



BARGE "HFL 477"

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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
1 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
2 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4

(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 1 PORT IS - 00-3/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 235'-00"

April 7, 2025

**PRECISION MEASUREMENT
 & ANALYSIS, INC.**
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 477"

**1 PORT
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 1/2"

Table with columns for depth (0 to 11 FT) and gauge height (0 to 9 FT). Each cell contains capacity values for different draft conditions (1/4, 1/2, 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 LIP OF 2" "HERMETIC" VALVE. GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-03" FORWARD OF AFT BULKHEAD.

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





BARGE "HFL 477"

1 PORT INNAGE TABLE

GRAIN MEASURE IN US GALLONS

GAUGE HEIGHT 15'-04 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	143,426	0	158,415	0	173,359	0	187,831	0	201,647	0		0		0		0		0	
1/4	143,739	1/4	158,727	1/4	173,667	1/4	188,125	1/4	201,925	1/4		1/4		1/4		1/4		1/4	
1/2	144,051	1/2	159,040	1/2	173,974	1/2	188,420	1/2	202,203	1/2		1/2		1/2		1/2		1/2	
3/4	144,363	3/4	159,352	3/4	174,281	3/4	188,714	3/4	202,481	3/4		3/4		3/4		3/4		3/4	
1	144,676	1	159,664	1	174,589	1	189,009	1	202,759	1		1		1		1		1	
1/4	144,988	1/4	159,977	1/4	174,895	1/4	189,302	1/4	203,036	1/4		1/4		1/4		1/4		1/4	
1/2	145,300	1/2	160,289	1/2	175,201	1/2	189,596	1/2	203,312	1/2		1/2		1/2		1/2		1/2	
3/4	145,612	3/4	160,601	3/4	175,507	3/4	189,889	3/4	203,589	3/4		3/4		3/4		3/4		3/4	
2	145,925	2	160,913	2	175,814	2	190,182	2	203,866	2		2		2		2		2	
1/4	146,237	1/4	161,226	1/4	176,119	1/4	190,475	1/4	204,142	1/4		1/4		1/4		1/4		1/4	
1/2	146,549	1/2	161,538	1/2	176,424	1/2	190,767	1/2	204,417	1/2		1/2		1/2		1/2		1/2	
3/4	146,861	3/4	161,850	3/4	176,729	3/4	191,059	3/4	204,693	3/4		3/4		3/4		3/4		3/4	
3	147,174	3	162,162	3	177,034	3	191,352	3	204,969	3		3		3		3		3	
1/4	147,486	1/4	162,475	1/4	177,338	1/4	191,643	1/4	205,258	1/4		1/4		1/4		1/4		1/4	
1/2	147,798	1/2	162,787	1/2	177,642	1/2	191,934	1/2	205,548	1/2		1/2		1/2		1/2		1/2	
3/4	148,110	3/4	163,099	3/4	177,946	3/4	192,225	3/4	205,837	3/4		3/4		3/4		3/4		3/4	
4	148,423	4	163,411	4	178,251	4	192,516	4	206,127	4		4		4		4		4	
1/4	148,735	1/4	163,724	1/4	178,554	1/4	192,807	1/4	206,364	1/4		1/4		1/4		1/4		1/4	
1/2	149,047	1/2	164,036	1/2	178,857	1/2	193,097	1/2	206,601	1/2		1/2		1/2		1/2		1/2	
3/4	149,360	3/4	164,348	3/4	179,160	3/4	193,387	3/4	206,839	3/4		3/4		3/4		3/4		3/4	
5	149,672	5	164,661	5	179,463	5	193,677	5	207,076	5		5		5		5		5	
1/4	149,984	1/4	164,972	1/4	179,765	1/4	193,966	1/4	207,238	1/4		1/4		1/4		1/4		1/4	
1/2	150,296	1/2	165,284	1/2	180,067	1/2	194,255	1/2	207,399	1/2		1/2		1/2		1/2		1/2	
3/4	150,609	3/4	165,596	3/4	180,369	3/4	194,544	3/4	207,560	3/4		3/4		3/4		3/4		3/4	
6	150,921	6	165,908	6	180,671	6	194,833	6		6		6		6		6		6	
1/4	151,233	1/4	166,220	1/4	180,972	1/4	195,121	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,545	1/2	166,531	1/2	181,273	1/2	195,409	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,858	3/4	166,843	3/4	181,575	3/4	195,697	3/4		3/4		3/4		3/4		3/4		3/4	
7	152,170	7	167,154	7	181,876	7	195,985	7		7		7		7		7		7	
1/4	152,482	1/4	167,466	1/4	182,176	1/4	196,272	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,794	1/2	167,777	1/2	182,475	1/2	196,559	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,107	3/4	168,089	3/4	182,775	3/4	196,846	3/4		3/4		3/4		3/4		3/4		3/4	
8	153,419	8	168,400	8	183,075	8	197,132	8		8		8		8		8		8	
1/4	153,731	1/4	168,711	1/4	183,374	1/4	197,418	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,044	1/2	169,023	1/2	183,673	1/2	197,704	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,356	3/4	169,334	3/4	183,972	3/4	197,990	3/4		3/4		3/4		3/4		3/4		3/4	
9	154,668	9	169,645	9	184,271	9	198,276	9		9		9		9		9		9	
1/4	154,980	1/4	169,956	1/4	184,569	1/4	198,560	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,293	1/2	170,266	1/2	184,866	1/2	198,843	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,605	3/4	170,577	3/4	185,164	3/4	199,126	3/4		3/4		3/4		3/4		3/4		3/4	
10	155,917	10	170,887	10	185,462	10	199,410	10		10		10		10		10		10	
1/4	156,229	1/4	171,197	1/4	185,759	1/4	199,690	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,542	1/2	171,506	1/2	186,055	1/2	199,970	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,854	3/4	171,816	3/4	186,352	3/4	200,251	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,166	11	172,126	11	186,649	11	200,531	11		11		11		11		11		11	
1/4	157,478	1/4	172,434	1/4	186,944	1/4	200,810	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,791	1/2	172,742	1/2	187,240	1/2	201,089	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,103	3/4	173,051	3/4	187,535	3/4	201,368	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
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PRECISION MEASUREMENT
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

**1 STBD
INNAGE TABLE**

GRAIN MEASURE IN US GALLONS

GAUGE HEIGHT 15'-05 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	143,816	0	158,835	0	173,808	0	188,310	0	202,457	0		0		0		0		0	
1/4	144,129	1/4	159,148	1/4	174,116	1/4	188,605	1/4	202,435	1/4		1/4		1/4		1/4		1/4	
1/2	144,442	1/2	159,460	1/2	174,424	1/2	188,900	1/2	202,714	1/2		1/2		1/2		1/2		1/2	
3/4	144,755	3/4	159,773	3/4	174,732	3/4	189,195	3/4	202,992	3/4		3/4		3/4		3/4		3/4	
1	145,068	1	160,086	1	175,040	1	189,491	1	203,271	1		1		1		1		1	
1/4	145,381	1/4	160,399	1/4	175,347	1/4	189,785	1/4	203,548	1/4		1/4		1/4		1/4		1/4	
1/2	145,693	1/2	160,712	1/2	175,654	1/2	190,079	1/2	203,826	1/2		1/2		1/2		1/2		1/2	
3/4	146,006	3/4	161,025	3/4	175,961	3/4	190,373	3/4	204,103	3/4		3/4		3/4		3/4		3/4	
2	146,319	2	161,338	2	176,268	2	190,667	2	204,381	2		2		2		2		2	
1/4	146,632	1/4	161,651	1/4	176,574	1/4	190,960	1/4	204,657	1/4		1/4		1/4		1/4		1/4	
1/2	146,945	1/2	161,963	1/2	176,879	1/2	191,253	1/2	204,934	1/2		1/2		1/2		1/2		1/2	
3/4	147,258	3/4	162,276	3/4	177,185	3/4	191,545	3/4	205,210	3/4		3/4		3/4		3/4		3/4	
3	147,571	3	162,589	3	177,491	3	191,838	3	205,486	3		3		3		3		3	
1/4	147,884	1/4	162,902	1/4	177,796	1/4	192,130	1/4	205,776	1/4		1/4		1/4		1/4		1/4	
1/2	148,197	1/2	163,215	1/2	178,100	1/2	192,422	1/2	206,066	1/2		1/2		1/2		1/2		1/2	
3/4	148,509	3/4	163,528	3/4	178,405	3/4	192,714	3/4	206,356	3/4		3/4		3/4		3/4		3/4	
4	148,822	4	163,841	4	178,710	4	193,006	4	206,647	4		4		4		4		4	
1/4	149,135	1/4	164,154	1/4	179,013	1/4	193,297	1/4	206,884	1/4		1/4		1/4		1/4		1/4	
1/2	149,448	1/2	164,467	1/2	179,317	1/2	193,587	1/2	207,122	1/2		1/2		1/2		1/2		1/2	
3/4	149,761	3/4	164,779	3/4	179,621	3/4	193,878	3/4	207,360	3/4		3/4		3/4		3/4		3/4	
5	150,074	5	165,092	5	179,924	5	194,169	5	207,598	5		5		5		5		5	
1/4	150,387	1/4	165,405	1/4	180,227	1/4	194,458	1/4	207,760	1/4		1/4		1/4		1/4		1/4	
1/2	150,700	1/2	165,717	1/2	180,530	1/2	194,748	1/2	207,922	1/2		1/2		1/2		1/2		1/2	
3/4	151,013	3/4	166,030	3/4	180,833	3/4	195,038	3/4	208,083	3/4		3/4		3/4		3/4		3/4	
6	151,325	6	166,342	6	181,135	6	195,327	6		6		6		6		6		6	
1/4	151,638	1/4	166,655	1/4	181,437	1/4	195,616	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,951	1/2	166,967	1/2	181,739	1/2	195,904	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,264	3/4	167,279	3/4	182,041	3/4	196,193	3/4		3/4		3/4		3/4		3/4		3/4	
7	152,577	7	167,591	7	182,342	7	196,482	7		7		7		7		7		7	
1/4	152,890	1/4	167,903	1/4	182,643	1/4	196,769	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,203	1/2	168,215	1/2	182,943	1/2	197,057	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,516	3/4	168,527	3/4	183,244	3/4	197,344	3/4		3/4		3/4		3/4		3/4		3/4	
8	153,828	8	168,839	8	183,545	8	197,632	8		8		8		8		8		8	
1/4	154,141	1/4	169,151	1/4	183,844	1/4	197,919	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,454	1/2	169,463	1/2	184,144	1/2	198,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,767	3/4	169,775	3/4	184,443	3/4	198,492	3/4		3/4		3/4		3/4		3/4		3/4	
9	155,080	9	170,087	9	184,742	9	198,778	9		9		9		9		9		9	
1/4	155,393	1/4	170,398	1/4	185,041	1/4	199,062	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,706	1/2	170,709	1/2	185,339	1/2	199,346	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,019	3/4	171,020	3/4	185,638	3/4	199,630	3/4		3/4		3/4		3/4		3/4		3/4	
10	156,332	10	171,332	10	185,936	10	199,914	10		10		10		10		10		10	
1/4	156,644	1/4	171,642	1/4	186,233	1/4	200,195	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,957	1/2	171,952	1/2	186,531	1/2	200,476	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,270	3/4	172,262	3/4	186,828	3/4	200,757	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,583	11	172,572	11	187,125	11	201,038	11		11		11		11		11		11	
1/4	157,896	1/4	172,881	1/4	187,422	1/4	201,318	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,209	1/2	173,190	1/2	187,718	1/2	201,597	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,522	3/4	173,499	3/4	188,014	3/4	201,877	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

Table with columns for depth (0 to 11 FT) and gauging (0, 1/4, 1/2, 3/4) and rows for capacity in whole gallons.

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 40'-03" FORWARD OF AFT BULKHEAD.

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BARGE "HFL 477"

2 PORT INNAGE TABLE

GRAIN MEASUREMENT IN US GALLONS

GAUGE HEIGHT 15'-05"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	150,260	0	165,360	0	180,416	0	194,997	0	208,919	0		0		0		0		0	
1/4	150,574	1/4	165,675	1/4	180,726	1/4	195,294	1/4	209,200	1/4		1/4		1/4		1/4		1/4	
1/2	150,889	1/2	165,989	1/2	181,036	1/2	195,591	1/2	209,480	1/2		1/2		1/2		1/2		1/2	
3/4	151,203	3/4	166,304	3/4	181,345	3/4	195,888	3/4	209,760	3/4		3/4		3/4		3/4		3/4	
1	151,518	1	166,619	1	181,655	1	196,184	1	210,040	1		1		1		1		1	
1/4	151,833	1/4	166,933	1/4	181,963	1/4	196,480	1/4	210,319	1/4		1/4		1/4		1/4		1/4	
1/2	152,147	1/2	167,248	1/2	182,272	1/2	196,776	1/2	210,598	1/2		1/2		1/2		1/2		1/2	
3/4	152,462	3/4	167,562	3/4	182,580	3/4	197,071	3/4	210,877	3/4		3/4		3/4		3/4		3/4	
2	152,776	2	167,877	2	182,889	2	197,367	2	211,156	2		2		2		2		2	
1/4	153,091	1/4	168,192	1/4	183,197	1/4	197,661	1/4	211,434	1/4		1/4		1/4		1/4		1/4	
1/2	153,406	1/2	168,506	1/2	183,504	1/2	197,956	1/2	211,711	1/2		1/2		1/2		1/2		1/2	
3/4	153,720	3/4	168,821	3/4	183,811	3/4	198,250	3/4	211,989	3/4		3/4		3/4		3/4		3/4	
3	154,035	3	169,135	3	184,119	3	198,545	3	212,267	3		3		3		3		3	
1/4	154,349	1/4	169,450	1/4	184,425	1/4	198,838	1/4	212,559	1/4		1/4		1/4		1/4		1/4	
1/2	154,664	1/2	169,765	1/2	184,732	1/2	199,132	1/2	212,850	1/2		1/2		1/2		1/2		1/2	
3/4	154,979	3/4	170,079	3/4	185,038	3/4	199,425	3/4	213,142	3/4		3/4		3/4		3/4		3/4	
4	155,293	4	170,394	4	185,344	4	199,719	4	213,434	4		4		4		4		4	
1/4	155,608	1/4	170,708	1/4	185,650	1/4	200,011	1/4	213,673	1/4		1/4		1/4		1/4		1/4	
1/2	155,922	1/2	171,023	1/2	185,955	1/2	200,303	1/2	213,912	1/2		1/2		1/2		1/2		1/2	
3/4	156,237	3/4	171,338	3/4	186,260	3/4	200,596	3/4	214,151	3/4		3/4		3/4		3/4		3/4	
5	156,552	5	171,652	5	186,566	5	200,888	5	214,391	5		5		5		5		5	
1/4	156,866	1/4	171,967	1/4	186,870	1/4	201,179	1/4	214,553	1/4		1/4		1/4		1/4		1/4	
1/2	157,181	1/2	172,281	1/2	187,175	1/2	201,470	1/2	214,716	1/2		1/2		1/2		1/2		1/2	
3/4	157,495	3/4	172,595	3/4	187,479	3/4	201,762	3/4	214,878	3/4		3/4		3/4		3/4		3/4	
6	157,810	6	172,909	6	187,783	6	202,053	6		6		6		6		6		6	
1/4	158,125	1/4	173,223	1/4	188,087	1/4	202,343	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,439	1/2	173,537	1/2	188,390	1/2	202,633	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,754	3/4	173,851	3/4	188,693	3/4	202,923	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,068	7	174,165	7	188,997	7	203,213	7		7		7		7		7		7	
1/4	159,383	1/4	174,478	1/4	189,299	1/4	203,503	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,698	1/2	174,792	1/2	189,601	1/2	203,792	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,012	3/4	175,106	3/4	189,903	3/4	204,081	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,327	8	175,420	8	190,206	8	204,370	8		8		8		8		8		8	
1/4	160,641	1/4	175,733	1/4	190,507	1/4	204,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,956	1/2	176,047	1/2	190,808	1/2	204,946	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,271	3/4	176,361	3/4	191,109	3/4	205,235	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,585	9	176,674	9	191,410	9	205,523	9		9		9		9		9		9	
1/4	161,900	1/4	176,987	1/4	191,710	1/4	205,808	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,214	1/2	177,300	1/2	192,010	1/2	206,094	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,529	3/4	177,613	3/4	192,310	3/4	206,379	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,844	10	177,926	10	192,610	10	206,665	10		10		10		10		10		10	
1/4	163,158	1/4	178,238	1/4	192,909	1/4	206,947	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,473	1/2	178,549	1/2	193,208	1/2	207,230	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,787	3/4	178,861	3/4	193,507	3/4	207,512	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,102	11	179,173	11	193,806	11	207,795	11		11		11		11		11		11	
1/4	164,417	1/4	179,484	1/4	194,104	1/4	208,076	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,731	1/2	179,795	1/2	194,402	1/2	208,357	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,046	3/4	180,105	3/4	194,700	3/4	208,638	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

P.O. Box 2092
Pearland, Texas 77588
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BARGE "HFL 477"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	588	0	14,982	0	30,078	0	45,196	0	60,318	0	75,440	0	90,562	0	105,685	0	120,807	0	135,929
1/4	776	1/4	15,297	1/4	30,393	1/4	45,511	1/4	60,633	1/4	75,755	1/4	90,877	1/4	106,000	1/4	121,122	1/4	136,244
1/2	963	1/2	15,612	1/2	30,707	1/2	45,826	1/2	60,948	1/2	76,070	1/2	91,193	1/2	106,315	1/2	121,437	1/2	136,559
3/4	1,150	3/4	15,927	3/4	31,021	3/4	46,141	3/4	61,263	3/4	76,386	3/4	91,508	3/4	106,630	3/4	121,752	3/4	136,874
1	1,337	1	16,242	1	31,335	1	46,456	1	61,579	1	76,701	1	91,823	1	106,945	1	122,067	1	137,189
1/4	1,603	1/4	16,557	1/4	31,650	1/4	46,772	1/4	61,894	1/4	77,016	1/4	92,138	1/4	107,260	1/4	122,382	1/4	137,504
1/2	1,868	1/2	16,872	1/2	31,965	1/2	47,087	1/2	62,209	1/2	77,331	1/2	92,453	1/2	107,575	1/2	122,697	1/2	137,819
3/4	2,134	3/4	17,187	3/4	32,280	3/4	47,402	3/4	62,524	3/4	77,646	3/4	92,768	3/4	107,890	3/4	123,012	3/4	138,134
2	2,400	2	17,502	2	32,595	2	47,717	2	62,839	2	77,961	2	93,083	2	108,205	2	123,327	2	138,449
1/4	2,710	1/4	17,817	1/4	32,910	1/4	48,032	1/4	63,154	1/4	78,276	1/4	93,398	1/4	108,520	1/4	123,642	1/4	138,764
1/2	3,020	1/2	18,132	1/2	33,225	1/2	48,347	1/2	63,469	1/2	78,591	1/2	93,713	1/2	108,835	1/2	123,957	1/2	139,079
3/4	3,331	3/4	18,447	3/4	33,540	3/4	48,662	3/4	63,784	3/4	78,906	3/4	94,028	3/4	109,150	3/4	124,272	3/4	139,394
3	3,641	3	18,762	3	33,855	3	48,977	3	64,099	3	79,221	3	94,343	3	109,465	3	124,587	3	139,709
1/4	3,956	1/4	19,077	1/4	34,170	1/4	49,292	1/4	64,414	1/4	79,536	1/4	94,658	1/4	109,780	1/4	124,902	1/4	140,024
1/2	4,271	1/2	19,392	1/2	34,485	1/2	49,607	1/2	64,729	1/2	79,851	1/2	94,973	1/2	110,095	1/2	125,217	1/2	140,339
3/4	4,586	3/4	19,707	3/4	34,800	3/4	49,922	3/4	65,044	3/4	80,166	3/4	95,288	3/4	110,410	3/4	125,532	3/4	140,654
4	4,901	4	20,022	4	35,115	4	50,237	4	65,359	4	80,481	4	95,603	4	110,725	4	125,847	4	140,969
1/4	5,216	1/4	20,337	1/4	35,430	1/4	50,552	1/4	65,674	1/4	80,796	1/4	95,918	1/4	111,040	1/4	126,162	1/4	141,284
1/2	5,531	1/2	20,652	1/2	35,745	1/2	50,867	1/2	65,989	1/2	81,111	1/2	96,233	1/2	111,355	1/2	126,477	1/2	141,599
3/4	5,846	3/4	20,968	3/4	36,060	3/4	51,182	3/4	66,304	3/4	81,426	3/4	96,548	3/4	111,670	3/4	126,792	3/4	141,914
5	6,161	5	21,283	5	36,375	5	51,497	5	66,619	5	81,741	5	96,863	5	111,985	5	127,107	5	142,229
1/4	6,476	1/4	21,597	1/4	36,690	1/4	51,812	1/4	66,934	1/4	82,056	1/4	97,178	1/4	112,300	1/4	127,422	1/4	142,545
1/2	6,791	1/2	21,911	1/2	37,005	1/2	52,127	1/2	67,249	1/2	82,371	1/2	97,493	1/2	112,615	1/2	127,737	1/2	142,860
3/4	7,106	3/4	22,225	3/4	37,320	3/4	52,442	3/4	67,564	3/4	82,686	3/4	97,808	3/4	112,930	3/4	128,053	3/4	143,175
6	7,421	6	22,539	6	37,635	6	52,757	6	67,879	6	83,001	6	98,123	6	113,246	6	128,368	6	143,490
1/4	7,736	1/4	22,854	1/4	37,950	1/4	53,072	1/4	68,194	1/4	83,316	1/4	98,439	1/4	113,561	1/4	128,683	1/4	143,805
1/2	8,051	1/2	23,168	1/2	38,265	1/2	53,387	1/2	68,509	1/2	83,632	1/2	98,754	1/2	113,876	1/2	128,998	1/2	144,120
3/4	8,366	3/4	23,482	3/4	38,580	3/4	53,702	3/4	68,825	3/4	83,947	3/4	99,069	3/4	114,191	3/4	129,313	3/4	144,435
7	8,681	7	23,796	7	38,895	7	54,018	7	69,140	7	84,262	7	99,384	7	114,506	7	129,628	7	144,750
1/4	8,996	1/4	24,110	1/4	39,210	1/4	54,333	1/4	69,455	1/4	84,577	1/4	99,699	1/4	114,821	1/4	129,943	1/4	145,065
1/2	9,311	1/2	24,424	1/2	39,526	1/2	54,648	1/2	69,770	1/2	84,892	1/2	100,014	1/2	115,136	1/2	130,258	1/2	145,380
3/4	9,626	3/4	24,738	3/4	39,841	3/4	54,963	3/4	70,085	3/4	85,207	3/4	100,329	3/4	115,451	3/4	130,573	3/4	145,695
8	9,941	8	25,052	8	40,156	8	55,278	8	70,400	8	85,522	8	100,644	8	115,766	8	130,888	8	146,010
1/4	10,256	1/4	25,367	1/4	40,471	1/4	55,593	1/4	70,715	1/4	85,837	1/4	100,959	1/4	116,081	1/4	131,203	1/4	146,325
1/2	10,571	1/2	25,681	1/2	40,786	1/2	55,908	1/2	71,030	1/2	86,152	1/2	101,274	1/2	116,396	1/2	131,518	1/2	146,640
3/4	10,886	3/4	25,995	3/4	41,101	3/4	56,223	3/4	71,345	3/4	86,467	3/4	101,589	3/4	116,711	3/4	131,833	3/4	146,955
9	11,201	9	26,309	9	41,416	9	56,538	9	71,660	9	86,782	9	101,904	9	117,026	9	132,148	9	147,270
1/4	11,517	1/4	26,623	1/4	41,731	1/4	56,853	1/4	71,975	1/4	87,097	1/4	102,219	1/4	117,341	1/4	132,463	1/4	147,585
1/2	11,832	1/2	26,937	1/2	42,046	1/2	57,168	1/2	72,290	1/2	87,412	1/2	102,534	1/2	117,656	1/2	132,778	1/2	147,900
3/4	12,147	3/4	27,251	3/4	42,361	3/4	57,483	3/4	72,605	3/4	87,727	3/4	102,849	3/4	117,971	3/4	133,093	3/4	148,215
10	12,462	10	27,565	10	42,676	10	57,798	10	72,920	10	88,042	10	103,164	10	118,286	10	133,408	10	148,530
1/4	12,777	1/4	27,880	1/4	42,991	1/4	58,113	1/4	73,235	1/4	88,357	1/4	103,479	1/4	118,601	1/4	133,723	1/4	148,845
1/2	13,092	1/2	28,194	1/2	43,306	1/2	58,428	1/2	73,550	1/2	88,672	1/2	103,794	1/2	118,916	1/2	134,038	1/2	149,160
3/4	13,407	3/4	28,508	3/4	43,621	3/4	58,743	3/4	73,865	3/4	88,987	3/4	104,109	3/4	119,231	3/4	134,353	3/4	149,475
11	13,722	11	28,822	11	43,936	11	59,058	11	74,180	11	89,302	11	104,424	11	119,546	11	134,668	11	149,790
1/4	14,037	1/4	29,136	1/4	44,251	1/4	59,373	1/4	74,495	1/4	89,617	1/4	104,739	1/4	119,861	1/4	134,983	1/4	150,106
1/2	14,352	1/2	29,450	1/2	44,566	1/2	59,688	1/2	74,810	1/2	89,932	1/2	105,054	1/2	120,176	1/2	135,299	1/2	150,421
3/4	14,667	3/4	29,764	3/4	44,881	3/4	60,003	3/4	75,125	3/4	90,247	3/4	105,369	3/4	120,492	3/4	135,614	3/4	150,736

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 40'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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BARGE "HFL 477"

2 STBD INNAGE TABLE

CU YARDS TO SINGLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	151,051	0	166,173	0	181,250	0	195,851	0	209,792	0		0		0		0		0	
1/4	151,366	1/4	166,488	1/4	181,560	1/4	196,148	1/4	210,072	1/4		1/4		1/4		1/4		1/4	
1/2	151,681	1/2	166,803	1/2	181,870	1/2	196,445	1/2	210,353	1/2		1/2		1/2		1/2		1/2	
3/4	151,996	3/4	167,118	3/4	182,180	3/4	196,742	3/4	210,633	3/4		3/4		3/4		3/4		3/4	
1	152,311	1	167,433	1	182,490	1	197,040	1	210,914	1		1		1		1		1	
1/4	152,626	1/4	167,748	1/4	182,799	1/4	197,336	1/4	211,193	1/4		1/4		1/4		1/4		1/4	
1/2	152,941	1/2	168,063	1/2	183,108	1/2	197,632	1/2	211,472	1/2		1/2		1/2		1/2		1/2	
3/4	153,256	3/4	168,378	3/4	183,417	3/4	197,928	3/4	211,752	3/4		3/4		3/4		3/4		3/4	
2	153,571	2	168,693	2	183,726	2	198,224	2	212,031	2		2		2		2		2	
1/4	153,886	1/4	169,008	1/4	184,034	1/4	198,519	1/4	212,309	1/4		1/4		1/4		1/4		1/4	
1/2	154,201	1/2	169,323	1/2	184,342	1/2	198,814	1/2	212,587	1/2		1/2		1/2		1/2		1/2	
3/4	154,516	3/4	169,638	3/4	184,650	3/4	199,109	3/4	212,866	3/4		3/4		3/4		3/4		3/4	
3	154,831	3	169,953	3	184,958	3	199,403	3	213,144	3		3		3		3		3	
1/4	155,146	1/4	170,268	1/4	185,264	1/4	199,697	1/4	213,436	1/4		1/4		1/4		1/4		1/4	
1/2	155,461	1/2	170,583	1/2	185,571	1/2	199,991	1/2	213,728	1/2		1/2		1/2		1/2		1/2	
3/4	155,776	3/4	170,898	3/4	185,878	3/4	200,285	3/4	214,020	3/4		3/4		3/4		3/4		3/4	
4	156,091	4	171,213	4	186,185	4	200,579	4	214,312	4		4		4		4		4	
1/4	156,406	1/4	171,528	1/4	186,491	1/4	200,871	1/4	214,552	1/4		1/4		1/4		1/4		1/4	
1/2	156,721	1/2	171,843	1/2	186,796	1/2	201,164	1/2	214,791	1/2		1/2		1/2		1/2		1/2	
3/4	157,036	3/4	172,159	3/4	187,102	3/4	201,457	3/4	215,031	3/4		3/4		3/4		3/4		3/4	
5	157,352	5	172,474	5	187,408	5	201,750	5	215,270	5		5		5		5		5	
1/4	157,667	1/4	172,788	1/4	187,713	1/4	202,041	1/4	215,433	1/4		1/4		1/4		1/4		1/4	
1/2	157,982	1/2	173,103	1/2	188,018	1/2	202,333	1/2	215,596	1/2		1/2		1/2		1/2		1/2	
3/4	158,297	3/4	173,418	3/4	188,322	3/4	202,625	3/4	215,759	3/4		3/4		3/4		3/4		3/4	
6	158,612	6	173,732	6	188,627	6	202,916	6		6		6		6		6		6	
1/4	158,927	1/4	174,047	1/4	188,931	1/4	203,207	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,242	1/2	174,361	1/2	189,235	1/2	203,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,557	3/4	174,675	3/4	189,539	3/4	203,788	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,872	7	174,989	7	189,842	7	204,078	7		7		7		7		7		7	
1/4	160,187	1/4	175,304	1/4	190,145	1/4	204,368	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,502	1/2	175,618	1/2	190,448	1/2	204,657	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,817	3/4	175,932	3/4	190,750	3/4	204,947	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,132	8	176,246	8	191,053	8	205,236	8		8		8		8		8		8	
1/4	161,447	1/4	176,560	1/4	191,354	1/4	205,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,762	1/2	176,874	1/2	191,656	1/2	205,814	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,077	3/4	177,188	3/4	191,957	3/4	206,102	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,392	9	177,502	9	192,259	9	206,391	9		9		9		9		9		9	
1/4	162,707	1/4	177,816	1/4	192,559	1/4	206,677	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,022	1/2	178,129	1/2	192,860	1/2	206,962	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,337	3/4	178,443	3/4	193,160	3/4	207,248	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,652	10	178,756	10	193,461	10	207,534	10		10		10		10		10		10	
1/4	163,967	1/4	179,068	1/4	193,760	1/4	207,817	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,282	1/2	179,380	1/2	194,059	1/2	208,100	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,597	3/4	179,693	3/4	194,359	3/4	208,383	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,913	11	180,005	11	194,658	11	208,666	11		11		11		11		11		11	
1/4	165,228	1/4	180,316	1/4	194,956	1/4	208,947	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,543	1/2	180,627	1/2	195,255	1/2	209,229	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,858	3/4	180,939	3/4	195,553	3/4	209,510	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	590	0	15,006	0	29,721	0	44,709	0	59,838	0	74,886	0	89,960	0	105,086	0	120,208	0	135,329
1/4	778	1/4	15,322	1/4	30,024	1/4	45,024	1/4	60,153	1/4	75,199	1/4	90,275	1/4	105,401	1/4	120,523	1/4	135,644
1/2	965	1/2	15,637	1/2	30,328	1/2	45,339	1/2	60,468	1/2	75,512	1/2	90,590	1/2	105,717	1/2	120,838	1/2	135,959
3/4	1,153	3/4	15,953	3/4	30,631	3/4	45,654	3/4	60,783	3/4	75,825	3/4	90,906	3/4	106,032	3/4	121,153	3/4	136,274
1	1,340	1	16,268	1	30,934	1	45,969	1	61,099	1	76,137	1	91,221	1	106,347	1	121,468	1	136,589
1/4	1,607	1/4	16,583	1/4	31,238	1/4	46,285	1/4	61,414	1/4	76,450	1/4	91,536	1/4	106,662	1/4	121,783	1/4	136,904
1/2	1,873	1/2	16,899	1/2	31,542	1/2	46,600	1/2	61,729	1/2	76,763	1/2	91,851	1/2	106,977	1/2	122,098	1/2	137,219
3/4	2,140	3/4	17,214	3/4	31,846	3/4	46,915	3/4	62,044	3/4	77,076	3/4	92,167	3/4	107,292	3/4	122,413	3/4	137,534
2	2,407	2	17,529	2	32,150	2	47,230	2	62,359	2	77,389	2	92,482	2	107,607	2	122,728	2	137,849
1/4	2,718	1/4	17,845	1/4	32,454	1/4	47,545	1/4	62,675	1/4	77,702	1/4	92,797	1/4	107,922	1/4	123,043	1/4	138,164
1/2	3,028	1/2	18,160	1/2	32,759	1/2	47,861	1/2	62,990	1/2	78,015	1/2	93,112	1/2	108,237	1/2	123,358	1/2	138,479
3/4	3,339	3/4	18,476	3/4	33,063	3/4	48,176	3/4	63,305	3/4	78,327	3/4	93,428	3/4	108,552	3/4	123,673	3/4	138,794
3	3,650	3	18,791	3	33,367	3	48,491	3	63,620	3	78,640	3	93,743	3	108,867	3	123,988	3	139,109
1/4	3,966	1/4	19,097	1/4	33,681	1/4	48,806	1/4	63,935	1/4	78,953	1/4	94,058	1/4	109,182	1/4	124,303	1/4	139,424
1/2	4,282	1/2	19,402	1/2	33,995	1/2	49,121	1/2	64,250	1/2	79,266	1/2	94,373	1/2	109,497	1/2	124,618	1/2	139,739
3/4	4,598	3/4	19,708	3/4	34,309	3/4	49,437	3/4	64,564	3/4	79,579	3/4	94,689	3/4	109,812	3/4	124,933	3/4	140,054
4	4,914	4	20,014	4	34,623	4	49,752	4	64,879	4	79,892	4	95,004	4	110,127	4	125,248	4	140,369
1/4	5,229	1/4	20,318	1/4	34,938	1/4	50,067	1/4	65,194	1/4	80,204	1/4	95,319	1/4	110,442	1/4	125,563	1/4	140,684
1/2	5,545	1/2	20,622	1/2	35,253	1/2	50,382	1/2	65,508	1/2	80,517	1/2	95,634	1/2	110,757	1/2	125,878	1/2	140,999
3/4	5,860	3/4	20,926	3/4	35,568	3/4	50,697	3/4	65,823	3/4	80,829	3/4	95,950	3/4	111,072	3/4	126,193	3/4	141,314
5	6,176	5	21,230	5	35,883	5	51,013	5	66,138	5	81,142	5	96,265	5	111,387	5	126,508	5	141,629
1/4	6,491	1/4	21,534	1/4	36,199	1/4	51,328	1/4	66,450	1/4	81,457	1/4	96,580	1/4	111,702	1/4	126,823	1/4	141,942
1/2	6,806	1/2	21,837	1/2	36,514	1/2	51,643	1/2	66,763	1/2	81,771	1/2	96,895	1/2	112,017	1/2	127,138	1/2	142,256
3/4	7,122	3/4	22,140	3/4	36,829	3/4	51,958	3/4	67,075	3/4	82,086	3/4	97,210	3/4	112,332	3/4	127,453	3/4	142,569
6	7,437	6	22,444	6	37,144	6	52,273	6	67,388	6	82,401	6	97,526	6	112,647	6	127,768	6	142,882
1/4	7,753	1/4	22,747	1/4	37,459	1/4	52,588	1/4	67,700	1/4	82,716	1/4	97,841	1/4	112,962	1/4	128,083	1/4	143,195
1/2	8,068	1/2	23,050	1/2	37,775	1/2	52,904	1/2	68,013	1/2	83,031	1/2	98,156	1/2	113,277	1/2	128,398	1/2	143,508
3/4	8,383	3/4	23,353	3/4	38,090	3/4	53,219	3/4	68,325	3/4	83,346	3/4	98,471	3/4	113,592	3/4	128,713	3/4	143,822
7	8,699	7	23,657	7	38,405	7	53,534	7	68,637	7	83,661	7	98,786	7	113,907	7	129,028	7	144,135
1/4	9,014	1/4	23,960	1/4	38,720	1/4	53,849	1/4	68,950	1/4	83,976	1/4	99,101	1/4	114,222	1/4	129,343	1/4	144,448
1/2	9,330	1/2	24,263	1/2	39,035	1/2	54,164	1/2	69,262	1/2	84,290	1/2	99,416	1/2	114,537	1/2	129,658	1/2	144,762
3/4	9,645	3/4	24,566	3/4	39,351	3/4	54,480	3/4	69,574	3/4	84,605	3/4	99,731	3/4	114,852	3/4	129,973	3/4	145,075
8	9,960	8	24,870	8	39,666	8	54,795	8	69,887	8	84,920	8	100,046	8	115,167	8	130,288	8	145,389
1/4	10,276	1/4	25,173	1/4	39,981	1/4	55,110	1/4	70,199	1/4	85,235	1/4	100,361	1/4	115,482	1/4	130,603	1/4	145,703
1/2	10,591	1/2	25,476	1/2	40,296	1/2	55,425	1/2	70,511	1/2	85,550	1/2	100,676	1/2	115,797	1/2	130,918	1/2	146,016
3/4	10,906	3/4	25,779	3/4	40,611	3/4	55,740	3/4	70,824	3/4	85,865	3/4	100,991	3/4	116,112	3/4	131,233	3/4	146,330
9	11,222	9	26,082	9	40,926	9	56,056	9	71,136	9	86,180	9	101,306	9	116,427	9	131,548	9	146,644
1/4	11,537	1/4	26,386	1/4	41,242	1/4	56,371	1/4	71,448	1/4	86,495	1/4	101,621	1/4	116,742	1/4	131,863	1/4	146,957
1/2	11,853	1/2	26,689	1/2	41,557	1/2	56,686	1/2	71,761	1/2	86,810	1/2	101,936	1/2	117,057	1/2	132,178	1/2	147,271
3/4	12,168	3/4	26,992	3/4	41,872	3/4	57,001	3/4	72,073	3/4	87,125	3/4	102,251	3/4	117,372	3/4	132,493	3/4	147,585
10	12,483	10	27,295	10	42,187	10	57,316	10	72,385	10	87,440	10	102,566	10	117,687	10	132,808	10	147,899
1/4	12,799	1/4	27,599	1/4	42,502	1/4	57,632	1/4	72,698	1/4	87,755	1/4	102,881	1/4	118,002	1/4	133,123	1/4	148,212
1/2	13,114	1/2	27,902	1/2	42,818	1/2	57,947	1/2	73,010	1/2	88,070	1/2	103,196	1/2	118,317	1/2	133,438	1/2	148,526
3/4	13,430	3/4	28,205	3/4	43,133	3/4	58,262	3/4	73,322	3/4	88,385	3/4	103,511	3/4	118,632	3/4	133,753	3/4	148,840
11	13,745	11	28,508	11	43,448	11	58,577	11	73,635	11	88,700	11	103,826	11	118,947	11	134,068	11	149,153
1/4	14,060	1/4	28,811	1/4	43,763	1/4	58,892	1/4	73,948	1/4	89,015	1/4	104,141	1/4	119,262	1/4	134,383	1/4	149,466
1/2	14,376	1/2	29,115	1/2	44,078	1/2	59,207	1/2	74,260	1/2	89,330	1/2	104,456	1/2	119,577	1/2	134,698	1/2	149,699
3/4	14,691	3/4	29,418	3/4	44,394	3/4	59,523	3/4	74,573	3/4	89,645	3/4	104,771	3/4	119,892	3/4	135,014	3/4	149,972

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 40'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "HFL 477"

3 PORT INNAGE TABLE

GRAIN WEIGHT IN US GALLONS

GAUGE HEIGHT 15'-05"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	150,244	0	160,734	0	171,161	0	181,117	0	190,421	0		0		0		0		0	
1/4	150,469	1/4	160,952	1/4	171,374	1/4	181,317	1/4	190,606	1/4		1/4		1/4		1/4		1/4	
1/2	150,693	1/2	161,170	1/2	171,588	1/2	181,517	1/2	190,791	1/2		1/2		1/2		1/2		1/2	
3/4	150,917	3/4	161,388	3/4	171,801	3/4	181,718	3/4	190,976	3/4		3/4		3/4		3/4		3/4	
1	151,141	1	161,606	1	172,014	1	181,918	1	191,160	1		1		1		1		1	
1/4	151,359	1/4	161,824	1/4	172,227	1/4	182,117	1/4	191,344	1/4		1/4		1/4		1/4		1/4	
1/2	151,577	1/2	162,042	1/2	172,439	1/2	182,316	1/2	191,528	1/2		1/2		1/2		1/2		1/2	
3/4	151,795	3/4	162,260	3/4	172,651	3/4	182,516	3/4	191,712	3/4		3/4		3/4		3/4		3/4	
2	152,013	2	162,478	2	172,863	2	182,715	2	191,895	2		2		2		2		2	
1/4	152,231	1/4	162,696	1/4	173,074	1/4	182,913	1/4	192,078	1/4		1/4		1/4		1/4		1/4	
1/2	152,449	1/2	162,914	1/2	173,286	1/2	183,111	1/2	192,260	1/2		1/2		1/2		1/2		1/2	
3/4	152,667	3/4	163,132	3/4	173,497	3/4	183,309	3/4	192,443	3/4		3/4		3/4		3/4		3/4	
3	152,885	3	163,350	3	173,708	3	183,507	3	192,626	3		3		3		3		3	
1/4	153,103	1/4	163,568	1/4	173,918	1/4	183,704	1/4	192,822	1/4		1/4		1/4		1/4		1/4	
1/2	153,321	1/2	163,786	1/2	174,128	1/2	183,901	1/2	193,019	1/2		1/2		1/2		1/2		1/2	
3/4	153,539	3/4	164,004	3/4	174,338	3/4	184,098	3/4	193,215	3/4		3/4		3/4		3/4		3/4	
4	153,757	4	164,222	4	174,548	4	184,295	4	193,412	4		4		4		4		4	
1/4	153,975	1/4	164,440	1/4	174,757	1/4	184,491	1/4	193,555	1/4		1/4		1/4		1/4		1/4	
1/2	154,193	1/2	164,658	1/2	174,966	1/2	184,687	1/2	193,699	1/2		1/2		1/2		1/2		1/2	
3/4	154,411	3/4	164,876	3/4	175,175	3/4	184,883	3/4	193,843	3/4		3/4		3/4		3/4		3/4	
5	154,629	5	165,094	5	175,384	5	185,079	5	193,987	5		5		5		5		5	
1/4	154,847	1/4	165,312	1/4	175,592	1/4	185,274	1/4	194,054	1/4		1/4		1/4		1/4		1/4	
1/2	155,065	1/2	165,530	1/2	175,800	1/2	185,469	1/2	194,121	1/2		1/2		1/2		1/2		1/2	
3/4	155,283	3/4	165,748	3/4	176,008	3/4	185,663	3/4	194,188	3/4		3/4		3/4		3/4		3/4	
6	155,501	6	165,966	6	176,216	6	185,858	6	194,255	6		6		6		6		6	
1/4	155,719	1/4	166,183	1/4	176,423	1/4	186,052	1/4	194,322	1/4		1/4		1/4		1/4		1/4	
1/2	155,937	1/2	166,401	1/2	176,630	1/2	186,245	1/2	194,389	1/2		1/2		1/2		1/2		1/2	
3/4	156,156	3/4	166,618	3/4	176,837	3/4	186,439	3/4	194,456	3/4		3/4		3/4		3/4		3/4	
7	156,374	7	166,836	7	177,044	7	186,633	7	194,523	7		7		7		7		7	
1/4	156,592	1/4	167,053	1/4	177,250	1/4	186,826	1/4	194,590	1/4		1/4		1/4		1/4		1/4	
1/2	156,810	1/2	167,271	1/2	177,456	1/2	187,018	1/2	194,657	1/2		1/2		1/2		1/2		1/2	
3/4	157,028	3/4	167,488	3/4	177,661	3/4	187,211	3/4	194,724	3/4		3/4		3/4		3/4		3/4	
8	157,246	8	167,706	8	177,867	8	187,404	8	194,791	8		8		8		8		8	
1/4	157,464	1/4	167,923	1/4	178,072	1/4	187,595	1/4	194,858	1/4		1/4		1/4		1/4		1/4	
1/2	157,682	1/2	168,140	1/2	178,277	1/2	187,787	1/2	194,925	1/2		1/2		1/2		1/2		1/2	
3/4	157,900	3/4	168,357	3/4	178,482	3/4	187,979	3/4	194,992	3/4		3/4		3/4		3/4		3/4	
9	158,118	9	168,575	9	178,686	9	188,171	9	195,059	9		9		9		9		9	
1/4	158,336	1/4	168,791	1/4	178,890	1/4	188,360	1/4	195,126	1/4		1/4		1/4		1/4		1/4	
1/2	158,554	1/2	169,008	1/2	179,094	1/2	188,550	1/2	195,193	1/2		1/2		1/2		1/2		1/2	
3/4	158,772	3/4	169,225	3/4	179,297	3/4	188,739	3/4	195,260	3/4		3/4		3/4		3/4		3/4	
10	158,990	10	169,441	10	179,501	10	188,929	10	195,327	10		10		10		10		10	
1/4	159,208	1/4	169,657	1/4	179,703	1/4	189,116	1/4	195,394	1/4		1/4		1/4		1/4		1/4	
1/2	159,426	1/2	169,872	1/2	179,906	1/2	189,303	1/2	195,461	1/2		1/2		1/2		1/2		1/2	
3/4	159,644	3/4	170,088	3/4	180,108	3/4	189,490	3/4	195,528	3/4		3/4		3/4		3/4		3/4	
11	159,862	11	170,303	11	180,311	11	189,677	11	195,595	11		11		11		11		11	
1/4	160,080	1/4	170,518	1/4	180,512	1/4	189,863	1/4	195,662	1/4		1/4		1/4		1/4		1/4	
1/2	160,298	1/2	170,732	1/2	180,714	1/2	190,049	1/2	195,729	1/2		1/2		1/2		1/2		1/2	
3/4	160,516	3/4	170,947	3/4	180,915	3/4	190,235	3/4	195,796	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

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





BARGE "HFL 477"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-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	592	0	15,076	0	30,267	0	45,479	0	60,696	0	75,913	0	91,129	0	106,340	0	121,546	0	136,751
1/4	780	1/4	15,393	1/4	30,583	1/4	45,796	1/4	61,013	1/4	76,230	1/4	91,446	1/4	106,657	1/4	121,863	1/4	137,068
1/2	969	1/2	15,710	1/2	30,899	1/2	46,113	1/2	61,330	1/2	76,547	1/2	91,763	1/2	106,974	1/2	122,179	1/2	137,385
3/4	1,157	3/4	16,027	3/4	31,215	3/4	46,430	3/4	61,647	3/4	76,864	3/4	92,080	3/4	107,291	3/4	122,496	3/4	137,702
1	1,345	1	16,344	1	31,531	1	46,747	1	61,964	1	77,181	1	92,398	1	107,608	1	122,813	1	138,018
1/4	1,613	1/4	16,661	1/4	31,848	1/4	47,064	1/4	62,281	1/4	77,498	1/4	92,715	1/4	107,924	1/4	123,130	1/4	138,335
1/2	1,880	1/2	16,978	1/2	32,165	1/2	47,381	1/2	62,598	1/2	77,815	1/2	93,032	1/2	108,241	1/2	123,447	1/2	138,652
3/4	2,148	3/4	17,295	3/4	32,482	3/4	47,698	3/4	62,915	3/4	78,132	3/4	93,349	3/4	108,558	3/4	123,763	3/4	138,969
2	2,415	2	17,612	2	32,799	2	48,015	2	63,232	2	78,449	2	93,666	2	108,875	2	124,080	2	139,286
1/4	2,727	1/4	17,929	1/4	33,116	1/4	48,332	1/4	63,549	1/4	78,766	1/4	93,983	1/4	109,191	1/4	124,397	1/4	139,602
1/2	3,039	1/2	18,246	1/2	33,433	1/2	48,649	1/2	63,866	1/2	79,083	1/2	94,300	1/2	109,508	1/2	124,714	1/2	139,919
3/4	3,351	3/4	18,563	3/4	33,750	3/4	48,966	3/4	64,183	3/4	79,400	3/4	94,617	3/4	109,825	3/4	125,030	3/4	140,236
3	3,663	3	18,880	3	34,067	3	49,283	3	64,500	3	79,717	3	94,934	3	110,142	3	125,347	3	140,553
1/4	3,980	1/4	19,197	1/4	34,384	1/4	49,601	1/4	64,817	1/4	80,034	1/4	95,251	1/4	110,459	1/4	125,664	1/4	140,869
1/2	4,297	1/2	19,514	1/2	34,701	1/2	49,918	1/2	65,134	1/2	80,351	1/2	95,568	1/2	110,775	1/2	125,981	1/2	141,186
3/4	4,614	3/4	19,831	3/4	35,018	3/4	50,235	3/4	65,451	3/4	80,668	3/4	95,885	3/4	111,092	3/4	126,298	3/4	141,503
4	4,931	4	20,148	4	35,335	4	50,552	4	65,768	4	80,985	4	96,202	4	111,409	4	126,614	4	141,820
1/4	5,248	1/4	20,465	1/4	35,652	1/4	50,869	1/4	66,085	1/4	81,302	1/4	96,519	1/4	111,726	1/4	126,931	1/4	142,137
1/2	5,565	1/2	20,782	1/2	35,969	1/2	51,186	1/2	66,402	1/2	81,619	1/2	96,836	1/2	112,042	1/2	127,248	1/2	142,453
3/4	5,882	3/4	21,099	3/4	36,286	3/4	51,503	3/4	66,719	3/4	81,936	3/4	97,153	3/4	112,359	3/4	127,565	3/4	142,770
5	6,199	5	21,416	5	36,603	5	51,820	5	67,036	5	82,253	5	97,470	5	112,676	5	127,881	5	143,087
1/4	6,516	1/4	21,732	1/4	36,920	1/4	52,137	1/4	67,353	1/4	82,570	1/4	97,787	1/4	112,993	1/4	128,198	1/4	143,402
1/2	6,833	1/2	22,048	1/2	37,237	1/2	52,454	1/2	67,670	1/2	82,887	1/2	98,104	1/2	113,310	1/2	128,515	1/2	143,717
3/4	7,150	3/4	22,364	3/4	37,554	3/4	52,771	3/4	67,987	3/4	83,204	3/4	98,420	3/4	113,626	3/4	128,832	3/4	144,032
6	7,467	6	22,680	6	37,871	6	53,088	6	68,304	6	83,521	6	98,737	6	113,943	6	129,149	6	144,347
1/4	7,784	1/4	22,997	1/4	38,188	1/4	53,405	1/4	68,621	1/4	83,838	1/4	99,054	1/4	114,260	1/4	129,465	1/4	144,662
1/2	8,101	1/2	23,313	1/2	38,505	1/2	53,722	1/2	68,938	1/2	84,155	1/2	99,371	1/2	114,577	1/2	129,782	1/2	144,977
3/4	8,418	3/4	23,629	3/4	38,822	3/4	54,039	3/4	69,255	3/4	84,472	3/4	99,688	3/4	114,893	3/4	130,099	3/4	145,292
7	8,735	7	23,945	7	39,139	7	54,356	7	69,572	7	84,789	7	100,005	7	115,210	7	130,416	7	145,607
1/4	9,052	1/4	24,261	1/4	39,456	1/4	54,673	1/4	69,889	1/4	85,106	1/4	100,322	1/4	115,527	1/4	130,732	1/4	145,921
1/2	9,369	1/2	24,577	1/2	39,773	1/2	54,990	1/2	70,206	1/2	85,423	1/2	100,638	1/2	115,844	1/2	131,049	1/2	146,236
3/4	9,686	3/4	24,893	3/4	40,090	3/4	55,307	3/4	70,523	3/4	85,740	3/4	100,955	3/4	116,161	3/4	131,366	3/4	146,551
8	10,003	8	25,209	8	40,407	8	55,624	8	70,841	8	86,057	8	101,272	8	116,477	8	131,683	8	146,866
1/4	10,320	1/4	25,525	1/4	40,724	1/4	55,941	1/4	71,158	1/4	86,374	1/4	101,589	1/4	116,794	1/4	132,000	1/4	147,181
1/2	10,637	1/2	25,841	1/2	41,041	1/2	56,258	1/2	71,475	1/2	86,691	1/2	101,906	1/2	117,111	1/2	132,316	1/2	147,496
3/4	10,954	3/4	26,158	3/4	41,358	3/4	56,575	3/4	71,792	3/4	87,008	3/4	102,222	3/4	117,428	3/4	132,633	3/4	147,810
9	11,271	9	26,474	9	41,675	9	56,892	9	72,109	9	87,325	9	102,539	9	117,745	9	132,950	9	148,125
1/4	11,588	1/4	26,790	1/4	41,992	1/4	57,209	1/4	72,426	1/4	87,642	1/4	102,856	1/4	118,061	1/4	133,267	1/4	148,440
1/2	11,905	1/2	27,106	1/2	42,309	1/2	57,526	1/2	72,743	1/2	87,959	1/2	103,173	1/2	118,378	1/2	133,583	1/2	148,755
3/4	12,222	3/4	27,422	3/4	42,626	3/4	57,843	3/4	73,060	3/4	88,276	3/4	103,489	3/4	118,695	3/4	133,900	3/4	149,070
10	12,539	10	27,738	10	42,943	10	58,160	10	73,377	10	88,593	10	103,806	10	119,012	10	134,217	10	149,385
1/4	12,856	1/4	28,054	1/4	43,260	1/4	58,477	1/4	73,694	1/4	88,910	1/4	104,123	1/4	119,328	1/4	134,534	1/4	149,700
1/2	13,174	1/2	28,370	1/2	43,577	1/2	58,794	1/2	74,011	1/2	89,227	1/2	104,440	1/2	119,645	1/2	134,851	1/2	150,014
3/4	13,491	3/4	28,686	3/4	43,894	3/4	59,111	3/4	74,328	3/4	89,544	3/4	104,757	3/4	119,962	3/4	135,167	3/4	150,329
11	13,808	11	29,002	11	44,211	11	59,428	11	74,645	11	89,861	11	105,073	11	120,279	11	135,484	11	150,644
1/4	14,125	1/4	29,318	1/4	44,528	1/4	59,745	1/4	74,962	1/4	90,178	1/4	105,390	1/4	120,596	1/4	135,801	1/4	150,918
1/2	14,442	1/2	29,635	1/2	44,845	1/2	60,062	1/2	75,279	1/2	90,495	1/2	105,707	1/2	120,912	1/2	136,118	1/2	151,192
3/4	14,759	3/4	29,951	3/4	45,162	3/4	60,379	3/4	75,596	3/4	90,812	3/4	106,024	3/4	121,229	3/4	136,434	3/4	151,466

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 40'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

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



BARGE "HFL 477"

3 STBD INNAGE TABLE

NET WEIGHT IN US GALLONS

GAUGE HEIGHT 15'-05 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	151,739	0	162,279	0	172,756	0	182,761	0	192,114	0		0		0		0		0	
1/4	151,965	1/4	162,498	1/4	172,970	1/4	182,962	1/4	192,300	1/4		1/4		1/4		1/4		1/4	
1/2	152,190	1/2	162,717	1/2	173,184	1/2	183,163	1/2	192,485	1/2		1/2		1/2		1/2		1/2	
3/4	152,415	3/4	162,936	3/4	173,399	3/4	183,365	3/4	192,671	3/4		3/4		3/4		3/4		3/4	
1	152,640	1	163,155	1	173,613	1	183,566	1	192,857	1		1		1		1		1	
1/4	152,859	1/4	163,374	1/4	173,826	1/4	183,766	1/4	193,042	1/4		1/4		1/4		1/4		1/4	
1/2	153,078	1/2	163,593	1/2	174,040	1/2	183,966	1/2	193,226	1/2		1/2		1/2		1/2		1/2	
3/4	153,297	3/4	163,812	3/4	174,253	3/4	184,167	3/4	193,411	3/4		3/4		3/4		3/4		3/4	
2	153,516	2	164,031	2	174,466	2	184,367	2	193,596	2		2		2		2		2	
1/4	153,735	1/4	164,250	1/4	174,678	1/4	184,566	1/4	193,780	1/4		1/4		1/4		1/4		1/4	
1/2	153,955	1/2	164,469	1/2	174,890	1/2	184,765	1/2	193,963	1/2		1/2		1/2		1/2		1/2	
3/4	154,174	3/4	164,689	3/4	175,103	3/4	184,964	3/4	194,147	3/4		3/4		3/4		3/4		3/4	
3	154,393	3	164,908	3	175,315	3	185,163	3	194,330	3		3		3		3		3	
1/4	154,612	1/4	165,127	1/4	175,526	1/4	185,361	1/4	194,528	1/4		1/4		1/4		1/4		1/4	
1/2	154,831	1/2	165,346	1/2	175,737	1/2	185,560	1/2	194,725	1/2		1/2		1/2		1/2		1/2	
3/4	155,050	3/4	165,565	3/4	175,948	3/4	185,758	3/4	194,923	3/4		3/4		3/4		3/4		3/4	
4	155,269	4	165,784	4	176,159	4	185,956	4	195,120	4		4		4		4		4	
1/4	155,488	1/4	166,003	1/4	176,369	1/4	186,152	1/4	195,265	1/4		1/4		1/4		1/4		1/4	
1/2	155,707	1/2	166,222	1/2	176,579	1/2	186,349	1/2	195,410	1/2		1/2		1/2		1/2		1/2	
3/4	155,926	3/4	166,441	3/4	176,789	3/4	186,546	3/4	195,554	3/4		3/4		3/4		3/4		3/4	
5	156,145	5	166,660	5	176,999	5	186,743	5	195,699	5		5		5		5		5	
1/4	156,364	1/4	166,879	1/4	177,208	1/4	186,939	1/4	195,766	1/4		1/4		1/4		1/4		1/4	
1/2	156,583	1/2	167,098	1/2	177,417	1/2	187,135	1/2	195,834	1/2		1/2		1/2		1/2		1/2	
3/4	156,802	3/4	167,317	3/4	177,626	3/4	187,331	3/4	195,901	3/4		3/4		3/4		3/4		3/4	
6	157,021	6	167,535	6	177,835	6	187,526	6		6		6		6		6		6	
1/4	157,240	1/4	167,754	1/4	178,043	1/4	187,721	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,460	1/2	167,972	1/2	178,251	1/2	187,916	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,679	3/4	168,191	3/4	178,459	3/4	188,111	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,898	7	168,410	7	178,667	7	188,305	7		7		7		7		7		7	
1/4	158,117	1/4	168,628	1/4	178,874	1/4	188,499	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,336	1/2	168,847	1/2	179,081	1/2	188,693	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,555	3/4	169,065	3/4	179,288	3/4	188,886	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,774	8	169,284	8	179,495	8	189,080	8		8		8		8		8		8	
1/4	158,993	1/4	169,502	1/4	179,701	1/4	189,273	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,212	1/2	169,720	1/2	179,906	1/2	189,466	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,431	3/4	169,939	3/4	180,112	3/4	189,658	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,650	9	170,157	9	180,318	9	189,851	9		9		9		9		9		9	
1/4	159,869	1/4	170,375	1/4	180,523	1/4	190,042	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,088	1/2	170,592	1/2	180,727	1/2	190,232	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,307	3/4	170,810	3/4	180,932	3/4	190,423	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,526	10	171,027	10	181,137	10	190,613	10		10		10		10		10		10	
1/4	160,745	1/4	171,244	1/4	181,340	1/4	190,801	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,964	1/2	171,461	1/2	181,544	1/2	190,990	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,184	3/4	171,677	3/4	181,747	3/4	191,178	3/4		3/4		3/4		3/4		3/4		3/4	
11	161,403	11	171,894	11	181,951	11	191,366	11		11		11		11		11		11	
1/4	161,622	1/4	172,109	1/4	182,153	1/4	191,553	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,841	1/2	172,325	1/2	182,356	1/2	191,740	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,060	3/4	172,540	3/4	182,558	3/4	191,927	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
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 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES

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PRECISION MEASUREMENT
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BARGE "HFL 477"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	2,314	0	4,627	0	6,899	0	9,075	0		0		0		0		0	
1/4	48	1/4	2,362	1/4	4,676	1/4	6,945	1/4	9,119	1/4		1/4		1/4		1/4		1/4	
1/2	96	1/2	2,410	1/2	4,724	1/2	6,991	1/2	9,163	1/2		1/2		1/2		1/2		1/2	
3/4	145	3/4	2,458	3/4	4,772	3/4	7,038	3/4	9,207	3/4		3/4		3/4		3/4		3/4	
1	193	1	2,506	1	4,820	1	7,084	1	9,252	1		1		1		1		1	
1/4	241	1/4	2,555	1/4	4,868	1/4	7,130	1/4	9,296	1/4		1/4		1/4		1/4		1/4	
1/2	289	1/2	2,603	1/2	4,916	1/2	7,176	1/2	9,340	1/2		1/2		1/2		1/2		1/2	
3/4	337	3/4	2,651	3/4	4,964	3/4	7,222	3/4	9,384	3/4		3/4		3/4		3/4		3/4	
2	386	2	2,699	2	5,012	2	7,268	2	9,428	2		2		2		2		2	
1/4	434	1/4	2,748	1/4	5,060	1/4	7,314	1/4	9,472	1/4		1/4		1/4		1/4		1/4	
1/2	482	1/2	2,796	1/2	5,108	1/2	7,360	1/2	9,516	1/2		1/2		1/2		1/2		1/2	
3/4	530	3/4	2,844	3/4	5,156	3/4	7,406	3/4	9,560	3/4		3/4		3/4		3/4		3/4	
3	578	3	2,892	3	5,204	3	7,452	3	9,604	3		3		3		3		3	
1/4	627	1/4	2,940	1/4	5,252	1/4	7,498	1/4	9,648	1/4		1/4		1/4		1/4		1/4	
1/2	675	1/2	2,989	1/2	5,299	1/2	7,543	1/2	9,691	1/2		1/2		1/2		1/2		1/2	
3/4	723	3/4	3,037	3/4	5,347	3/4	7,589	3/4	9,735	3/4		3/4		3/4		3/4		3/4	
4	771	4	3,085	4	5,395	4	7,635	4	9,779	4		4		4		4		4	
1/4	819	1/4	3,133	1/4	5,443	1/4	7,680	1/4	9,822	1/4		1/4		1/4		1/4		1/4	
1/2	868	1/2	3,181	1/2	5,490	1/2	7,726	1/2	9,866	1/2		1/2		1/2		1/2		1/2	
3/4	916	3/4	3,230	3/4	5,538	3/4	7,772	3/4	9,910	3/4		3/4		3/4		3/4		3/4	
5	964	5	3,278	5	5,585	5	7,817	5	9,953	5		5		5		5		5	
1/4	1,012	1/4	3,326	1/4	5,633	1/4	7,863	1/4	9,997	1/4		1/4		1/4		1/4		1/4	
1/2	1,060	1/2	3,374	1/2	5,680	1/2	7,908	1/2	10,040	1/2		1/2		1/2		1/2		1/2	
3/4	1,109	3/4	3,422	3/4	5,727	3/4	7,953	3/4	10,084	3/4		3/4		3/4		3/4		3/4	
6	1,157	6	3,471	6	5,775	6	7,999	6	10,127	6		6		6		6		6	
1/4	1,205	1/4	3,519	1/4	5,822	1/4	8,044	1/4	10,170	1/4		1/4		1/4		1/4		1/4	
1/2	1,253	1/2	3,567	1/2	5,869	1/2	8,089	1/2	10,213	1/2		1/2		1/2		1/2		1/2	
3/4	1,301	3/4	3,615	3/4	5,917	3/4	8,135	3/4	10,257	3/4		3/4		3/4		3/4		3/4	
7	1,350	7	3,663	7	5,964	7	8,180	7	10,300	7		7		7		7		7	
1/4	1,398	1/4	3,712	1/4	6,011	1/4	8,225	1/4	10,343	1/4		1/4		1/4		1/4		1/4	
1/2	1,446	1/2	3,760	1/2	6,058	1/2	8,270	1/2	10,386	1/2		1/2		1/2		1/2		1/2	
3/4	1,494	3/4	3,808	3/4	6,105	3/4	8,315	3/4	<u>10,429</u>	3/4		3/4		3/4		3/4		3/4	
8	1,542	8	3,856	8	6,152	8	8,360	8	<u>10,472</u>	8		8		8		8		8	
1/4	1,591	1/4	3,904	1/4	6,199	1/4	8,405	1/4	10,515	1/4		1/4		1/4		1/4		1/4	
1/2	1,639	1/2	3,953	1/2	6,246	1/2	8,450	1/2	10,558	1/2		1/2		1/2		1/2		1/2	
3/4	1,687	3/4	4,001	3/4	6,293	3/4	8,495	3/4	10,601	3/4		3/4		3/4		3/4		3/4	
9	1,735	9	4,049	9	6,340	9	8,540	9	10,644	9		9		9		9		9	
1/4	1,783	1/4	4,097	1/4	6,386	1/4	8,584	1/4	10,687	1/4		1/4		1/4		1/4		1/4	
1/2	1,832	1/2	4,145	1/2	6,433	1/2	8,629	1/2	10,730	1/2		1/2		1/2		1/2		1/2	
3/4	1,880	3/4	4,194	3/4	6,480	3/4	8,674	3/4	10,773	3/4		3/4		3/4		3/4		3/4	
10	1,928	10	4,242	10	6,527	10	8,719	10	10,816	10		10		10		10		10	
1/4	1,976	1/4	4,290	1/4	6,573	1/4	8,763	1/4	10,859	1/4		1/4		1/4		1/4		1/4	
1/2	2,024	1/2	4,338	1/2	6,620	1/2	8,808	1/2	10,902	1/2		1/2		1/2		1/2		1/2	
3/4	2,073	3/4	4,386	3/4	6,666	3/4	8,852	3/4	10,945	3/4		3/4		3/4		3/4		3/4	
11	2,121	11	4,435	11	6,713	11	8,897	11	10,988	11		11		11		11		11	
1/4	2,169	1/4	4,483	1/4	6,759	1/4	8,941	1/4	11,031	1/4		1/4		1/4		1/4		1/4	
1/2	2,217	1/2	4,531	1/2	6,806	1/2	8,986	1/2	11,074	1/2		1/2		1/2		1/2		1/2	
3/4	2,265	3/4	4,579	3/4	6,852	3/4	9,030	3/4	11,117	3/4		3/4		3/4		3/4		3/4	

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BARGE "HFL 477"

ULLAGE TRIM TABLE

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

(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 1 PORT IS 00-3/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 235'-00"

April 7, 2025

**PRECISION MEASUREMENT
 & ANALYSIS, INC.**
 P.O. Box 2092
 Pearland, Texas 77588

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BARGE "HFL 477"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	206,601	0	193,097	0	178,857	0	164,036	0	149,047	0	134,058	0	119,070	0	104,081	0	89,092	
1/4	1/4	206,364	1/4	192,807	1/4	178,554	1/4	163,724	1/4	148,735	1/4	133,746	1/4	118,757	1/4	103,769	1/4	88,780	
1/2	1/2	206,127	1/2	192,516	1/2	178,251	1/2	163,411	1/2	148,423	1/2	133,434	1/2	118,445	1/2	103,456	1/2	88,468	
3/4	3/4	205,837	3/4	192,225	3/4	177,946	3/4	163,099	3/4	148,110	3/4	133,122	3/4	118,133	3/4	103,144	3/4	88,155	
1	1	205,548	1	191,934	1	177,642	1	162,787	1	147,798	1	132,809	1	117,821	1	102,832	1	87,843	
1/4	1/4	205,258	1/4	191,643	1/4	177,338	1/4	162,475	1/4	147,486	1/4	132,497	1/4	117,508	1/4	102,520	1/4	87,531	
1/2	1/2	204,969	1/2	191,352	1/2	177,034	1/2	162,162	1/2	147,174	1/2	132,185	1/2	117,196	1/2	102,207	1/2	87,219	
3/4	3/4	204,693	3/4	191,059	3/4	176,729	3/4	161,850	3/4	146,861	3/4	131,873	3/4	116,884	3/4	101,895	3/4	86,906	
2	2	204,417	2	190,767	2	176,424	2	161,538	2	146,549	2	131,560	2	116,572	2	101,583	2	86,594	
1/4	1/4	204,142	1/4	190,475	1/4	176,119	1/4	161,226	1/4	146,237	1/4	131,248	1/4	116,259	1/4	101,271	1/4	86,282	
1/2	1/2	203,866	1/2	190,182	1/2	175,814	1/2	160,913	1/2	145,925	1/2	130,936	1/2	115,947	1/2	100,958	1/2	85,969	
3/4	3/4	203,589	3/4	189,889	3/4	175,507	3/4	160,601	3/4	145,612	3/4	130,624	3/4	115,635	3/4	100,646	3/4	85,657	
3	3	203,312	3	189,596	3	175,201	3	160,289	3	145,300	3	130,311	3	115,322	3	100,334	3	85,345	
1/4	1/4	203,036	1/4	189,302	1/4	174,895	1/4	159,977	1/4	144,988	1/4	129,999	1/4	115,010	1/4	100,021	1/4	85,033	
1/2	1/2	202,759	1/2	189,009	1/2	174,589	1/2	159,664	1/2	144,676	1/2	129,687	1/2	114,698	1/2	99,709	1/2	84,720	
3/4	3/4	202,481	3/4	188,714	3/4	174,281	3/4	159,352	3/4	144,363	3/4	129,374	3/4	114,386	3/4	99,397	3/4	84,408	
4	4	202,203	4	188,420	4	173,974	4	159,040	4	144,051	4	129,062	4	114,073	4	99,085	4	84,096	
1/4	1/4	201,925	1/4	188,125	1/4	173,667	1/4	158,727	1/4	143,739	1/4	128,750	1/4	113,761	1/4	98,772	1/4	83,784	
1/2	1/2	201,647	1/2	187,831	1/2	173,359	1/2	158,415	1/2	143,426	1/2	128,438	1/2	113,449	1/2	98,460	1/2	83,471	
3/4	3/4	201,368	3/4	187,535	3/4	173,051	3/4	158,103	3/4	143,114	3/4	128,125	3/4	113,137	3/4	98,148	3/4	83,159	
5	5	201,089	5	187,240	5	172,742	5	157,791	5	142,802	5	127,813	5	112,824	5	97,836	5	82,847	
1/4	1/4	200,810	1/4	186,944	1/4	172,434	1/4	157,478	1/4	142,490	1/4	127,501	1/4	112,512	1/4	97,523	1/4	82,535	
1/2	1/2	200,531	1/2	186,649	1/2	172,126	1/2	157,166	1/2	142,177	1/2	127,189	1/2	112,200	1/2	97,211	1/2	82,222	
3/4	3/4	200,251	3/4	186,352	3/4	171,816	3/4	156,854	3/4	141,865	3/4	126,876	3/4	111,888	3/4	96,899	3/4	81,910	
6	6	199,970	6	186,055	6	171,506	6	156,542	6	141,553	6	126,564	6	111,575	6	96,587	6	81,598	
1/4	1/4	199,690	1/4	185,759	1/4	171,197	1/4	156,229	1/4	141,241	1/4	126,252	1/4	111,263	1/4	96,274	1/4	81,285	
1/2	1/2	199,410	1/2	185,462	1/2	170,887	1/2	155,917	1/2	140,928	1/2	125,940	1/2	110,951	1/2	95,962	1/2	80,973	
3/4	3/4	199,126	3/4	185,164	3/4	170,577	3/4	155,605	3/4	140,616	3/4	125,627	3/4	110,639	3/4	95,650	3/4	80,661	
7	7	198,843	7	184,866	7	170,266	7	155,293	7	140,304	7	125,315	7	110,326	7	95,337	7	80,349	
1/4	1/4	198,560	1/4	184,569	1/4	169,956	1/4	154,980	1/4	139,992	1/4	125,003	1/4	110,014	1/4	95,025	1/4	80,036	
1/2	1/2	198,276	1/2	184,271	1/2	169,645	1/2	154,668	1/2	139,679	1/2	124,690	1/2	109,702	1/2	94,713	1/2	79,724	
3/4	3/4	197,990	3/4	183,972	3/4	169,334	3/4	154,356	3/4	139,367	3/4	124,378	3/4	109,389	3/4	94,401	3/4	79,412	
8	8	197,704	8	183,673	8	169,023	8	154,044	8	139,055	8	124,066	8	109,077	8	94,088	8	79,100	
1/4	1/4	197,418	1/4	183,374	1/4	168,711	1/4	153,731	1/4	138,742	1/4	123,754	1/4	108,765	1/4	93,776	1/4	78,787	
1/2	1/2	197,132	1/2	183,075	1/2	168,400	1/2	153,419	1/2	138,430	1/2	123,441	1/2	108,453	1/2	93,464	1/2	78,475	
3/4	3/4	196,846	3/4	182,775	3/4	168,089	3/4	153,107	3/4	138,118	3/4	123,129	3/4	108,140	3/4	93,152	3/4	78,163	
9	9	196,559	9	182,475	9	167,777	9	152,794	9	137,806	9	122,817	9	107,828	9	92,839	9	77,851	
1/4	1/4	196,272	1/4	182,176	1/4	167,466	1/4	152,482	1/4	137,493	1/4	122,505	1/4	107,516	1/4	92,527	1/4	77,538	
1/2	1/2	195,985	1/2	181,876	1/2	167,154	1/2	152,170	1/2	137,181	1/2	122,192	1/2	107,204	1/2	92,215	1/2	77,226	
3/4	3/4	195,697	3/4	181,575	3/4	166,843	3/4	151,858	3/4	136,869	3/4	121,880	3/4	106,891	3/4	91,903	3/4	76,914	
10	10	195,409	10	181,273	10	166,531	10	151,545	10	136,557	10	121,568	10	106,579	10	91,590	10	76,601	
1/4	1/4	195,121	1/4	180,972	1/4	166,220	1/4	151,233	1/4	136,244	1/4	121,256	1/4	106,267	1/4	91,278	1/4	76,289	
1/2	1/2	194,833	1/2	180,671	1/2	165,908	1/2	150,921	1/2	135,932	1/2	120,943	1/2	105,955	1/2	90,966	1/2	75,977	
3/4	3/4	207,560	3/4	194,544	3/4	180,369	3/4	165,596	3/4	150,609	3/4	135,620	3/4	105,642	3/4	90,653	3/4	75,665	
11	11	194,255	11	180,067	11	165,284	11	150,296	11	135,308	11	120,319	11	105,330	11	90,341	11	75,352	
1/4	1/4	207,238	1/4	193,966	1/4	179,765	1/4	164,972	1/4	149,984	1/4	134,995	1/4	105,018	1/4	90,029	1/4	75,040	
1/2	1/2	207,076	1/2	193,677	1/2	179,463	1/2	164,661	1/2	149,672	1/2	134,683	1/2	104,705	1/2	89,717	1/2	74,728	
3/4	3/4	206,839	3/4	193,387	3/4	179,160	3/4	164,348	3/4	149,360	3/4	134,371	3/4	104,393	3/4	89,404	3/4	74,416	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HFL 477"

1 PORT ULLAGE TABLE

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

GAUGE HEIGHT 15'-04 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	74,103	0	59,115	0	44,154	0	29,938	0	16,646	0	4,285	0		0		0		0	
1/4	73,791	1/4	58,802	1/4	43,848	1/4	29,650	1/4	16,379	1/4	4,038	1/4		1/4		1/4		1/4	
1/2	73,479	1/2	58,490	1/2	43,542	1/2	29,362	1/2	16,111	1/2	3,790	1/2		1/2		1/2		1/2	
3/4	73,167	3/4	58,178	3/4	43,238	3/4	29,076	3/4	15,845	3/4	3,545	3/4		3/4		3/4		3/4	
1	72,854	1	57,866	1	42,933	1	28,790	1	15,579	1	3,299	1		1		1		1	
1/4	72,542	1/4	57,553	1/4	42,629	1/4	28,504	1/4	15,313	1/4	3,053	1/4		1/4		1/4		1/4	
1/2	72,230	1/2	57,241	1/2	42,324	1/2	28,218	1/2	15,048	1/2	2,807	1/2		1/2		1/2		1/2	
3/4	71,917	3/4	56,929	3/4	42,021	3/4	27,934	3/4	14,783	3/4	2,568	3/4		3/4		3/4		3/4	
2	71,605	2	56,616	2	41,719	2	27,649	2	14,519	2	2,329	2		2		2		2	
1/4	71,293	1/4	56,304	1/4	41,416	1/4	27,365	1/4	14,255	1/4	2,090	1/4		1/4		1/4		1/4	
1/2	70,981	1/2	55,992	1/2	41,113	1/2	27,081	1/2	13,991	1/2	1,850	1/2		1/2		1/2		1/2	
3/4	70,668	3/4	55,680	3/4	40,812	3/4	26,798	3/4	13,728	3/4	1,657	3/4		3/4		3/4		3/4	
3	70,356	3	55,367	3	40,511	3	26,516	3	13,465	3	1,463	3		3		3		3	
1/4	70,044	1/4	55,055	1/4	40,210	1/4	26,233	1/4	13,203	1/4	1,269	1/4		1/4		1/4		1/4	
1/2	69,732	1/2	54,743	1/2	39,908	1/2	25,951	1/2	12,940	1/2	1,076	1/2		1/2		1/2		1/2	
3/4	69,419	3/4	54,431	3/4	39,609	3/4	25,671	3/4	12,680	3/4	953	3/4		3/4		3/4		3/4	
4	69,107	4	54,118	4	39,310	4	25,391	4	12,419	4	829	4		4		4		4	
1/4	68,795	1/4	53,806	1/4	39,010	1/4	25,111	1/4	12,158	1/4	706	1/4		1/4		1/4		1/4	
1/2	68,483	1/2	53,494	1/2	38,711	1/2	24,831	1/2	11,897	1/2	583	1/2		1/2		1/2		1/2	
3/4	68,170	3/4	53,182	3/4	38,413	3/4	24,553	3/4	11,638	3/4		3/4		3/4		3/4		3/4	
5	67,858	5	52,869	5	38,115	5	24,275	5	11,378	5		5		5		5		5	
1/4	67,546	1/4	52,557	1/4	37,817	1/4	23,997	1/4	11,119	1/4		1/4		1/4		1/4		1/4	
1/2	67,233	1/2	52,245	1/2	37,520	1/2	23,718	1/2	10,860	1/2		1/2		1/2		1/2		1/2	
3/4	66,921	3/4	51,932	3/4	37,224	3/4	23,442	3/4	10,603	3/4		3/4		3/4		3/4		3/4	
6	66,609	6	51,620	6	36,927	6	23,165	6	10,345	6		6		6		6		6	
1/4	66,297	1/4	51,308	1/4	36,631	1/4	22,889	1/4	10,087	1/4		1/4		1/4		1/4		1/4	
1/2	65,984	1/2	50,996	1/2	36,335	1/2	22,612	1/2	9,830	1/2		1/2		1/2		1/2		1/2	
3/4	65,672	3/4	50,683	3/4	36,041	3/4	22,337	3/4	9,574	3/4		3/4		3/4		3/4		3/4	
7	65,360	7	50,371	7	35,746	7	22,062	7	9,318	7		7		7		7		7	
1/4	65,048	1/4	50,059	1/4	35,452	1/4	21,787	1/4	9,062	1/4		1/4		1/4		1/4		1/4	
1/2	64,735	1/2	49,747	1/2	35,158	1/2	21,513	1/2	8,807	1/2		1/2		1/2		1/2		1/2	
3/4	64,423	3/4	49,434	3/4	34,865	3/4	21,239	3/4	8,552	3/4		3/4		3/4		3/4		3/4	
8	64,111	8	49,122	8	34,572	8	20,966	8	8,298	8		8		8		8		8	
1/4	63,799	1/4	48,810	1/4	34,279	1/4	20,693	1/4	8,044	1/4		1/4		1/4		1/4		1/4	
1/2	63,486	1/2	48,498	1/2	33,987	1/2	20,420	1/2	7,790	1/2		1/2		1/2		1/2		1/2	
3/4	63,174	3/4	48,185	3/4	33,696	3/4	20,148	3/4	7,537	3/4		3/4		3/4		3/4		3/4	
9	62,862	9	47,873	9	33,405	9	19,877	9	7,285	9		9		9		9		9	
1/4	62,550	1/4	47,561	1/4	33,113	1/4	19,605	1/4	7,032	1/4		1/4		1/4		1/4		1/4	
1/2	62,237	1/2	47,249	1/2	32,822	1/2	19,334	1/2	6,780	1/2		1/2		1/2		1/2		1/2	
3/4	61,925	3/4	46,938	3/4	32,533	3/4	19,064	3/4	6,529	3/4		3/4		3/4		3/4		3/4	
10	61,613	10	46,626	10	32,244	10	18,794	10	6,278	10		10		10		10		10	
1/4	61,300	1/4	46,315	1/4	31,954	1/4	18,524	1/4	6,028	1/4		1/4		1/4		1/4		1/4	
1/2	60,988	1/2	46,004	1/2	31,665	1/2	18,254	1/2	5,777	1/2		1/2		1/2		1/2		1/2	
3/4	60,676	3/4	45,695	3/4	31,377	3/4	17,986	3/4	5,528	3/4		3/4		3/4		3/4		3/4	
11	60,364	11	45,385	11	31,089	11	17,718	11	5,278	11		11		11		11		11	
1/4	60,051	1/4	45,076	1/4	30,801	1/4	17,449	1/4	5,029	1/4		1/4		1/4		1/4		1/4	
1/2	59,739	1/2	44,767	1/2	30,513	1/2	17,181	1/2	4,780	1/2		1/2		1/2		1/2		1/2	
3/4	59,427	3/4	44,461	3/4	30,226	3/4	16,914	3/4	4,533	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588
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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
0	0	207,922	0	194,748	0	180,530	0	165,717	0	150,700	0	135,681	0	120,663	0	105,644	0	90,626			
1/4	1/4	207,760	1/4	194,458	1/4	180,227	1/4	165,405	1/4	150,387	1/4	135,368	1/4	120,350	1/4	105,331	1/4	90,313			
1/2	1/2	207,598	1/2	194,169	1/2	179,924	1/2	165,092	1/2	150,074	1/2	135,055	1/2	120,037	1/2	105,019	1/2	90,000			
3/4	3/4	207,360	3/4	193,878	3/4	179,621	3/4	164,779	3/4	149,761	3/4	134,743	3/4	119,724	3/4	104,706	3/4	89,687			
1	1	207,122	1	193,587	1	179,317	1	164,467	1	149,448	1	134,430	1	119,411	1	104,393	1	89,374			
1/4	1/4	206,884	1/4	193,297	1/4	179,013	1/4	164,154	1/4	149,135	1/4	134,117	1/4	119,098	1/4	104,080	1/4	89,061			
1/2	1/2	206,647	1/2	193,006	1/2	178,710	1/2	163,841	1/2	148,822	1/2	133,804	1/2	118,785	1/2	103,767	1/2	88,749			
3/4	3/4	206,356	3/4	192,714	3/4	178,405	3/4	163,528	3/4	148,509	3/4	133,491	3/4	118,473	3/4	103,454	3/4	88,436			
2	2	206,066	2	192,422	2	178,100	2	163,215	2	148,197	2	133,178	2	118,160	2	103,141	2	88,123			
1/4	1/4	205,776	1/4	192,130	1/4	177,796	1/4	162,902	1/4	147,884	1/4	132,865	1/4	117,847	1/4	102,828	1/4	87,810			
1/2	1/2	205,486	1/2	191,838	1/2	177,491	1/2	162,589	1/2	147,571	1/2	132,552	1/2	117,534	1/2	102,515	1/2	87,497			
3/4	3/4	205,210	3/4	191,545	3/4	177,185	3/4	162,276	3/4	147,258	3/4	132,239	3/4	117,221	3/4	102,203	3/4	87,184			
3	3	204,934	3	191,253	3	176,879	3	161,963	3	146,945	3	131,927	3	116,908	3	101,890	3	86,871			
1/4	1/4	204,657	1/4	190,960	1/4	176,574	1/4	161,651	1/4	146,632	1/4	131,614	1/4	116,595	1/4	101,577	1/4	86,558			
1/2	1/2	204,381	1/2	190,667	1/2	176,268	1/2	161,338	1/2	146,319	1/2	131,301	1/2	116,282	1/2	101,264	1/2	86,245			
3/4	3/4	204,103	3/4	190,373	3/4	175,961	3/4	161,025	3/4	146,006	3/4	130,988	3/4	115,969	3/4	100,951	3/4	85,933			
4	4	203,826	4	190,079	4	175,654	4	160,712	4	145,693	4	130,675	4	115,657	4	100,638	4	85,620			
1/4	1/4	203,548	1/4	189,785	1/4	175,347	1/4	160,399	1/4	145,381	1/4	130,362	1/4	115,344	1/4	100,325	1/4	85,307			
1/2	1/2	203,271	1/2	189,491	1/2	175,040	1/2	160,086	1/2	145,068	1/2	130,049	1/2	115,031	1/2	100,012	1/2	84,994			
3/4	3/4	202,992	3/4	189,195	3/4	174,732	3/4	159,773	3/4	144,755	3/4	129,736	3/4	114,718	3/4	99,699	3/4	84,681			
5	5	202,714	5	188,900	5	174,424	5	159,460	5	144,442	5	129,423	5	114,405	5	99,387	5	84,368			
1/4	1/4	202,435	1/4	188,605	1/4	174,116	1/4	159,148	1/4	144,129	1/4	129,111	1/4	114,092	1/4	99,074	1/4	84,055			
1/2	1/2	202,157	1/2	188,310	1/2	173,808	1/2	158,835	1/2	143,816	1/2	128,798	1/2	113,779	1/2	98,761	1/2	83,742			
3/4	3/4	201,877	3/4	188,014	3/4	173,499	3/4	158,522	3/4	143,503	3/4	128,485	3/4	113,466	3/4	98,448	3/4	83,429			
6	6	201,597	6	187,718	6	173,190	6	158,209	6	143,190	6	128,172	6	113,153	6	98,135	6	83,117			
1/4	1/4	201,318	1/4	187,422	1/4	172,881	1/4	157,896	1/4	142,878	1/4	127,859	1/4	112,841	1/4	97,822	1/4	82,804			
1/2	1/2	201,038	1/2	187,125	1/2	172,572	1/2	157,583	1/2	142,565	1/2	127,546	1/2	112,528	1/2	97,509	1/2	82,491			
3/4	3/4	200,757	3/4	186,828	3/4	172,262	3/4	157,270	3/4	142,252	3/4	127,233	3/4	112,215	3/4	97,196	3/4	82,178			
7	7	200,476	7	186,531	7	171,952	7	156,957	7	141,939	7	126,920	7	111,902	7	96,884	7	81,865			
1/4	1/4	200,195	1/4	186,233	1/4	171,642	1/4	156,644	1/4	141,626	1/4	126,608	1/4	111,589	1/4	96,571	1/4	81,552			
1/2	1/2	199,914	1/2	185,936	1/2	171,332	1/2	156,332	1/2	141,313	1/2	126,295	1/2	111,276	1/2	96,258	1/2	81,239			
3/4	3/4	199,630	3/4	185,638	3/4	171,020	3/4	156,019	3/4	141,000	3/4	125,982	3/4	110,963	3/4	95,945	3/4	80,926			
8	8	199,346	8	185,339	8	170,709	8	155,706	8	140,687	8	125,669	8	110,650	8	95,632	8	80,614			
1/4	1/4	199,062	1/4	185,041	1/4	170,398	1/4	155,393	1/4	140,374	1/4	125,356	1/4	110,338	1/4	95,319	1/4	80,301			
1/2	1/2	198,778	1/2	184,742	1/2	170,087	1/2	155,080	1/2	140,062	1/2	125,043	1/2	110,025	1/2	95,006	1/2	79,988			
3/4	3/4	198,492	3/4	184,443	3/4	169,775	3/4	154,767	3/4	139,749	3/4	124,730	3/4	109,712	3/4	94,693	3/4	79,675			
9	9	198,205	9	184,144	9	169,463	9	154,454	9	139,436	9	124,417	9	109,399	9	94,380	9	79,362			
1/4	1/4	197,919	1/4	183,844	1/4	169,151	1/4	154,141	1/4	139,123	1/4	124,104	1/4	109,086	1/4	94,068	1/4	79,049			
1/2	1/2	197,632	1/2	183,545	1/2	168,839	1/2	153,828	1/2	138,810	1/2	123,792	1/2	108,773	1/2	93,755	1/2	78,736			
3/4	3/4	197,344	3/4	183,244	3/4	168,527	3/4	153,516	3/4	138,497	3/4	123,479	3/4	108,460	3/4	93,442	3/4	78,423			
10	10	197,057	10	182,943	10	168,215	10	153,203	10	138,184	10	123,166	10	108,147	10	93,129	10	78,110			
1/4	1/4	196,769	1/4	182,643	1/4	167,903	1/4	152,890	1/4	137,871	1/4	122,853	1/4	107,834	1/4	92,816	1/4	77,798			
1/2	1/2	196,482	1/2	182,342	1/2	167,591	1/2	152,577	1/2	137,558	1/2	122,540	1/2	107,522	1/2	92,503	1/2	77,485			
3/4	3/4	196,193	3/4	182,041	3/4	167,279	3/4	152,264	3/4	137,246	3/4	122,227	3/4	107,209	3/4	92,190	3/4	77,172			
11	11	195,904	11	181,739	11	166,967	11	151,951	11	136,933	11	121,914	11	106,896	11	91,877	11	76,859			
1/4	1/4	195,616	1/4	181,437	1/4	166,655	1/4	151,638	1/4	136,620	1/4	121,601	1/4	106,583	1/4	91,564	1/4	76,546			
1/2	1/2	195,327	1/2	181,135	1/2	166,342	1/2	151,325	1/2	136,307	1/2	121,288	1/2	106,270	1/2	91,252	1/2	76,233			
3/4	3/4	208,083	3/4	195,038	3/4	180,833	3/4	166,030	3/4	151,013	3/4	135,994	3/4	120,976	3/4	105,957	3/4	90,939	3/4	75,920	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "HFL 477"

1 STBD ULLAGE TABLE

CU ULLAGE VOLUME GALLONS

GAUGE HEIGHT 15'-05 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	75,607	0	60,589	0	45,581	0	31,176	0	17,764	0	5,293	0	0	0	0	0	0	0	0
1/4	75,294	1/4	60,276	1/4	45,270	1/4	30,886	1/4	17,495	1/4	5,043	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,982	1/2	59,963	1/2	44,960	1/2	30,596	1/2	17,226	1/2	4,793	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,669	3/4	59,650	3/4	44,652	3/4	30,307	3/4	16,958	3/4	4,545	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	74,356	1	59,337	1	44,343	1	30,019	1	16,690	1	4,297	1	1	1	1	1	1	1	1
1/4	74,043	1/4	59,024	1/4	44,035	1/4	29,730	1/4	16,421	1/4	4,049	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,730	1/2	58,712	1/2	43,726	1/2	29,442	1/2	16,153	1/2	3,801	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	73,417	3/4	58,399	3/4	43,419	3/4	29,155	3/4	15,886	3/4	3,554	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	73,104	2	58,086	2	43,113	2	28,869	2	15,620	2	3,308	2	2	2	2	2	2	2	2
1/4	72,791	1/4	57,773	1/4	42,806	1/4	28,582	1/4	15,353	1/4	3,061	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	72,479	1/2	57,460	1/2	42,499	1/2	28,295	1/2	15,087	1/2	2,815	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,166	3/4	57,147	3/4	42,194	3/4	28,010	3/4	14,822	3/4	2,575	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	71,853	3	56,834	3	41,889	3	27,725	3	14,557	3	2,335	3	3	3	3	3	3	3	3
1/4	71,540	1/4	56,521	1/4	41,584	1/4	27,440	1/4	14,292	1/4	2,095	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,227	1/2	56,209	1/2	41,278	1/2	27,155	1/2	14,027	1/2	1,855	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,914	3/4	55,896	3/4	40,975	3/4	26,872	3/4	13,764	3/4	1,661	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	70,601	4	55,583	4	40,672	4	26,589	4	13,501	4	1,467	4	4	4	4	4	4	4	4
1/4	70,288	1/4	55,270	1/4	40,368	1/4	26,306	1/4	13,238	1/4	1,273	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,975	1/2	54,957	1/2	40,065	1/2	26,022	1/2	12,974	1/2	1,078	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,663	3/4	54,644	3/4	39,763	3/4	25,742	3/4	12,713	3/4	955	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	69,350	5	54,331	5	39,461	5	25,461	5	12,451	5	831	5	5	5	5	5	5	5	5
1/4	69,037	1/4	54,018	1/4	39,159	1/4	25,180	1/4	12,190	1/4	708	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,724	1/2	53,705	1/2	38,858	1/2	24,899	1/2	11,928	1/2	584	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,411	3/4	53,393	3/4	38,557	3/4	24,620	3/4	11,668	3/4	460	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	68,098	6	53,080	6	38,257	6	24,341	6	11,409	6	336	6	6	6	6	6	6	6	6
1/4	67,785	1/4	52,767	1/4	37,957	1/4	24,062	1/4	11,149	1/4	212	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,472	1/2	52,454	1/2	37,657	1/2	23,783	1/2	10,889	1/2	94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,159	3/4	52,141	3/4	37,359	3/4	23,506	3/4	10,631	3/4	30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	66,847	7	51,828	7	37,060	7	23,228	7	10,372	7	16	7	7	7	7	7	7	7	7
1/4	66,534	1/4	51,515	1/4	36,762	1/4	22,951	1/4	10,114	1/4	2	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,221	1/2	51,202	1/2	36,463	1/2	22,674	1/2	9,856	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,908	3/4	50,889	3/4	36,167	3/4	22,398	3/4	9,600	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	65,595	8	50,577	8	35,870	8	22,122	8	9,343	8	1	8	8	8	8	8	8	8	8
1/4	65,282	1/4	50,264	1/4	35,573	1/4	21,846	1/4	9,087	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,969	1/2	49,951	1/2	35,276	1/2	21,571	1/2	8,830	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	64,656	3/4	49,638	3/4	34,981	3/4	21,297	3/4	8,575	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	64,344	9	49,325	9	34,686	9	21,023	9	8,320	9	1	9	9	9	9	9	9	9	9
1/4	64,031	1/4	49,012	1/4	34,391	1/4	20,749	1/4	8,066	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,718	1/2	48,699	1/2	34,096	1/2	20,475	1/2	7,811	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,405	3/4	48,387	3/4	33,803	3/4	20,202	3/4	7,558	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	63,092	10	48,074	10	33,509	10	19,930	10	7,304	10	1	10	10	10	10	10	10	10	10
1/4	62,779	1/4	47,761	1/4	33,216	1/4	19,658	1/4	7,051	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,466	1/2	47,448	1/2	32,923	1/2	19,385	1/2	6,798	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,153	3/4	47,136	3/4	32,631	3/4	19,115	3/4	6,547	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	61,840	11	46,824	11	32,339	11	18,844	11	6,295	11	1	11	11	11	11	11	11	11	11
1/4	61,528	1/4	46,513	1/4	32,047	1/4	18,573	1/4	6,044	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,215	1/2	46,201	1/2	31,756	1/2	18,302	1/2	5,792	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,902	3/4	45,891	3/4	31,466	3/4	18,033	3/4	5,543	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

PRECISION MEASUREMENT
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BARGE "HFL 477"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	214,391	0	200,888	0	186,566	0	171,652	0	156,552	0	141,451	0	126,350	0	111,249	0	96,149
1/4		1/4	214,151	1/4	200,596	1/4	186,260	1/4	171,338	1/4	156,237	1/4	141,136	1/4	126,035	1/4	110,935	1/4	95,834
1/2		1/2	213,912	1/2	200,303	1/2	185,955	1/2	171,023	1/2	155,922	1/2	140,822	1/2	125,721	1/2	110,620	1/2	95,519
3/4		3/4	213,673	3/4	200,011	3/4	185,650	3/4	170,708	3/4	155,608	3/4	140,507	3/4	125,406	3/4	110,306	3/4	95,205
1		1	213,434	1	199,719	1	185,344	1	170,394	1	155,293	1	140,192	1	125,092	1	109,991	1	94,890
1/4		1/4	213,142	1/4	199,425	1/4	185,038	1/4	170,079	1/4	154,979	1/4	139,878	1/4	124,777	1/4	109,676	1/4	94,576
1/2		1/2	212,850	1/2	199,132	1/2	184,732	1/2	169,765	1/2	154,664	1/2	139,563	1/2	124,462	1/2	109,362	1/2	94,261
3/4		3/4	212,559	3/4	198,838	3/4	184,425	3/4	169,450	3/4	154,349	3/4	139,249	3/4	124,148	3/4	109,047	3/4	93,946
2		2	212,267	2	198,545	2	184,119	2	169,135	2	154,035	2	138,934	2	123,833	2	108,733	2	93,632
1/4		1/4	211,989	1/4	198,250	1/4	183,811	1/4	168,821	1/4	153,720	1/4	138,619	1/4	123,519	1/4	108,418	1/4	93,317
1/2		1/2	211,711	1/2	197,956	1/2	183,504	1/2	168,506	1/2	153,406	1/2	138,305	1/2	123,204	1/2	108,103	1/2	93,003
3/4		3/4	211,434	3/4	197,661	3/4	183,197	3/4	168,192	3/4	153,091	3/4	137,990	3/4	122,889	3/4	107,789	3/4	92,688
3		3	211,156	3	197,367	3	182,889	3	167,877	3	152,776	3	137,676	3	122,575	3	107,474	3	92,373
1/4		1/4	210,877	1/4	197,071	1/4	182,580	1/4	167,562	1/4	152,462	1/4	137,361	1/4	122,260	1/4	107,160	1/4	92,059
1/2		1/2	210,598	1/2	196,776	1/2	182,272	1/2	167,248	1/2	152,147	1/2	137,046	1/2	121,946	1/2	106,845	1/2	91,744
3/4		3/4	210,319	3/4	196,480	3/4	181,963	3/4	166,933	3/4	151,833	3/4	136,732	3/4	121,631	3/4	106,530	3/4	91,430
4		4	210,040	4	196,184	4	181,655	4	166,619	4	151,518	4	136,417	4	121,316	4	106,216	4	91,115
1/4		1/4	209,760	1/4	195,888	1/4	181,345	1/4	166,304	1/4	151,203	1/4	136,103	1/4	121,002	1/4	105,901	1/4	90,800
1/2		1/2	209,480	1/2	195,591	1/2	181,036	1/2	165,989	1/2	150,889	1/2	135,788	1/2	120,687	1/2	105,587	1/2	90,486
3/4		3/4	209,200	3/4	195,294	3/4	180,726	3/4	165,675	3/4	150,574	3/4	135,473	3/4	120,373	3/4	105,272	3/4	90,171
5		5	208,919	5	194,997	5	180,416	5	165,360	5	150,260	5	135,159	5	120,058	5	104,957	5	89,857
1/4		1/4	208,638	1/4	194,700	1/4	180,105	1/4	165,046	1/4	149,945	1/4	134,844	1/4	119,744	1/4	104,643	1/4	89,542
1/2		1/2	208,357	1/2	194,402	1/2	179,795	1/2	164,731	1/2	149,630	1/2	134,530	1/2	119,429	1/2	104,328	1/2	89,227
3/4		3/4	208,076	3/4	194,104	3/4	179,484	3/4	164,417	3/4	149,316	3/4	134,215	3/4	119,114	3/4	104,014	3/4	88,913
6		6	207,795	6	193,806	6	179,173	6	164,102	6	149,001	6	133,900	6	118,800	6	103,699	6	88,598
1/4		1/4	207,512	1/4	193,507	1/4	178,861	1/4	163,787	1/4	148,687	1/4	133,586	1/4	118,485	1/4	103,384	1/4	88,284
1/2		1/2	207,230	1/2	193,208	1/2	178,549	1/2	163,473	1/2	148,372	1/2	133,271	1/2	118,171	1/2	103,070	1/2	87,969
3/4		3/4	206,947	3/4	192,909	3/4	178,238	3/4	163,158	3/4	148,057	3/4	132,957	3/4	117,856	3/4	102,755	3/4	87,654
7		7	206,665	7	192,610	7	177,926	7	162,844	7	147,743	7	132,642	7	117,541	7	102,441	7	87,340
1/4		1/4	206,379	1/4	192,310	1/4	177,613	1/4	162,529	1/4	147,428	1/4	132,327	1/4	117,227	1/4	102,126	1/4	87,025
1/2		1/2	206,094	1/2	192,010	1/2	177,300	1/2	162,214	1/2	147,114	1/2	132,013	1/2	116,912	1/2	101,811	1/2	86,711
3/4		3/4	205,808	3/4	191,710	3/4	176,987	3/4	161,900	3/4	146,799	3/4	131,698	3/4	116,598	3/4	101,497	3/4	86,396
8		8	205,523	8	191,410	8	176,674	8	161,585	8	146,484	8	131,384	8	116,283	8	101,182	8	86,081
1/4		1/4	205,235	1/4	191,109	1/4	176,361	1/4	161,271	1/4	146,170	1/4	131,069	1/4	115,968	1/4	100,868	1/4	85,767
1/2		1/2	204,946	1/2	190,808	1/2	176,047	1/2	160,956	1/2	145,855	1/2	130,754	1/2	115,654	1/2	100,553	1/2	85,452
3/4		3/4	204,658	3/4	190,507	3/4	175,733	3/4	160,641	3/4	145,541	3/4	130,440	3/4	115,339	3/4	100,238	3/4	85,138
9		9	204,370	9	190,206	9	175,420	9	160,327	9	145,226	9	130,125	9	115,025	9	99,924	9	84,823
1/4		1/4	204,081	1/4	189,903	1/4	175,106	1/4	160,012	1/4	144,911	1/4	129,811	1/4	114,710	1/4	99,609	1/4	84,508
1/2		1/2	203,792	1/2	189,601	1/2	174,792	1/2	159,698	1/2	144,597	1/2	129,496	1/2	114,395	1/2	99,295	1/2	84,194
3/4		3/4	203,503	3/4	189,299	3/4	174,478	3/4	159,383	3/4	144,282	3/4	129,181	3/4	114,081	3/4	98,980	3/4	83,879
10		10	203,213	10	188,997	10	174,165	10	159,068	10	143,968	10	128,867	10	113,766	10	98,665	10	83,565
1/4		1/4	202,923	1/4	188,693	1/4	173,851	1/4	158,754	1/4	143,653	1/4	128,552	1/4	113,452	1/4	98,351	1/4	83,250
1/2		1/2	202,633	1/2	188,390	1/2	173,537	1/2	158,439	1/2	143,338	1/2	128,238	1/2	113,137	1/2	98,036	1/2	82,935
3/4		3/4	202,343	3/4	188,087	3/4	173,223	3/4	158,125	3/4	143,024	3/4	127,923	3/4	112,822	3/4	97,722	3/4	82,621
11		11	202,053	11	187,783	11	172,909	11	157,810	11	142,709	11	127,608	11	112,508	11	97,407	11	82,306
1/4		1/4	214,878	1/4	201,762	1/4	187,479	1/4	172,595	1/4	157,495	1/4	142,395	1/4	127,294	1/4	97,092	1/4	81,992
1/2		1/2	214,716	1/2	201,470	1/2	187,175	1/2	172,281	1/2	157,181	1/2	142,080	1/2	126,979	1/2	96,778	1/2	81,677
3/4		3/4	214,553	3/4	201,179	3/4	186,870	3/4	171,967	3/4	156,866	3/4	141,765	3/4	126,665	3/4	96,463	3/4	81,362

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588
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BARGE "HFL 477"

2 PORT ULLAGE TABLE

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

Gauge Height 15'-05"

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	81,048	0	65,947	0	50,846	0	35,799	0	21,252	0	6,152	0		0		0		0	
1/4	80,733	1/4	65,633	1/4	50,532	1/4	35,497	1/4	20,937	1/4	5,838	1/4		1/4		1/4		1/4	
1/2	80,419	1/2	65,318	1/2	50,217	1/2	35,194	1/2	20,623	1/2	5,523	1/2		1/2		1/2		1/2	
3/4	80,104	3/4	65,003	3/4	49,903	3/4	34,891	3/4	20,309	3/4	5,208	3/4		3/4		3/4		3/4	
1	79,789	1	64,689	1	49,588	1	34,588	1	19,994	1	4,894	1		1		1		1	
1/4	79,475	1/4	64,374	1/4	49,273	1/4	34,286	1/4	19,680	1/4	4,579	1/4		1/4		1/4		1/4	
1/2	79,160	1/2	64,060	1/2	48,959	1/2	33,983	1/2	19,365	1/2	4,265	1/2		1/2		1/2		1/2	
3/4	78,846	3/4	63,745	3/4	48,644	3/4	33,680	3/4	19,050	3/4	3,950	3/4		3/4		3/4		3/4	
2	78,531	2	63,430	2	48,330	2	33,378	2	18,736	2	3,636	2		2		2		2	
1/4	78,216	1/4	63,116	1/4	48,015	1/4	33,075	1/4	18,421	1/4	3,321	1/4		1/4		1/4		1/4	
1/2	77,902	1/2	62,801	1/2	47,700	1/2	32,772	1/2	18,107	1/2	3,016	1/2		1/2		1/2		1/2	
3/4	77,587	3/4	62,487	3/4	47,386	3/4	32,470	3/4	17,792	3/4	2,706	3/4		3/4		3/4		3/4	
3	77,273	3	62,172	3	47,071	3	32,167	3	17,477	3	2,397	3		3		3		3	
1/4	76,958	1/4	61,857	1/4	46,757	1/4	31,864	1/4	17,163	1/4	2,131	1/4		1/4		1/4		1/4	
1/2	76,643	1/2	61,543	1/2	46,442	1/2	31,562	1/2	16,848	1/2	1,866	1/2		1/2		1/2		1/2	
3/4	76,329	3/4	61,228	3/4	46,127	3/4	31,260	3/4	16,534	3/4	1,600	3/4		3/4		3/4		3/4	
4	76,014	4	60,914	4	45,813	4	30,957	4	16,219	4	1,335	4		4		4		4	
1/4	75,700	1/4	60,599	1/4	45,498	1/4	30,656	1/4	15,905	1/4	1,148	1/4		1/4		1/4		1/4	
1/2	75,385	1/2	60,284	1/2	45,184	1/2	30,354	1/2	15,590	1/2	961	1/2		1/2		1/2		1/2	
3/4	75,071	3/4	59,970	3/4	44,869	3/4	30,052	3/4	15,275	3/4	774	3/4		3/4		3/4		3/4	
5	74,756	5	59,655	5	44,554	5	29,751	5	14,961	5	588	5		5		5		5	
1/4	74,441	1/4	59,341	1/4	44,240	1/4	29,449	1/4	14,646	1/4		1/4		1/4		1/4		1/4	
1/2	74,127	1/2	59,026	1/2	43,925	1/2	29,148	1/2	14,332	1/2		1/2		1/2		1/2		1/2	
3/4	73,812	3/4	58,711	3/4	43,611	3/4	28,846	3/4	14,017	3/4		3/4		3/4		3/4		3/4	
6	73,498	6	58,397	6	43,296	6	28,544	6	13,702	6		6		6		6		6	
1/4	73,183	1/4	58,082	1/4	42,981	1/4	28,243	1/4	13,388	1/4		1/4		1/4		1/4		1/4	
1/2	72,868	1/2	57,768	1/2	42,667	1/2	27,941	1/2	13,073	1/2		1/2		1/2		1/2		1/2	
3/4	72,554	3/4	57,453	3/4	42,352	3/4	27,640	3/4	12,759	3/4		3/4		3/4		3/4		3/4	
7	72,239	7	57,138	7	42,038	7	27,338	7	12,444	7		7		7		7		7	
1/4	71,925	1/4	56,824	1/4	41,723	1/4	27,036	1/4	12,129	1/4		1/4		1/4		1/4		1/4	
1/2	71,610	1/2	56,509	1/2	41,408	1/2	26,735	1/2	11,815	1/2		1/2		1/2		1/2		1/2	
3/4	71,295	3/4	56,195	3/4	41,094	3/4	26,433	3/4	11,500	3/4		3/4		3/4		3/4		3/4	
8	70,981	8	55,880	8	40,779	8	26,132	8	11,186	8		8		8		8		8	
1/4	70,666	1/4	55,565	1/4	40,465	1/4	25,830	1/4	10,871	1/4		1/4		1/4		1/4		1/4	
1/2	70,352	1/2	55,251	1/2	40,150	1/2	25,528	1/2	10,556	1/2		1/2		1/2		1/2		1/2	
3/4	70,037	3/4	54,936	3/4	39,835	3/4	25,227	3/4	10,242	3/4		3/4		3/4		3/4		3/4	
9	69,722	9	54,622	9	39,521	9	24,925	9	9,927	9		9		9		9		9	
1/4	69,408	1/4	54,307	1/4	39,206	1/4	24,624	1/4	9,613	1/4		1/4		1/4		1/4		1/4	
1/2	69,093	1/2	53,992	1/2	38,892	1/2	24,322	1/2	9,298	1/2		1/2		1/2		1/2		1/2	
3/4	68,779	3/4	53,678	3/4	38,577	3/4	24,020	3/4	8,984	3/4		3/4		3/4		3/4		3/4	
10	68,464	10	53,363	10	38,262	10	23,719	10	8,669	10		10		10		10		10	
1/4	68,149	1/4	53,049	1/4	37,949	1/4	23,416	1/4	8,354	1/4		1/4		1/4		1/4		1/4	
1/2	67,835	1/2	52,734	1/2	37,636	1/2	23,113	1/2	8,040	1/2		1/2		1/2		1/2		1/2	
3/4	67,520	3/4	52,419	3/4	37,323	3/4	22,809	3/4	7,725	3/4		3/4		3/4		3/4		3/4	
11	67,206	11	52,105	11	37,010	11	22,506	11	7,411	11		11		11		11		11	
1/4	66,891	1/4	51,790	1/4	36,707	1/4	22,193	1/4	7,096	1/4		1/4		1/4		1/4		1/4	
1/2	66,576	1/2	51,476	1/2	36,405	1/2	21,879	1/2	6,781	1/2		1/2		1/2		1/2		1/2	
3/4	66,262	3/4	51,161	3/4	36,102	3/4	21,566	3/4	6,467	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

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



BARGE "HFL 477"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

Table with columns for height (0 FT. to 9 FT.) and corresponding capacity values in whole gallons. Rows include integer height values and fractional increments (1/4, 1/2, 3/4).

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC.

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BARGE "HFL 477"

2 STBD ULLAGE TABLE

CERTIFIED ULLAGE GALLONS

GAUGE HEIGHT 15'-04 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	81,426	0	66,304	0	51,182	0	36,060	0	20,968	0	5,846	0		0		0		0	
1/4	81,111	1/4	65,989	1/4	50,867	1/4	35,745	1/4	20,652	1/4	5,531	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,796	1/2	65,674	1/2	50,552	1/2	35,430	1/2	20,337	1/2	5,216	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,481	3/4	65,359	3/4	50,237	3/4	35,115	3/4	20,022	3/4	4,901	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	80,166	1	65,044	1	49,922	1	34,800	1	19,707	1	4,586	1	1	1	1	1	1	1	1
1/4	79,851	1/4	64,729	1/4	49,607	1/4	34,485	1/4	19,392	1/4	4,271	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,536	1/2	64,414	1/2	49,292	1/2	34,170	1/2	19,077	1/2	3,956	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,221	3/4	64,099	3/4	48,977	3/4	33,855	3/4	18,762	3/4	3,641	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	78,906	2	63,784	2	48,662	2	33,540	2	18,447	2	3,326	2	2	2	2	2	2	2	2
1/4	78,591	1/4	63,469	1/4	48,347	1/4	33,225	1/4	18,132	1/4	3,020	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,276	1/2	63,154	1/2	48,032	1/2	32,910	1/2	17,817	1/2	2,710	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,961	3/4	62,839	3/4	47,717	3/4	32,595	3/4	17,502	3/4	2,400	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	77,646	3	62,524	3	47,402	3	32,280	3	17,187	3	2,134	3	3	3	3	3	3	3	3
1/4	77,331	1/4	62,209	1/4	47,087	1/4	31,965	1/4	16,872	1/4	1,868	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,016	1/2	61,894	1/2	46,772	1/2	31,650	1/2	16,557	1/2	1,603	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,701	3/4	61,579	3/4	46,456	3/4	31,335	3/4	16,242	3/4	1,337	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	76,386	4	61,263	4	46,141	4	31,021	4	15,927	4	1,150	4	4	4	4	4	4	4	4
1/4	76,070	1/4	60,948	1/4	45,826	1/4	30,707	1/4	15,612	1/4	963	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,755	1/2	60,633	1/2	45,511	1/2	30,393	1/2	15,297	1/2	776	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,440	3/4	60,318	3/4	45,196	3/4	30,078	3/4	14,982	3/4	588	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	75,125	5	60,003	5	44,881	5	29,764	5	14,667	5		5	5	5	5	5	5	5	5
1/4	74,810	1/4	59,688	1/4	44,566	1/4	29,450	1/4	14,352	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,495	1/2	59,373	1/2	44,251	1/2	29,136	1/2	14,037	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,180	3/4	59,058	3/4	43,936	3/4	28,822	3/4	13,722	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	73,865	6	58,743	6	43,621	6	28,508	6	13,407	6		6	6	6	6	6	6	6	6
1/4	73,550	1/4	58,428	1/4	43,306	1/4	28,194	1/4	13,092	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	73,235	1/2	58,113	1/2	42,991	1/2	27,880	1/2	12,777	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	72,920	3/4	57,798	3/4	42,676	3/4	27,565	3/4	12,462	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	72,605	7	57,483	7	42,361	7	27,251	7	12,147	7		7	7	7	7	7	7	7	7
1/4	72,290	1/4	57,168	1/4	42,046	1/4	26,937	1/4	11,832	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,975	1/2	56,853	1/2	41,731	1/2	26,623	1/2	11,517	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,660	3/4	56,538	3/4	41,416	3/4	26,309	3/4	11,201	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	71,345	8	56,223	8	41,101	8	25,995	8	10,886	8		8	8	8	8	8	8	8	8
1/4	71,030	1/4	55,908	1/4	40,786	1/4	25,681	1/4	10,571	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,715	1/2	55,593	1/2	40,471	1/2	25,367	1/2	10,256	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,400	3/4	55,278	3/4	40,156	3/4	25,052	3/4	9,941	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	70,085	9	54,963	9	39,841	9	24,738	9	9,626	9		9	9	9	9	9	9	9	9
1/4	69,770	1/4	54,648	1/4	39,526	1/4	24,424	1/4	9,311	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,455	1/2	54,333	1/2	39,210	1/2	24,110	1/2	8,996	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,140	3/4	54,018	3/4	38,895	3/4	23,796	3/4	8,681	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	68,825	10	53,702	10	38,580	10	23,482	10	8,366	10		10	10	10	10	10	10	10	10
1/4	68,509	1/4	53,387	1/4	38,265	1/4	23,168	1/4	8,051	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,194	1/2	53,072	1/2	37,950	1/2	22,854	1/2	7,736	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,879	3/4	52,757	3/4	37,635	3/4	22,539	3/4	7,421	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	67,564	11	52,442	11	37,320	11	22,225	11	7,106	11		11	11	11	11	11	11	11	11
1/4	67,249	1/4	52,127	1/4	37,005	1/4	21,911	1/4	6,791	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,934	1/2	51,812	1/2	36,690	1/2	21,597	1/2	6,476	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,619	3/4	51,497	3/4	36,375	3/4	21,283	3/4	6,161	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.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
PRINTED: 04/07/2025 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

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



BARGE "HFL 477"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0	0	193,987	0	185,079	0	175,384	0	165,094	0	154,629	0	141,629	0	126,508	0	111,387	0	96,265	
1/4	1/4	193,843	1/4	184,883	1/4	175,175	1/4	164,876	1/4	154,411	1/4	141,314	1/4	126,193	1/4	111,072	1/4	95,950	
1/2	1/2	193,699	1/2	184,687	1/2	174,966	1/2	164,658	1/2	154,193	1/2	140,999	1/2	125,878	1/2	110,757	1/2	95,634	
3/4	3/4	193,555	3/4	184,491	3/4	174,757	3/4	164,440	3/4	153,975	3/4	140,684	3/4	125,563	3/4	110,442	3/4	95,319	
1	1	193,412	1	184,295	1	174,548	1	164,222	1	153,757	1	140,369	1	125,248	1	110,127	1	95,004	
1/4	1/4	193,215	1/4	184,098	1/4	174,338	1/4	164,004	1/4	153,539	1/4	140,054	1/4	124,933	1/4	109,812	1/4	94,689	
1/2	1/2	193,019	1/2	183,901	1/2	174,128	1/2	163,786	1/2	153,321	1/2	139,739	1/2	124,618	1/2	109,497	1/2	94,373	
3/4	3/4	192,822	3/4	183,704	3/4	173,918	3/4	163,568	3/4	153,103	3/4	139,424	3/4	124,303	3/4	109,182	3/4	94,058	
2	2	192,626	2	183,507	2	173,708	2	163,350	2	152,885	2	139,109	2	123,988	2	108,867	2	93,743	
1/4	1/4	192,443	1/4	183,309	1/4	173,497	1/4	163,132	1/4	152,667	1/4	138,794	1/4	123,673	1/4	108,552	1/4	93,428	
1/2	1/2	192,260	1/2	183,111	1/2	173,286	1/2	162,914	1/2	152,449	1/2	138,479	1/2	123,358	1/2	108,237	1/2	93,112	
3/4	3/4	192,078	3/4	182,913	3/4	173,074	3/4	162,696	3/4	152,231	3/4	138,164	3/4	123,043	3/4	107,922	3/4	92,797	
3	3	191,895	3	182,715	3	172,863	3	162,478	3	152,013	3	137,849	3	122,728	3	107,607	3	92,482	
1/4	1/4	191,712	1/4	182,516	1/4	172,651	1/4	162,260	1/4	151,795	1/4	137,534	1/4	122,413	1/4	107,292	1/4	92,167	
1/2	1/2	191,528	1/2	182,316	1/2	172,439	1/2	162,042	1/2	151,577	1/2	137,219	1/2	122,098	1/2	106,977	1/2	91,851	
3/4	3/4	191,344	3/4	182,117	3/4	172,227	3/4	161,824	3/4	151,359	3/4	136,904	3/4	121,783	3/4	106,662	3/4	91,536	
4	4	191,160	4	181,918	4	172,014	4	161,606	4	151,141	4	136,589	4	121,468	4	106,347	4	91,221	
1/4	1/4	190,976	1/4	181,718	1/4	171,801	1/4	161,388	1/4	150,917	1/4	136,274	1/4	121,153	1/4	106,032	1/4	90,906	
1/2	1/2	190,791	1/2	181,517	1/2	171,588	1/2	161,170	1/2	150,693	1/2	135,959	1/2	120,838	1/2	105,717	1/2	90,590	
3/4	3/4	190,606	3/4	181,317	3/4	171,374	3/4	160,952	3/4	150,469	3/4	135,644	3/4	120,523	3/4	105,401	3/4	90,275	
5	5	190,421	5	181,117	5	171,161	5	160,734	5	150,244	5	135,329	5	120,208	5	105,086	5	89,960	
1/4	1/4	190,235	1/4	180,915	1/4	170,947	1/4	160,516	1/4	149,972	1/4	135,014	1/4	119,892	1/4	104,771	1/4	89,645	
1/2	1/2	190,049	1/2	180,714	1/2	170,732	1/2	160,298	1/2	149,699	1/2	134,698	1/2	119,577	1/2	104,456	1/2	89,330	
3/4	3/4	189,863	3/4	180,512	3/4	170,518	3/4	160,080	3/4	149,426	3/4	134,383	3/4	119,262	3/4	104,141	3/4	89,015	
6	6	189,677	6	180,311	6	170,303	6	159,862	6	149,153	6	134,068	6	118,947	6	103,826	6	88,700	
1/4	1/4	189,490	1/4	180,108	1/4	170,088	1/4	159,644	1/4	148,840	1/4	133,753	1/4	118,632	1/4	103,511	1/4	88,385	
1/2	1/2	189,303	1/2	179,906	1/2	169,872	1/2	159,426	1/2	148,526	1/2	133,438	1/2	118,317	1/2	103,196	1/2	88,070	
3/4	3/4	189,116	3/4	179,703	3/4	169,657	3/4	159,208	3/4	148,212	3/4	133,123	3/4	118,002	3/4	102,881	3/4	87,755	
7	7	188,929	7	179,501	7	169,441	7	158,990	7	147,899	7	132,808	7	117,687	7	102,566	7	87,440	
1/4	1/4	188,739	1/4	179,297	1/4	169,225	1/4	158,772	1/4	147,585	1/4	132,493	1/4	117,372	1/4	102,251	1/4	87,125	
1/2	1/2	188,550	1/2	179,094	1/2	169,008	1/2	158,554	1/2	147,271	1/2	132,178	1/2	117,057	1/2	101,936	1/2	86,810	
3/4	3/4	188,360	3/4	178,890	3/4	168,791	3/4	158,336	3/4	146,957	3/4	131,863	3/4	116,742	3/4	101,621	3/4	86,495	
8	8	188,171	8	178,686	8	168,575	8	158,118	8	146,644	8	131,548	8	116,427	8	101,306	8	86,180	
1/4	1/4	187,979	1/4	178,482	1/4	168,357	1/4	157,900	1/4	146,330	1/4	131,233	1/4	116,112	1/4	100,991	1/4	85,865	
1/2	1/2	187,787	1/2	178,277	1/2	168,140	1/2	157,682	1/2	146,016	1/2	130,918	1/2	115,797	1/2	100,676	1/2	85,550	
3/4	3/4	187,595	3/4	178,072	3/4	167,923	3/4	157,464	3/4	145,703	3/4	130,603	3/4	115,482	3/4	100,361	3/4	85,235	
9	9	187,404	9	177,867	9	167,706	9	157,246	9	145,389	9	130,288	9	115,167	9	100,046	9	84,920	
1/4	1/4	187,211	1/4	177,661	1/4	167,488	1/4	157,028	1/4	145,075	1/4	129,973	1/4	114,852	1/4	99,731	1/4	84,605	
1/2	1/2	187,018	1/2	177,456	1/2	167,271	1/2	156,810	1/2	144,762	1/2	129,658	1/2	114,537	1/2	99,416	1/2	84,290	
3/4	3/4	186,826	3/4	177,250	3/4	167,053	3/4	156,592	3/4	144,448	3/4	129,343	3/4	114,222	3/4	99,101	3/4	83,976	
10	10	186,633	10	177,044	10	166,836	10	156,374	10	144,135	10	129,028	10	113,907	10	98,786	10	83,661	
1/4	1/4	186,439	1/4	176,837	1/4	166,618	1/4	156,156	1/4	143,822	1/4	128,713	1/4	113,592	1/4	98,471	1/4	83,346	
1/2	1/2	186,245	1/2	176,630	1/2	166,401	1/2	155,937	1/2	143,508	1/2	128,398	1/2	113,277	1/2	98,156	1/2	83,031	
3/4	3/4	186,052	3/4	176,423	3/4	166,183	3/4	155,719	3/4	143,195	3/4	128,083	3/4	112,962	3/4	97,841	3/4	82,716	
11	11	185,858	11	176,216	11	165,966	11	155,501	11	142,882	11	127,768	11	112,647	11	97,526	11	82,401	
1/4	194,188	185,663	1/4	176,008	1/4	165,748	1/4	155,283	1/4	142,569	1/4	127,453	1/4	112,332	1/4	97,210	1/4	82,086	
1/2	194,121	185,469	1/2	175,800	1/2	165,530	1/2	155,065	1/2	142,256	1/2	127,138	1/2	112,017	1/2	96,895	1/2	81,771	
3/4	194,054	185,274	3/4	175,592	3/4	165,312	3/4	154,847	3/4	141,942	3/4	126,823	3/4	111,702	3/4	96,580	3/4	81,457	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 477"

3 PORT ULLAGE TABLE

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

GAUGE HEIGHT 15'-05"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	81,142	0	66,138	0	51,013	0	35,883	0	21,230	0	6,176	0		0		0		0	
1/4	80,829	1/4	65,823	1/4	50,697	1/4	35,568	1/4	20,926	1/4	5,860	1/4		1/4		1/4		1/4	
1/2	80,517	1/2	65,508	1/2	50,382	1/2	35,253	1/2	20,622	1/2	5,545	1/2		1/2		1/2		1/2	
3/4	80,204	3/4	65,194	3/4	50,067	3/4	34,938	3/4	20,318	3/4	5,229	3/4		3/4		3/4		3/4	
1	79,892	1	64,879	1	49,752	1	34,623	1	20,014	1	4,914	1		1		1		1	
1/4	79,579	1/4	64,564	1/4	49,437	1/4	34,309	1/4	19,708	1/4	4,598	1/4		1/4		1/4		1/4	
1/2	79,266	1/2	64,250	1/2	49,121	1/2	33,995	1/2	19,402	1/2	4,282	1/2		1/2		1/2		1/2	
3/4	78,953	3/4	63,935	3/4	48,806	3/4	33,681	3/4	19,097	3/4	3,966	3/4		3/4		3/4		3/4	
2	78,640	2	63,620	2	48,491	2	33,367	2	18,791	2	3,650	2		2		2		2	
1/4	78,327	1/4	63,305	1/4	48,176	1/4	33,063	1/4	18,476	1/4	3,339	1/4		1/4		1/4		1/4	
1/2	78,015	1/2	62,990	1/2	47,861	1/2	32,759	1/2	18,160	1/2	3,028	1/2		1/2		1/2		1/2	
3/4	77,702	3/4	62,675	3/4	47,545	3/4	32,454	3/4	17,845	3/4	2,718	3/4		3/4		3/4		3/4	
3	77,389	3	62,359	3	47,230	3	32,150	3	17,529	3	2,407	3		3		3		3	
1/4	77,076	1/4	62,044	1/4	46,915	1/4	31,846	1/4	17,214	1/4	2,140	1/4		1/4		1/4		1/4	
1/2	76,763	1/2	61,729	1/2	46,600	1/2	31,542	1/2	16,899	1/2	1,873	1/2		1/2		1/2		1/2	
3/4	76,450	3/4	61,414	3/4	46,285	3/4	31,238	3/4	16,583	3/4	1,607	3/4		3/4		3/4		3/4	
4	76,137	4	61,099	4	45,969	4	30,934	4	16,268	4	1,340	4		4		4		4	
1/4	75,825	1/4	60,783	1/4	45,654	1/4	30,631	1/4	15,953	1/4	1,153	1/4		1/4		1/4		1/4	
1/2	75,512	1/2	60,468	1/2	45,339	1/2	30,328	1/2	15,637	1/2	965	1/2		1/2		1/2		1/2	
3/4	75,199	3/4	60,153	3/4	45,024	3/4	30,024	3/4	15,322	3/4	778	3/4		3/4		3/4		3/4	
5	74,886	5	59,838	5	44,709	5	29,721	5	15,006	5	590	5		5		5		5	
1/4	74,573	1/4	59,523	1/4	44,394	1/4	29,418	1/4	14,691	1/4		1/4		1/4		1/4		1/4	
1/2	74,260	1/2	59,207	1/2	44,078	1/2	29,115	1/2	14,376	1/2		1/2		1/2		1/2		1/2	
3/4	73,948	3/4	58,892	3/4	43,763	3/4	28,811	3/4	14,060	3/4		3/4		3/4		3/4		3/4	
6	73,635	6	58,577	6	43,448	6	28,508	6	13,745	6		6		6		6		6	
1/4	73,322	1/4	58,262	1/4	43,133	1/4	28,205	1/4	13,430	1/4		1/4		1/4		1/4		1/4	
1/2	73,010	1/2	57,947	1/2	42,818	1/2	27,902	1/2	13,114	1/2		1/2		1/2		1/2		1/2	
3/4	72,698	3/4	57,632	3/4	42,502	3/4	27,599	3/4	12,799	3/4		3/4		3/4		3/4		3/4	
7	72,385	7	57,316	7	42,187	7	27,295	7	12,483	7		7		7		7		7	
1/4	72,073	1/4	57,001	1/4	41,872	1/4	26,992	1/4	12,168	1/4		1/4		1/4		1/4		1/4	
1/2	71,761	1/2	56,686	1/2	41,557	1/2	26,689	1/2	11,853	1/2		1/2		1/2		1/2		1/2	
3/4	71,448	3/4	56,371	3/4	41,242	3/4	26,386	3/4	11,537	3/4		3/4		3/4		3/4		3/4	
8	71,136	8	56,056	8	40,926	8	26,082	8	11,222	8		8		8		8		8	
1/4	70,824	1/4	55,740	1/4	40,611	1/4	25,779	1/4	10,906	1/4		1/4		1/4		1/4		1/4	
1/2	70,511	1/2	55,425	1/2	40,296	1/2	25,476	1/2	10,591	1/2		1/2		1/2		1/2		1/2	
3/4	70,199	3/4	55,110	3/4	39,981	3/4	25,173	3/4	10,276	3/4		3/4		3/4		3/4		3/4	
9	69,887	9	54,795	9	39,666	9	24,870	9	9,960	9		9		9		9		9	
1/4	69,574	1/4	54,480	1/4	39,351	1/4	24,566	1/4	9,645	1/4		1/4		1/4		1/4		1/4	
1/2	69,262	1/2	54,164	1/2	39,035	1/2	24,263	1/2	9,330	1/2		1/2		1/2		1/2		1/2	
3/4	68,950	3/4	53,849	3/4	38,720	3/4	23,960	3/4	9,014	3/4		3/4		3/4		3/4		3/4	
10	68,637	10	53,534	10	38,405	10	23,657	10	8,699	10		10		10		10		10	
1/4	68,325	1/4	53,219	1/4	38,090	1/4	23,353	1/4	8,383	1/4		1/4		1/4		1/4		1/4	
1/2	68,013	1/2	52,904	1/2	37,775	1/2	23,050	1/2	8,068	1/2		1/2		1/2		1/2		1/2	
3/4	67,700	3/4	52,588	3/4	37,459	3/4	22,747	3/4	7,753	3/4		3/4		3/4		3/4		3/4	
11	67,388	11	52,273	11	37,144	11	22,444	11	7,437	11		11		11		11		11	
1/4	67,075	1/4	51,958	1/4	36,829	1/4	22,140	1/4	7,122	1/4		1/4		1/4		1/4		1/4	
1/2	66,763	1/2	51,643	1/2	36,514	1/2	21,837	1/2	6,806	1/2		1/2		1/2		1/2		1/2	
3/4	66,450	3/4	51,328	3/4	36,199	3/4	21,534	3/4	6,491	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2025 JS
CALCULATED: 04/07/2025 CL
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& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025



BARGE "HFL 477"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
0	0	195,834	0	187,135	0	177,417	0	167,098	0	156,583	0	143,717	0	128,515	0	113,310	0	98,104			
1/4	1/4	195,766	1/4	186,939	1/4	177,208	1/4	166,879	1/4	156,364	1/4	143,402	1/4	128,198	1/4	112,993	1/4	97,787			
1/2	1/2	195,699	1/2	186,743	1/2	176,999	1/2	166,660	1/2	156,145	1/2	143,087	1/2	127,881	1/2	112,676	1/2	97,470			
3/4	3/4	195,554	3/4	186,546	3/4	176,789	3/4	166,441	3/4	155,926	3/4	142,770	3/4	127,565	3/4	112,359	3/4	97,153			
1	1	195,410	1	186,349	1	176,579	1	166,222	1	155,707	1	142,453	1	127,248	1	112,042	1	96,836			
1/4	1/4	195,265	1/4	186,152	1/4	176,369	1/4	166,003	1/4	155,488	1/4	142,137	1/4	126,931	1/4	111,726	1/4	96,519			
1/2	1/2	195,120	1/2	185,956	1/2	176,159	1/2	165,784	1/2	155,269	1/2	141,820	1/2	126,614	1/2	111,409	1/2	96,202			
3/4	3/4	194,923	3/4	185,758	3/4	175,948	3/4	165,565	3/4	155,050	3/4	141,503	3/4	126,298	3/4	111,092	3/4	95,885			
2	2	194,725	2	185,560	2	175,737	2	165,346	2	154,831	2	141,186	2	125,981	2	110,775	2	95,568			
1/4	1/4	194,528	1/4	185,361	1/4	175,526	1/4	165,127	1/4	154,612	1/4	140,869	1/4	125,664	1/4	110,459	1/4	95,251			
1/2	1/2	194,330	1/2	185,163	1/2	175,315	1/2	164,908	1/2	154,393	1/2	140,553	1/2	125,347	1/2	110,142	1/2	94,934			
3/4	3/4	194,147	3/4	184,964	3/4	175,103	3/4	164,689	3/4	154,174	3/4	140,236	3/4	125,030	3/4	109,825	3/4	94,617			
3	3	193,963	3	184,765	3	174,890	3	164,469	3	153,955	3	139,919	3	124,714	3	109,508	3	94,300			
1/4	1/4	193,780	1/4	184,566	1/4	174,678	1/4	164,250	1/4	153,735	1/4	139,602	1/4	124,397	1/4	109,191	1/4	93,983			
1/2	1/2	193,596	1/2	184,367	1/2	174,466	1/2	164,031	1/2	153,516	1/2	139,286	1/2	124,080	1/2	108,875	1/2	93,666			
3/4	3/4	193,411	3/4	184,167	3/4	174,253	3/4	163,812	3/4	153,297	3/4	138,969	3/4	123,763	3/4	108,558	3/4	93,349			
4	4	193,226	4	183,966	4	174,040	4	163,593	4	153,078	4	138,652	4	123,447	4	108,241	4	93,032			
1/4	1/4	193,042	1/4	183,766	1/4	173,826	1/4	163,374	1/4	152,859	1/4	138,335	1/4	123,130	1/4	107,924	1/4	92,715			
1/2	1/2	192,857	1/2	183,566	1/2	173,613	1/2	163,155	1/2	152,640	1/2	138,018	1/2	122,813	1/2	107,608	1/2	92,398			
3/4	3/4	192,671	3/4	183,365	3/4	173,399	3/4	162,936	3/4	152,415	3/4	137,702	3/4	122,496	3/4	107,291	3/4	92,080			
5	5	192,485	5	183,163	5	173,184	5	162,717	5	152,190	5	137,385	5	122,179	5	106,974	5	91,763			
1/4	1/4	192,300	1/4	182,962	1/4	172,970	1/4	162,498	1/4	151,965	1/4	137,068	1/4	121,863	1/4	106,657	1/4	91,446			
1/2	1/2	192,114	1/2	182,761	1/2	172,756	1/2	162,279	1/2	151,739	1/2	136,751	1/2	121,546	1/2	106,340	1/2	91,129			
3/4	3/4	191,927	3/4	182,558	3/4	172,540	3/4	162,060	3/4	151,466	3/4	136,434	3/4	121,229	3/4	106,024	3/4	90,812			
6	6	191,740	6	182,356	6	172,325	6	161,841	6	151,192	6	136,118	6	120,912	6	105,707	6	90,495			
1/4	1/4	191,553	1/4	182,153	1/4	172,109	1/4	161,622	1/4	150,918	1/4	135,801	1/4	120,596	1/4	105,390	1/4	90,178			
1/2	1/2	191,366	1/2	181,951	1/2	171,894	1/2	161,403	1/2	150,644	1/2	135,484	1/2	120,279	1/2	105,073	1/2	89,861			
3/4	3/4	191,178	3/4	181,747	3/4	171,677	3/4	161,184	3/4	150,329	3/4	135,167	3/4	119,962	3/4	104,757	3/4	89,544			
7	7	190,990	7	181,544	7	171,461	7	160,964	7	150,014	7	134,851	7	119,645	7	104,440	7	89,227			
1/4	1/4	190,801	1/4	181,340	1/4	171,244	1/4	160,745	1/4	149,700	1/4	134,534	1/4	119,328	1/4	104,123	1/4	88,910			
1/2	1/2	190,613	1/2	181,137	1/2	171,027	1/2	160,526	1/2	149,385	1/2	134,217	1/2	119,012	1/2	103,806	1/2	88,593			
3/4	3/4	190,423	3/4	180,932	3/4	170,810	3/4	160,307	3/4	149,070	3/4	133,900	3/4	118,695	3/4	103,489	3/4	88,276			
8	8	190,232	8	180,727	8	170,592	8	160,088	8	148,755	8	133,583	8	118,378	8	103,173	8	87,959			
1/4	1/4	190,042	1/4	180,523	1/4	170,375	1/4	159,869	1/4	148,440	1/4	133,267	1/4	118,061	1/4	102,856	1/4	87,642			
1/2	1/2	189,851	1/2	180,318	1/2	170,157	1/2	159,650	1/2	148,125	1/2	132,950	1/2	117,745	1/2	102,539	1/2	87,325			
3/4	3/4	189,658	3/4	180,112	3/4	169,939	3/4	159,431	3/4	147,810	3/4	132,633	3/4	117,428	3/4	102,222	3/4	87,008			
9	9	189,466	9	179,906	9	169,720	9	159,212	9	147,496	9	132,316	9	117,111	9	101,906	9	86,691			
1/4	1/4	189,273	1/4	179,701	1/4	169,502	1/4	158,993	1/4	147,181	1/4	132,000	1/4	116,794	1/4	101,589	1/4	86,374			
1/2	1/2	189,080	1/2	179,495	1/2	169,284	1/2	158,774	1/2	146,866	1/2	131,683	1/2	116,477	1/2	101,272	1/2	86,057			
3/4	3/4	188,886	3/4	179,288	3/4	169,065	3/4	158,555	3/4	146,551	3/4	131,366	3/4	116,161	3/4	100,955	3/4	85,740			
10	10	188,693	10	179,081	10	168,847	10	158,336	10	146,236	10	131,049	10	115,844	10	100,638	10	85,423			
1/4	1/4	188,499	1/4	178,874	1/4	168,628	1/4	158,117	1/4	145,921	1/4	130,732	1/4	115,527	1/4	100,322	1/4	85,106			
1/2	1/2	188,305	1/2	178,667	1/2	168,410	1/2	157,898	1/2	145,607	1/2	130,416	1/2	115,210	1/2	100,005	1/2	84,789			
3/4	3/4	188,111	3/4	178,459	3/4	168,191	3/4	157,679	3/4	145,292	3/4	130,099	3/4	114,893	3/4	99,688	3/4	84,472			
11	11	187,916	11	178,251	11	167,972	11	157,460	11	144,977	11	129,782	11	114,577	11	99,371	11	84,155			
1/4	1/4	187,721	1/4	178,043	1/4	167,754	1/4	157,240	1/4	144,662	1/4	129,465	1/4	114,260	1/4	99,054	1/4	83,838			
1/2	1/2	187,526	1/2	177,835	1/2	167,535	1/2	157,021	1/2	144,347	1/2	129,149	1/2	113,943	1/2	98,737	1/2	83,521			
3/4	3/4	195,901	3/4	187,331	3/4	177,626	3/4	167,317	3/4	156,802	3/4	144,032	3/4	128,832	3/4	113,626	3/4	98,420	3/4	83,204	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 477"

3 STBD ULLAGE TABLE

GRAINAGE CUBIC FEET
WATER GALLONS

GAUGE HEIGHT 15'-05 1/2"

N	10 FT.	N	11 FT.	N	12 FT.	N	13 FT.	N	14 FT.	N	15 FT.	N	16 FT.	N	17 FT.	N	18 FT.	N	19 FT.
0	82,887	0	67,670	0	52,454	0	37,237	0	22,048	0	6,833	0		0		0		0	
1/4	82,570	1/4	67,353	1/4	52,137	1/4	36,920	1/4	21,732	1/4	6,516	1/4	1/4		1/4		1/4		1/4
1/2	82,253	1/2	67,036	1/2	51,820	1/2	36,603	1/2	21,416	1/2	6,199	1/2	1/2		1/2		1/2		1/2
3/4	81,936	3/4	66,719	3/4	51,503	3/4	36,286	3/4	21,099	3/4	5,882	3/4	3/4		3/4		3/4		3/4
1	81,619	1	66,402	1	51,186	1	35,969	1	20,782	1	5,565	1	1		1		1		1
1/4	81,302	1/4	66,085	1/4	50,869	1/4	35,652	1/4	20,465	1/4	5,248	1/4	1/4		1/4		1/4		1/4
1/2	80,985	1/2	65,768	1/2	50,552	1/2	35,335	1/2	20,148	1/2	4,931	1/2	1/2		1/2		1/2		1/2
3/4	80,668	3/4	65,451	3/4	50,235	3/4	35,018	3/4	19,831	3/4	4,614	3/4	3/4		3/4		3/4		3/4
2	80,351	2	65,134	2	49,918	2	34,701	2	19,514	2	4,297	2	2		2		2		2
1/4	80,034	1/4	64,817	1/4	49,601	1/4	34,384	1/4	19,197	1/4	3,980	1/4	1/4		1/4		1/4		1/4
1/2	79,717	1/2	64,500	1/2	49,283	1/2	34,067	1/2	18,880	1/2	3,663	1/2	1/2		1/2		1/2		1/2
3/4	79,400	3/4	64,183	3/4	48,966	3/4	33,750	3/4	18,563	3/4	3,351	3/4	3/4		3/4		3/4		3/4
3	79,083	3	63,866	3	48,649	3	33,433	3	18,246	3	3,039	3	3		3		3		3
1/4	78,766	1/4	63,549	1/4	48,332	1/4	33,116	1/4	17,929	1/4	2,727	1/4	1/4		1/4		1/4		1/4
1/2	78,449	1/2	63,232	1/2	48,015	1/2	32,799	1/2	17,612	1/2	2,415	1/2	1/2		1/2		1/2		1/2
3/4	78,132	3/4	62,915	3/4	47,698	3/4	32,482	3/4	17,295	3/4	2,148	3/4	3/4		3/4		3/4		3/4
4	77,815	4	62,598	4	47,381	4	32,165	4	16,978	4	1,880	4	4		4		4		4
1/4	77,498	1/4	62,281	1/4	47,064	1/4	31,848	1/4	16,661	1/4	1,613	1/4	1/4		1/4		1/4		1/4
1/2	77,181	1/2	61,964	1/2	46,747	1/2	31,531	1/2	16,344	1/2	1,345	1/2	1/2		1/2		1/2		1/2
3/4	76,864	3/4	61,647	3/4	46,430	3/4	31,215	3/4	16,027	3/4	1,157	3/4	3/4		3/4		3/4		3/4
5	76,547	5	61,330	5	46,113	5	30,899	5	15,710	5	969	5	5		5		5		5
1/4	76,230	1/4	61,013	1/4	45,796	1/4	30,583	1/4	15,393	1/4	780	1/4	1/4		1/4		1/4		1/4
1/2	75,913	1/2	60,696	1/2	45,479	1/2	30,267	1/2	15,076	1/2	592	1/2	1/2		1/2		1/2		1/2
3/4	75,596	3/4	60,379	3/4	45,162	3/4	29,951	3/4	14,759	3/4		3/4	3/4		3/4		3/4		3/4
6	75,279	6	60,062	6	44,845	6	29,635	6	14,442	6		6	6		6		6		6
1/4	74,962	1/4	59,745	1/4	44,528	1/4	29,318	1/4	14,125	1/4		1/4	1/4		1/4		1/4		1/4
1/2	74,645	1/2	59,428	1/2	44,211	1/2	29,002	1/2	13,808	1/2		1/2	1/2		1/2		1/2		1/2
3/4	74,328	3/4	59,111	3/4	43,894	3/4	28,686	3/4	13,491	3/4		3/4	3/4		3/4		3/4		3/4
7	74,011	7	58,794	7	43,577	7	28,370	7	13,174	7		7	7		7		7		7
1/4	73,694	1/4	58,477	1/4	43,260	1/4	28,054	1/4	12,856	1/4		1/4	1/4		1/4		1/4		1/4
1/2	73,377	1/2	58,160	1/2	42,943	1/2	27,738	1/2	12,539	1/2		1/2	1/2		1/2		1/2		1/2
3/4	73,060	3/4	57,843	3/4	42,626	3/4	27,422	3/4	12,222	3/4		3/4	3/4		3/4		3/4		3/4
8	72,743	8	57,526	8	42,309	8	27,106	8	11,905	8		8	8		8		8		8
1/4	72,426	1/4	57,209	1/4	41,992	1/4	26,790	1/4	11,588	1/4		1/4	1/4		1/4		1/4		1/4
1/2	72,109	1/2	56,892	1/2	41,675	1/2	26,474	1/2	11,271	1/2		1/2	1/2		1/2		1/2		1/2
3/4	71,792	3/4	56,575	3/4	41,358	3/4	26,158	3/4	10,954	3/4		3/4	3/4		3/4		3/4		3/4
9	71,475	9	56,258	9	41,041	9	25,841	9	10,637	9		9	9		9		9		9
1/4	71,158	1/4	55,941	1/4	40,724	1/4	25,525	1/4	10,320	1/4		1/4	1/4		1/4		1/4		1/4
1/2	70,841	1/2	55,624	1/2	40,407	1/2	25,209	1/2	10,003	1/2		1/2	1/2		1/2		1/2		1/2
3/4	70,523	3/4	55,307	3/4	40,090	3/4	24,893	3/4	9,686	3/4		3/4	3/4		3/4		3/4		3/4
10	70,206	10	54,990	10	39,773	10	24,577	10	9,369	10		10	10		10		10		10
1/4	69,889	1/4	54,673	1/4	39,456	1/4	24,261	1/4	9,052	1/4		1/4	1/4		1/4		1/4		1/4
1/2	69,572	1/2	54,356	1/2	39,139	1/2	23,945	1/2	8,735	1/2		1/2	1/2		1/2		1/2		1/2
3/4	69,255	3/4	54,039	3/4	38,822	3/4	23,629	3/4	8,418	3/4		3/4	3/4		3/4		3/4		3/4
11	68,938	11	53,722	11	38,505	11	23,313	11	8,101	11		11	11		11		11		11
1/4	68,621	1/4	53,405	1/4	38,188	1/4	22,997	1/4	7,784	1/4		1/4	1/4		1/4		1/4		1/4
1/2	68,304	1/2	53,088	1/2	37,871	1/2	22,680	1/2	7,467	1/2		1/2	1/2		1/2		1/2		1/2
3/4	67,987	3/4	52,771	3/4	37,554	3/4	22,364	3/4	7,150	3/4		3/4	3/4		3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2025

