

Gallows



BARGE "1B 1320"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 CENTER	-00-0/8	00-0/8	-00-1/8	00-1/8	-00-1/8	00-1/8	-00-1/4	00-1/4	-00-1/4	00-1/4	-00-3/8	00-3/8
2 CENTER	-00-1/4	00-1/4	-00-3/8	00-3/8	-00-5/8	00-5/8	-00-7/8	00-7/8	-01-1/8	01-1/8	-01-1/4	01-1/4
3 CENTER	-00-1/4	00-1/4	-00-3/8	00-3/8	-00-5/8	00-5/8	-00-3/4	00-3/4	-01-0/8	01-0/8	-01-1/4	01-1/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

$$\begin{aligned} \text{FWD. DRAFT} &= 2'-00'' \\ \text{AFT DRAFT} &= \frac{4'-00''}{2} \\ \text{DIFF.} &= 2'-00'' \quad (\text{DOWN BY STERN}) \end{aligned}$$

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 163'-03"

April 7, 2020

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



BARGE "IB 1320"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-02 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	170,229	0	161,129	0	150,964	0	140,799	0	130,634	0	119,903	0	108,025	0	96,141	0	84,257	0
1/4	1/4	170,208	1/2	160,917	1/4	150,752	1/2	140,587	1/4	130,422	1/2	119,656	1/4	107,778	1/2	95,894	1/4	84,010	1/2
1/2	1/2	170,141	3/4	160,705	1/2	150,540	3/4	140,375	1/2	130,210	3/4	119,409	1/2	107,530	3/4	95,628	1/2	83,762	3/4
3/4	3/4	170,074	1	160,494	3/4	150,329	1	140,164	3/4	129,998	1	119,161	3/4	107,283	1	95,399	3/4	83,514	1
1	1	170,007	1	160,282	1	150,117	1	139,952	1	129,787	1	118,914	1	107,035	1	95,151	1	83,267	1
1/4	1/4	169,940	1/2	160,070	1/4	149,905	1/2	139,740	1/4	129,575	1/2	118,667	1/4	106,787	1/2	94,903	1/4	83,019	1/2
1/2	1/2	169,796	3/4	159,858	1/2	149,693	3/4	139,528	1/2	129,363	3/4	118,420	1/2	106,540	3/4	94,656	1/2	82,772	3/4
3/4	3/4	169,650	1	159,647	1	149,481	1	139,316	1	129,151	1	118,172	1	106,292	1	94,408	1	82,524	1
1	1	169,506	1	159,435	1	149,270	1	139,105	1	128,940	1	117,925	1	106,045	1	94,161	1	82,277	1
1/4	1/4	169,361	1/2	159,223	1/4	149,058	1/2	138,893	1/4	128,728	1/2	117,678	1/4	105,797	1/2	93,913	1/4	82,029	1/2
1/2	1/2	169,156	3/4	159,011	1/2	148,846	3/4	138,681	1/2	128,516	3/4	117,431	1/2	105,549	3/4	93,665	1/2	81,782	3/4
3/4	3/4	168,951	1	158,799	1	148,634	1	138,469	1	128,304	1	117,183	1	105,302	1	93,418	1	81,535	1
1	1	168,746	1	158,588	1	148,423	1	138,258	1	128,093	1	116,936	1	105,054	1	93,170	1	81,289	1
1/4	1/4	168,541	1/2	158,376	1/4	148,211	1/2	138,046	1/4	127,881	1/2	116,689	1/4	104,807	1/2	92,923	1/4	81,042	1/2
1/2	1/2	168,329	3/4	158,164	1/2	147,999	3/4	137,834	1/2	127,669	3/4	116,442	1/2	104,559	3/4	92,675	1/2	80,795	3/4
3/4	3/4	168,116	1	157,952	1	147,787	1	137,622	1	127,457	1	116,195	1	104,312	1	92,427	1	80,542	1
1	1	167,904	1	157,741	1	147,576	1	137,410	1	127,245	1	115,947	1	104,064	1	92,180	1	80,302	1
1/4	1/4	167,692	1/2	157,529	1/4	147,364	1/2	137,199	1/4	127,034	1/2	115,700	1/4	103,816	1/2	91,932	1/4	80,056	1/2
1/2	1/2	167,480	3/4	157,317	1/2	147,152	3/4	136,987	1/2	126,822	3/4	115,453	1/2	103,569	3/4	91,685	1/2	79,809	3/4
3/4	3/4	167,269	1	157,105	1	146,940	1	136,775	1	126,610	1	115,205	1	103,321	1	91,437	1	79,563	1
1	1	167,058	1	156,893	1	146,728	1	136,563	1	126,398	1	114,958	1	103,074	1	91,190	1	79,316	1
1/4	1/4	166,846	1/2	156,682	1/4	146,517	1/2	136,352	1/4	126,187	1/2	114,710	1/4	102,826	1/2	90,942	1/4	79,070	1/2
1/2	1/2	166,635	3/4	156,470	1/2	146,305	3/4	136,140	1/2	125,975	3/4	114,463	1/2	102,578	3/4	90,694	1/2	78,823	3/4
3/4	3/4	166,423	1	156,258	1	146,093	1	135,928	1	125,763	1	114,215	1	102,331	1	90,447	1	78,576	1
1	1	166,211	1	156,046	1	145,881	1	135,716	1	125,551	1	113,967	1	102,083	1	90,199	1	78,330	1
1/4	1/4	166,000	1/2	155,835	1/4	145,670	1/2	135,505	1/4	125,339	1/2	113,720	1/4	101,836	1/2	89,952	1/4	78,083	1/2
1/2	1/2	165,788	3/4	155,623	1/2	145,458	3/4	135,293	1/2	125,128	3/4	113,472	1/2	101,588	3/4	89,704	1/2	77,837	3/4
3/4	3/4	165,576	1	155,411	1	145,246	1	135,081	1	124,916	1	113,225	1	101,341	1	89,456	1	77,590	1
1	1	165,364	1	155,199	1	145,034	1	134,869	1	124,704	1	112,977	1	101,093	1	89,209	1	77,344	1
1/4	1/4	165,153	1/2	154,988	1/4	144,822	1/2	134,657	1/4	124,492	1/2	112,729	1/4	100,845	1/2	88,961	1/4	77,097	1/2
1/2	1/2	164,941	3/4	154,776	1/2	144,611	3/4	134,446	1/2	124,288	3/4	112,482	1/2	100,598	3/4	88,714	1/2	76,851	3/4
3/4	3/4	164,729	1	154,564	1	144,399	1	134,234	1	124,043	1	112,234	1	100,350	1	88,466	1	76,604	1
1	1	164,517	1	154,352	1	144,187	1	134,022	1	123,818	1	111,987	1	100,103	1	88,219	1	76,358	1
1/4	1/4	164,305	1/2	154,140	1/4	143,975	1/2	133,810	1/4	123,593	1/2	111,739	1/4	99,855	1/2	87,971	1/4	76,111	1/2
1/2	1/2	164,094	3/4	153,929	1/2	143,764	3/4	133,599	1/2	123,381	3/4	111,491	1/2	99,607	3/4	87,723	1/2	75,865	3/4
3/4	3/4	163,882	1	153,717	1	143,552	1	133,387	1	123,169	1	111,244	1	99,360	1	87,476	1	75,618	1
1	1	163,670	1	153,505	1	143,340	1	133,175	1	122,955	1	110,996	1	99,112	1	87,228	1	75,372	1
1/4	1/4	163,458	1/2	153,293	1/4	143,128	1/2	132,963	1/4	122,743	1/2	110,749	1/4	98,865	1/2	86,981	1/4	75,125	1/2
1/2	1/2	163,247	3/4	153,082	1/2	142,917	3/4	132,751	1/2	122,537	3/4	110,501	1/2	98,617	3/4	86,733	1/2	74,878	3/4
3/4	3/4	163,035	1	152,870	1	142,705	1	132,540	1	122,328	1	110,254	1	98,370	1	86,485	1	74,632	1
1	1	162,823	1	152,658	1	142,493	1	132,328	1	122,118	1	110,006	1	98,122	1	86,238	1	74,385	1
1/4	1/4	162,611	1/2	152,446	1/4	142,281	1/2	132,114	1/4	121,904	1/2	109,758	1/4	97,874	1/2	85,990	1/4	74,139	1/2
1/2	1/2	162,400	3/4	152,234	1/2	142,069	3/4	131,904	1/2	121,686	3/4	109,511	1/2	97,627	3/4	85,742	1/2	73,892	3/4
3/4	3/4	162,188	1	152,023	1	141,858	1	131,693	1	121,469	1	109,263	1	97,379	1	85,495	1	73,645	1
1	1	161,976	1	151,811	1	141,646	1	131,481	1	121,257	1	109,016	1	97,132	1	85,248	1	73,399	1
1/4	1/4	161,764	1/2	151,599	1/4	141,434	1/2	131,269	1/4	121,045	1/2	108,768	1/4	96,884	1/2	85,000	1/4	73,153	1/2
1/2	1/2	161,552	3/4	151,387	1/2	141,222	3/4	131,057	1/2	120,838	3/4	108,520	1/2	96,636	3/4	84,752	1/2	72,906	3/4
3/4	3/4	161,341	1	151,176	1	141,011	1	130,846	1	120,620	1	108,273	1	96,389	1	84,505	1	72,660	1

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IAPMO 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 "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30"-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P. O. Box 2092

Pearland, Texas 77586

http://www.pma.com.net



BARGE "IB 1320"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-02 1/4"

IN	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	72,413	0	60,536	48,656	36,776	24,896	13,016	1,136	0	0
1/4	72,167	1/4	60,288	48,409	36,589	24,669	12,789	1,109	0	0
1/2	71,919	1/2	60,041	48,161	36,380	24,471	12,623	1,038	1/4	1/4
3/4	71,672	3/4	59,793	47,914	36,111	24,273	12,575	868	3/4	3/4
1	71,425	1	59,546	47,666	35,872	24,075	12,377	698	1	1
1 1/4	71,178	1 1/4	59,298	47,419	35,633	23,878	12,079	528	1 1/4	1 1/4
1 1/2	70,930	1 1/2	59,051	47,171	35,393	23,731	11,831	453	1 1/2	1 1/2
3/4	70,683	3/4	58,803	46,924	35,154	23,583	11,583	379	3/4	3/4
2	70,435	2	58,556	46,676	34,915	23,335	11,334	304	2	2
1 1/4	70,188	1 1/4	58,308	46,429	34,676	23,088	11,086	230	1 1/4	1 1/4
1 1/2	69,940	1 1/2	58,061	46,182	34,437	22,840	10,838	155	1 1/2	1 1/2
3/4	69,693	3/4	57,813	45,934	34,198	22,592	10,590	80	3/4	3/4
3	69,445	3	57,566	45,687	33,959	22,345	10,342	3	3	3
1 1/2	69,198	1 1/2	57,318	45,439	33,720	22,097	10,094	0	1 1/2	1 1/2
1 1/2	68,950	1 1/2	57,071	45,192	33,481	21,849	9,846	0	1 1/2	1 1/2
3/4	68,703	3/4	56,823	44,944	33,242	21,602	9,598	0	3/4	3/4
4	68,455	4	56,576	44,697	33,003	21,354	9,349	0	4	4
1 1/2	68,208	1 1/2	56,328	44,449	32,764	21,106	9,101	0	1 1/2	1 1/2
1 1/2	67,960	1 1/2	56,081	44,202	32,525	20,859	8,853	0	1 1/2	1 1/2
3/4	67,713	3/4	55,833	43,954	32,286	20,611	8,605	0	3/4	3/4
5	67,465	5	55,586	43,707	32,047	20,364	8,357	0	5	5
1 1/4	67,218	1 1/4	55,338	43,459	31,808	20,116	8,109	0	1 1/4	1 1/4
1 1/2	66,970	1 1/2	55,091	43,212	31,569	19,868	7,861	0	1 1/2	1 1/2
3/4	66,723	3/4	54,844	42,964	31,330	19,621	7,612	0	3/4	3/4
6	66,475	6	54,596	42,717	31,091	19,373	7,364	0	6	6
1 1/4	66,228	1 1/4	54,349	42,469	30,852	19,125	7,116	0	1 1/4	1 1/4
1 1/2	65,980	1 1/2	54,101	42,222	30,611	18,877	6,868	0	1 1/2	1 1/2
3/4	65,733	3/4	53,854	41,974	30,370	18,629	6,620	0	3/4	3/4
7	65,485	7	53,606	41,727	30,130	18,381	6,372	0	7	7
1 1/4	65,238	1 1/4	53,359	41,479	29,889	18,133	6,124	0	1 1/4	1 1/4
1 1/2	64,990	1 1/2	53,111	41,232	29,648	17,885	5,876	0	1 1/2	1 1/2
3/4	64,743	3/4	52,864	40,984	29,407	17,637	5,627	0	3/4	3/4
8	64,495	8	52,616	40,737	29,166	17,389	5,379	0	8	8
1 1/4	64,248	1 1/4	52,369	40,489	28,924	17,141	5,131	0	1 1/4	1 1/4
1 1/2	64,001	1 1/2	52,121	40,242	28,678	16,893	4,883	0	1 1/2	1 1/2
3/4	63,753	3/4	51,874	39,994	28,432	16,645	4,635	0	3/4	3/4
9	63,506	9	51,626	39,747	28,186	16,396	4,387	0	9	9
1 1/4	63,258	1 1/4	51,379	39,499	27,940	16,148	4,139	0	1 1/4	1 1/4
1 1/2	63,011	1 1/2	51,131	39,252	27,693	15,900	3,891	0	1 1/2	1 1/2
3/4	62,763	3/4	50,884	39,004	27,445	15,652	3,643	0	3/4	3/4
10	62,516	10	50,636	38,757	27,197	15,404	3,395	0	10	10
1 1/4	62,268	1 1/4	50,389	38,509	26,950	15,156	3,147	0	1 1/4	1 1/4
1 1/2	62,021	1 1/2	50,141	38,268	26,702	14,908	2,900	0	1 1/2	1 1/2
3/4	61,773	3/4	49,894	38,021	26,455	14,660	2,653	0	3/4	3/4
11	61,526	11	49,646	37,786	26,207	14,412	2,405	0	11	11
1 1/4	61,278	1 1/4	49,399	37,545	25,959	14,164	2,158	0	1 1/4	1 1/4
1 1/2	61,031	1 1/2	49,151	37,306	25,712	13,916	1,921	0	1 1/2	1 1/2
3/4	60,783	3/4	48,904	37,067	25,464	13,668	1,683	0	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2020 CL
 CALCULATED: 04/08/2020 CL
 PRINTED: 04/08/2020 SW
 CANCELLED AND SUPERCEDES
 ALL PRIOR TO 04/2020

PRECISION MEASUREMENT
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BARGE "IB 1320"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS GAUGE HEIGHT 16'-02"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	153,471	0	144,305	0	134,042	0	123,779	0	113,516	0	103,253	0	92,990	0	82,726	0	72,463	
1/4	1/4	153,435	1/4	144,091	1/4	133,828	1/4	123,565	1/4	113,302	1/4	103,039	1/4	92,776	1/4	82,513	1/4	72,250	
1/2	1/2	153,353	1/2	143,877	1/2	133,614	1/2	123,351	1/2	113,088	1/2	102,825	1/2	92,562	1/2	82,299	1/2	72,036	
3/4	3/4	153,297	3/4	143,664	3/4	133,401	3/4	123,137	3/4	112,874	3/4	102,611	3/4	92,348	3/4	82,085	3/4	71,822	
1	1	153,240	1	143,450	1	133,187	1	122,924	1	112,661	1	102,397	1	92,134	1	81,871	1	71,608	
1 1/4	1 1/4	153,115	1 1/4	143,236	1 1/4	132,973	1 1/4	122,710	1 1/4	112,447	1 1/4	102,184	1 1/4	91,921	1 1/4	81,657	1 1/4	71,394	
1 1/2	1 1/2	152,990	1 1/2	143,022	1 1/2	132,759	1 1/2	122,496	1 1/2	112,233	1 1/2	101,970	1 1/2	91,707	1 1/2	81,444	1 1/2	71,180	
3/2	3/2	152,865	3/2	142,808	3/2	132,545	3/2	122,282	3/2	112,019	3/2	101,756	3/2	91,493	3/2	81,230	3/2	70,967	
2	2	152,741	2	142,595	2	132,331	2	122,028	2	111,805	2	101,542	2	91,279	2	81,016	2	70,753	
1 1/4	1 1/4	152,552	1 1/4	142,381	1 1/4	132,118	1 1/4	121,855	1 1/4	111,591	1 1/4	101,328	1 1/4	91,065	1 1/4	80,802	1 1/4	70,539	
1 1/2	1 1/2	152,364	1 1/2	142,167	1 1/2	131,904	1 1/2	121,641	1 1/2	111,378	1 1/2	101,115	1 1/2	90,851	1 1/2	80,588	1 1/2	70,325	
3/2	3/2	152,176	3/2	141,953	3/2	131,690	3/2	121,427	3/2	111,164	3/2	100,901	3/2	90,588	3/2	80,375	3/2	70,111	
3	3	151,987	3	141,739	3	131,476	3	121,213	3	110,950	3	100,687	3	90,424	3	80,161	3	69,898	
1 1/4	1 1/4	151,777	1 1/4	141,526	1 1/4	131,262	1 1/4	120,999	1 1/4	110,736	1 1/4	100,473	1 1/4	90,210	1 1/4	79,947	1 1/4	69,684	
1 1/2	1 1/2	151,566	1 1/2	141,312	1 1/2	131,049	1 1/2	120,786	1 1/2	110,522	1 1/2	100,259	1 1/2	89,996	1 1/2	79,733	1 1/2	69,470	
3/2	3/2	151,356	3/2	141,098	3/2	130,835	3/2	120,572	3/2	110,309	3/2	100,045	3/2	89,782	3/2	79,519	3/2	69,256	
4	4	151,145	4	140,884	4	130,621	4	120,358	4	110,095	4	99,832	4	89,569	4	79,305	4	69,042	
1 1/4	1 1/4	150,932	1 1/4	140,670	1 1/4	130,407	1 1/4	120,144	1 1/4	109,881	1 1/4	99,618	1 1/4	89,355	1 1/4	79,092	1 1/4	68,829	
1 1/2	1 1/2	150,718	1 1/2	140,456	1 1/2	130,193	1 1/2	119,930	1 1/2	109,667	1 1/2	99,404	1 1/2	89,141	1 1/2	78,878	1 1/2	68,615	
3/2	3/2	150,505	3/2	140,243	3/2	129,980	3/2	119,716	3/2	109,453	3/2	99,190	3/2	88,927	3/2	78,654	3/2	68,401	
5	5	150,292	5	140,029	5	129,766	5	119,503	5	109,240	5	98,976	5	88,713	5	78,450	5	68,187	
1 1/4	1 1/4	150,078	1 1/4	139,815	1 1/4	129,552	1 1/4	119,289	1 1/4	109,026	1 1/4	98,763	1 1/4	88,499	1 1/4	78,236	1 1/4	67,973	
1 1/2	1 1/2	149,864	1 1/2	139,601	1 1/2	129,338	1 1/2	119,075	1 1/2	108,812	1 1/2	98,549	1 1/2	88,286	1 1/2	78,023	1 1/2	67,759	
3/2	3/2	149,650	3/2	139,387	3/2	129,124	3/2	118,861	3/2	108,598	3/2	98,335	3/2	88,072	3/2	77,809	3/2	67,546	
6	6	149,437	6	139,174	6	128,910	6	118,647	6	108,384	6	98,121	6	87,858	6	77,595	6	67,332	
1 1/4	1 1/4	149,223	1 1/4	138,960	1 1/4	128,697	1 1/4	118,434	1 1/4	108,170	1 1/4	97,907	1 1/4	87,644	1 1/4	77,381	1 1/4	67,118	
1 1/2	1 1/2	149,009	1 1/2	138,746	1 1/2	128,483	1 1/2	118,220	1 1/2	107,957	1 1/2	97,694	1 1/2	87,430	1 1/2	77,167	1 1/2	66,904	
3/2	3/2	148,795	3/2	138,532	3/2	128,269	3/2	118,006	3/2	107,743	3/2	97,480	3/2	87,217	3/2	76,953	3/2	66,690	
7	7	148,581	7	138,318	7	128,055	7	117,792	7	107,529	7	97,266	7	87,003	7	76,740	7	66,477	
1 1/4	1 1/4	148,368	1 1/4	138,104	1 1/4	127,841	1 1/4	117,578	1 1/4	107,315	1 1/4	97,052	1 1/4	86,789	1 1/4	76,526	1 1/4	66,263	
1 1/2	1 1/2	148,154	1 1/2	137,891	1 1/2	127,628	1 1/2	117,364	1 1/2	107,101	1 1/2	96,838	1 1/2	86,575	1 1/2	76,312	1 1/2	66,049	
3/2	3/2	147,940	3/2	137,677	3/2	127,414	3/2	117,151	3/2	106,888	3/2	96,624	3/2	86,361	3/2	76,099	3/2	65,835	
8	8	147,726	8	137,463	8	127,200	8	116,937	8	106,674	8	96,411	8	86,148	8	75,884	8	65,621	
1 1/4	1 1/4	147,512	1 1/4	137,249	1 1/4	126,986	1 1/4	116,723	1 1/4	106,460	1 1/4	96,197	1 1/4	85,934	1 1/4	75,671	1 1/4	65,407	
1 1/2	1 1/2	147,299	1 1/2	137,035	1 1/2	126,772	1 1/2	116,509	1 1/2	106,246	1 1/2	95,983	1 1/2	85,720	1 1/2	75,457	1 1/2	65,194	
3/2	3/2	147,085	3/2	136,822	3/2	126,559	3/2	116,295	3/2	106,032	3/2	95,769	3/2	85,506	3/2	75,243	3/2	64,980	
9	9	146,871	9	136,608	9	126,345	9	116,082	9	105,818	9	95,555	9	85,292	9	75,029	9	64,766	
1 1/4	1 1/4	146,657	1 1/4	136,394	1 1/4	126,131	1 1/4	115,868	1 1/4	105,605	1 1/4	95,342	1 1/4	85,078	1 1/4	74,815	1 1/4	64,552	
1 1/2	1 1/2	146,443	1 1/2	136,180	1 1/2	125,917	1 1/2	115,654	1 1/2	105,391	1 1/2	95,128	1 1/2	84,865	1 1/2	74,602	1 1/2	64,338	
3/2	3/2	146,229	3/2	135,966	3/2	125,703	3/2	115,440	3/2	105,177	3/2	94,914	3/2	84,651	3/2	74,389	3/2	64,125	
10	10	146,016	10	135,753	10	125,489	10	115,226	10	104,963	10	94,700	10	84,437	10	74,174	10	63,911	
1 1/4	1 1/4	145,802	1 1/4	135,539	1 1/4	125,276	1 1/4	115,013	1 1/4	104,749	1 1/4	94,486	1 1/4	84,223	1 1/4	73,960	1 1/4	63,697	
1 1/2	1 1/2	145,588	1 1/2	135,325	1 1/2	125,062	1 1/2	114,799	1 1/2	104,536	1 1/2	94,272	1 1/2	84,009	1 1/2	73,746	1 1/2	63,483	
3/2	3/2	145,374	3/2	135,111	3/2	124,848	3/2	114,585	3/2	104,322	3/2	94,059	3/2	83,796	3/2	73,532	3/2	63,269	
11	11	145,160	11	134,897	11	124,634	11	114,371	11	104,108	11	93,845	11	83,582	11	73,319	11	63,056	
1 1/4	1 1/4	144,947	1 1/4	134,683	1 1/4	124,420	1 1/4	114,157	1 1/4	103,894	1 1/4	93,631	1 1/4	83,368	1 1/4	73,105	1 1/4	62,842	
1 1/2	1 1/2	144,733	1 1/2	134,470	1 1/2	124,207	1 1/2	113,943	1 1/2	103,680	1 1/2	93,417	1 1/2	83,154	1 1/2	72,891	1 1/2	62,628	
3/2	3/2	144,519	3/2	134,256	3/2	123,993	3/2	113,730	3/2	103,467	3/2	93,203	3/2	82,940	3/2	72,677	3/2	62,414	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NFPA 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 "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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 Pearland, Texas 77588
 http://www.pmaacorp.net



BARGE "IB 1320"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

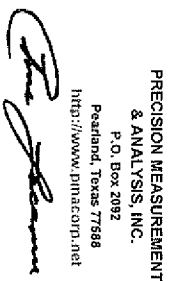
GAUGE HEIGHT 16'-02"

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	62,200	0	51,937	0	41,674	0	31,411	0	21,148	0	11,138	0	916	0	0	0	0	0	0
1/4	61,986	1/4	51,723	1/4	41,460	1/4	31,247	1/4	21,187	1/4	10,924	1/4	770	1/4	0	1/4	1/4	1/4	1/4
1/2	61,773	1/2	51,510	1/2	41,246	1/2	31,040	1/2	20,973	1/2	10,710	1/2	623	1/2	0	1/2	1/2	1/2	1/2
3/4	61,559	3/4	51,296	3/4	41,033	3/4	30,832	3/4	20,759	3/4	10,497	3/4	476	3/4	0	3/4	3/4	3/4	3/4
1	61,345	1	51,082	1	40,819	1	30,624	1	20,545	1	10,283	1	330	1	0	1	1	1	1
1/4	61,131	1/4	50,868	1/4	40,605	1/4	30,417	1/4	20,332	1/4	10,069	1/4	266	1/4	0	1/4	1/4	1/4	1/4
1/2	60,917	1/2	50,654	1/2	40,391	1/2	30,209	1/2	20,118	1/2	9,855	1/2	201	1/2	0	1/2	1/2	1/2	1/2
3/4	60,704	3/4	50,440	3/4	40,177	3/4	30,002	3/4	19,904	3/4	9,641	3/4	137	3/4	0	3/4	3/4	3/4	3/4
2	60,490	2	50,227	2	39,964	2	29,794	2	19,690	2	9,428	2	74	2	0	2	2	2	2
1/4	60,276	1/4	50,013	1/4	39,750	1/4	29,587	1/4	19,476	1/4	9,214	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	60,062	1/2	49,799	1/2	39,536	1/2	29,379	1/2	19,263	1/2	9,000	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	59,848	3/4	49,585	3/4	39,322	3/4	29,172	3/4	19,049	3/4	8,786	3/4	0	3/4	0	3/4	3/4	3/4	3/4
3	59,634	3	49,371	3	39,108	3	28,964	3	18,835	3	8,572	3	0	3	0	3	3	3	3
1/4	59,421	1/4	49,158	1/4	38,894	1/4	28,757	1/4	18,621	1/4	8,359	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	59,207	1/2	48,944	1/2	38,681	1/2	28,549	1/2	18,407	1/2	8,145	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	58,993	3/4	48,730	3/4	38,467	3/4	28,341	3/4	18,194	3/4	7,931	3/4	0	3/4	0	3/4	3/4	3/4	3/4
4	58,779	4	48,516	4	38,253	4	28,134	4	17,980	4	7,717	4	0	4	0	4	4	4	4
1/4	58,565	1/4	48,302	1/4	38,039	1/4	27,926	1/4	17,766	1/4	7,503	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	58,352	1/2	48,088	1/2	37,825	1/2	27,719	1/2	17,552	1/2	7,290	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	58,138	3/4	47,875	3/4	37,614	3/4	27,511	3/4	17,338	3/4	7,076	3/4	0	3/4	0	3/4	3/4	3/4	3/4
5	57,924	5	47,661	5	37,398	5	27,304	5	17,125	5	6,862	5	0	5	0	5	5	5	5
1/4	57,710	1/4	47,447	1/4	37,184	1/4	27,096	1/4	16,911	1/4	6,648	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	57,496	1/2	47,233	1/2	36,970	1/2	26,889	1/2	16,697	1/2	6,434	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	57,283	3/4	47,019	3/4	36,756	3/4	26,681	3/4	16,483	3/4	6,220	3/4	0	3/4	0	3/4	3/4	3/4	3/4
6	57,069	6	46,806	6	36,542	6	26,474	6	16,269	6	6,007	6	0	6	0	6	6	6	6
1/4	56,855	1/4	46,592	1/4	36,329	1/4	26,266	1/4	16,056	1/4	5,793	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	56,641	1/2	46,378	1/2	36,115	1/2	26,059	1/2	15,842	1/2	5,579	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	56,427	3/4	46,164	3/4	35,901	3/4	25,852	3/4	15,628	3/4	5,365	3/4	0	3/4	0	3/4	3/4	3/4	3/4
7	56,213	7	45,950	7	35,687	7	25,644	7	15,414	7	5,151	7	0	7	0	7	7	7	7
1/4	56,000	1/4	45,737	1/4	35,473	1/4	25,437	1/4	15,200	1/4	4,938	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	55,786	1/2	45,523	1/2	35,260	1/2	25,230	1/2	14,987	1/2	4,724	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	55,572	3/4	45,309	3/4	35,046	3/4	25,022	3/4	14,773	3/4	4,510	3/4	0	3/4	0	3/4	3/4	3/4	3/4
8	55,358	8	45,095	8	34,832	8	24,815	8	14,559	8	4,296	8	0	8	0	8	8	8	8
1/4	55,144	1/4	44,881	1/4	34,618	1/4	24,603	1/4	14,345	1/4	4,082	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	54,931	1/2	44,667	1/2	34,404	1/2	24,391	1/2	14,131	1/2	3,869	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	54,717	3/4	44,454	3/4	34,191	3/4	24,179	3/4	13,917	3/4	3,655	3/4	0	3/4	0	3/4	3/4	3/4	3/4
9	54,503	9	44,240	9	33,977	9	23,966	9	13,704	9	3,441	9	0	9	0	9	9	9	9
1/4	54,289	1/4	44,026	1/4	33,763	1/4	23,753	1/4	13,490	1/4	3,227	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	54,075	1/2	43,812	1/2	33,549	1/2	23,539	1/2	13,276	1/2	3,014	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	53,861	3/4	43,598	3/4	33,335	3/4	23,325	3/4	13,062	3/4	2,800	3/4	0	3/4	0	3/4	3/4	3/4	3/4
10	53,648	10	43,385	10	33,121	10	23,111	10	12,848	10	2,587	10	0	10	0	10	10	10	10
1/4	53,434	1/4	43,171	1/4	32,912	1/4	22,897	1/4	12,635	1/4	2,374	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	53,220	1/2	42,957	1/2	32,703	1/2	22,684	1/2	12,421	1/2	2,161	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	53,006	3/4	42,743	3/4	32,494	3/4	22,470	3/4	12,207	3/4	1,948	3/4	0	3/4	0	3/4	3/4	3/4	3/4
11	52,792	11	42,529	11	32,285	11	22,256	11	11,993	11	1,735	11	0	11	0	11	11	11	11
1/4	52,579	1/4	42,315	1/4	32,077	1/4	22,042	1/4	11,779	1/4	1,530	1/4	0	1/4	0	1/4	1/4	1/4	1/4
1/2	52,365	1/2	42,102	1/2	31,870	1/2	21,828	1/2	11,566	1/2	1,326	1/2	0	1/2	0	1/2	1/2	1/2	1/2
3/4	52,151	3/4	41,888	3/4	31,652	3/4	21,614	3/4	11,352	3/4	1,121	3/4	0	3/4	0	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2020 CL
 CALCULATED: 04/08/2020 CL
 PRINTED: 04/08/2020 SW
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 04/2020

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





BARGE "IB 1320"

3 CENTER
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	62,710	0	52,327	0	41,945	0	31,563	0	21,217	0	10,835	0	630	0	0	0	0	0	0
1/4	62,494	1/4	52,111	1/4	41,729	1/4	31,354	1/4	21,001	1/4	10,619	1/4	482	1/4	0	1/4	0	1/4	0
1/2	62,277	1/2	51,895	1/2	41,512	1/2	31,138	1/2	20,784	1/2	10,402	1/2	333	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,061	3/4	51,678	3/4	41,296	3/4	30,923	3/4	20,558	3/4	10,186	3/4	269	3/4	3/4	3/4	3/4	3/4	3/4
1	61,845	1	51,462	1	41,080	1	30,708	1	20,352	1	9,970	1	204	1	1	1	1	1	1
1/4	61,628	1/4	51,246	1/4	40,863	1/4	30,492	1/4	20,135	1/4	9,753	1/4	139	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,412	1/2	51,030	1/2	40,647	1/2	30,277	1/2	19,919	1/2	9,537	1/2	74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,196	3/4	50,813	3/4	40,431	3/4	30,062	3/4	19,703	3/4	9,321	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
2	60,979	2	50,597	2	40,214	2	29,846	2	19,487	2	9,104	2	2	2	2	2	2	2	2
1/4	60,763	1/4	50,381	1/4	39,998	1/4	29,631	1/4	19,270	1/4	8,888	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,547	1/2	50,164	1/2	39,782	1/2	29,416	1/2	19,054	1/2	8,672	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,331	3/4	49,948	3/4	39,566	3/4	29,200	3/4	18,838	3/4	8,456	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
3	60,114	3	49,732	3	39,349	3	28,985	3	18,621	3	8,239	3	0	3	3	3	3	3	3
1/4	59,898	1/4	49,515	1/4	39,133	1/4	28,770	1/4	18,405	1/4	8,023	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,682	1/2	49,299	1/2	38,917	1/2	28,554	1/2	18,189	1/2	7,807	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,465	3/4	49,083	3/4	38,700	3/4	28,339	3/4	17,972	3/4	7,590	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
4	59,249	4	48,867	4	38,484	4	28,124	4	17,756	4	7,374	4	0	4	4	4	4	4	4
1/4	59,033	1/4	48,650	1/4	38,268	1/4	27,908	1/4	17,540	1/4	7,158	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,816	1/2	48,434	1/2	38,051	1/2	27,693	1/2	17,324	1/2	6,942	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,600	3/4	48,218	3/4	37,835	3/4	27,478	3/4	17,107	3/4	6,725	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
5	58,384	5	48,001	5	37,619	5	27,262	5	16,891	5	6,509	5	0	5	5	5	5	5	5
1/4	58,167	1/4	47,785	1/4	37,403	1/4	27,047	1/4	16,675	1/4	6,293	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,951	1/2	47,569	1/2	37,186	1/2	26,832	1/2	16,458	1/2	6,076	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,735	3/4	47,352	3/4	36,970	3/4	26,616	3/4	16,242	3/4	5,860	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
6	57,519	6	47,136	6	36,754	6	26,401	6	16,026	6	5,644	6	0	6	6	6	6	6	6
1/4	57,302	1/4	46,920	1/4	36,537	1/4	26,186	1/4	15,810	1/4	5,428	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,086	1/2	46,704	1/2	36,321	1/2	25,970	1/2	15,593	1/2	5,211	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,870	3/4	46,487	3/4	36,105	3/4	25,755	3/4	15,377	3/4	4,995	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
7	56,653	7	46,271	7	35,888	7	25,540	7	15,161	7	4,779	7	0	7	7	7	7	7	7
1/4	56,437	1/4	46,055	1/4	35,672	1/4	25,325	1/4	14,944	1/4	4,562	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,221	1/2	45,838	1/2	35,456	1/2	25,109	1/2	14,728	1/2	4,346	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,004	3/4	45,622	3/4	35,240	3/4	24,893	3/4	14,512	3/4	4,130	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
8	55,788	8	45,406	8	35,023	8	24,677	8	14,296	8	3,913	8	0	8	8	8	8	8	8
1/4	55,572	1/4	45,189	1/4	34,807	1/4	24,461	1/4	14,079	1/4	3,697	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,356	1/2	44,973	1/2	34,591	1/2	24,245	1/2	13,863	1/2	3,481	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,139	3/4	44,757	3/4	34,374	3/4	24,029	3/4	13,647	3/4	3,265	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
9	54,923	9	44,540	9	34,158	9	23,812	9	13,430	9	3,049	9	0	9	9	9	9	9	9
1/4	54,707	1/4	44,324	1/4	33,942	1/4	23,596	1/4	13,214	1/4	2,833	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,490	1/2	44,108	1/2	33,725	1/2	23,380	1/2	12,998	1/2	2,616	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,274	3/4	43,892	3/4	33,510	3/4	23,164	3/4	12,781	3/4	2,401	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	54,058	10	43,675	10	33,294	10	22,947	10	12,565	10	2,186	10	0	10	10	10	10	10	10
1/4	53,841	1/4	43,459	1/4	33,078	1/4	22,731	1/4	12,349	1/4	1,970	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,625	1/2	43,243	1/2	32,862	1/2	22,515	1/2	12,133	1/2	1,755	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,409	3/4	43,026	3/4	32,647	3/4	22,298	3/4	11,916	3/4	1,548	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	53,193	11	42,810	11	32,431	11	22,082	11	11,700	11	1,334	11	0	11	11	11	11	11	11
1/4	52,976	1/4	42,594	1/4	32,216	1/4	21,866	1/4	11,484	1/4	1,134	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,760	1/2	42,377	1/2	32,000	1/2	21,649	1/2	11,267	1/2	927	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,544	3/4	42,161	3/4	31,785	3/4	21,433	3/4	11,051	3/4	779	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/07/2020 CL
CALCULATED: 04/08/2020 CL
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Paul Stewart

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