1/2	30,360	1/2	47,035	1/2	63,972	1/2	80,740	1/2	97,649	1/2	114,530	1/2	131,493	1/2	148,455	1/2	165,445
3/4	13,952	3/4	30,703	3/4	47,388	3/4	64,325	3/4	81,089	3/4	98,000	3/4	114,884	3/4	131,846	3/4	148,808	3/4	165,799
10	14,306	10	31,046	10	47,741	10	64,678	10	81,438	10	98,351	10	115,237	10	132,200	10	149,161	10	166,154
1/4	14,660	1/4	31,389	1/4	48,093	1/4	65,028	1/4	81,790	1/4	98,702	1/4	115,591	1/4	132,553	1/4	149,515	1/4	166,434
1/2	15,014	1/2	31,732	1/2	48,446	1/2	65,379	1/2	82,142	1/2	99,053	1/2	115,944	1/2	132,906	1/2	149,868	1/2	166,714
3/4	15,367	3/4	32,075	3/4	48,799	3/4	65,729	3/4	82,493	3/4	99,404	3/4	116,298	3/4	133,260	3/4	150,222	3/4	166,994
11	15,721	11	32,418	11	49,152	11	66,080	11	82,845	11	99,755	11	116,651	11	133,613	11	150,575	11	167,275
1/4	16,075	1/4	32,761	1/4	49,505	1/4	66,429	1/4	83,198	1/4	100,106	1/4	117,005	1/4	133,967	1/4	150,928	1/4	167,510
1/2	16,429	1/2	33,103	1/2	49,858	1/2	66,778	1/2	83,551	1/2	100,457	1/2	117,358	1/2	134,320	1/2	151,282	1/2	167,746
3/4	16,783	3/4	33,446	3/4	50,211	3/4	67,127	3/4	83,904	3/4	100,808	3/4	117,712	3/4	134,673	3/4	151,635	3/4	167,982

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" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

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



BARGE "HFL 410"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	168,453	1/4	179,765	1/4	191,076	1/4	202,388	1/4	213,687	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	168,689	1/2	180,000	1/2	191,312	1/2	202,624	1/2	213,920	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	168,924	3/4	180,236	3/4	191,548	3/4	202,860	3/4	214,153	3/4		3/4		3/4		3/4		3/4		3/4	
1	169,160	1	180,472	1	191,783	1	203,095	1	214,386	1	1	1	1	1	1	1	1	1	1	1	1
1/4	169,396	1/4	180,707	1/4	192,019	1/4	203,331	1/4	214,613	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	169,631	1/2	180,943	1/2	192,255	1/2	203,567	1/2	214,840	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	169,867	3/4	181,179	3/4	192,490	3/4	203,802	3/4	215,067	3/4		3/4		3/4		3/4		3/4		3/4	
2	170,102	2	181,414	2	192,726	2	204,038	2	215,295	2	2	2	2	2	2	2	2	2	2	2	2
1/4	170,338	1/4	181,650	1/4	192,962	1/4	204,274	1/4	215,481	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	170,574	1/2	181,886	1/2	193,197	1/2	204,509	1/2	215,668	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	170,809	3/4	182,121	3/4	193,433	3/4	204,745	3/4	215,855	3/4		3/4		3/4		3/4		3/4		3/4	
3	171,045	3	182,357	3	193,669	3	204,981	3	216,042	3	3	3	3	3	3	3	3	3	3	3	3
1/4	171,281	1/4	182,593	1/4	193,904	1/4	205,216	1/4	216,163	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	171,516	1/2	182,828	1/2	194,140	1/2	205,452	1/2	216,283	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171,752	3/4	183,064	3/4	194,376	3/4	205,688	3/4	216,404	3/4		3/4		3/4		3/4		3/4		3/4	
4	171,988	4	183,300	4	194,611	4	205,923	4	216,524	4	4	4	4	4	4	4	4	4	4	4	4
1/4	172,223	1/4	183,535	1/4	194,847	1/4	206,159	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,459	1/2	183,771	1/2	195,083	1/2	206,395	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172,695	3/4	184,007	3/4	195,318	3/4	206,630	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	172,930	5	184,242	5	195,554	5	206,866	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	173,166	1/4	184,478	1/4	195,790	1/4	207,102	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	173,402	1/2	184,714	1/2	196,025	1/2	207,337	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	173,637	3/4	184,949	3/4	196,261	3/4	207,573	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	173,873	6	185,185	6	196,497	6	207,809	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	174,109	1/4	185,421	1/4	196,732	1/4	208,044	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	174,344	1/2	185,656	1/2	196,968	1/2	208,280	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	174,580	3/4	185,892	3/4	197,204	3/4	208,516	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	174,816	7	186,128	7	197,439	7	208,751	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	175,051	1/4	186,363	1/4	197,675	1/4	208,987	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	175,287	1/2	186,599	1/2	197,911	1/2	209,222	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	175,523	3/4	186,835	3/4	198,146	3/4	209,458	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	175,758	8	187,070	8	198,382	8	209,694	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	175,994	1/4	187,306	1/4	198,618	1/4	209,929	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	176,230	1/2	187,542	1/2	198,853	1/2	210,165	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	176,465	3/4	187,777	3/4	199,089	3/4	210,401	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	176,701	9	188,013	9	199,325	9	210,636	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	176,937	1/4	188,249	1/4	199,560	1/4	210,872	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	177,172	1/2	188,484	1/2	199,796	1/2	211,107	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	177,408	3/4	188,720	3/4	200,032	3/4	211,342	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	177,644	10	188,956	10	200,267	10	211,578	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	177,879	1/4	189,191	1/4	200,503	1/4	211,813	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	178,115	1/2	189,427	1/2	200,739	1/2	212,048	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	178,351	3/4	189,662	3/4	200,974	3/4	212,283	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	178,586	11	189,898	11	201,210	11	212,517	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	178,822	1/4	190,134	1/4	201,446	1/4	212,752	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	179,058	1/2	190,369	1/2	201,681	1/2	212,986	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	179,293	3/4	190,605	3/4	201,917	3/4	213,220	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 410"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 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	705	0	17,166	0	34,138	0	51,133	0	68,134	0	85,135	0	102,136	0	119,137	0	136,138	0	153,139
1/4	956	1/4	17,520	1/4	34,492	1/4	51,487	1/4	68,488	1/4	85,489	1/4	102,490	1/4	119,491	1/4	136,492	1/4	153,493
1/2	1,207	1/2	17,874	1/2	34,845	1/2	51,841	1/2	68,842	1/2	85,843	1/2	102,844	1/2	119,845	1/2	136,846	1/2	153,847
3/4	1,457	3/4	18,228	3/4	35,199	3/4	52,196	3/4	69,197	3/4	86,197	3/4	103,198	3/4	120,199	3/4	137,200	3/4	154,201
1	1,708	1	18,583	1	35,552	1	52,550	1	69,551	1	86,552	1	103,553	1	120,554	1	137,555	1	154,556
1/4	2,037	1/4	18,937	1/4	35,906	1/4	52,904	1/4	69,905	1/4	86,906	1/4	103,907	1/4	120,908	1/4	137,909	1/4	154,910
1/2	2,366	1/2	19,291	1/2	36,259	1/2	53,258	1/2	70,259	1/2	87,260	1/2	104,261	1/2	121,262	1/2	138,263	1/2	155,264
3/4	2,696	3/4	19,645	3/4	36,613	3/4	53,612	3/4	70,613	3/4	87,614	3/4	104,615	3/4	121,616	3/4	138,617	3/4	155,618
2	3,025	2	19,999	2	36,966	2	53,967	2	70,967	2	87,968	2	104,969	2	121,970	2	138,971	2	155,972
1/4	3,376	1/4	20,353	1/4	37,320	1/4	54,321	1/4	71,322	1/4	88,323	1/4	105,324	1/4	122,325	1/4	139,325	1/4	156,326
1/2	3,727	1/2	20,708	1/2	37,674	1/2	54,675	1/2	71,676	1/2	88,677	1/2	105,678	1/2	122,679	1/2	139,680	1/2	156,681
3/4	4,077	3/4	21,062	3/4	38,028	3/4	55,029	3/4	72,030	3/4	89,031	3/4	106,032	3/4	123,033	3/4	140,034	3/4	157,035
3	4,428	3	21,416	3	38,382	3	55,383	3	72,384	3	89,385	3	106,386	3	123,387	3	140,388	3	157,389
1/4	4,781	1/4	21,770	1/4	38,736	1/4	55,737	1/4	72,738	1/4	89,739	1/4	106,740	1/4	123,741	1/4	140,742	1/4	157,743
1/2	5,133	1/2	22,124	1/2	39,091	1/2	56,092	1/2	73,093	1/2	90,094	1/2	107,095	1/2	124,095	1/2	141,096	1/2	158,097
3/4	5,486	3/4	22,479	3/4	39,445	3/4	56,446	3/4	73,447	3/4	90,448	3/4	107,449	3/4	124,450	3/4	141,451	3/4	158,452
4	5,838	4	22,833	4	39,799	4	56,800	4	73,801	4	90,802	4	107,803	4	124,804	4	141,805	4	158,806
1/4	6,191	1/4	23,186	1/4	40,153	1/4	57,154	1/4	74,155	1/4	91,156	1/4	108,157	1/4	125,158	1/4	142,159	1/4	159,160
1/2	6,544	1/2	23,540	1/2	40,507	1/2	57,508	1/2	74,509	1/2	91,510	1/2	108,511	1/2	125,512	1/2	142,513	1/2	159,514
3/4	6,898	3/4	23,894	3/4	40,862	3/4	57,863	3/4	74,864	3/4	91,864	3/4	108,865	3/4	125,866	3/4	142,867	3/4	159,868
5	7,251	5	24,247	5	41,216	5	58,217	5	75,218	5	92,219	5	109,220	5	126,221	5	143,222	5	160,222
1/4	7,605	1/4	24,600	1/4	41,570	1/4	58,571	1/4	75,572	1/4	92,573	1/4	109,574	1/4	126,575	1/4	143,576	1/4	160,577
1/2	7,958	1/2	24,954	1/2	41,924	1/2	58,925	1/2	75,926	1/2	92,927	1/2	109,928	1/2	126,929	1/2	143,930	1/2	160,931
3/4	8,312	3/4	25,307	3/4	42,278	3/4	59,279	3/4	76,280	3/4	93,281	3/4	110,282	3/4	127,283	3/4	144,284	3/4	161,285
6	8,666	6	25,660	6	42,633	6	59,634	6	76,634	6	93,635	6	110,636	6	127,637	6	144,638	6	161,639
1/4	9,020	1/4	26,013	1/4	42,987	1/4	59,988	1/4	76,989	1/4	93,990	1/4	110,991	1/4	127,992	1/4	144,992	1/4	161,993
1/2	9,374	1/2	26,367	1/2	43,341	1/2	60,342	1/2	77,343	1/2	94,344	1/2	111,345	1/2	128,346	1/2	145,347	1/2	162,348
3/4	9,728	3/4	26,720	3/4	43,695	3/4	60,696	3/4	77,697	3/4	94,698	3/4	111,699	3/4	128,700	3/4	145,701	3/4	162,702
7	10,082	7	27,073	7	44,049	7	61,050	7	78,051	7	95,052	7	112,053	7	129,054	7	146,055	7	163,056
1/4	10,437	1/4	27,426	1/4	44,403	1/4	61,404	1/4	78,405	1/4	95,406	1/4	112,407	1/4	129,408	1/4	146,409	1/4	163,410
1/2	10,791	1/2	27,780	1/2	44,758	1/2	61,759	1/2	78,760	1/2	95,761	1/2	112,761	1/2	129,762	1/2	146,763	1/2	163,764
3/4	11,145	3/4	28,133	3/4	45,112	3/4	62,113	3/4	79,114	3/4	96,115	3/4	113,116	3/4	130,117	3/4	147,118	3/4	164,119
8	11,499	8	28,486	8	45,466	8	62,467	8	79,468	8	96,469	8	113,470	8	130,471	8	147,472	8	164,473
1/4	11,853	1/4	28,840	1/4	45,820	1/4	62,821	1/4	79,822	1/4	96,823	1/4	113,824	1/4	130,825	1/4	147,826	1/4	164,827
1/2	12,207	1/2	29,193	1/2	46,174	1/2	63,175	1/2	80,176	1/2	97,177	1/2	114,178	1/2	131,179	1/2	148,180	1/2	165,181
3/4	12,562	3/4	29,546	3/4	46,529	3/4	63,530	3/4	80,531	3/4	97,531	3/4	114,532	3/4	131,533	3/4	148,534	3/4	165,535
9	12,916	9	29,899	9	46,883	9	63,884	9	80,885	9	97,886	9	114,887	9	131,888	9	148,889	9	165,889
1/4	13,270	1/4	30,253	1/4	47,237	1/4	64,238	1/4	81,239	1/4	98,240	1/4	115,241	1/4	132,242	1/4	149,243	1/4	166,244
1/2	13,624	1/2	30,606	1/2	47,591	1/2	64,592	1/2	81,593	1/2	98,594	1/2	115,595	1/2	132,596	1/2	149,597	1/2	166,598
3/4	13,978	3/4	30,959	3/4	47,945	3/4	64,946	3/4	81,947	3/4	98,948	3/4	115,949	3/4	132,950	3/4	149,951	3/4	166,952
10	14,332	10	31,312	10	48,300	10	65,300	10	82,301	10	99,302	10	116,303	10	133,304	10	150,305	10	167,306
1/4	14,687	1/4	31,666	1/4	48,654	1/4	65,655	1/4	82,656	1/4	99,657	1/4	116,658	1/4	133,659	1/4	150,659	1/4	167,586
1/2	15,041	1/2	32,019	1/2	49,008	1/2	66,009	1/2	83,010	1/2	100,011	1/2	117,012	1/2	134,013	1/2	151,014	1/2	167,866
3/4	15,395	3/4	32,372	3/4	49,362	3/4	66,363	3/4	83,364	3/4	100,365	3/4	117,366	3/4	134,367	3/4	151,368	3/4	168,146
11	15,749	11	32,725	11	49,716	11	66,717	11	83,718	11	100,719	11	117,720	11	134,721	11	151,722	11	168,426
1/4	16,103	1/4	33,079	1/4	50,070	1/4	67,071	1/4	84,072	1/4	101,073	1/4	118,074	1/4	135,075	1/4	152,076	1/4	168,662
1/2	16,458	1/2	33,432	1/2	50,425	1/2	67,426	1/2	84,427	1/2	101,428	1/2	118,428	1/2	135,429	1/2	152,430	1/2	168,897
3/4	16,812	3/4	33,785	3/4	50,779	3/4	67,780	3/4	84,781	3/4	101,782	3/4	118,783	3/4	135,784	3/4	152,785	3/4	169,133

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" DIAMETER "HERMETIC" VALVE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HFL 410"

**3 STBD
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-07 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	169,604	1/4	180,907	1/4	192,209	1/4	203,512	1/4	214,802	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	169,839	1/2	181,142	1/2	192,445	1/2	203,748	1/2	215,035	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	170,075	3/4	181,377	3/4	192,680	3/4	203,983	3/4	215,268	3/4		3/4		3/4		3/4		3/4		3/4	
1	170,310	1	181,613	1	192,916	1	204,219	1	215,501	1	1	1	1	1	1	1	1	1	1	1	1
1/4	170,546	1/4	181,848	1/4	193,151	1/4	204,454	1/4	215,727	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	170,781	1/2	182,084	1/2	193,387	1/2	204,690	1/2	215,954	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171,016	3/4	182,319	3/4	193,622	3/4	204,925	3/4	216,181	3/4		3/4		3/4		3/4		3/4		3/4	
2	171,252	2	182,555	2	193,858	2	205,161	2	216,408	2	2	2	2	2	2	2	2	2	2	2	2
1/4	171,487	1/4	182,790	1/4	194,093	1/4	205,396	1/4	216,595	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	171,723	1/2	183,026	1/2	194,329	1/2	205,632	1/2	216,782	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	171,958	3/4	183,261	3/4	194,564	3/4	205,867	3/4	216,969	3/4		3/4		3/4		3/4		3/4		3/4	
3	172,194	3	183,497	3	194,800	3	206,103	3	217,156	3	3	3	3	3	3	3	3	3	3	3	3
1/4	172,429	1/4	183,732	1/4	195,035	1/4	206,338	1/4	217,276	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	172,665	1/2	183,968	1/2	195,271	1/2	206,574	1/2	217,396	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	172,900	3/4	184,203	3/4	195,506	3/4	206,809	3/4	217,517	3/4		3/4		3/4		3/4		3/4		3/4	
4	173,136	4	184,439	4	195,742	4	207,044	4	217,637	4	4	4	4	4	4	4	4	4	4	4	4
1/4	173,371	1/4	184,674	1/4	195,977	1/4	207,280	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	173,607	1/2	184,910	1/2	196,213	1/2	207,515	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	173,842	3/4	185,145	3/4	196,448	3/4	207,751	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
5	174,078	5	185,381	5	196,683	5	207,986	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	174,313	1/4	185,616	1/4	196,919	1/4	208,222	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	174,549	1/2	185,852	1/2	197,154	1/2	208,457	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	174,784	3/4	186,087	3/4	197,390	3/4	208,693	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
6	175,020	6	186,322	6	197,625	6	208,928	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	175,255	1/4	186,558	1/4	197,861	1/4	209,164	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	175,491	1/2	186,793	1/2	198,096	1/2	209,399	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	175,726	3/4	187,029	3/4	198,332	3/4	209,635	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
7	175,961	7	187,264	7	198,567	7	209,870	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	176,197	1/4	187,500	1/4	198,803	1/4	210,106	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	176,432	1/2	187,735	1/2	199,038	1/2	210,341	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	176,668	3/4	187,971	3/4	199,274	3/4	210,577	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
8	176,903	8	188,206	8	199,509	8	210,812	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	177,139	1/4	188,442	1/4	199,745	1/4	211,048	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	177,374	1/2	188,677	1/2	199,980	1/2	211,283	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	177,610	3/4	188,913	3/4	200,216	3/4	211,518	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
9	177,845	9	189,148	9	200,451	9	211,754	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	178,081	1/4	189,384	1/4	200,687	1/4	211,989	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	178,316	1/2	189,619	1/2	200,922	1/2	212,224	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	178,552	3/4	189,855	3/4	201,158	3/4	212,459	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
10	178,787	10	190,090	10	201,393	10	212,695	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	179,023	1/4	190,326	1/4	201,628	1/4	212,929	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	179,258	1/2	190,561	1/2	201,864	1/2	213,164	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	179,494	3/4	190,797	3/4	202,099	3/4	213,399	3/4		3/4		3/4		3/4		3/4		3/4		3/4	
11	179,729	11	191,032	11	202,335	11	213,633	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	179,965	1/4	191,268	1/4	202,570	1/4	213,867	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	180,200	1/2	191,503	1/2	202,806	1/2	214,101	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	180,436	3/4	191,738	3/4	203,041	3/4	214,335	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019

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



BARGE "HFL 410"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11"

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	1,138	0	2,276	0	3,413	0	4,551	0		0		0		0		0	
1/4	24	1/4	1,161	1/4	2,299	1/4	3,437	1/4	4,575	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	47	1/2	1,185	1/2	2,323	1/2	3,461	1/2	4,599	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	71	3/4	1,209	3/4	2,347	3/4	3,484	3/4	4,622	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	95	1	1,233	1	2,370	1	3,508	1	4,646	1		1		1	1	1	1	1	1
1/4	119	1/4	1,256	1/4	2,394	1/4	3,532	1/4	4,670	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	142	1/2	1,280	1/2	2,418	1/2	3,556	1/2	4,693	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	166	3/4	1,304	3/4	2,441	3/4	3,579	3/4	4,717	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	190	2	1,327	2	2,465	2	3,603	2	4,741	2		2		2	2	2	2	2	2
1/4	213	1/4	1,351	1/4	2,489	1/4	3,627	1/4	4,764	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	237	1/2	1,375	1/2	2,513	1/2	3,650	1/2	4,788	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	261	3/4	1,399	3/4	2,536	3/4	3,674	3/4	4,812	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	284	3	1,422	3	2,560	3	3,698	3	4,836	3		3		3	3	3	3	3	3
1/4	308	1/4	1,446	1/4	2,584	1/4	3,721	1/4	4,859	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	332	1/2	1,470	1/2	2,607	1/2	3,745	1/2	4,883	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	356	3/4	1,493	3/4	2,631	3/4	3,769	3/4	4,907	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	379	4	1,517	4	2,655	4	3,793	4	4,930	4		4		4	4	4	4	4	4
1/4	403	1/4	1,541	1/4	2,679	1/4	3,816	1/4	4,954	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	427	1/2	1,564	1/2	2,702	1/2	3,840	1/2	4,978	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	450	3/4	1,588	3/4	2,726	3/4	3,864	3/4	5,002	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	474	5	1,612	5	2,750	5	3,887	5	5,025	5		5		5	5	5	5	5	5
1/4	498	1/4	1,636	1/4	2,773	1/4	3,911	1/4	5,049	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	521	1/2	1,659	1/2	2,797	1/2	3,935	1/2	5,073	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	545	3/4	1,683	3/4	2,821	3/4	3,959	3/4	5,096	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	569	6	1,707	6	2,844	6	3,982	6	5,120	6		6		6	6	6	6	6	6
1/4	593	1/4	1,730	1/4	2,868	1/4	4,006	1/4	5,144	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	616	1/2	1,754	1/2	2,892	1/2	4,030	1/2	5,167	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	640	3/4	1,778	3/4	2,916	3/4	4,053	3/4	5,191	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	664	7	1,801	7	2,939	7	4,077	7	5,215	7		7		7	7	7	7	7	7
1/4	687	1/4	1,825	1/4	2,963	1/4	4,101	1/4	5,239	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	711	1/2	1,849	1/2	2,987	1/2	4,124	1/2	5,262	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	735	3/4	1,873	3/4	3,010	3/4	4,148	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	759	8	1,896	8	3,034	8	4,172	8		8		8		8	8	8	8	8	8
1/4	782	1/4	1,920	1/4	3,058	1/4	4,196	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	806	1/2	1,944	1/2	3,081	1/2	4,219	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	830	3/4	1,967	3/4	3,105	3/4	4,243	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	853	9	1,991	9	3,129	9	4,267	9		9		9		9	9	9	9	9	9
1/4	877	1/4	2,015	1/4	3,153	1/4	4,290	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	901	1/2	2,039	1/2	3,176	1/2	4,314	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	924	3/4	2,062	3/4	3,200	3/4	4,338	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	948	10	2,086	10	3,224	10	4,361	10		10		10		10	10	10	10	10	10
1/4	972	1/4	2,110	1/4	3,247	1/4	4,385	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	996	1/2	2,133	1/2	3,271	1/2	4,409	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,019	3/4	2,157	3/4	3,295	3/4	4,433	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,043	11	2,181	11	3,319	11	4,456	11		11		11		11	11	11	11	11	11
1/4	1,067	1/4	2,204	1/4	3,342	1/4	4,480	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,090	1/2	2,228	1/2	3,366	1/2	4,504	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,114	3/4	2,252	3/4	3,390	3/4	4,527	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: 01/31/2019 SW
CALCULATED: 02/01/2019 CL
PRINTED: 02/01/2019 CL

PRECISION MEASUREMENT
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Pearland, Texas 77588
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019



BARGE "HFL 410"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11"

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	1,138	0	2,276	0	3,413	0	4,551	0		0		0		0		0	
1/4	24	1/4	1,161	1/4	2,299	1/4	3,437	1/4	4,575	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	47	1/2	1,185	1/2	2,323	1/2	3,461	1/2	4,599	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	71	3/4	1,209	3/4	2,347	3/4	3,484	3/4	4,622	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	95	1	1,233	1	2,370	1	3,508	1	4,646	1		1		1	1	1	1	1	1
1/4	119	1/4	1,256	1/4	2,394	1/4	3,532	1/4	4,670	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	142	1/2	1,280	1/2	2,418	1/2	3,556	1/2	4,693	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	166	3/4	1,304	3/4	2,441	3/4	3,579	3/4	4,717	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	190	2	1,327	2	2,465	2	3,603	2	4,741	2		2		2	2	2	2	2	2
1/4	213	1/4	1,351	1/4	2,489	1/4	3,627	1/4	4,764	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	237	1/2	1,375	1/2	2,513	1/2	3,650	1/2	4,788	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	261	3/4	1,399	3/4	2,536	3/4	3,674	3/4	4,812	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	284	3	1,422	3	2,560	3	3,698	3	4,836	3		3		3	3	3	3	3	3
1/4	308	1/4	1,446	1/4	2,584	1/4	3,721	1/4	4,859	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	332	1/2	1,470	1/2	2,607	1/2	3,745	1/2	4,883	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	356	3/4	1,493	3/4	2,631	3/4	3,769	3/4	4,907	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	379	4	1,517	4	2,655	4	3,793	4	4,930	4		4		4	4	4	4	4	4
1/4	403	1/4	1,541	1/4	2,679	1/4	3,816	1/4	4,954	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	427	1/2	1,564	1/2	2,702	1/2	3,840	1/2	4,978	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	450	3/4	1,588	3/4	2,726	3/4	3,864	3/4	5,002	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	474	5	1,612	5	2,750	5	3,887	5	5,025	5		5		5	5	5	5	5	5
1/4	498	1/4	1,636	1/4	2,773	1/4	3,911	1/4	5,049	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	521	1/2	1,659	1/2	2,797	1/2	3,935	1/2	5,073	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	545	3/4	1,683	3/4	2,821	3/4	3,959	3/4	5,096	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	569	6	1,707	6	2,844	6	3,982	6	5,120	6		6		6	6	6	6	6	6
1/4	593	1/4	1,730	1/4	2,868	1/4	4,006	1/4	5,144	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	616	1/2	1,754	1/2	2,892	1/2	4,030	1/2	5,167	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	640	3/4	1,778	3/4	2,916	3/4	4,053	3/4	5,191	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	664	7	1,801	7	2,939	7	4,077	7	5,215	7		7		7	7	7	7	7	7
1/4	687	1/4	1,825	1/4	2,963	1/4	4,101	1/4	5,239	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	711	1/2	1,849	1/2	2,987	1/2	4,124	1/2	5,262	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	735	3/4	1,873	3/4	3,010	3/4	4,148	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	759	8	1,896	8	3,034	8	4,172	8		8		8		8	8	8	8	8	8
1/4	782	1/4	1,920	1/4	3,058	1/4	4,196	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	806	1/2	1,944	1/2	3,081	1/2	4,219	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	830	3/4	1,967	3/4	3,105	3/4	4,243	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	853	9	1,991	9	3,129	9	4,267	9		9		9		9	9	9	9	9	9
1/4	877	1/4	2,015	1/4	3,153	1/4	4,290	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	901	1/2	2,039	1/2	3,176	1/2	4,314	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	924	3/4	2,062	3/4	3,200	3/4	4,338	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	948	10	2,086	10	3,224	10	4,361	10		10		10		10	10	10	10	10	10
1/4	972	1/4	2,110	1/4	3,247	1/4	4,385	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	996	1/2	2,133	1/2	3,271	1/2	4,409	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,019	3/4	2,157	3/4	3,295	3/4	4,433	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,043	11	2,181	11	3,319	11	4,456	11		11		11		11	11	11	11	11	11
1/4	1,067	1/4	2,204	1/4	3,342	1/4	4,480	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,090	1/2	2,228	1/2	3,366	1/2	4,504	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,114	3/4	2,252	3/4	3,390	3/4	4,527	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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CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2019



BARGE "HFL 410"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-04 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	110	0	278	0	444	0		0		0		0		0		0	
1/4	1	1/4	114	1/4	282	1/4	447	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	117	1/2	286	1/2	450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	120	3/4	289	3/4	453	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	123	1	293	1	456	1		1		1		1		1		1	
1/4	4	1/4	126	1/4	297	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	130	1/2	300	1/2	462	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	133	3/4	304	3/4	465	3/4		3/4		3/4		3/4		3/4		3/4	
2	8	2	136	2	307	2	467	2		2		2		2		2		2	
1/4	10	1/4	140	1/4	311	1/4	470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	11	1/2	143	1/2	315	1/2	473	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	13	3/4	147	3/4	318	3/4	476	3/4		3/4		3/4		3/4		3/4		3/4	
3	15	3	150	3	322	3	479	3		3		3		3		3		3	
1/4	17	1/4	153	1/4	325	1/4	481	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	157	1/2	329	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	21	3/4	160	3/4	333	3/4	487	3/4		3/4		3/4		3/4		3/4		3/4	
4	23	4	164	4	336	4	489	4		4		4		4		4		4	
1/4	25	1/4	167	1/4	340	1/4	492	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	27	1/2	171	1/2	343	1/2	494	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	29	3/4	174	3/4	347	3/4	497	3/4		3/4		3/4		3/4		3/4		3/4	
5	31	5	178	5	350	5	499	5		5		5		5		5		5	
1/4	34	1/4	181	1/4	354	1/4	501	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	36	1/2	185	1/2	357	1/2	504	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	39	3/4	188	3/4	361	3/4	506	3/4		3/4		3/4		3/4		3/4		3/4	
6	41	6	192	6	364	6	508	6		6		6		6		6		6	
1/4	44	1/4	195	1/4	368	1/4	510	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	46	1/2	199	1/2	371	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	49	3/4	202	3/4	375	3/4	515	3/4		3/4		3/4		3/4		3/4		3/4	
7	51	7	206	7	378	7	517	7		7		7		7		7		7	
1/4	54	1/4	209	1/4	382	1/4	518	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	57	1/2	213	1/2	385	1/2	520	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	59	3/4	217	3/4	389	3/4	522	3/4		3/4		3/4		3/4		3/4		3/4	
8	62	8	220	8	392	8	524	8		8		8		8		8		8	
1/4	65	1/4	224	1/4	395	1/4	526	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	68	1/2	227	1/2	399	1/2	527	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	71	3/4	231	3/4	402	3/4	529	3/4		3/4		3/4		3/4		3/4		3/4	
9	74	9	235	9	405	9	530	9		9		9		9		9		9	
1/4	77	1/4	238	1/4	409	1/4	531	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	80	1/2	242	1/2	412	1/2	533	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	83	3/4	246	3/4	415	3/4	534	3/4		3/4		3/4		3/4		3/4		3/4	
10	86	10	249	10	419	10	535	10		10		10		10		10		10	
1/4	89	1/4	253	1/4	422	1/4	536	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	92	1/2	257	1/2	425	1/2	536	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	95	3/4	260	3/4	428	3/4	537	3/4		3/4		3/4		3/4		3/4		3/4	
11	98	11	264	11	431	11		11		11		11		11		11		11	
1/4	101	1/4	267	1/4	434	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	104	1/2	271	1/2	438	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	107	3/4	275	3/4	441	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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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 OPPOSITE HINGE OF 8" HATCH

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