



BARGE "HFL 439"

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 439"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	1,026	0	15,615	0	30,603	0	45,575	0	60,561	0	75,549	0	90,537	0	105,525	0	120,497	0	135,465
1/4	1,260	1/4	15,928	1/4	30,915	1/4	45,887	1/4	60,873	1/4	75,861	1/4	90,850	1/4	105,838	1/4	120,809	1/4	135,777
1/2	1,495	1/2	16,240	1/2	31,228	1/2	46,199	1/2	61,186	1/2	76,174	1/2	91,162	1/2	106,150	1/2	121,121	1/2	136,089
3/4	1,729	3/4	16,552	3/4	31,540	3/4	46,511	3/4	61,498	3/4	76,486	3/4	91,474	3/4	106,462	3/4	121,432	3/4	136,401
1	1,963	1	16,864	1	31,852	1	46,823	1	61,810	1	76,798	1	91,786	1	106,774	1	121,744	1	136,712
1/4	2,255	1/4	17,177	1/4	32,164	1/4	47,135	1/4	62,122	1/4	77,111	1/4	92,099	1/4	107,087	1/4	122,056	1/4	137,024
1/2	2,547	1/2	17,489	1/2	32,477	1/2	47,447	1/2	62,435	1/2	77,423	1/2	92,411	1/2	107,399	1/2	122,368	1/2	137,336
3/4	2,839	3/4	17,801	3/4	32,789	3/4	47,759	3/4	62,747	3/4	77,735	3/4	92,723	3/4	107,711	3/4	122,680	3/4	137,648
2	3,131	2	18,113	2	33,101	2	48,071	2	63,059	2	78,047	2	93,035	2	108,023	2	122,992	2	137,960
1/4	3,442	1/4	18,426	1/4	33,413	1/4	48,383	1/4	63,371	1/4	78,360	1/4	93,348	1/4	108,335	1/4	123,303	1/4	138,272
1/2	3,753	1/2	18,738	1/2	33,725	1/2	48,696	1/2	63,684	1/2	78,672	1/2	93,660	1/2	108,647	1/2	123,615	1/2	138,583
3/4	4,065	3/4	19,050	3/4	34,038	3/4	49,008	3/4	63,996	3/4	78,984	3/4	93,972	3/4	108,959	3/4	123,927	3/4	138,895
3	4,376	3	19,362	3	34,350	3	49,320	3	64,308	3	79,296	3	94,284	3	109,271	3	124,239	3	139,207
1/4	4,688	1/4	19,675	1/4	34,662	1/4	49,632	1/4	64,620	1/4	79,609	1/4	94,597	1/4	109,583	1/4	124,551	1/4	139,519
1/2	5,000	1/2	19,987	1/2	34,974	1/2	49,945	1/2	64,933	1/2	79,921	1/2	94,909	1/2	109,894	1/2	124,863	1/2	139,831
3/4	5,312	3/4	20,299	3/4	35,286	3/4	50,257	3/4	65,245	3/4	80,233	3/4	95,221	3/4	110,206	3/4	125,174	3/4	140,143
4	5,624	4	20,611	4	35,598	4	50,569	4	65,557	4	80,545	4	95,533	4	110,518	4	125,486	4	140,454
1/4	5,936	1/4	20,924	1/4	35,910	1/4	50,881	1/4	65,869	1/4	80,858	1/4	95,846	1/4	110,830	1/4	125,798	1/4	140,766
1/2	6,248	1/2	21,236	1/2	36,221	1/2	51,194	1/2	66,182	1/2	81,170	1/2	96,158	1/2	111,142	1/2	126,110	1/2	141,078
3/4	6,560	3/4	21,548	3/4	36,533	3/4	51,506	3/4	66,494	3/4	81,482	3/4	96,470	3/4	111,454	3/4	126,422	3/4	141,390
5	6,873	5	21,860	5	36,845	5	51,818	5	66,806	5	81,794	5	96,782	5	111,766	5	126,734	5	141,701
1/4	7,185	1/4	22,173	1/4	37,157	1/4	52,130	1/4	67,118	1/4	82,107	1/4	97,095	1/4	112,077	1/4	127,045	1/4	142,013
1/2	7,497	1/2	22,485	1/2	37,469	1/2	52,443	1/2	67,431	1/2	82,419	1/2	97,407	1/2	112,389	1/2	127,357	1/2	142,325
3/4	7,809	3/4	22,797	3/4	37,780	3/4	52,755	3/4	67,743	3/4	82,731	3/4	97,719	3/4	112,701	3/4	127,669	3/4	142,636
6	8,122	6	23,109	6	38,092	6	53,067	6	68,055	6	83,043	6	98,031	6	113,013	6	127,981	6	142,948
1/4	8,434	1/4	23,421	1/4	38,404	1/4	53,379	1/4	68,367	1/4	83,356	1/4	98,344	1/4	113,325	1/4	128,293	1/4	143,255
1/2	8,746	1/2	23,734	1/2	38,716	1/2	53,692	1/2	68,680	1/2	83,668	1/2	98,656	1/2	113,637	1/2	128,605	1/2	143,562
3/4	9,058	3/4	24,046	3/4	39,027	3/4	54,004	3/4	68,992	3/4	83,980	3/4	98,968	3/4	113,948	3/4	128,916	3/4	143,869
7	9,371	7	24,358	7	39,339	7	54,316	7	69,304	7	84,292	7	99,280	7	114,260	7	129,228	7	144,176
1/4	9,683	1/4	24,670	1/4	39,651	1/4	54,628	1/4	69,616	1/4	84,605	1/4	99,593	1/4	114,572	1/4	129,540	1/4	144,471
1/2	9,995	1/2	24,983	1/2	39,963	1/2	54,941	1/2	69,929	1/2	84,917	1/2	99,905	1/2	114,884	1/2	129,852	1/2	144,766
3/4	10,307	3/4	25,295	3/4	40,274	3/4	55,253	3/4	70,241	3/4	85,229	3/4	100,217	3/4	115,196	3/4	130,164	3/4	145,060
8	10,620	8	25,607	8	40,586	8	55,565	8	70,553	8	85,541	8	100,529	8	115,508	8	130,476	8	145,355
1/4	10,932	1/4	25,919	1/4	40,898	1/4	55,877	1/4	70,865	1/4	85,854	1/4	100,842	1/4	115,819	1/4	130,788	1/4	145,634
1/2	11,244	1/2	26,232	1/2	41,210	1/2	56,190	1/2	71,178	1/2	86,166	1/2	101,154	1/2	116,131	1/2	131,099	1/2	145,913
3/4	11,556	3/4	26,544	3/4	41,521	3/4	56,502	3/4	71,490	3/4	86,478	3/4	101,466	3/4	116,443	3/4	131,411	3/4	146,191
9	11,869	9	26,856	9	41,833	9	56,814	9	71,802	9	86,790	9	101,778	9	116,755	9	131,723	9	146,470
1/4	12,181	1/4	27,168	1/4	42,145	1/4	57,126	1/4	72,114	1/4	87,103	1/4	102,091	1/4	117,067	1/4	132,035	1/4	146,733
1/2	12,493	1/2	27,481	1/2	42,457	1/2	57,439	1/2	72,427	1/2	87,415	1/2	102,403	1/2	117,379	1/2	132,347	1/2	146,995
3/4	12,805	3/4	27,793	3/4	42,768	3/4	57,751	3/4	72,739	3/4	87,727	3/4	102,715	3/4	117,690	3/4	132,659	3/4	147,258
10	13,117	10	28,105	10	43,080	10	58,063	10	73,051	10	88,039	10	103,027	10	118,002	10	132,970	10	147,521
1/4	13,430	1/4	28,417	1/4	43,392	1/4	58,375	1/4	73,363	1/4	88,352	1/4	103,340	1/4	118,314	1/4	133,282	1/4	147,768
1/2	13,742	1/2	28,730	1/2	43,704	1/2	58,688	1/2	73,676	1/2	88,664	1/2	103,652	1/2	118,626	1/2	133,594	1/2	148,015
3/4	14,054	3/4	29,042	3/4	44,015	3/4	59,000	3/4	73,988	3/4	88,976	3/4	103,964	3/4	118,938	3/4	133,906	3/4	148,261
11	14,366	11	29,354	11	44,327	11	59,312	11	74,300	11	89,288	11	104,276	11	119,250	11	134,218	11	148,508
1/4	14,679	1/4	29,666	1/4	44,639	1/4	59,624	1/4	74,612	1/4	89,601	1/4	104,589	1/4	119,561	1/4	134,530	1/4	148,739
1/2	14,991	1/2	29,979	1/2	44,951	1/2	59,937	1/2	74,925	1/2	89,913	1/2	104,901	1/2	119,873	1/2	134,841	1/2	148,970
3/4	15,303	3/4	30,291	3/4	45,263	3/4	60,249	3/4	75,237	3/4	90,225	3/4	105,213	3/4	120,185	3/4	135,153	3/4	149,200

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HFL 439"

3 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	149,431	0	159,793	0	170,133	0	180,444	0	190,740	0		0		0		0		0	
1/4	149,650	1/4	160,008	1/4	170,348	1/4	180,659	1/4	190,933	1/4		1/4		1/4		1/4		1/4	
1/2	149,869	1/2	160,224	1/2	170,562	1/2	180,873	1/2	191,126	1/2		1/2		1/2		1/2		1/2	
3/4	150,088	3/4	160,439	3/4	170,777	3/4	181,088	3/4	191,318	3/4		3/4		3/4		3/4		3/4	
1	150,308	1	160,655	1	170,992	1	181,303	1	191,511	1		1		1		1		1	
1/4	150,523	1/4	160,871	1/4	171,207	1/4	181,518	1/4	191,670	1/4		1/4		1/4		1/4		1/4	
1/2	150,739	1/2	161,086	1/2	171,422	1/2	181,733	1/2	191,830	1/2		1/2		1/2		1/2		1/2	
3/4	150,954	3/4	161,302	3/4	171,636	3/4	181,947	3/4	191,989	3/4		3/4		3/4		3/4		3/4	
2	151,170	2	161,517	2	171,851	2	182,162	2	192,148	2		2		2		2		2	
1/4	151,385	1/4	161,733	1/4	172,066	1/4	182,377	1/4	192,272	1/4		1/4		1/4		1/4		1/4	
1/2	151,601	1/2	161,949	1/2	172,281	1/2	182,592	1/2	192,395	1/2		1/2		1/2		1/2		1/2	
3/4	151,817	3/4	162,164	3/4	172,496	3/4	182,807	3/4	192,519	3/4		3/4		3/4		3/4		3/4	
3	152,032	3	162,380	3	172,710	3	183,022	3	192,642	3		3		3		3		3	
1/4	152,248	1/4	162,595	1/4	172,925	1/4	183,236	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,463	1/2	162,811	1/2	173,140	1/2	183,451	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,679	3/4	163,026	3/4	173,355	3/4	183,666	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,894	4	163,242	4	173,570	4	183,881	4		4		4		4		4		4	
1/4	153,110	1/4	163,458	1/4	173,785	1/4	184,096	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,326	1/2	163,673	1/2	173,999	1/2	184,310	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,541	3/4	163,889	3/4	174,214	3/4	184,525	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,757	5	164,104	5	174,429	5	184,740	5		5		5		5		5		5	
1/4	153,972	1/4	164,320	1/4	174,644	1/4	184,955	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,188	1/2	164,535	1/2	174,859	1/2	185,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,403	3/4	164,751	3/4	175,073	3/4	185,385	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,619	6	164,967	6	175,288	6	185,599	6		6		6		6		6		6	
1/4	154,835	1/4	165,182	1/4	175,503	1/4	185,814	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,050	1/2	165,398	1/2	175,718	1/2	186,029	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,266	3/4	165,613	3/4	175,933	3/4	186,244	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,481	7	165,829	7	176,148	7	186,459	7		7		7		7		7		7	
1/4	155,697	1/4	166,044	1/4	176,362	1/4	186,673	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,912	1/2	166,260	1/2	176,577	1/2	186,888	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,128	3/4	166,476	3/4	176,792	3/4	187,103	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,344	8	166,691	8	177,007	8	187,318	8		8		8		8		8		8	
1/4	156,559	1/4	166,907	1/4	177,222	1/4	187,533	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,775	1/2	167,122	1/2	177,436	1/2	187,748	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,990	3/4	167,338	3/4	177,651	3/4	187,963	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,206	9	167,553	9	177,866	9	188,178	9		9		9		9		9		9	
1/4	157,421	1/4	167,769	1/4	178,081	1/4	188,393	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,637	1/2	167,984	1/2	178,296	1/2	188,608	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,853	3/4	168,199	3/4	178,510	3/4	188,822	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,068	10	168,414	10	178,725	10	189,037	10		10		10		10		10		10	
1/4	158,284	1/4	168,629	1/4	178,940	1/4	189,252	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,499	1/2	168,844	1/2	179,155	1/2	189,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,715	3/4	169,059	3/4	179,370	3/4	189,681	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,930	11	169,273	11	179,585	11	189,896	11		11		11		11		11		11	
1/4	159,146	1/4	169,488	1/4	179,799	1/4	190,107	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,362	1/2	169,703	1/2	180,014	1/2	190,318	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,577	3/4	169,918	3/4	180,229	3/4	190,529	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 439"

3 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	1,026	0	15,602	0	30,561	0	45,291	0	59,819	0	74,699	0	89,635	0	104,583	0	119,521	0	134,456
1/4	1,260	1/4	15,914	1/4	30,872	1/4	45,592	1/4	60,130	1/4	75,009	1/4	89,947	1/4	104,895	1/4	119,833	1/4	134,767
1/2	1,494	1/2	16,225	1/2	31,184	1/2	45,893	1/2	60,442	1/2	75,318	1/2	90,258	1/2	105,206	1/2	120,144	1/2	135,078
3/4	1,728	3/4	16,537	3/4	31,496	3/4	46,194	3/4	60,753	3/4	75,628	3/4	90,569	3/4	105,518	3/4	120,455	3/4	135,390
1	1,962	1	16,849	1	31,807	1	46,495	1	61,064	1	75,938	1	90,880	1	105,830	1	120,766	1	135,701
1/4	2,254	1/4	17,160	1/4	32,119	1/4	46,797	1/4	61,376	1/4	76,247	1/4	91,192	1/4	106,141	1/4	121,077	1/4	136,012
1/2	2,546	1/2	17,472	1/2	32,431	1/2	47,098	1/2	61,687	1/2	76,557	1/2	91,503	1/2	106,452	1/2	121,388	1/2	136,323
3/4	2,838	3/4	17,784	3/4	32,742	3/4	47,400	3/4	61,998	3/4	76,867	3/4	91,814	3/4	106,764	3/4	121,699	3/4	136,634
2	3,130	2	18,095	2	33,054	2	47,701	2	62,309	2	77,176	2	92,126	2	107,075	2	122,011	2	136,945
1/4	3,441	1/4	18,407	1/4	33,366	1/4	48,003	1/4	62,620	1/4	77,487	1/4	92,437	1/4	107,386	1/4	122,322	1/4	137,256
1/2	3,752	1/2	18,719	1/2	33,677	1/2	48,305	1/2	62,930	1/2	77,798	1/2	92,748	1/2	107,698	1/2	122,633	1/2	137,568
3/4	4,064	3/4	19,030	3/4	33,989	3/4	48,607	3/4	63,241	3/4	78,108	3/4	93,060	3/4	108,009	3/4	122,944	3/4	137,879
3	4,375	3	19,342	3	34,301	3	48,908	3	63,551	3	78,419	3	93,371	3	108,320	3	123,255	3	138,190
1/4	4,687	1/4	19,654	1/4	34,612	1/4	49,210	1/4	63,861	1/4	78,731	1/4	93,682	1/4	108,631	1/4	123,566	1/4	138,501
1/2	4,998	1/2	19,965	1/2	34,923	1/2	49,512	1/2	64,171	1/2	79,042	1/2	93,994	1/2	108,943	1/2	123,877	1/2	138,812
3/4	5,310	3/4	20,277	3/4	35,234	3/4	49,814	3/4	64,480	3/4	79,354	3/4	94,305	3/4	109,254	3/4	124,189	3/4	139,123
4	5,622	4	20,589	4	35,545	4	50,116	4	64,790	4	79,665	4	94,616	4	109,565	4	124,500	4	139,434
1/4	5,934	1/4	20,900	1/4	35,853	1/4	50,418	1/4	65,100	1/4	79,977	1/4	94,927	1/4	109,876	1/4	124,811	1/4	139,745
1/2	6,246	1/2	21,212	1/2	36,160	1/2	50,720	1/2	65,409	1/2	80,289	1/2	95,239	1/2	110,187	1/2	125,122	1/2	140,057
3/4	6,558	3/4	21,524	3/4	36,468	3/4	51,021	3/4	65,719	3/4	80,600	3/4	95,550	3/4	110,498	3/4	125,433	3/4	140,368
5	6,869	5	21,836	5	36,775	5	51,323	5	66,029	5	80,912	5	95,861	5	110,810	5	125,744	5	140,679
1/4	7,181	1/4	22,147	1/4	37,080	1/4	51,625	1/4	66,338	1/4	81,223	1/4	96,173	1/4	111,121	1/4	126,055	1/4	140,989
1/2	7,493	1/2	22,459	1/2	37,384	1/2	51,927	1/2	66,648	1/2	81,535	1/2	96,484	1/2	111,432	1/2	126,367	1/2	141,300
3/4	7,805	3/4	22,771	3/4	37,689	3/4	52,229	3/4	66,958	3/4	81,847	3/4	96,795	3/4	111,743	3/4	126,678	3/4	141,611
6	8,117	6	23,082	6	37,993	6	52,531	6	67,267	6	82,158	6	97,107	6	112,054	6	126,989	6	141,922
1/4	8,429	1/4	23,394	1/4	38,297	1/4	52,832	1/4	67,577	1/4	82,470	1/4	97,418	1/4	112,365	1/4	127,300	1/4	142,228
1/2	8,741	1/2	23,706	1/2	38,602	1/2	53,134	1/2	67,887	1/2	82,782	1/2	97,729	1/2	112,676	1/2	127,611	1/2	142,535
3/4	9,053	3/4	24,017	3/4	38,906	3/4	53,436	3/4	68,196	3/4	83,093	3/4	98,041	3/4	112,988	3/4	127,922	3/4	142,841
7	9,365	7	24,329	7	39,210	7	53,738	7	68,506	7	83,405	7	98,352	7	113,299	7	128,233	7	143,148
1/4	9,678	1/4	24,641	1/4	39,515	1/4	54,040	1/4	68,816	1/4	83,716	1/4	98,664	1/4	113,610	1/4	128,544	1/4	143,442
1/2	9,990	1/2	24,952	1/2	39,819	1/2	54,342	1/2	69,125	1/2	84,028	1/2	98,975	1/2	113,921	1/2	128,856	1/2	143,736
3/4	10,302	3/4	25,264	3/4	40,124	3/4	54,643	3/4	69,435	3/4	84,340	3/4	99,287	3/4	114,232	3/4	129,167	3/4	144,030
8	10,614	8	25,576	8	40,428	8	54,945	8	69,745	8	84,651	8	99,598	8	114,543	8	129,478	8	144,324
1/4	10,926	1/4	25,887	1/4	40,732	1/4	55,247	1/4	70,054	1/4	84,963	1/4	99,910	1/4	114,854	1/4	129,789	1/4	144,602
1/2	11,238	1/2	26,199	1/2	41,037	1/2	55,549	1/2	70,364	1/2	85,275	1/2	100,222	1/2	115,165	1/2	130,100	1/2	144,880
3/4	11,550	3/4	26,511	3/4	41,341	3/4	55,851	3/4	70,674	3/4	85,586	3/4	100,533	3/4	115,477	3/4	130,411	3/4	145,158
9	11,862	9	26,822	9	41,645	9	56,153	9	70,983	9	85,898	9	100,845	9	115,788	9	130,722	9	145,436
1/4	12,173	1/4	27,134	1/4	41,950	1/4	56,456	1/4	71,293	1/4	86,209	1/4	101,156	1/4	116,099	1/4	131,034	1/4	145,699
1/2	12,485	1/2	27,445	1/2	42,254	1/2	56,759	1/2	71,603	1/2	86,521	1/2	101,468	1/2	116,410	1/2	131,345	1/2	145,961
3/4	12,797	3/4	27,757	3/4	42,558	3/4	57,063	3/4	71,912	3/4	86,833	3/4	101,779	3/4	116,721	3/4	131,656	3/4	146,223
10	13,108	10	28,068	10	42,863	10	57,366	10	72,222	10	87,144	10	102,091	10	117,032	10	131,967	10	146,486
1/4	13,420	1/4	28,380	1/4	43,167	1/4	57,671	1/4	72,531	1/4	87,456	1/4	102,402	1/4	117,343	1/4	132,278	1/4	146,732
1/2	13,732	1/2	28,691	1/2	43,472	1/2	57,976	1/2	72,841	1/2	87,767	1/2	102,714	1/2	117,655	1/2	132,589	1/2	146,979
3/4	14,043	3/4	29,003	3/4	43,776	3/4	58,281	3/4	73,151	3/4	88,079	3/4	103,026	3/4	117,966	3/4	132,900	3/4	147,226
11	14,355	11	29,314	11	44,080	11	58,586	11	73,460	11	88,390	11	103,337	11	118,277	11	133,212	11	147,472
1/4	14,667	1/4	29,626	1/4	44,383	1/4	58,894	1/4	73,770	1/4	88,701	1/4	103,649	1/4	118,588	1/4	133,523	1/4	147,703
1/2	14,979	1/2	29,937	1/2	44,686	1/2	59,203	1/2	74,080	1/2	89,013	1/2	103,960	1/2	118,899	1/2	133,834	1/2	147,934
3/4	15,290	3/4	30,249	3/4	44,988	3/4	59,511	3/4	74,389	3/4	89,324	3/4	104,272	3/4	119,210	3/4	134,145	3/4	148,164

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 439"

3 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	148,395	0	158,756	0	169,096	0	179,406	0	189,702	0		0		0		0		0	
1/4	148,614	1/4	158,972	1/4	169,310	1/4	179,621	1/4	189,895	1/4		1/4		1/4		1/4		1/4	
1/2	148,833	1/2	159,187	1/2	169,525	1/2	179,836	1/2	190,088	1/2		1/2		1/2		1/2		1/2	
3/4	149,052	3/4	159,403	3/4	169,740	3/4	180,051	3/4	190,280	3/4		3/4		3/4		3/4		3/4	
1	149,271	1	159,618	1	169,955	1	180,265	1	190,473	1		1		1		1		1	
1/4	149,487	1/4	159,834	1/4	170,170	1/4	180,480	1/4	190,632	1/4		1/4		1/4		1/4		1/4	
1/2	149,702	1/2	160,049	1/2	170,384	1/2	180,695	1/2	190,792	1/2		1/2		1/2		1/2		1/2	
3/4	149,918	3/4	160,265	3/4	170,599	3/4	180,910	3/4	190,951	3/4		3/4		3/4		3/4		3/4	
2	150,134	2	160,481	2	170,814	2	181,125	2	191,110	2		2		2		2		2	
1/4	150,349	1/4	160,696	1/4	171,029	1/4	181,339	1/4	191,234	1/4		1/4		1/4		1/4		1/4	
1/2	150,565	1/2	160,912	1/2	171,244	1/2	181,554	1/2	191,357	1/2		1/2		1/2		1/2		1/2	
3/4	150,780	3/4	161,127	3/4	171,458	3/4	181,769	3/4	191,481	3/4		3/4		3/4		3/4		3/4	
3	150,996	3	161,343	3	171,673	3	181,984	3	191,604	3		3		3		3		3	
1/4	151,211	1/4	161,558	1/4	171,888	1/4	182,199	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,427	1/2	161,774	1/2	172,103	1/2	182,413	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,642	3/4	161,990	3/4	172,318	3/4	182,628	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,858	4	162,205	4	172,532	4	182,843	4		4		4		4		4		4	
1/4	152,074	1/4	162,421	1/4	172,747	1/4	183,058	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,289	1/2	162,636	1/2	172,962	1/2	183,273	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,505	3/4	162,852	3/4	173,177	3/4	183,488	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,720	5	163,067	5	173,392	5	183,702	5		5		5		5		5		5	
1/4	152,936	1/4	163,283	1/4	173,606	1/4	183,917	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,151	1/2	163,498	1/2	173,821	1/2	184,132	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,367	3/4	163,714	3/4	174,036	3/4	184,347	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,583	6	163,930	6	174,251	6	184,562	6		6		6		6		6		6	
1/4	153,798	1/4	164,145	1/4	174,466	1/4	184,776	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,014	1/2	164,361	1/2	174,680	1/2	184,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,229	3/4	164,576	3/4	174,895	3/4	185,206	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,445	7	164,792	7	175,110	7	185,421	7		7		7		7		7		7	
1/4	154,660	1/4	165,007	1/4	175,325	1/4	185,636	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,876	1/2	165,223	1/2	175,540	1/2	185,850	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,091	3/4	165,439	3/4	175,755	3/4	186,065	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,307	8	165,654	8	175,969	8	186,280	8		8		8		8		8		8	
1/4	155,523	1/4	165,870	1/4	176,184	1/4	186,495	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,738	1/2	166,085	1/2	176,399	1/2	186,710	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,954	3/4	166,301	3/4	176,614	3/4	186,925	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,169	9	166,516	9	176,829	9	187,140	9		9		9		9		9		9	
1/4	156,385	1/4	166,732	1/4	177,043	1/4	187,355	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,600	1/2	166,947	1/2	177,258	1/2	187,570	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,816	3/4	167,162	3/4	177,473	3/4	187,784	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,032	10	167,377	10	177,688	10	187,999	10		10		10		10		10		10	
1/4	157,247	1/4	167,592	1/4	177,903	1/4	188,214	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,463	1/2	167,807	1/2	178,117	1/2	188,428	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,678	3/4	168,022	3/4	178,332	3/4	188,643	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,894	11	168,236	11	178,547	11	188,858	11		11		11		11		11		11	
1/4	158,109	1/4	168,451	1/4	178,762	1/4	189,069	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,325	1/2	168,666	1/2	178,977	1/2	189,280	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,540	3/4	168,881	3/4	179,191	3/4	189,491	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
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 439"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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



BARGE "HFL 439"

2 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	151,215	0	166,272	0	181,318	0	196,323	0	211,232	0		0		0		0		0	
1/4	151,529	1/4	166,585	1/4	181,630	1/4	196,636	1/4	211,512	1/4		1/4		1/4		1/4		1/4	
1/2	151,842	1/2	166,899	1/2	181,943	1/2	196,948	1/2	211,791	1/2		1/2		1/2		1/2		1/2	
3/4	152,156	3/4	167,213	3/4	182,255	3/4	197,261	3/4	212,071	3/4		3/4		3/4		3/4		3/4	
1	152,470	1	167,526	1	182,568	1	197,574	1	212,351	1		1		1		1		1	
1/4	152,783	1/4	167,840	1/4	182,881	1/4	197,886	1/4	212,582	1/4		1/4		1/4		1/4		1/4	
1/2	153,097	1/2	168,154	1/2	183,193	1/2	198,199	1/2	212,813	1/2		1/2		1/2		1/2		1/2	
3/4	153,411	3/4	168,467	3/4	183,506	3/4	198,511	3/4	213,045	3/4		3/4		3/4		3/4		3/4	
2	153,724	2	168,781	2	183,819	2	198,824	2	213,276	2		2		2		2		2	
1/4	154,038	1/4	169,095	1/4	184,131	1/4	199,137	1/4	213,455	1/4		1/4		1/4		1/4		1/4	
1/2	154,352	1/2	169,408	1/2	184,444	1/2	199,449	1/2	213,634	1/2		1/2		1/2		1/2		1/2	
3/4	154,665	3/4	169,722	3/4	184,756	3/4	199,762	3/4	213,813	3/4		3/4		3/4		3/4		3/4	
3	154,979	3	170,036	3	185,069	3	200,075	3	213,991	3		3		3		3		3	
1/4	155,293	1/4	170,349	1/4	185,382	1/4	200,387	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,606	1/2	170,663	1/2	185,694	1/2	200,700	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,920	3/4	170,977	3/4	186,007	3/4	201,012	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,234	4	171,290	4	186,319	4	201,325	4		4		4		4		4		4	
1/4	156,548	1/4	171,604	1/4	186,632	1/4	201,638	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,861	1/2	171,918	1/2	186,945	1/2	201,950	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,175	3/4	172,232	3/4	187,257	3/4	202,263	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,489	5	172,545	5	187,570	5	202,576	5		5		5		5		5		5	
1/4	157,802	1/4	172,859	1/4	187,883	1/4	202,887	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,116	1/2	173,173	1/2	188,195	1/2	203,198	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,430	3/4	173,486	3/4	188,508	3/4	203,509	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,743	6	173,800	6	188,820	6	203,820	6		6		6		6		6		6	
1/4	159,057	1/4	174,114	1/4	189,133	1/4	204,129	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,371	1/2	174,427	1/2	189,446	1/2	204,439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,684	3/4	174,741	3/4	189,758	3/4	204,748	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,998	7	175,055	7	190,071	7	205,058	7		7		7		7		7		7	
1/4	160,312	1/4	175,368	1/4	190,383	1/4	205,367	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,625	1/2	175,682	1/2	190,696	1/2	205,677	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,939	3/4	175,996	3/4	191,009	3/4	205,987	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,253	8	176,309	8	191,321	8	206,296	8		8		8		8		8		8	
1/4	161,566	1/4	176,623	1/4	191,634	1/4	206,606	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,880	1/2	176,937	1/2	191,947	1/2	206,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,194	3/4	177,250	3/4	192,259	3/4	207,225	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,507	9	177,564	9	192,572	9	207,535	9		9		9		9		9		9	
1/4	162,821	1/4	177,877	1/4	192,884	1/4	207,845	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,135	1/2	178,190	1/2	193,197	1/2	208,154	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,448	3/4	178,504	3/4	193,510	3/4	208,464	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,762	10	178,817	10	193,822	10	208,773	10		10		10		10		10		10	
1/4	164,076	1/4	179,129	1/4	194,135	1/4	209,083	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,390	1/2	179,442	1/2	194,447	1/2	209,392	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,703	3/4	179,755	3/4	194,760	3/4	209,701	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,017	11	180,067	11	195,073	11	210,010	11		11		11		11		11		11	
1/4	165,331	1/4	180,380	1/4	195,385	1/4	210,316	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,644	1/2	180,692	1/2	195,698	1/2	210,621	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,958	3/4	181,005	3/4	196,011	3/4	210,926	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/05/2015 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 439"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	1,031	0	15,689	0	30,745	0	45,430	0	59,909	0	74,756	0	89,815	0	104,874	0	119,927	0	134,978
1/4	1,266	1/4	16,003	1/4	31,059	1/4	45,731	1/4	60,211	1/4	75,070	1/4	90,129	1/4	105,187	1/4	120,241	1/4	135,292
1/2	1,502	1/2	16,316	1/2	31,372	1/2	46,032	1/2	60,513	1/2	75,384	1/2	90,442	1/2	105,501	1/2	120,554	1/2	135,605
3/4	1,737	3/4	16,630	3/4	31,686	3/4	46,333	3/4	60,815	3/4	75,697	3/4	90,756	3/4	105,815	3/4	120,868	3/4	135,919
1	1,972	1	16,944	1	32,000	1	46,634	1	61,117	1	76,011	1	91,070	1	106,129	1	121,181	1	136,232
1/4	2,265	1/4	17,257	1/4	32,313	1/4	46,935	1/4	61,419	1/4	76,325	1/4	91,384	1/4	106,442	1/4	121,495	1/4	136,546
1/2	2,559	1/2	17,571	1/2	32,627	1/2	47,236	1/2	61,721	1/2	76,639	1/2	91,697	1/2	106,756	1/2	121,808	1/2	136,860
3/4	2,852	3/4	17,885	3/4	32,941	3/4	47,537	3/4	62,023	3/4	76,952	3/4	92,011	3/4	107,070	3/4	122,122	3/4	137,173
2	3,145	2	18,199	2	33,255	2	47,838	2	62,325	2	77,266	2	92,325	2	107,383	2	122,436	2	137,487
1/4	3,458	1/4	18,512	1/4	33,568	1/4	48,139	1/4	62,627	1/4	77,580	1/4	92,638	1/4	107,697	1/4	122,749	1/4	137,800
1/2	3,771	1/2	18,826	1/2	33,882	1/2	48,440	1/2	62,929	1/2	77,893	1/2	92,952	1/2	108,011	1/2	123,063	1/2	138,114
3/4	4,084	3/4	19,140	3/4	34,196	3/4	48,742	3/4	63,231	3/4	78,207	3/4	93,266	3/4	108,325	3/4	123,376	3/4	138,427
3	4,396	3	19,453	3	34,509	3	49,043	3	63,533	3	78,521	3	93,580	3	108,638	3	123,690	3	138,741
1/4	4,710	1/4	19,767	1/4	34,823	1/4	49,344	1/4	63,835	1/4	78,835	1/4	93,893	1/4	108,952	1/4	124,003	1/4	139,055
1/2	5,023	1/2	20,081	1/2	35,137	1/2	49,645	1/2	64,137	1/2	79,148	1/2	94,207	1/2	109,266	1/2	124,317	1/2	139,368
3/4	5,337	3/4	20,395	3/4	35,451	3/4	49,946	3/4	64,439	3/4	79,462	3/4	94,521	3/4	109,579	3/4	124,631	3/4	139,682
4	5,650	4	20,708	4	35,764	4	50,248	4	64,741	4	79,776	4	94,834	4	109,893	4	124,944	4	139,995
1/4	5,964	1/4	21,022	1/4	36,072	1/4	50,549	1/4	65,048	1/4	80,089	1/4	95,148	1/4	110,206	1/4	125,258	1/4	140,309
1/2	6,278	1/2	21,336	1/2	36,380	1/2	50,851	1/2	65,356	1/2	80,403	1/2	95,462	1/2	110,520	1/2	125,571	1/2	140,622
3/4	6,591	3/4	21,649	3/4	36,688	3/4	51,153	3/4	65,664	3/4	80,717	3/4	95,776	3/4	110,834	3/4	125,885	3/4	140,936
5	6,905	5	21,963	5	36,996	5	51,454	5	65,972	5	81,031	5	96,089	5	111,147	5	126,198	5	141,250
1/4	7,219	1/4	22,277	1/4	37,298	1/4	51,756	1/4	66,286	1/4	81,344	1/4	96,403	1/4	111,461	1/4	126,512	1/4	141,563
1/2	7,532	1/2	22,591	1/2	37,600	1/2	52,058	1/2	66,599	1/2	81,658	1/2	96,717	1/2	111,774	1/2	126,825	1/2	141,877
3/4	7,846	3/4	22,904	3/4	37,902	3/4	52,360	3/4	66,913	3/4	81,972	3/4	97,031	3/4	112,088	3/4	127,139	3/4	142,190
6	8,160	6	23,218	6	38,203	6	52,662	6	67,227	6	82,286	6	97,344	6	112,401	6	127,453	6	142,504
1/4	8,473	1/4	23,532	1/4	38,505	1/4	52,964	1/4	67,541	1/4	82,599	1/4	97,658	1/4	112,715	1/4	127,766	1/4	142,817
1/2	8,787	1/2	23,845	1/2	38,806	1/2	53,266	1/2	67,854	1/2	82,913	1/2	97,972	1/2	113,029	1/2	128,080	1/2	143,131
3/4	9,101	3/4	24,159	3/4	39,108	3/4	53,568	3/4	68,168	3/4	83,227	3/4	98,285	3/4	113,342	3/4	128,393	3/4	143,445
7	9,415	7	24,473	7	39,409	7	53,870	7	68,482	7	83,540	7	98,599	7	113,656	7	128,707	7	143,758
1/4	9,728	1/4	24,787	1/4	39,710	1/4	54,172	1/4	68,795	1/4	83,854	1/4	98,913	1/4	113,969	1/4	129,020	1/4	144,072
1/2	10,042	1/2	25,100	1/2	40,011	1/2	54,474	1/2	69,109	1/2	84,168	1/2	99,227	1/2	114,283	1/2	129,334	1/2	144,385
3/4	10,356	3/4	25,414	3/4	40,312	3/4	54,776	3/4	69,423	3/4	84,482	3/4	99,540	3/4	114,596	3/4	129,648	3/4	144,699
8	10,669	8	25,728	8	40,614	8	55,078	8	69,737	8	84,795	8	99,854	8	114,910	8	129,961	8	145,012
1/4	10,983	1/4	26,041	1/4	40,915	1/4	55,380	1/4	70,050	1/4	85,109	1/4	100,168	1/4	115,224	1/4	130,275	1/4	145,326
1/2	11,297	1/2	26,355	1/2	41,216	1/2	55,682	1/2	70,364	1/2	85,423	1/2	100,482	1/2	115,537	1/2	130,588	1/2	145,639
3/4	11,611	3/4	26,669	3/4	41,517	3/4	55,984	3/4	70,678	3/4	85,736	3/4	100,795	3/4	115,851	3/4	130,902	3/4	145,953
9	11,924	9	26,982	9	41,818	9	56,286	9	70,991	9	86,050	9	101,109	9	116,164	9	131,215	9	146,267
1/4	12,238	1/4	27,296	1/4	42,119	1/4	56,588	1/4	71,305	1/4	86,364	1/4	101,423	1/4	116,478	1/4	131,529	1/4	146,580
1/2	12,552	1/2	27,609	1/2	42,420	1/2	56,889	1/2	71,619	1/2	86,678	1/2	101,736	1/2	116,791	1/2	131,843	1/2	146,894
3/4	12,865	3/4	27,923	3/4	42,721	3/4	57,191	3/4	71,933	3/4	86,991	3/4	102,050	3/4	117,105	3/4	132,156	3/4	147,207
10	13,179	10	28,236	10	43,022	10	57,493	10	72,246	10	87,305	10	102,364	10	117,419	10	132,470	10	147,521
1/4	13,493	1/4	28,550	1/4	43,323	1/4	57,795	1/4	72,560	1/4	87,619	1/4	102,678	1/4	117,732	1/4	132,783	1/4	147,834
1/2	13,807	1/2	28,863	1/2	43,624	1/2	58,097	1/2	72,874	1/2	87,933	1/2	102,991	1/2	118,046	1/2	133,097	1/2	148,148
3/4	14,120	3/4	29,177	3/4	43,925	3/4	58,399	3/4	73,188	3/4	88,246	3/4	103,305	3/4	118,359	3/4	133,410	3/4	148,462
11	14,434	11	29,490	11	44,226	11	58,701	11	73,501	11	88,560	11	103,619	11	118,673	11	133,724	11	148,775
1/4	14,748	1/4	29,804	1/4	44,527	1/4	59,003	1/4	73,815	1/4	88,874	1/4	103,932	1/4	118,986	1/4	134,038	1/4	149,089
1/2	15,061	1/2	30,118	1/2	44,828	1/2	59,305	1/2	74,129	1/2	89,187	1/2	104,246	1/2	119,300	1/2	134,351	1/2	149,402
3/4	15,375	3/4	30,431	3/4	45,129	3/4	59,607	3/4	74,442	3/4	89,501	3/4	104,560	3/4	119,613	3/4	134,665	3/4	149,716

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 439"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	150,029	0	165,081	0	180,121	0	195,121	0	210,024	0		0		0		0		0	
1/4	150,343	1/4	165,394	1/4	180,434	1/4	195,434	1/4	210,304	1/4		1/4		1/4		1/4		1/4	
1/2	150,657	1/2	165,708	1/2	180,746	1/2	195,746	1/2	210,584	1/2		1/2		1/2		1/2		1/2	
3/4	150,970	3/4	166,021	3/4	181,059	3/4	196,059	3/4	210,863	3/4		3/4		3/4		3/4		3/4	
1	151,284	1	166,335	1	181,371	1	196,371	1	211,143	1		1		1		1		1	
1/4	151,597	1/4	166,648	1/4	181,684	1/4	196,684	1/4	211,374	1/4		1/4		1/4		1/4		1/4	
1/2	151,911	1/2	166,962	1/2	181,996	1/2	196,996	1/2	211,605	1/2		1/2		1/2		1/2		1/2	
3/4	152,224	3/4	167,276	3/4	182,309	3/4	197,309	3/4	211,836	3/4		3/4		3/4		3/4		3/4	
2	152,538	2	167,589	2	182,621	2	197,621	2	212,068	2		2		2		2		2	
1/4	152,852	1/4	167,903	1/4	182,934	1/4	197,934	1/4	212,246	1/4		1/4		1/4		1/4		1/4	
1/2	153,165	1/2	168,216	1/2	183,246	1/2	198,246	1/2	212,425	1/2		1/2		1/2		1/2		1/2	
3/4	153,479	3/4	168,530	3/4	183,559	3/4	198,559	3/4	212,604	3/4		3/4		3/4		3/4		3/4	
3	153,792	3	168,843	3	183,871	3	198,871	3	212,783	3		3		3		3		3	
1/4	154,106	1/4	169,157	1/4	184,184	1/4	199,184	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,419	1/2	169,471	1/2	184,496	1/2	199,496	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,733	3/4	169,784	3/4	184,809	3/4	199,809	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,046	4	170,098	4	185,121	4	200,121	4		4		4		4		4		4	
1/4	155,360	1/4	170,411	1/4	185,434	1/4	200,434	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,674	1/2	170,725	1/2	185,746	1/2	200,746	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,987	3/4	171,038	3/4	186,059	3/4	201,059	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,301	5	171,352	5	186,371	5	201,371	5		5		5		5		5		5	
1/4	156,614	1/4	171,665	1/4	186,684	1/4	201,682	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,928	1/2	171,979	1/2	186,996	1/2	201,993	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,241	3/4	172,293	3/4	187,309	3/4	202,304	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,555	6	172,606	6	187,621	6	202,615	6		6		6		6		6		6	
1/4	157,869	1/4	172,920	1/4	187,934	1/4	202,925	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,182	1/2	173,233	1/2	188,246	1/2	203,234	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,496	3/4	173,547	3/4	188,559	3/4	203,543	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,809	7	173,860	7	188,871	7	203,853	7		7		7		7		7		7	
1/4	159,123	1/4	174,174	1/4	189,184	1/4	204,162	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,436	1/2	174,488	1/2	189,496	1/2	204,472	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,750	3/4	174,801	3/4	189,809	3/4	204,781	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,064	8	175,115	8	190,121	8	205,091	8		8		8		8		8		8	
1/4	160,377	1/4	175,428	1/4	190,434	1/4	205,400	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,691	1/2	175,742	1/2	190,746	1/2	205,710	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,004	3/4	176,055	3/4	191,059	3/4	206,019	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,318	9	176,369	9	191,371	9	206,329	9		9		9		9		9		9	
1/4	161,631	1/4	176,682	1/4	191,684	1/4	206,638	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,945	1/2	176,995	1/2	191,996	1/2	206,948	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,259	3/4	177,308	3/4	192,309	3/4	207,257	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,572	10	177,621	10	192,621	10	207,567	10		10		10		10		10		10	
1/4	162,886	1/4	177,934	1/4	192,934	1/4	207,876	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,199	1/2	178,246	1/2	193,246	1/2	208,185	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,513	3/4	178,559	3/4	193,559	3/4	208,494	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,826	11	178,871	11	193,871	11	208,803	11		11		11		11		11		11	
1/4	164,140	1/4	179,184	1/4	194,184	1/4	209,108	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,453	1/2	179,496	1/2	194,496	1/2	209,414	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,767	3/4	179,809	3/4	194,809	3/4	209,719	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
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 439"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	385	0	13,241	0	28,155	0	43,166	0	58,172	0	73,181	0	88,192	0	103,203	0	118,209	0	133,214
1/4	562	1/4	13,542	1/4	28,468	1/4	43,479	1/4	58,485	1/4	73,493	1/4	88,504	1/4	103,515	1/4	118,522	1/4	133,526
1/2	739	1/2	13,843	1/2	28,781	1/2	43,791	1/2	58,797	1/2	73,806	1/2	88,817	1/2	103,828	1/2	118,834	1/2	133,839
3/4	915	3/4	14,145	3/4	29,094	3/4	44,104	3/4	59,110	3/4	74,119	3/4	89,130	3/4	104,141	3/4	119,147	3/4	134,152
1	1,092	1	14,446	1	29,406	1	44,417	1	59,422	1	74,431	1	89,443	1	104,454	1	119,460	1	134,464
1/4	1,331	1/4	14,751	1/4	29,719	1/4	44,730	1/4	59,735	1/4	74,744	1/4	89,755	1/4	104,766	1/4	119,772	1/4	134,777
1/2	1,569	1/2	15,056	1/2	30,032	1/2	45,042	1/2	60,047	1/2	75,057	1/2	90,068	1/2	105,079	1/2	120,085	1/2	135,089
3/4	1,808	3/4	15,361	3/4	30,344	3/4	45,355	3/4	60,360	3/4	75,370	3/4	90,381	3/4	105,392	3/4	120,397	3/4	135,402
2	2,046	2	15,666	2	30,657	2	45,668	2	60,672	2	75,682	2	90,693	2	105,705	2	120,710	2	135,714
1/4	2,308	1/4	15,975	1/4	30,970	1/4	45,981	1/4	60,985	1/4	75,995	1/4	91,006	1/4	106,017	1/4	121,023	1/4	136,027
1/2	2,569	1/2	16,284	1/2	31,283	1/2	46,293	1/2	61,297	1/2	76,308	1/2	91,319	1/2	106,330	1/2	121,335	1/2	136,340
3/4	2,831	3/4	16,592	3/4	31,595	3/4	46,606	3/4	61,610	3/4	76,621	3/4	91,632	3/4	106,643	3/4	121,648	3/4	136,652
3	3,093	3	16,901	3	31,908	3	46,919	3	61,922	3	76,933	3	91,944	3	106,955	3	121,960	3	136,965
1/4	3,359	1/4	17,213	1/4	32,221	1/4	47,231	1/4	62,235	1/4	77,246	1/4	92,257	1/4	107,268	1/4	122,273	1/4	137,277
1/2	3,625	1/2	17,525	1/2	32,533	1/2	47,544	1/2	62,548	1/2	77,559	1/2	92,570	1/2	107,581	1/2	122,585	1/2	137,590
3/4	3,892	3/4	17,837	3/4	32,846	3/4	47,857	3/4	62,860	3/4	77,872	3/4	92,883	3/4	107,893	3/4	122,898	3/4	137,903
4	4,158	4	18,148	4	33,159	4	48,170	4	63,173	4	78,184	4	93,195	4	108,206	4	123,211	4	138,215
1/4	4,428	1/4	18,461	1/4	33,472	1/4	48,482	1/4	63,486	1/4	78,497	1/4	93,508	1/4	108,519	1/4	123,523	1/4	138,528
1/2	4,699	1/2	18,774	1/2	33,784	1/2	48,795	1/2	63,799	1/2	78,810	1/2	93,821	1/2	108,831	1/2	123,836	1/2	138,840
3/4	4,969	3/4	19,086	3/4	34,097	3/4	49,108	3/4	64,111	3/4	79,122	3/4	94,134	3/4	109,144	3/4	124,148	3/4	139,153
5	5,239	5	19,399	5	34,410	5	49,420	5	64,424	5	79,435	5	94,446	5	109,456	5	124,461	5	139,466
1/4	5,514	1/4	19,712	1/4	34,723	1/4	49,733	1/4	64,737	1/4	79,748	1/4	94,759	1/4	109,769	1/4	124,774	1/4	139,778
1/2	5,788	1/2	20,025	1/2	35,035	1/2	50,046	1/2	65,050	1/2	80,061	1/2	95,072	1/2	110,082	1/2	125,086	1/2	140,091
3/4	6,062	3/4	20,337	3/4	35,348	3/4	50,359	3/4	65,362	3/4	80,373	3/4	95,384	3/4	110,394	3/4	125,399	3/4	140,403
6	6,336	6	20,650	6	35,661	6	50,671	6	65,675	6	80,686	6	95,697	6	110,707	6	125,711	6	140,716
1/4	6,614	1/4	20,963	1/4	35,973	1/4	50,984	1/4	65,988	1/4	80,999	1/4	96,010	1/4	111,019	1/4	126,024	1/4	141,029
1/2	6,892	1/2	21,276	1/2	36,286	1/2	51,297	1/2	66,300	1/2	81,312	1/2	96,323	1/2	111,332	1/2	126,337	1/2	141,341
3/4	7,171	3/4	21,588	3/4	36,599	3/4	51,609	3/4	66,613	3/4	81,624	3/4	96,635	3/4	111,645	3/4	126,649	3/4	141,654
7	7,449	7	21,901	7	36,912	7	51,922	7	66,926	7	81,937	7	96,948	7	111,957	7	126,962	7	141,967
1/4	7,730	1/4	22,214	1/4	37,224	1/4	52,235	1/4	67,239	1/4	82,250	1/4	97,261	1/4	112,270	1/4	127,274	1/4	142,279
1/2	8,012	1/2	22,526	1/2	37,537	1/2	52,547	1/2	67,551	1/2	82,562	1/2	97,574	1/2	112,582	1/2	127,587	1/2	142,592
3/4	8,294	3/4	22,839	3/4	37,850	3/4	52,860	3/4	67,864	3/4	82,875	3/4	97,886	3/4	112,895	3/4	127,900	3/4	142,904
8	8,576	8	23,152	8	38,162	8	53,172	8	68,177	8	83,188	8	98,199	8	113,208	8	128,212	8	143,217
1/4	8,862	1/4	23,465	1/4	38,475	1/4	53,485	1/4	68,490	1/4	83,501	1/4	98,512	1/4	113,520	1/4	128,525	1/4	143,530
1/2	9,148	1/2	23,777	1/2	38,788	1/2	53,797	1/2	68,802	1/2	83,813	1/2	98,824	1/2	113,833	1/2	128,837	1/2	143,842
3/4	9,434	3/4	24,090	3/4	39,101	3/4	54,110	3/4	69,115	3/4	84,126	3/4	99,137	3/4	114,145	3/4	129,150	3/4	144,155
9	9,719	9	24,403	9	39,413	9	54,422	9	69,428	9	84,439	9	99,450	9	114,458	9	129,463	9	144,467
1/4	10,009	1/4	24,715	1/4	39,726	1/4	54,735	1/4	69,741	1/4	84,752	1/4	99,763	1/4	114,771	1/4	129,775	1/4	144,780
1/2	10,299	1/2	25,028	1/2	40,039	1/2	55,047	1/2	70,053	1/2	85,064	1/2	100,075	1/2	115,083	1/2	130,088	1/2	145,093
3/4	10,588	3/4	25,341	3/4	40,352	3/4	55,360	3/4	70,366	3/4	85,377	3/4	100,388	3/4	115,396	3/4	130,400	3/4	145,405
10	10,878	10	25,654	10	40,664	10	55,672	10	70,679	10	85,690	10	100,701	10	115,708	10	130,713	10	145,718
1/4	11,171	1/4	25,966	1/4	40,977	1/4	55,985	1/4	70,991	1/4	86,003	1/4	101,014	1/4	116,021	1/4	131,026	1/4	146,030
1/2	11,465	1/2	26,279	1/2	41,290	1/2	56,297	1/2	71,304	1/2	86,315	1/2	101,326	1/2	116,334	1/2	131,338	1/2	146,343
3/4	11,758	3/4	26,592	3/4	41,602	3/4	56,610	3/4	71,617	3/4	86,628	3/4	101,639	3/4	116,646	3/4	131,651	3/4	146,656
11	12,052	11	26,905	11	41,915	11	56,922	11	71,930	11	86,941	11	101,952	11	116,959	11	131,963	11	146,968
1/4	12,349	1/4	27,217	1/4	42,228	1/4	57,235	1/4	72,242	1/4	87,253	1/4	102,265	1/4	117,271	1/4	132,276	1/4	147,281
1/2	12,646	1/2	27,530	1/2	42,541	1/2	57,547	1/2	72,555	1/2	87,566	1/2	102,577	1/2	117,584	1/2	132,589	1/2	147,593
3/4	12,944	3/4	27,843	3/4	42,853	3/4	57,860	3/4	72,868	3/4	87,879	3/4	102,890	3/4	117,897	3/4	132,901	3/4	147,906

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 439"

1 STBD
INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 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	148,219	0	163,223	0	178,219	0	193,180	0	208,069	0		0		0		0		0	
1/4	148,531	1/4	163,536	1/4	178,531	1/4	193,492	1/4	208,349	1/4		1/4		1/4		1/4		1/4	
1/2	148,844	1/2	163,849	1/2	178,842	1/2	193,803	1/2	208,629	1/2		1/2		1/2		1/2		1/2	
3/4	149,156	3/4	164,161	3/4	179,154	3/4	194,115	3/4	208,908	3/4		3/4		3/4		3/4		3/4	
1	149,469	1	164,474	1	179,466	1	194,427	1	209,188	1		1		1		1		1	
1/4	149,782	1/4	164,786	1/4	179,777	1/4	194,739	1/4	209,420	1/4		1/4		1/4		1/4		1/4	
1/2	150,094	1/2	165,099	1/2	180,089	1/2	195,050	1/2	209,651	1/2		1/2		1/2		1/2		1/2	
3/4	150,407	3/4	165,412	3/4	180,401	3/4	195,362	3/4	209,883	3/4		3/4		3/4		3/4		3/4	
2	150,719	2	165,724	2	180,713	2	195,674	2	210,114	2		2		2		2		2	
1/4	151,032	1/4	166,037	1/4	181,024	1/4	195,985	1/4	210,294	1/4		1/4		1/4		1/4		1/4	
1/2	151,345	1/2	166,349	1/2	181,336	1/2	196,297	1/2	210,473	1/2		1/2		1/2		1/2		1/2	
3/4	151,657	3/4	166,662	3/4	181,648	3/4	196,609	3/4	210,652	3/4		3/4		3/4		3/4		3/4	
3	151,970	3	166,975	3	181,959	3	196,920	3	210,832	3		3		3		3		3	
1/4	152,282	1/4	167,287	1/4	182,271	1/4	197,232	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,595	1/2	167,600	1/2	182,583	1/2	197,544	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,908	3/4	167,912	3/4	182,894	3/4	197,855	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,220	4	168,225	4	183,206	4	198,167	4		4		4		4		4		4	
1/4	153,533	1/4	168,538	1/4	183,518	1/4	198,479	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,845	1/2	168,850	1/2	183,829	1/2	198,790	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,158	3/4	169,163	3/4	184,141	3/4	199,102	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,471	5	169,475	5	184,453	5	199,414	5		5		5		5		5		5	
1/4	154,783	1/4	169,788	1/4	184,765	1/4	199,724	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,096	1/2	170,101	1/2	185,076	1/2	200,035	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,408	3/4	170,413	3/4	185,388	3/4	200,346	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,721	6	170,726	6	185,700	6	200,656	6		6		6		6		6		6	
1/4	156,034	1/4	171,038	1/4	186,011	1/4	200,966	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,346	1/2	171,351	1/2	186,323	1/2	201,275	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,659	3/4	171,664	3/4	186,635	3/4	201,585	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,971	7	171,976	7	186,946	7	201,895	7		7		7		7		7		7	
1/4	157,284	1/4	172,289	1/4	187,258	1/4	202,204	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,597	1/2	172,601	1/2	187,570	1/2	202,514	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,909	3/4	172,914	3/4	187,881	3/4	202,823	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,222	8	173,227	8	188,193	8	203,133	8		8		8		8		8		8	
1/4	158,534	1/4	173,539	1/4	188,505	1/4	203,443	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,847	1/2	173,852	1/2	188,816	1/2	203,752	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,160	3/4	174,164	3/4	189,128	3/4	204,062	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,472	9	174,477	9	189,440	9	204,372	9		9		9		9		9		9	
1/4	159,785	1/4	174,789	1/4	189,752	1/4	204,681	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,097	1/2	175,101	1/2	190,063	1/2	204,991	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,410	3/4	175,413	3/4	190,375	3/4	205,301	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,723	10	175,726	10	190,687	10	205,610	10		10		10		10		10		10	
1/4	161,035	1/4	176,037	1/4	190,998	1/4	205,919	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,348	1/2	176,349	1/2	191,310	1/2	206,228	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,660	3/4	176,661	3/4	191,622	3/4	206,538	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,973	11	176,972	11	191,933	11	206,847	11		11		11		11		11		11	
1/4	162,286	1/4	177,284	1/4	192,245	1/4	207,152	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,598	1/2	177,596	1/2	192,557	1/2	207,458	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,911	3/4	177,907	3/4	192,868	3/4	207,763	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
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 439"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	385	0	13,246	0	28,166	0	43,182	0	58,137	0	73,111	0	88,128	0	103,145	0	118,157	0	133,168
1/4	562	1/4	13,547	1/4	28,479	1/4	43,495	1/4	58,448	1/4	73,424	1/4	88,441	1/4	103,458	1/4	118,470	1/4	133,480
1/2	739	1/2	13,849	1/2	28,792	1/2	43,808	1/2	58,758	1/2	73,737	1/2	88,754	1/2	103,771	1/2	118,783	1/2	133,793
3/4	916	3/4	14,150	3/4	29,105	3/4	44,121	3/4	59,069	3/4	74,050	3/4	89,067	3/4	104,084	3/4	119,095	3/4	134,106
1	1,092	1	14,451	1	29,417	1	44,434	1	59,379	1	74,363	1	89,380	1	104,396	1	119,408	1	134,418
1/4	1,331	1/4	14,756	1/4	29,730	1/4	44,747	1/4	59,690	1/4	74,676	1/4	89,692	1/4	104,709	1/4	119,721	1/4	134,731
1/2	1,570	1/2	15,061	1/2	30,043	1/2	45,060	1/2	60,000	1/2	74,988	1/2	90,005	1/2	105,022	1/2	120,034	1/2	135,044
3/4	1,808	3/4	15,367	3/4	30,356	3/4	45,372	3/4	60,311	3/4	75,301	3/4	90,318	3/4	105,335	3/4	120,346	3/4	135,357
2	2,047	2	15,672	2	30,669	2	45,685	2	60,621	2	75,614	2	90,631	2	105,648	2	120,659	2	135,669
1/4	2,309	1/4	15,981	1/4	30,982	1/4	45,998	1/4	60,932	1/4	75,927	1/4	90,944	1/4	105,961	1/4	120,972	1/4	135,982
1/2	2,570	1/2	16,290	1/2	31,294	1/2	46,311	1/2	61,242	1/2	76,240	1/2	91,257	1/2	106,273	1/2	121,284	1/2	136,295
3/4	2,832	3/4	16,599	3/4	31,607	3/4	46,624	3/4	61,553	3/4	76,553	3/4	91,570	3/4	106,586	3/4	121,597	3/4	136,607
3	3,094	3	16,908	3	31,920	3	46,937	3	61,863	3	76,866	3	91,882	3	106,899	3	121,910	3	136,920
1/4	3,360	1/4	17,220	1/4	32,233	1/4	47,249	1/4	62,174	1/4	77,178	1/4	92,195	1/4	107,212	1/4	122,223	1/4	137,233
1/2	3,627	1/2	17,531	1/2	32,546	1/2	47,562	1/2	62,485	1/2	77,491	1/2	92,508	1/2	107,525	1/2	122,535	1/2	137,546
3/4	3,893	3/4	17,843	3/4	32,859	3/4	47,875	3/4	62,795	3/4	77,804	3/4	92,821	3/4	107,838	3/4	122,848	3/4	137,858
4	4,159	4	18,155	4	33,172	4	48,188	4	63,106	4	78,117	4	93,134	4	108,150	4	123,161	4	138,171
1/4	4,430	1/4	18,468	1/4	33,484	1/4	48,500	1/4	63,417	1/4	78,430	1/4	93,447	1/4	108,463	1/4	123,473	1/4	138,484
1/2	4,700	1/2	18,781	1/2	33,797	1/2	48,812	1/2	63,729	1/2	78,743	1/2	93,759	1/2	108,776	1/2	123,786	1/2	138,796
3/4	4,971	3/4	19,094	3/4	34,110	3/4	49,124	3/4	64,041	3/4	79,055	3/4	94,072	3/4	109,088	3/4	124,099	3/4	139,109
5	5,241	5	19,407	5	34,423	5	49,436	5	64,352	5	79,368	5	94,385	5	109,401	5	124,412	5	139,422
1/4	5,516	1/4	19,719	1/4	34,736	1/4	49,748	1/4	64,665	1/4	79,681	1/4	94,698	1/4	109,714	1/4	124,724	1/4	139,735
1/2	5,790	1/2	20,032	1/2	35,049	1/2	50,059	1/2	64,978	1/2	79,994	1/2	95,011	1/2	110,027	1/2	125,037	1/2	140,047
3/4	6,064	3/4	20,345	3/4	35,361	3/4	50,371	3/4	65,290	3/4	80,307	3/4	95,324	3/4	110,339	3/4	125,350	3/4	140,360
6	6,339	6	20,658	6	35,674	6	50,682	6	65,603	6	80,620	6	95,637	6	110,652	6	125,662	6	140,673
1/4	6,617	1/4	20,971	1/4	35,987	1/4	50,993	1/4	65,916	1/4	80,933	1/4	95,949	1/4	110,965	1/4	125,975	1/4	140,985
1/2	6,895	1/2	21,284	1/2	36,300	1/2	51,304	1/2	66,229	1/2	81,245	1/2	96,262	1/2	111,277	1/2	126,288	1/2	141,298
3/4	7,173	3/4	21,596	3/4	36,613	3/4	51,616	3/4	66,541	3/4	81,558	3/4	96,575	3/4	111,590	3/4	126,601	3/4	141,611
7	7,451	7	21,909	7	36,926	7	51,927	7	66,854	7	81,871	7	96,888	7	111,903	7	126,913	7	141,924
1/4	7,733	1/4	22,222	1/4	37,238	1/4	52,237	1/4	67,167	1/4	82,184	1/4	97,201	1/4	112,216	1/4	127,226	1/4	142,236
1/2	8,015	1/2	22,535	1/2	37,551	1/2	52,548	1/2	67,480	1/2	82,497	1/2	97,514	1/2	112,528	1/2	127,539	1/2	142,549
3/4	8,297	3/4	22,848	3/4	37,864	3/4	52,859	3/4	67,793	3/4	82,810	3/4	97,827	3/4	112,841	3/4	127,851	3/4	142,862
8	8,579	8	23,161	8	38,177	8	53,170	8	68,106	8	83,123	8	98,139	8	113,154	8	128,164	8	143,174
1/4	8,865	1/4	23,473	1/4	38,490	1/4	53,480	1/4	68,419	1/4	83,435	1/4	98,452	1/4	113,466	1/4	128,477	1/4	143,487
1/2	9,151	1/2	23,786	1/2	38,803	1/2	53,790	1/2	68,731	1/2	83,748	1/2	98,765	1/2	113,779	1/2	128,790	1/2	143,800
3/4	9,437	3/4	24,099	3/4	39,116	3/4	54,101	3/4	69,044	3/4	84,061	3/4	99,078	3/4	114,092	3/4	129,102	3/4	144,113
9	9,723	9	24,412	9	39,428	9	54,411	9	69,357	9	84,374	9	99,391	9	114,405	9	129,415	9	144,425
1/4	10,013	1/4	24,725	1/4	39,741	1/4	54,722	1/4	69,670	1/4	84,687	1/4	99,704	1/4	114,717	1/4	129,728	1/4	144,738
1/2	10,302	1/2	25,038	1/2	40,054	1/2	55,032	1/2	69,983	1/2	85,000	1/2	100,016	1/2	115,030	1/2	130,040	1/2	145,051
3/4	10,592	3/4	25,351	3/4	40,367	3/4	55,343	3/4	70,296	3/4	85,313	3/4	100,329	3/4	115,343	3/4	130,353	3/4	145,363
10	10,882	10	25,663	10	40,680	10	55,653	10	70,609	10	85,625	10	100,642	10	115,655	10	130,666	10	145,676
1/4	11,175	1/4	25,976	1/4	40,993	1/4	55,964	1/4	70,921	1/4	85,938	1/4	100,955	1/4	115,968	1/4	130,979	1/4	145,989
1/2	11,469	1/2	26,289	1/2	41,305	1/2	56,274	1/2	71,234	1/2	86,251	1/2	101,268	1/2	116,281	1/2	131,291	1/2	146,302
3/4	11,763	3/4	26,602	3/4	41,618	3/4	56,585	3/4	71,547	3/4	86,564	3/4	101,581	3/4	116,594	3/4	131,604	3/4	146,614
11	12,056	11	26,915	11	41,931	11	56,895	11	71,860	11	86,877	11	101,894	11	116,906	11	131,917	11	146,927
1/4	12,354	1/4	27,228	1/4	42,244	1/4	57,206	1/4	72,173	1/4	87,190	1/4	102,206	1/4	117,219	1/4	132,229	1/4	147,240
1/2	12,651	1/2	27,540	1/2	42,557	1/2	57,516	1/2	72,486	1/2	87,502	1/2	102,519	1/2	117,532	1/2	132,542	1/2	147,552
3/4	12,949	3/4	27,853	3/4	42,870	3/4	57,827	3/4	72,798	3/4	87,815	3/4	102,832	3/4	117,844	3/4	132,855	3/4	147,865

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 439"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 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	148,178	0	163,188	0	178,189	0	193,156	0	208,050	0		0		0		0		0	
1/4	148,491	1/4	163,501	1/4	178,501	1/4	193,468	1/4	208,330	1/4		1/4		1/4		1/4		1/4	
1/2	148,803	1/2	163,814	1/2	178,813	1/2	193,780	1/2	208,610	1/2		1/2		1/2		1/2		1/2	
3/4	149,116	3/4	164,126	3/4	179,125	3/4	194,091	3/4	208,890	3/4		3/4		3/4		3/4		3/4	
1	149,429	1	164,439	1	179,437	1	194,403	1	209,170	1		1		1		1		1	
1/4	149,741	1/4	164,752	1/4	179,748	1/4	194,715	1/4	209,402	1/4		1/4		1/4		1/4		1/4	
1/2	150,054	1/2	165,064	1/2	180,060	1/2	195,027	1/2	209,633	1/2		1/2		1/2		1/2		1/2	
3/4	150,367	3/4	165,377	3/4	180,372	3/4	195,339	3/4	209,865	3/4		3/4		3/4		3/4		3/4	
2	150,680	2	165,690	2	180,684	2	195,650	2	210,096	2		2		2		2		2	
1/4	150,992	1/4	166,003	1/4	180,996	1/4	195,962	1/4	210,276	1/4		1/4		1/4		1/4		1/4	
1/2	151,305	1/2	166,315	1/2	181,307	1/2	196,274	1/2	210,455	1/2		1/2		1/2		1/2		1/2	
3/4	151,618	3/4	166,628	3/4	181,619	3/4	196,586	3/4	210,635	3/4		3/4		3/4		3/4		3/4	
3	151,930	3	166,941	3	181,931	3	196,898	3	210,814	3		3		3		3		3	
1/4	152,243	1/4	167,253	1/4	182,243	1/4	197,209	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,556	1/2	167,566	1/2	182,555	1/2	197,521	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,869	3/4	167,879	3/4	182,866	3/4	197,833	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,181	4	168,192	4	183,178	4	198,145	4		4		4		4		4		4	
1/4	153,494	1/4	168,504	1/4	183,490	1/4	198,457	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,807	1/2	168,817	1/2	183,802	1/2	198,768	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,119	3/4	169,130	3/4	184,114	3/4	199,080	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,432	5	169,442	5	184,425	5	199,392	5		5		5		5		5		5	
1/4	154,745	1/4	169,755	1/4	184,737	1/4	199,703	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,058	1/2	170,068	1/2	185,049	1/2	200,013	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,370	3/4	170,381	3/4	185,361	3/4	200,324	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,683	6	170,693	6	185,673	6	200,635	6		6		6		6		6		6	
1/4	155,996	1/4	171,006	1/4	185,984	1/4	200,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,308	1/2	171,319	1/2	186,296	1/2	201,254	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,621	3/4	171,631	3/4	186,608	3/4	201,564	3/4		3/4		3/4		3/4		3/4		3/4	
7	156,934	7	171,944	7	186,920	7	201,874	7		7		7		7		7		7	
1/4	157,247	1/4	172,257	1/4	187,232	1/4	202,183	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,559	1/2	172,570	1/2	187,543	1/2	202,493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,872	3/4	172,882	3/4	187,855	3/4	202,803	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,185	8	173,195	8	188,167	8	203,113	8		8		8		8		8		8	
1/4	158,497	1/4	173,508	1/4	188,479	1/4	203,422	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,810	1/2	173,820	1/2	188,791	1/2	203,732	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,123	3/4	174,133	3/4	189,102	3/4	204,042	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,436	9	174,446	9	189,414	9	204,352	9		9		9		9		9		9	
1/4	159,748	1/4	174,758	1/4	189,726	1/4	204,661	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,061	1/2	175,070	1/2	190,038	1/2	204,971	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,374	3/4	175,383	3/4	190,350	3/4	205,281	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,686	10	175,695	10	190,662	10	205,591	10		10		10		10		10		10	
1/4	160,999	1/4	176,007	1/4	190,973	1/4	205,900	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,312	1/2	176,319	1/2	191,285	1/2	206,209	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,625	3/4	176,630	3/4	191,597	3/4	206,518	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,937	11	176,942	11	191,909	11	206,828	11		11		11		11		11		11	
1/4	162,250	1/4	177,254	1/4	192,221	1/4	207,133	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,563	1/2	177,566	1/2	192,532	1/2	207,439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,875	3/4	177,878	3/4	192,844	3/4	207,745	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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Pearland, Texas 77588
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BARGE "HFL 439"

STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11 1/2"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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BARGE "HFL 439"

PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-11 1/2"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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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 OF 2" HERMETIC VALVE

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Pearland, Texas 77588
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BARGE "HFL 439"

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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