



# BARGE "HFL 421"

## 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	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

August 1, 2013

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

<http://www.pmacorp.net>





# BARGE "HFL 421"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	86,845	0	71,834	0	56,875	0	41,916	0	26,905	0	12,052	0		0		0		0	
1/4	86,532	1/4	71,521	1/4	56,564	1/4	41,603	1/4	26,592	1/4	11,758	1/4		1/4		1/4		1/4	
1/2	86,220	1/2	71,208	1/2	56,254	1/2	41,290	1/2	26,279	1/2	11,465	1/2		1/2		1/2		1/2	
3/4	85,907	3/4	70,896	3/4	55,943	3/4	40,978	3/4	25,967	3/4	11,171	3/4		3/4		3/4		3/4	
1	85,594	1	70,583	1	55,633	1	40,665	1	25,654	1	10,878	1		1		1		1	
1/4	85,281	1/4	70,270	1/4	55,323	1/4	40,352	1/4	25,341	1/4	10,588	1/4		1/4		1/4		1/4	
1/2	84,969	1/2	69,957	1/2	55,012	1/2	40,039	1/2	25,029	1/2	10,299	1/2		1/2		1/2		1/2	
3/4	84,656	3/4	69,645	3/4	54,702	3/4	39,727	3/4	24,716	3/4	10,009	3/4		3/4		3/4		3/4	
2	84,343	2	69,332	2	54,392	2	39,414	2	24,403	2	9,719	2		2		2		2	
1/4	84,030	1/4	69,019	1/4	54,081	1/4	39,101	1/4	24,090	1/4	9,434	1/4		1/4		1/4		1/4	
1/2	83,718	1/2	68,706	1/2	53,771	1/2	38,789	1/2	23,778	1/2	9,148	1/2		1/2		1/2		1/2	
3/4	83,405	3/4	68,394	3/4	53,461	3/4	38,476	3/4	23,465	3/4	8,862	3/4		3/4		3/4		3/4	
3	83,092	3	68,081	3	53,150	3	38,163	3	23,152	3	8,576	3		3		3		3	
1/4	82,780	1/4	67,768	1/4	52,840	1/4	37,850	1/4	22,839	1/4	8,294	1/4		1/4		1/4		1/4	
1/2	82,467	1/2	67,455	1/2	52,529	1/2	37,538	1/2	22,527	1/2	8,012	1/2		1/2		1/2		1/2	
3/4	82,154	3/4	67,143	3/4	52,218	3/4	37,225	3/4	22,214	3/4	7,731	3/4		3/4		3/4		3/4	
4	81,841	4	66,830	4	51,908	4	36,912	4	21,901	4	7,449	4		4		4		4	
1/4	81,529	1/4	66,517	1/4	51,597	1/4	36,599	1/4	21,589	1/4	7,171	1/4		1/4		1/4		1/4	
1/2	81,216	1/2	66,204	1/2	51,286	1/2	36,287	1/2	21,276	1/2	6,892	1/2		1/2		1/2		1/2	
3/4	80,903	3/4	65,892	3/4	50,975	3/4	35,974	3/4	20,963	3/4	6,614	3/4		3/4		3/4		3/4	
5	80,590	5	65,579	5	50,664	5	35,661	5	20,650	5	6,336	5		5		5		5	
1/4	80,278	1/4	65,266	1/4	50,352	1/4	35,349	1/4	20,338	1/4	6,062	1/4		1/4		1/4		1/4	
1/2	79,965	1/2	64,954	1/2	50,041	1/2	35,036	1/2	20,025	1/2	5,788	1/2		1/2		1/2		1/2	
3/4	79,652	3/4	64,641	3/4	49,730	3/4	34,723	3/4	19,712	3/4	5,514	3/4		3/4		3/4		3/4	
6	79,339	6	64,329	6	49,418	6	34,410	6	19,399	6	5,239	6		6		6		6	
1/4	79,027	1/4	64,017	1/4	49,106	1/4	34,098	1/4	19,087	1/4	4,969	1/4		1/4		1/4		1/4	
1/2	78,714	1/2	63,706	1/2	48,794	1/2	33,785	1/2	18,774	1/2	4,699	1/2		1/2		1/2		1/2	
3/4	78,401	3/4	63,394	3/4	48,482	3/4	33,472	3/4	18,461	3/4	4,428	3/4		3/4		3/4		3/4	
7	78,088	7	63,083	7	48,170	7	33,159	7	18,149	7	4,158	7		7		7		7	
1/4	77,776	1/4	62,772	1/4	47,858	1/4	32,847	1/4	17,837	1/4	3,892	1/4		1/4		1/4		1/4	
1/2	77,463	1/2	62,462	1/2	47,545	1/2	32,534	1/2	17,525	1/2	3,625	1/2		1/2		1/2		1/2	
3/4	77,150	3/4	62,151	3/4	47,232	3/4	32,221	3/4	17,213	3/4	3,359	3/4		3/4		3/4		3/4	
8	76,838	8	61,841	8	46,919	8	31,909	8	16,901	8	3,093	8		8		8		8	
1/4	76,525	1/4	61,530	1/4	46,607	1/4	31,596	1/4	16,593	1/4	2,831	1/4		1/4		1/4		1/4	
1/2	76,212	1/2	61,220	1/2	46,294	1/2	31,283	1/2	16,284	1/2	2,569	1/2		1/2		1/2		1/2	
3/4	75,899	3/4	60,909	3/4	45,981	3/4	30,970	3/4	15,975	3/4	2,308	3/4		3/4		3/4		3/4	
9	75,587	9	60,599	9	45,669	9	30,658	9	15,666	9	2,046	9		9		9		9	
1/4	75,274	1/4	60,289	1/4	45,356	1/4	30,345	1/4	15,361	1/4	1,808	1/4		1/4		1/4		1/4	
1/2	74,961	1/2	59,978	1/2	45,043	1/2	30,032	1/2	15,056	1/2	1,569	1/2		1/2		1/2		1/2	
3/4	74,648	3/4	59,668	3/4	44,730	3/4	29,719	3/4	14,751	3/4	1,331	3/4		3/4		3/4		3/4	
10	74,336	10	59,358	10	44,418	10	29,407	10	14,446	10	1,092	10		10		10		10	
1/4	74,023	1/4	59,047	1/4	44,105	1/4	29,094	1/4	14,145	1/4	915	1/4		1/4		1/4		1/4	
1/2	73,710	1/2	58,737	1/2	43,792	1/2	28,781	1/2	13,844	1/2	739	1/2		1/2		1/2		1/2	
3/4	73,397	3/4	58,426	3/4	43,479	3/4	28,469	3/4	13,542	3/4	562	3/4		3/4		3/4		3/4	
11	73,085	11	58,116	11	43,167	11	28,156	11	13,241	11	385	11		11		11		11	
1/4	72,772	1/4	57,806	1/4	42,854	1/4	27,843	1/4	12,944	1/4		1/4		1/4		1/4		1/4	
1/2	72,459	1/2	57,495	1/2	42,541	1/2	27,530	1/2	12,647	1/2		1/2		1/2		1/2		1/2	
3/4	72,146	3/4	57,185	3/4	42,229	3/4	27,218	3/4	12,349	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2013 CL  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HFL 421"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

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	86,962	0	71,947	0	56,936	0	41,925	0	26,911	0	12,055	0		0		0		0	
1/4	86,649	1/4	71,634	1/4	56,623	1/4	41,612	1/4	26,598	1/4	11,761	1/4	1/4		1/4		1/4		1/4
1/2	86,336	1/2	71,321	1/2	56,311	1/2	41,300	1/2	26,285	1/2	11,468	1/2	1/2		1/2		1/2		1/2
3/4	86,023	3/4	71,009	3/4	55,998	3/4	40,987	3/4	25,973	3/4	11,174	3/4	3/4		3/4		3/4		3/4
1	85,710	1	70,696	1	55,686	1	40,674	1	25,660	1	10,880	1	1		1		1		1
1/4	85,398	1/4	70,383	1/4	55,373	1/4	40,361	1/4	25,347	1/4	10,591	1/4	1/4		1/4		1/4		1/4
1/2	85,085	1/2	70,070	1/2	55,061	1/2	40,048	1/2	25,034	1/2	10,301	1/2	1/2		1/2		1/2		1/2
3/4	84,772	3/4	69,757	3/4	54,748	3/4	39,736	3/4	24,721	3/4	10,011	3/4	3/4		3/4		3/4		3/4
2	84,459	2	69,445	2	54,435	2	39,423	2	24,409	2	9,722	2	2		2		2		2
1/4	84,146	1/4	69,132	1/4	54,123	1/4	39,110	1/4	24,096	1/4	9,436	1/4	1/4		1/4		1/4		1/4
1/2	83,834	1/2	68,819	1/2	53,810	1/2	38,797	1/2	23,783	1/2	9,150	1/2	1/2		1/2		1/2		1/2
3/4	83,521	3/4	68,506	3/4	53,498	3/4	38,484	3/4	23,470	3/4	8,864	3/4	3/4		3/4		3/4		3/4
3	83,208	3	68,193	3	53,185	3	38,172	3	23,157	3	8,578	3	3		3		3		3
1/4	82,895	1/4	67,881	1/4	52,872	1/4	37,859	1/4	22,845	1/4	8,296	1/4	1/4		1/4		1/4		1/4
1/2	82,582	1/2	67,568	1/2	52,560	1/2	37,546	1/2	22,532	1/2	8,014	1/2	1/2		1/2		1/2		1/2
3/4	82,270	3/4	67,255	3/4	52,247	3/4	37,233	3/4	22,219	3/4	7,732	3/4	3/4		3/4		3/4		3/4
4	81,957	4	66,942	4	51,935	4	36,921	4	21,906	4	7,450	4	4		4		4		4
1/4	81,644	1/4	66,629	1/4	51,622	1/4	36,608	1/4	21,593	1/4	7,172	1/4	1/4		1/4		1/4		1/4
1/2	81,331	1/2	66,316	1/2	51,309	1/2	36,295	1/2	21,281	1/2	6,894	1/2	1/2		1/2		1/2		1/2
3/4	81,018	3/4	66,004	3/4	50,996	3/4	35,982	3/4	20,968	3/4	6,616	3/4	3/4		3/4		3/4		3/4
5	80,706	5	65,691	5	50,684	5	35,669	5	20,655	5	6,338	5	5		5		5		5
1/4	80,393	1/4	65,378	1/4	50,371	1/4	35,357	1/4	20,342	1/4	6,064	1/4	1/4		1/4		1/4		1/4
1/2	80,080	1/2	65,065	1/2	50,058	1/2	35,044	1/2	20,029	1/2	5,789	1/2	1/2		1/2		1/2		1/2
3/4	79,767	3/4	64,752	3/4	49,745	3/4	34,731	3/4	19,717	3/4	5,515	3/4	3/4		3/4		3/4		3/4
6	79,454	6	64,440	6	49,432	6	34,418	6	19,404	6	5,241	6	6		6		6		6
1/4	79,142	1/4	64,127	1/4	49,120	1/4	34,105	1/4	19,091	1/4	4,970	1/4	1/4		1/4		1/4		1/4
1/2	78,829	1/2	63,814	1/2	48,807	1/2	33,793	1/2	18,778	1/2	4,700	1/2	1/2		1/2		1/2		1/2
3/4	78,516	3/4	63,501	3/4	48,494	3/4	33,480	3/4	18,466	3/4	4,429	3/4	3/4		3/4		3/4		3/4
7	78,203	7	63,188	7	48,181	7	33,167	7	18,153	7	4,159	7	7		7		7		7
1/4	77,890	1/4	62,876	1/4	47,868	1/4	32,854	1/4	17,841	1/4	3,893	1/4	1/4		1/4		1/4		1/4
1/2	77,578	1/2	62,563	1/2	47,556	1/2	32,541	1/2	17,529	1/2	3,626	1/2	1/2		1/2		1/2		1/2
3/4	77,265	3/4	62,250	3/4	47,243	3/4	32,229	3/4	17,217	3/4	3,360	3/4	3/4		3/4		3/4		3/4
8	76,952	8	61,937	8	46,930	8	31,916	8	16,905	8	3,094	8	8		8		8		8
1/4	76,639	1/4	61,625	1/4	46,617	1/4	31,603	1/4	16,596	1/4	2,832	1/4	1/4		1/4		1/4		1/4
1/2	76,326	1/2	61,312	1/2	46,304	1/2	31,290	1/2	16,287	1/2	2,570	1/2	1/2		1/2		1/2		1/2
3/4	76,013	3/4	61,000	3/4	45,992	3/4	30,977	3/4	15,979	3/4	2,308	3/4	3/4		3/4		3/4		3/4
9	75,701	9	60,687	9	45,679	9	30,665	9	15,670	9	2,047	9	9		9		9		9
1/4	75,388	1/4	60,374	1/4	45,366	1/4	30,352	1/4	15,364	1/4	1,808	1/4	1/4		1/4		1/4		1/4
1/2	75,075	1/2	60,062	1/2	45,053	1/2	30,039	1/2	15,059	1/2	1,569	1/2	1/2		1/2		1/2		1/2
3/4	74,762	3/4	59,749	3/4	44,740	3/4	29,726	3/4	14,754	3/4	1,331	3/4	3/4		3/4		3/4		3/4
10	74,449	10	59,437	10	44,428	10	29,413	10	14,449	10	1,092	10	10		10		10		10
1/4	74,137	1/4	59,124	1/4	44,115	1/4	29,101	1/4	14,148	1/4	916	1/4	1/4		1/4		1/4		1/4
1/2	73,824	1/2	58,811	1/2	43,802	1/2	28,788	1/2	13,847	1/2	739	1/2	1/2		1/2		1/2		1/2
3/4	73,511	3/4	58,499	3/4	43,489	3/4	28,475	3/4	13,545	3/4	562	3/4	3/4		3/4		3/4		3/4
11	73,198	11	58,186	11	43,176	11	28,162	11	13,244	11	385	11	11		11		11		11
1/4	72,885	1/4	57,874	1/4	42,864	1/4	27,849	1/4	12,947	1/4		1/4	1/4		1/4		1/4		1/4
1/2	72,573	1/2	57,561	1/2	42,551	1/2	27,537	1/2	12,649	1/2		1/2	1/2		1/2		1/2		1/2
3/4	72,260	3/4	57,249	3/4	42,238	3/4	27,224	3/4	12,352	3/4		3/4	3/4		3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2013 CL  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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





# BARGE "HFL 421"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	88,971	0	73,895	0	59,068	0	44,575	0	29,836	0	14,764	0		0		0		0	
1/4	88,657	1/4	73,581	1/4	58,765	1/4	44,274	1/4	29,522	1/4	14,450	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	88,343	1/2	73,267	1/2	58,463	1/2	43,973	1/2	29,209	1/2	14,136	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	88,028	3/4	72,953	3/4	58,161	3/4	43,671	3/4	28,895	3/4	13,822	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	87,714	1	72,639	1	57,858	1	43,370	1	28,581	1	13,508	1	1	1	1	1	1	1	1
1/4	87,400	1/4	72,325	1/4	57,556	1/4	43,069	1/4	28,267	1/4	13,194	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87,086	1/2	72,011	1/2	57,254	1/2	42,767	1/2	27,953	1/2	12,879	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	86,772	3/4	71,697	3/4	56,952	3/4	42,466	3/4	27,639	3/4	12,565	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	86,458	2	71,383	2	56,649	2	42,165	2	27,326	2	12,251	2	2	2	2	2	2	2	2
1/4	86,144	1/4	71,069	1/4	56,347	1/4	41,863	1/4	27,012	1/4	11,937	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	85,830	1/2	70,755	1/2	56,045	1/2	41,562	1/2	26,698	1/2	11,623	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	85,516	3/4	70,441	3/4	55,742	3/4	41,261	3/4	26,384	3/4	11,309	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	85,202	3	70,127	3	55,440	3	40,959	3	26,070	3	10,995	3	3	3	3	3	3	3	3
1/4	84,888	1/4	69,813	1/4	55,138	1/4	40,658	1/4	25,756	1/4	10,681	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	84,574	1/2	69,499	1/2	54,835	1/2	40,356	1/2	25,442	1/2	10,367	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	84,260	3/4	69,184	3/4	54,533	3/4	40,055	3/4	25,128	3/4	10,053	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	83,946	4	68,870	4	54,231	4	39,754	4	24,814	4	9,739	4	4	4	4	4	4	4	4
1/4	83,632	1/4	68,556	1/4	53,929	1/4	39,452	1/4	24,500	1/4	9,425	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	83,317	1/2	68,242	1/2	53,626	1/2	39,151	1/2	24,186	1/2	9,111	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	83,003	3/4	67,928	3/4	53,324	3/4	38,849	3/4	23,871	3/4	8,797	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	82,689	5	67,614	5	53,022	5	38,547	5	23,557	5	8,483	5	5	5	5	5	5	5	5
1/4	82,375	1/4	67,300	1/4	52,719	1/4	38,245	1/4	23,243	1/4	8,169	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	82,061	1/2	66,986	1/2	52,417	1/2	37,943	1/2	22,929	1/2	7,855	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	81,747	3/4	66,672	3/4	52,115	3/4	37,641	3/4	22,615	3/4	7,541	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	81,433	6	66,358	6	51,813	6	37,338	6	22,301	6	7,226	6	6	6	6	6	6	6	6
1/4	81,119	1/4	66,044	1/4	51,510	1/4	37,036	1/4	21,987	1/4	6,912	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	80,805	1/2	65,736	1/2	51,208	1/2	36,728	1/2	21,673	1/2	6,598	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	80,491	3/4	65,427	3/4	50,906	3/4	36,420	3/4	21,359	3/4	6,284	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	80,177	7	65,119	7	50,604	7	36,111	7	21,045	7	5,970	7	7	7	7	7	7	7	7
1/4	79,863	1/4	64,811	1/4	50,303	1/4	35,803	1/4	20,731	1/4	5,656	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	79,549	1/2	64,509	1/2	50,001	1/2	35,489	1/2	20,417	1/2	5,342	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	79,235	3/4	64,207	3/4	49,699	3/4	35,175	3/4	20,103	3/4	5,029	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	78,921	8	63,904	8	49,398	8	34,861	8	19,789	8	4,715	8	8	8	8	8	8	8	8
1/4	78,606	1/4	63,602	1/4	49,096	1/4	34,547	1/4	19,475	1/4	4,401	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	78,292	1/2	63,300	1/2	48,795	1/2	34,233	1/2	19,161	1/2	4,088	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77,978	3/4	62,997	3/4	48,493	3/4	33,919	3/4	18,847	3/4	3,775	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	77,664	9	62,695	9	48,192	9	33,605	9	18,533	9	3,462	9	9	9	9	9	9	9	9
1/4	77,350	1/4	62,393	1/4	47,890	1/4	33,291	1/4	18,218	1/4	3,149	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	77,036	1/2	62,090	1/2	47,589	1/2	32,977	1/2	17,904	1/2	2,855	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	76,722	3/4	61,788	3/4	47,288	3/4	32,663	3/4	17,590	3/4	2,562	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	76,408	10	61,486	10	46,986	10	32,349	10	17,276	10	2,268	10	10	10	10	10	10	10	10
1/4	76,094	1/4	61,184	1/4	46,685	1/4	32,035	1/4	16,962	1/4	1,974	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	75,780	1/2	60,881	1/2	46,384	1/2	31,721	1/2	16,648	1/2	1,739	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	75,466	3/4	60,579	3/4	46,082	3/4	31,407	3/4	16,334	3/4	1,503	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	75,152	11	60,277	11	45,781	11	31,092	11	16,020	11	1,268	11	11	11	11	11	11	11	11
1/4	74,838	1/4	59,974	1/4	45,479	1/4	30,778	1/4	15,706	1/4	1,032	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74,524	1/2	59,672	1/2	45,178	1/2	30,464	1/2	15,392	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	74,210	3/4	59,370	3/4	44,877	3/4	30,150	3/4	15,078	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: 08/01/2013 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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















**BARGE "HFL 421"**

**3 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	89,743	0	74,731	0	59,719	0	44,710	0	29,713	0	14,702	0		0		0		0	
1/4	89,430	1/4	74,418	1/4	59,406	1/4	44,397	1/4	29,401	1/4	14,389	1/4		1/4		1/4		1/4	
1/2	89,117	1/2	74,105	1/2	59,093	1/2	44,085	1/2	29,088	1/2	14,076	1/2		1/2		1/2		1/2	
3/4	88,804	3/4	73,793	3/4	58,781	3/4	43,773	3/4	28,775	3/4	13,764	3/4		3/4		3/4		3/4	
1	88,492	1	73,480	1	58,468	1	43,461	1	28,462	1	13,451	1		1		1		1	
1/4	88,179	1/4	73,167	1/4	58,155	1/4	43,148	1/4	28,150	1/4	13,138	1/4		1/4		1/4		1/4	
1/2	87,866	1/2	72,854	1/2	57,842	1/2	42,836	1/2	27,837	1/2	12,826	1/2		1/2		1/2		1/2	
3/4	87,553	3/4	72,542	3/4	57,530	3/4	42,524	3/4	27,524	3/4	12,513	3/4		3/4		3/4		3/4	
2	87,241	2	72,229	2	57,217	2	42,212	2	27,211	2	12,200	2		2		2		2	
1/4	86,928	1/4	71,916	1/4	56,904	1/4	41,899	1/4	26,899	1/4	11,887	1/4		1/4		1/4		1/4	
1/2	86,615	1/2	71,603	1/2	56,591	1/2	41,587	1/2	26,586	1/2	11,575	1/2		1/2		1/2		1/2	
3/4	86,302	3/4	71,291	3/4	56,279	3/4	41,275	3/4	26,273	3/4	11,262	3/4		3/4		3/4		3/4	
3	85,990	3	70,978	3	55,966	3	40,963	3	25,961	3	10,949	3		3		3		3	
1/4	85,677	1/4	70,665	1/4	55,653	1/4	40,650	1/4	25,648	1/4	10,636	1/4		1/4		1/4		1/4	
1/2	85,364	1/2	70,352	1/2	55,341	1/2	40,338	1/2	25,335	1/2	10,324	1/2		1/2		1/2		1/2	
3/4	85,051	3/4	70,040	3/4	55,028	3/4	40,026	3/4	25,022	3/4	10,011	3/4		3/4		3/4		3/4	
4	84,739	4	69,727	4	54,715	4	39,714	4	24,710	4	9,698	4		4		4		4	
1/4	84,426	1/4	69,414	1/4	54,402	1/4	39,401	1/4	24,397	1/4	9,385	1/4		1/4		1/4		1/4	
1/2	84,113	1/2	69,101	1/2	54,090	1/2	39,089	1/2	24,084	1/2	9,073	1/2		1/2		1/2		1/2	
3/4	83,801	3/4	68,789	3/4	53,777	3/4	38,777	3/4	23,771	3/4	8,760	3/4		3/4		3/4		3/4	
5	83,488	5	68,476	5	53,464	5	38,465	5	23,459	5	8,447	5		5		5		5	
1/4	83,175	1/4	68,163	1/4	53,151	1/4	38,152	1/4	23,146	1/4	8,134	1/4		1/4		1/4		1/4	
1/2	82,862	1/2	67,850	1/2	52,839	1/2	37,840	1/2	22,833	1/2	7,822	1/2		1/2		1/2		1/2	
3/4	82,550	3/4	67,538	3/4	52,526	3/4	37,528	3/4	22,520	3/4	7,509	3/4		3/4		3/4		3/4	
6	82,237	6	67,225	6	52,213	6	37,216	6	22,208	6	7,196	6		6		6		6	
1/4	81,924	1/4	66,912	1/4	51,900	1/4	36,903	1/4	21,895	1/4	6,884	1/4		1/4		1/4		1/4	
1/2	81,611	1/2	66,599	1/2	51,588	1/2	36,591	1/2	21,582	1/2	6,571	1/2		1/2		1/2		1/2	
3/4	81,299	3/4	66,287	3/4	51,275	3/4	36,279	3/4	21,269	3/4	6,258	3/4		3/4		3/4		3/4	
7	80,986	7	65,974	7	50,962	7	35,967	7	20,957	7	5,945	7		7		7		7	
1/4	80,673	1/4	65,661	1/4	50,649	1/4	35,654	1/4	20,644	1/4	5,633	1/4		1/4		1/4		1/4	
1/2	80,360	1/2	65,348	1/2	50,337	1/2	35,342	1/2	20,331	1/2	5,320	1/2		1/2		1/2		1/2	
3/4	80,048	3/4	65,036	3/4	50,024	3/4	35,029	3/4	20,019	3/4	5,008	3/4		3/4		3/4		3/4	
8	79,735	8	64,723	8	49,711	8	34,717	8	19,706	8	4,695	8		8		8		8	
1/4	79,422	1/4	64,410	1/4	49,398	1/4	34,404	1/4	19,393	1/4	4,383	1/4		1/4		1/4		1/4	
1/2	79,109	1/2	64,097	1/2	49,086	1/2	34,092	1/2	19,080	1/2	4,071	1/2		1/2		1/2		1/2	
3/4	78,797	3/4	63,785	3/4	48,773	3/4	33,779	3/4	18,768	3/4	3,759	3/4		3/4		3/4		3/4	
9	78,484	9	63,472	9	48,460	9	33,466	9	18,455	9	3,447	9		9		9		9	
1/4	78,171	1/4	63,159	1/4	48,147	1/4	33,153	1/4	18,142	1/4	3,136	1/4		1/4		1/4		1/4	
1/2	77,858	1/2	62,846	1/2	47,835	1/2	32,841	1/2	17,829	1/2	2,843	1/2		1/2		1/2		1/2	
3/4	77,546	3/4	62,534	3/4	47,522	3/4	32,528	3/4	17,517	3/4	2,551	3/4		3/4		3/4		3/4	
10	77,233	10	62,221	10	47,209	10	32,215	10	17,204	10	2,258	10		10		10		10	
1/4	76,920	1/4	61,908	1/4	46,897	1/4	31,903	1/4	16,891	1/4	1,966	1/4		1/4		1/4		1/4	
1/2	76,607	1/2	61,595	1/2	46,584	1/2	31,590	1/2	16,578	1/2	1,732	1/2		1/2		1/2		1/2	
3/4	76,295	3/4	61,283	3/4	46,272	3/4	31,277	3/4	16,266	3/4	1,497	3/4		3/4		3/4		3/4	
11	75,982	11	60,970	11	45,959	11	30,964	11	15,953	11	1,262	11		11		11		11	
1/4	75,669	1/4	60,657	1/4	45,647	1/4	30,652	1/4	15,640	1/4	1,028	1/4		1/4		1/4		1/4	
1/2	75,356	1/2	60,344	1/2	45,335	1/2	30,339	1/2	15,327	1/2		1/2		1/2		1/2		1/2	
3/4	75,044	3/4	60,032	3/4	45,022	3/4	30,026	3/4	15,015	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013



# BARGE "HFL 421"

# FUEL TANK ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-06"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	480	0	340	0	177	0	37	0		0		0		0		0	
1/4		1/4	477	1/4	337	1/4	174	1/4	35	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	475	1/2	333	1/2	170	1/2	33	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	473	3/4	330	3/4	167	3/4	31	3/4		3/4		3/4		3/4		3/4	
1		1	470	1	327	1	164	1	29	1		1		1		1		1	
1/4		1/4	468	1/4	323	1/4	161	1/4	27	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	465	1/2	320	1/2	157	1/2	25	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	463	3/4	316	3/4	154	3/4	23	3/4		3/4		3/4		3/4		3/4	
2		2	460	2	313	2	151	2	21	2		2		2		2		2	
1/4		1/4	458	1/4	310	1/4	148	1/4	19	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	455	1/2	306	1/2	144	1/2	17	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	453	3/4	303	3/4	141	3/4	15	3/4		3/4		3/4		3/4		3/4	
3		3	450	3	300	3	138	3	13	3		3		3		3		3	
1/4		1/4	447	1/4	296	1/4	135	1/4	12	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	444	1/2	293	1/2	132	1/2	10	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	442	3/4	289	3/4	129	3/4	9	3/4		3/4		3/4		3/4		3/4	
4		4	439	4	286	4	125	4	7	4		4		4		4		4	
1/4		1/4	436	1/4	282	1/4	122	1/4	6	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	433	1/2	279	1/2	119	1/2	5	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	430	3/4	276	3/4	116	3/4	4	3/4		3/4		3/4		3/4		3/4	
5		5	428	5	272	5	113	5	3	5		5		5		5		5	
1/4		1/4	425	1/4	269	1/4	110	1/4	2	1/4		1/4		1/4		1/4		1/4	
1/2		1/2	422	1/2	265	1/2	107	1/2	1	1/2		1/2		1/2		1/2		1/2	
3/4		3/4	419	3/4	262	3/4	104	3/4	1	3/4		3/4		3/4		3/4		3/4	
6	517	6	416	6	259	6	101	6	0	6		6		6		6		6	
1/4	516	1/4	413	1/4	255	1/4	98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	516	1/2	410	1/2	252	1/2	95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	515	3/4	407	3/4	248	3/4	92	3/4		3/4		3/4		3/4		3/4		3/4	
7	514	7	404	7	245	7	89	7	7	7		7		7		7		7	
1/4	513	1/4	401	1/4	241	1/4	87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	512	1/2	398	1/2	238	1/2	84	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	511	3/4	395	3/4	235	3/4	81	3/4		3/4		3/4		3/4		3/4		3/4	
8	510	8	392	8	231	8	78	8	8	8		8		8		8		8	
1/4	508	1/4	388	1/4	228	1/4	75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	507	1/2	385	1/2	224	1/2	73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	505	3/4	382	3/4	221	3/4	70	3/4		3/4		3/4		3/4		3/4		3/4	
9	504	9	379	9	217	9	67	9	9	9		9		9		9		9	
1/4	502	1/4	376	1/4	214	1/4	64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	500	1/2	373	1/2	211	1/2	62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	498	3/4	369	3/4	207	3/4	59	3/4		3/4		3/4		3/4		3/4		3/4	
10	496	10	366	10	204	10	57	10	10	10		10		10		10		10	
1/4	494	1/4	363	1/4	201	1/4	54	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	492	1/2	360	1/2	197	1/2	52	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	490	3/4	356	3/4	194	3/4	49	3/4		3/4		3/4		3/4		3/4		3/4	
11	488	11	353	11	190	11	47	11	11	11		11		11		11		11	
1/4	486	1/4	350	1/4	187	1/4	44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	484	1/2	347	1/2	184	1/2	42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	482	3/4	343	3/4	180	3/4	40	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

STRAPPED: 08/01/2013 CL  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 421"

## PORT SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,822	0	3,666	0	2,508	0	1,351	0	193	0		0		0	
1/4		1/4		1/4	4,799	1/4	3,642	1/4	2,484	1/4	1,327	1/4	169	1/4		1/4		1/4	
1/2		1/2		1/2	4,775	1/2	3,618	1/2	2,460	1/2	1,303	1/2	145	1/2		1/2		1/2	
3/4		3/4		3/4	4,751	3/4	3,593	3/4	2,436	3/4	1,279	3/4	121	3/4		3/4		3/4	
1		1		1	4,727	1	3,569	1	2,412	1	1,254	1	97	1		1		1	
1/4		1/4		1/4	4,703	1/4	3,545	1/4	2,388	1/4	1,230	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,679	1/2	3,521	1/2	2,364	1/2	1,206	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,655	3/4	3,497	3/4	2,340	3/4	1,182	3/4		3/4		3/4		3/4	
2		2		2	4,631	2	3,473	2	2,316	2	1,158	2		2		2		2	
1/4		1/4		1/4	4,607	1/4	3,449	1/4	2,292	1/4	1,134	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,583	1/2	3,425	1/2	2,268	1/2	1,110	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,559	3/4	3,400	3/4	2,244	3/4	1,086	3/4		3/4		3/4		3/4	
3		3		3	4,534	3	3,376	3	2,219	3	1,062	3		3		3		3	
1/4		1/4		1/4	4,510	1/4	3,352	1/4	2,195	1/4	1,038	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,486	1/2	3,328	1/2	2,171	1/2	1,013	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,462	3/4	3,304	3/4	2,147	3/4	989	3/4		3/4		3/4		3/4	
4		4		4	4,438	4	3,280	4	2,123	4	965	4		4		4		4	
1/4		1/4		1/4	4,414	1/4	3,256	1/4	2,099	1/4	941	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,390	1/2	3,232	1/2	2,075	1/2	917	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,366	3/4	3,207	3/4	2,051	3/4	893	3/4		3/4		3/4		3/4	
5		5		5	4,341	5	3,183	5	2,026	5	869	5		5		5		5	
1/4		1/4		1/4	4,317	1/4	3,159	1/4	2,002	1/4	844	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,293	1/2	3,135	1/2	1,978	1/2	820	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,269	3/4	3,111	3/4	1,954	3/4	796	3/4		3/4		3/4		3/4	
6		6		6	4,245	6	3,087	6	1,930	6	772	6		6		6		6	
1/4		1/4		1/4	4,221	1/4	3,063	1/4	1,906	1/4	748	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,197	1/2	3,039	1/2	1,882	1/2	724	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,173	3/4	3,014	3/4	1,858	3/4	700	3/4		3/4		3/4		3/4	
7		7		7	4,148	7	2,990	7	1,833	7	676	7		7		7		7	
1/4		1/4		1/4	4,124	1/4	2,966	1/4	1,809	1/4	651	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,100	1/2	2,942	1/2	1,785	1/2	627	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,076	3/4	2,918	3/4	1,761	3/4	603	3/4		3/4		3/4		3/4	
8		8	5,154	8	4,052	8	2,894	8	1,737	8	579	8		8		8		8	
1/4		1/4	5,142	1/4	4,028	1/4	2,870	1/4	1,713	1/4	555	1/4		1/4		1/4		1/4	
1/2		1/2	5,130	1/2	4,004	1/2	2,845	1/2	1,689	1/2	531	1/2		1/2		1/2		1/2	
3/4		3/4	5,119	3/4	3,979	3/4	2,821	3/4	1,665	3/4	507	3/4		3/4		3/4		3/4	
9		9	5,107	9	3,955	9	2,797	9	1,640	9	483	9		9		9		9	
1/4		1/4	5,083	1/4	3,931	1/4	2,773	1/4	1,616	1/4	458	1/4		1/4		1/4		1/4	
1/2		1/2	5,060	1/2	3,907	1/2	2,749	1/2	1,592	1/2	434	1/2		1/2		1/2		1/2	
3/4		3/4	5,036	3/4	3,883	3/4	2,725	3/4	1,568	3/4	410	3/4		3/4		3/4		3/4	
10		10	5,012	10	3,859	10	2,701	10	1,544	10	386	10		10		10		10	
1/4		1/4	4,989	1/4	3,835	1/4	2,677	1/4	1,520	1/4	362	1/4		1/4		1/4		1/4	
1/2		1/2	4,965	1/2	3,811	1/2	2,653	1/2	1,496	1/2	338	1/2		1/2		1/2		1/2	
3/4		3/4	4,941	3/4	3,786	3/4	2,628	3/4	1,472	3/4	314	3/4		3/4		3/4		3/4	
11		11	4,918	11	3,762	11	2,604	11	1,447	11	290	11		11		11		11	
1/4		1/4	4,894	1/4	3,738	1/4	2,580	1/4	1,423	1/4	265	1/4		1/4		1/4		1/4	
1/2		1/2	4,870	1/2	3,714	1/2	2,556	1/2	1,399	1/2	241	1/2		1/2		1/2		1/2	
3/4		3/4	4,846	3/4	3,690	3/4	2,532	3/4	1,375	3/4	217	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

STRAPPED: 08/01/2013 CL  
CALCULATED: 08/01/2013 CL  
PRINTED: 08/01/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HFL 421"

## STBD SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-00 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,799	0	3,642	0	2,484	0	1,327	0	169	0		0		0	
1/4		1/4		1/4	4,775	1/4	3,618	1/4	2,460	1/4	1,303	1/4	145	1/4		1/4		1/4	
1/2		1/2		1/2	4,751	1/2	3,593	1/2	2,436	1/2	1,279	1/2	121	1/2		1/2		1/2	
3/4		3/4		3/4	4,727	3/4	3,569	3/4	2,412	3/4	1,254	3/4	97	3/4		3/4		3/4	
1		1		1	4,703	1	3,545	1	2,388	1	1,230	1		1		1		1	
1/4		1/4		1/4	4,679	1/4	3,521	1/4	2,364	1/4	1,206	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,655	1/2	3,497	1/2	2,340	1/2	1,182	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,631	3/4	3,473	3/4	2,316	3/4	1,158	3/4		3/4		3/4		3/4	
2		2		2	4,607	2	3,449	2	2,292	2	1,134	2		2		2		2	
1/4		1/4		1/4	4,583	1/4	3,425	1/4	2,268	1/4	1,110	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,559	1/2	3,400	1/2	2,244	1/2	1,086	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,534	3/4	3,376	3/4	2,219	3/4	1,062	3/4		3/4		3/4		3/4	
3		3		3	4,510	3	3,352	3	2,195	3	1,038	3		3		3		3	
1/4		1/4		1/4	4,486	1/4	3,328	1/4	2,171	1/4	1,013	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,462	1/2	3,304	1/2	2,147	1/2	989	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,438	3/4	3,280	3/4	2,123	3/4	965	3/4		3/4		3/4		3/4	
4		4		4	4,414	4	3,256	4	2,099	4	941	4		4		4		4	
1/4		1/4		1/4	4,390	1/4	3,232	1/4	2,075	1/4	917	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,366	1/2	3,207	1/2	2,051	1/2	893	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,341	3/4	3,183	3/4	2,026	3/4	869	3/4		3/4		3/4		3/4	
5		5		5	4,317	5	3,159	5	2,002	5	844	5		5		5		5	
1/4		1/4		1/4	4,293	1/4	3,135	1/4	1,978	1/4	820	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,269	1/2	3,111	1/2	1,954	1/2	796	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,245	3/4	3,087	3/4	1,930	3/4	772	3/4		3/4		3/4		3/4	
6		6		6	4,221	6	3,063	6	1,906	6	748	6		6		6		6	
1/4		1/4		1/4	4,197	1/4	3,039	1/4	1,882	1/4	724	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,173	1/2	3,014	1/2	1,858	1/2	700	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,148	3/4	2,990	3/4	1,833	3/4	676	3/4		3/4		3/4		3/4	
7		7		7	4,124	7	2,966	7	1,809	7	651	7		7		7		7	
1/4		1/4		1/4	4,100	1/4	2,942	1/4	1,785	1/4	627	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,076	1/2	2,918	1/2	1,761	1/2	603	1/2		1/2		1/2		1/2	
3/4		3/4	5,154	3/4	4,052	3/4	2,894	3/4	1,737	3/4	579	3/4		3/4		3/4		3/4	
8		8	5,142	8	4,028	8	2,870	8	1,713	8	555	8		8		8		8	
1/4		1/4	5,130	1/4	4,004	1/4	2,845	1/4	1,689	1/4	531	1/4		1/4		1/4		1/4	
1/2		1/2	5,119	1/2	3,979	1/2	2,821	1/2	1,665	1/2	507	1/2		1/2		1/2		1/2	
3/4		3/4	5,107	3/4	3,955	3/4	2,797	3/4	1,640	3/4	483	3/4		3/4		3/4		3/4	
9		9	5,083	9	3,931	9	2,773	9	1,616	9	458	9		9		9		9	
1/4		1/4	5,060	1/4	3,907	1/4	2,749	1/4	1,592	1/4	434	1/4		1/4		1/4		1/4	
1/2		1/2	5,036	1/2	3,883	1/2	2,725	1/2	1,568	1/2	410	1/2		1/2		1/2		1/2	
3/4		3/4	5,012	3/4	3,859	3/4	2,701	3/4	1,544	3/4	386	3/4		3/4		3/4		3/4	
10		10	4,989	10	3,835	10	2,677	10	1,520	10	362	10		10		10		10	
1/4		1/4	4,965	1/4	3,811	1/4	2,653	1/4	1,496	1/4	338	1/4		1/4		1/4		1/4	
1/2		1/2	4,941	1/2	3,786	1/2	2,628	1/2	1,472	1/2	314	1/2		1/2		1/2		1/2	
3/4		3/4	4,918	3/4	3,762	3/4	2,604	3/4	1,447	3/4	290	3/4		3/4		3/4		3/4	
11		11	4,894	11	3,738	11	2,580	11	1,423	11	265	11		11		11		11	
1/4		1/4	4,870	1/4	3,714	1/4	2,556	1/4	1,399	1/4	241	1/4		1/4		1/4		1/4	
1/2		1/2	4,846	1/2	3,690	1/2	2,532	1/2	1,375	1/2	217	1/2		1/2		1/2		1/2	
3/4		3/4	4,822	3/4	3,666	3/4	2,508	3/4	1,351	3/4	193	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
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