

Gallows



BARGE "IB 1312"

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 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	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-7/8	00-7/8	- 01-1/8	01-1/8	- 01-3/8	01-3/8
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:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 163'-03"

September 18, 2019

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

<http://www.pimacorp.net>



BARGE "IB 1312"

1 CENTER ULLAGE TABLE

GAUGE HEIGHT 16'-01 1/2"

CAPACITIES GIVEN IN WHOLE GALLONS

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	170,395	0	160,796	0	150,612	0	140,428	0	130,243	0	119,386	0	107,485	0	95,578	0	83,672	0
1/4	1/4	170,327	1/4	160,684	1/4	150,400	1/4	140,215	1/4	130,031	1/4	119,138	1/4	107,237	1/4	95,330	1/4	83,424	1/4
1/2	1/2	170,260	1/2	160,372	1/2	150,187	1/2	140,003	1/2	129,819	1/2	118,890	1/2	106,989	1/2	95,082	1/2	83,176	1/2
3/4	3/4	170,115	3/4	160,159	3/4	149,975	3/4	139,791	3/4	129,607	3/4	118,643	3/4	106,741	3/4	94,834	3/4	82,928	3/4
1	1	169,970	1	159,947	1	149,763	1	139,579	1	129,395	1	118,395	1	106,492	1	94,586	1	82,680	1
1 1/4	1 1/4	169,825	1 1/4	159,736	1 1/4	149,551	1 1/4	139,367	1 1/4	129,183	1 1/4	118,147	1 1/4	106,244	1 1/4	94,338	1 1/4	82,432	1 1/4
1 1/2	1 1/2	169,680	1 1/2	159,623	1 1/2	149,339	1 1/2	139,155	1 1/2	128,970	1 1/2	117,900	1 1/2	105,996	1 1/2	94,090	1 1/2	82,183	1 1/2
3/4	3/4	169,475	3/4	159,311	3/4	149,127	3/4	138,942	3/4	128,768	3/4	117,652	3/4	105,748	3/4	93,842	3/4	81,936	3/4
2	2	169,270	2	159,099	2	148,914	2	138,730	2	128,546	2	117,404	2	105,560	2	93,594	2	81,689	2
1 1/4	1 1/4	169,064	1 1/4	158,886	1 1/4	148,702	1 1/4	138,518	1 1/4	128,334	1 1/4	117,157	1 1/4	105,252	1 1/4	93,346	1 1/4	81,442	1 1/4
1 1/2	1 1/2	168,859	1 1/2	158,674	1 1/2	148,490	1 1/2	138,306	1 1/2	128,122	1 1/2	116,909	1 1/2	105,004	1 1/2	93,098	1 1/2	81,194	1 1/2
3/4	3/4	168,646	3/4	158,462	3/4	148,278	3/4	138,094	3/4	127,910	3/4	116,661	3/4	104,756	3/4	92,850	3/4	80,947	3/4
3	3	168,433	3	158,250	3	148,066	3	137,882	3	127,697	3	116,413	3	104,508	3	92,602	3	80,700	3
1 1/4	1 1/4	168,220	1 1/4	158,038	1 1/4	147,854	1 1/4	137,669	1 1/4	127,485	1 1/4	116,166	1 1/4	104,260	1 1/4	92,354	1 1/4	80,453	1 1/4
1 1/2	1 1/2	168,008	1 1/2	157,826	1 1/2	147,641	1 1/2	137,457	1 1/2	127,273	1 1/2	115,918	1 1/2	104,012	1 1/2	92,106	1 1/2	80,206	1 1/2
3/4	3/4	167,796	3/4	157,613	3/4	147,429	3/4	137,245	3/4	127,061	3/4	115,670	3/4	103,764	3/4	91,857	3/4	79,959	3/4
4	4	167,584	4	157,401	4	147,217	4	137,033	4	126,849	4	115,422	4	103,516	4	91,609	4	79,712	4
1 1/4	1 1/4	167,373	1 1/4	157,189	1 1/4	147,005	1 1/4	136,821	1 1/4	126,636	1 1/4	115,174	1 1/4	103,268	1 1/4	91,361	1 1/4	79,465	1 1/4
1 1/2	1 1/2	167,161	1 1/2	156,977	1 1/2	146,793	1 1/2	136,609	1 1/2	126,424	1 1/2	114,926	1 1/2	103,020	1 1/2	91,113	1 1/2	79,218	1 1/2
3/4	3/4	166,949	3/4	156,765	3/4	146,581	3/4	136,396	3/4	126,212	3/4	114,678	3/4	102,772	3/4	90,865	3/4	78,971	3/4
5	5	166,737	5	156,553	5	146,368	5	136,184	5	126,000	5	114,430	5	102,524	5	90,617	5	78,724	5
1 1/4	1 1/4	166,524	1 1/4	156,340	1 1/4	146,156	1 1/4	135,972	1 1/4	125,788	1 1/4	114,182	1 1/4	102,276	1 1/4	90,369	1 1/4	78,477	1 1/4
1 1/2	1 1/2	166,312	1 1/2	156,128	1 1/2	145,944	1 1/2	135,760	1 1/2	125,576	1 1/2	113,934	1 1/2	102,028	1 1/2	90,121	1 1/2	78,230	1 1/2
3/4	3/4	166,100	3/4	155,916	3/4	145,732	3/4	135,548	3/4	125,363	3/4	113,686	3/4	101,779	3/4	89,873	3/4	77,983	3/4
6	6	165,888	6	155,704	6	145,520	6	135,336	6	125,151	6	113,438	6	101,531	6	89,625	6	77,736	6
1 1/4	1 1/4	165,676	1 1/4	155,492	1 1/4	145,308	1 1/4	135,123	1 1/4	124,939	1 1/4	113,190	1 1/4	101,283	1 1/4	89,377	1 1/4	77,489	1 1/4
1 1/2	1 1/2	165,464	1 1/2	155,280	1 1/2	145,095	1 1/2	134,911	1 1/2	124,727	1 1/2	112,942	1 1/2	101,035	1 1/2	89,129	1 1/2	77,242	1 1/2
3/4	3/4	165,252	3/4	155,067	3/4	144,883	3/4	134,699	3/4	124,502	3/4	112,694	3/4	100,789	3/4	88,881	3/4	76,995	3/4
7	7	165,039	7	154,855	7	144,671	7	134,487	7	124,277	7	112,446	7	100,539	7	88,633	7	76,748	7
1 1/4	1 1/4	164,827	1 1/4	154,643	1 1/4	144,459	1 1/4	134,275	1 1/4	124,061	1 1/4	112,198	1 1/4	100,291	1 1/4	88,385	1 1/4	76,501	1 1/4
1 1/2	1 1/2	164,615	1 1/2	154,431	1 1/2	144,247	1 1/2	134,062	1 1/2	123,826	1 1/2	111,950	1 1/2	100,043	1 1/2	88,137	1 1/2	76,254	1 1/2
3/4	3/4	164,403	3/4	154,219	3/4	144,035	3/4	133,850	3/4	123,613	3/4	111,702	3/4	99,795	3/4	87,889	3/4	76,007	3/4
8	8	164,191	8	154,007	8	143,822	8	133,638	8	123,340	8	111,453	8	99,547	8	87,641	8	75,760	8
1 1/4	1 1/4	163,979	1 1/4	153,794	1 1/4	143,610	1 1/4	133,426	1 1/4	123,097	1 1/4	111,205	1 1/4	99,299	1 1/4	87,393	1 1/4	75,513	1 1/4
1 1/2	1 1/2	163,766	1 1/2	153,582	1 1/2	143,398	1 1/2	133,212	1 1/2	122,864	1 1/2	110,957	1 1/2	99,051	1 1/2	87,144	1 1/2	75,266	1 1/2
3/4	3/4	163,554	3/4	153,370	3/4	143,186	3/4	133,004	3/4	122,606	3/4	110,709	3/4	98,803	3/4	86,896	3/4	75,019	3/4
9	9	163,342	9	153,158	9	142,974	9	132,789	9	122,388	9	110,461	9	98,555	9	86,648	9	74,772	9
1 1/4	1 1/4	163,130	1 1/4	152,946	1 1/4	142,761	1 1/4	132,577	1 1/4	122,111	1 1/4	110,213	1 1/4	98,307	1 1/4	86,400	1 1/4	74,525	1 1/4
1 1/2	1 1/2	162,918	1 1/2	152,734	1 1/2	142,549	1 1/2	132,365	1 1/2	121,863	1 1/2	109,965	1 1/2	98,059	1 1/2	86,152	1 1/2	74,278	1 1/2
3/4	3/4	162,706	3/4	152,521	3/4	142,337	3/4	132,153	3/4	121,615	3/4	109,717	3/4	97,811	3/4	85,904	3/4	74,031	3/4
10	10	162,493	10	152,309	10	142,125	10	131,941	10	121,367	10	109,469	10	97,563	10	85,656	10	73,785	10
1 1/4	1 1/4	162,281	1 1/4	152,097	1 1/4	141,913	1 1/4	131,729	1 1/4	121,120	1 1/4	109,221	1 1/4	97,315	1 1/4	85,408	1 1/4	73,538	1 1/4
1 1/2	1 1/2	162,069	1 1/2	151,885	1 1/2	141,701	1 1/2	131,516	1 1/2	120,872	1 1/2	108,973	1 1/2	97,067	1 1/2	85,160	1 1/2	73,291	1 1/2
3/4	3/4	161,857	3/4	151,673	3/4	141,488	3/4	131,304	3/4	120,624	3/4	108,726	3/4	96,818	3/4	84,912	3/4	73,044	3/4
11	11	161,645	11	151,460	11	141,276	11	131,092	11	120,377	11	108,477	11	96,570	11	84,664	11	72,797	11
1 1/4	1 1/4	170,550	1 1/4	161,433	1 1/4	141,064	1 1/4	130,880	1 1/4	120,129	1 1/4	108,229	1 1/4	96,322	1 1/4	84,416	1 1/4	72,550	1 1/4
1 1/2	1 1/2	170,529	1 1/2	161,220	1 1/2	140,852	1 1/2	130,668	1 1/2	119,881	1 1/2	107,981	1 1/2	96,074	1 1/2	84,168	1 1/2	72,303	1 1/2
3/4	3/4	170,462	3/4	161,008	3/4	140,640	3/4	130,456	3/4	119,634	3/4	107,733	3/4	95,826	3/4	83,920	3/4	72,055	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

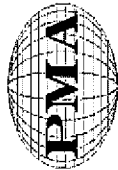
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE 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 77588
<http://www.pmaacorp.net>



BARGE "IB 1312"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IR	IN	IR	IN	IR	IN	IR	IN	IR	IN	IR	IN	IR	IN	IR	IN	IR	IN	IR
0	71,907	0	59,906	0	48,004	0	36,179	0	24,519	0	12,599	0	870	0	0	0	0	0	0
1/4	71,559	1/4	59,658	1/4	47,756	1/4	35,939	1/4	24,271	1/4	12,360	1/4	699	1/4	1/4	1/4	1/4	1/4	1/4
1/2	71,312	1/2	59,410	1/2	47,508	1/2	35,700	1/2	24,023	1/2	12,101	1/2	529	1/2	1/2	1/2	1/2	1/2	1/2
3/4	71,064	3/4	59,162	3/4	47,260	3/4	35,460	3/4	23,775	3/4	11,853	3/4	454	3/4	3/4	3/4	3/4	3/4	3/4
1	70,816	1	58,914	1	47,012	1	35,221	1	23,527	1	11,604	1	379	1	1	1	1	1	1
1/4	70,568	1/4	58,666	1/4	46,764	1/4	34,981	1/4	23,279	1/4	11,356	1/4	305	1/4	1/4	1/4	1/4	1/4	1/4
1/2	70,320	1/2	58,418	1/2	46,516	1/2	34,742	1/2	23,031	1/2	11,107	1/2	230	1/2	1/2	1/2	1/2	1/2	1/2
3/4	70,072	3/4	58,170	3/4	46,268	3/4	34,502	3/4	22,783	3/4	10,858	3/4	155	3/4	3/4	3/4	3/4	3/4	3/4
2	69,824	2	57,922	2	46,021	2	34,263	2	22,535	2	10,610	2	80	2	2	2	2	2	2
1/4	69,576	1/4	57,674	1/4	45,773	1/4	34,023	1/4	22,286	1/4	10,361	1/4	5	1/4	1/4	1/4	1/4	1/4	1/4
1/2	69,328	1/2	57,426	1/2	45,525	1/2	33,784	1/2	22,038	1/2	10,113	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69,080	3/4	57,178	3/4	45,277	3/4	33,544	3/4	21,790	3/4	9,864	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
3	68,832	3	56,930	3	45,029	3	33,305	3	21,542	3	9,615	3	0	3	3	3	3	3	3
1/4	68,584	1/4	56,682	1/4	44,781	1/4	33,065	1/4	21,294	1/4	9,367	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	68,336	1/2	56,435	1/2	44,533	1/2	32,826	1/2	21,046	1/2	9,118	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	68,088	3/4	56,187	3/4	44,285	3/4	32,586	3/4	20,798	3/4	8,870	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
4	67,840	4	55,939	4	44,037	4	32,347	4	20,550	4	8,621	4	0	4	4	4	4	4	4
1/4	67,592	1/4	55,691	1/4	43,789	1/4	32,107	1/4	20,302	1/4	8,372	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	67,344	1/2	55,443	1/2	43,541	1/2	31,868	1/2	20,054	1/2	8,124	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	67,096	3/4	55,195	3/4	43,293	3/4	31,628	3/4	19,805	3/4	7,875	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
5	66,848	5	54,947	5	43,045	5	31,389	5	19,557	5	7,627	5	0	5	5	5	5	5	5
1/4	66,600	1/4	54,699	1/4	42,797	1/4	31,149	1/4	19,309	1/4	7,378	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	66,352	1/2	54,451	1/2	42,549	1/2	30,910	1/2	19,061	1/2	7,129	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	66,104	3/4	54,203	3/4	42,301	3/4	30,669	3/4	18,813	3/4	6,881	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
6	65,856	6	53,955	6	42,053	6	30,428	6	18,564	6	6,632	6	0	6	6	6	6	6	6
1/4	65,608	1/4	53,707	1/4	41,805	1/4	30,186	1/4	18,316	1/4	6,384	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	65,360	1/2	53,459	1/2	41,557	1/2	29,945	1/2	18,067	1/2	6,135	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65,112	3/4	53,211	3/4	41,309	3/4	29,704	3/4	17,819	3/4	5,886	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
7	64,864	7	52,963	7	41,061	7	29,462	7	17,570	7	5,638	7	0	7	7	7	7	7	7
1/4	64,616	1/4	52,715	1/4	40,813	1/4	29,220	1/4	17,321	1/4	5,389	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	64,368	1/2	52,467	1/2	40,565	1/2	28,979	1/2	17,073	1/2	5,141	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	64,120	3/4	52,219	3/4	40,318	3/4	28,732	3/4	16,824	3/4	4,892	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
8	63,872	8	51,971	8	40,070	8	28,486	8	16,576	8	4,643	8	0	8	8	8	8	8	8
1/4	63,624	1/4	51,723	1/4	39,822	1/4	28,239	1/4	16,327	1/4	4,395	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,376	1/2	51,475	1/2	39,574	1/2	27,993	1/2	16,078	1/2	4,146	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	63,128	3/4	51,227	3/4	39,326	3/4	27,745	3/4	15,830	3/4	3,898	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
9	62,880	9	50,980	9	39,078	9	27,497	9	15,581	9	3,649	9	0	9	9	9	9	9	9
1/4	62,632	1/4	50,732	1/4	38,830	1/4	27,249	1/4	15,333	1/4	3,401	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,384	1/2	50,484	1/2	38,582	1/2	27,000	1/2	15,084	1/2	3,153	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,136	3/4	50,236	3/4	38,334	3/4	26,752	3/4	14,836	3/4	2,905	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	61,888	10	49,988	10	38,086	10	26,504	10	14,587	10	2,657	10	0	10	10	10	10	10	10
1/4	61,640	1/4	49,740	1/4	37,837	1/4	26,256	1/4	14,339	1/4	2,410	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,392	1/2	49,492	1/2	37,589	1/2	26,008	1/2	14,090	1/2	2,162	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,144	3/4	49,244	3/4	37,341	3/4	25,760	3/4	13,842	3/4	1,924	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	60,896	11	48,996	11	37,093	11	25,512	11	13,593	11	1,686	11	0	11	11	11	11	11	11
1/4	60,648	1/4	48,748	1/4	36,845	1/4	25,264	1/4	13,344	1/4	1,449	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,400	1/2	48,500	1/2	36,597	1/2	25,016	1/2	13,096	1/2	1,211	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,152	3/4	48,252	3/4	36,348	3/4	24,768	3/4	12,847	3/4	1,040	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/17/2019 JS
 CALCULATED: 09/18/2019 CL
 PRINTED: 09/18/2019 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2019

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



BARGE "IB 1312"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	154,041	0	145,039	0	134,739	0	124,439	0	114,139	0	103,839	0	93,539	0	83,239	0	72,939	0	62,639
1/4	1/4	154,023	1/4	144,824	1/4	134,524	1/4	124,224	1/4	113,924	1/4	103,624	1/4	93,324	1/4	83,024	1/4	72,724	1/4	62,424
1/2	1/2	153,965	1/2	144,610	1/2	134,310	1/2	124,010	1/2	113,710	1/2	103,410	1/2	93,110	1/2	82,810	1/2	72,510	1/2	62,210
3/4	3/4	153,907	3/4	144,395	3/4	134,095	3/4	123,795	3/4	113,495	3/4	103,195	3/4	92,895	3/4	82,595	3/4	72,295	3/4	61,995
1	1	153,849	1	144,180	1	133,880	1	123,580	1	113,280	1	102,980	1	92,680	1	82,380	1	72,080	1	61,780
1/4	1/4	153,791	1/4	143,966	1/4	133,666	1/4	123,366	1/4	113,066	1/4	102,766	1/4	92,466	1/4	82,166	1/4	71,866	1/4	61,566
1/2	1/2	153,666	1/2	143,751	1/2	133,451	1/2	123,151	1/2	112,851	1/2	102,551	1/2	92,251	1/2	81,951	1/2	71,651	1/2	61,351
3/4	3/4	153,540	3/4	143,537	3/4	133,237	3/4	123,037	3/4	112,637	3/4	102,337	3/4	92,037	3/4	81,737	3/4	71,437	3/4	61,137
2	2	153,415	2	143,322	2	133,022	2	122,722	2	112,422	2	102,122	2	91,822	2	81,522	2	71,222	2	60,922
1/4	1/4	153,290	1/4	143,108	1/4	132,808	1/4	122,508	1/4	112,208	1/4	101,908	1/4	91,608	1/4	81,308	1/4	71,008	1/4	60,708
1/2	1/2	153,101	1/2	142,893	1/2	132,593	1/2	122,293	1/2	111,993	1/2	101,693	1/2	91,393	1/2	81,093	1/2	70,793	1/2	60,493
3/4	3/4	152,912	3/4	142,678	3/4	132,378	3/4	122,078	3/4	111,778	3/4	101,478	3/4	91,178	3/4	80,878	3/4	70,578	3/4	60,278
3	3	152,723	3	142,464	3	132,164	3	121,864	3	111,564	3	101,264	3	90,964	3	80,664	3	70,364	3	60,064
1/4	1/4	152,534	1/4	142,249	1/4	131,949	1/4	121,649	1/4	111,349	1/4	101,049	1/4	90,749	1/4	80,449	1/4	70,149	1/4	60,049
1/2	1/2	152,323	1/2	142,036	1/2	131,735	1/2	121,435	1/2	111,135	1/2	100,835	1/2	90,535	1/2	80,235	1/2	69,935	1/2	60,035
3/4	3/4	152,111	3/4	141,820	3/4	131,520	3/4	121,220	3/4	110,920	3/4	100,620	3/4	90,320	3/4	80,020	3/4	69,720	3/4	60,020
4	4	151,900	4	141,605	4	131,305	4	121,005	4	110,705	4	100,405	4	90,105	4	79,805	4	69,505	4	60,005
1/4	1/4	151,689	1/4	141,391	1/4	131,091	1/4	120,791	1/4	110,491	1/4	100,191	1/4	89,891	1/4	79,591	1/4	69,291	1/4	60,091
1/2	1/2	151,475	1/2	141,176	1/2	130,876	1/2	120,576	1/2	110,276	1/2	99,976	1/2	89,676	1/2	79,376	1/2	69,076	1/2	60,076
3/4	3/4	151,261	3/4	140,962	3/4	130,662	3/4	120,362	3/4	110,062	3/4	99,762	3/4	89,462	3/4	79,162	3/4	68,862	3/4	60,062
5	5	151,046	5	140,747	5	130,447	5	120,147	5	109,847	5	99,547	5	89,247	5	78,947	5	68,647	5	60,047
1/4	1/4	150,833	1/4	140,533	1/4	130,233	1/4	119,933	1/4	109,633	1/4	99,333	1/4	89,033	1/4	78,733	1/4	68,433	1/4	60,033
1/2	1/2	150,618	1/2	140,318	1/2	130,018	1/2	119,718	1/2	109,418	1/2	99,118	1/2	88,818	1/2	78,518	1/2	68,218	1/2	60,018
3/4	3/4	150,403	3/4	140,103	3/4	129,803	3/4	119,503	3/4	109,203	3/4	98,903	3/4	88,603	3/4	78,303	3/4	68,003	3/4	60,003
6	6	150,189	6	139,889	6	129,589	6	119,289	6	108,989	6	98,689	6	88,389	6	78,089	6	67,789	6	60,089
1/4	1/4	149,974	1/4	139,674	1/4	129,374	1/4	119,074	1/4	108,774	1/4	98,474	1/4	88,174	1/4	77,874	1/4	67,574	1/4	60,074
1/2	1/2	149,760	1/2	139,460	1/2	129,160	1/2	118,860	1/2	108,560	1/2	98,260	1/2	87,960	1/2	77,660	1/2	67,360	1/2	60,060
3/4	3/4	149,545	3/4	139,245	3/4	128,945	3/4	118,645	3/4	108,345	3/4	98,045	3/4	87,745	3/4	77,445	3/4	67,145	3/4	60,045
7	7	149,330	7	139,030	7	128,730	7	118,430	7	108,130	7	97,830	7	87,530	7	77,230	7	66,930	7	60,030
1/4	1/4	149,116	1/4	138,816	1/4	128,516	1/4	118,216	1/4	107,916	1/4	97,616	1/4	87,316	1/4	77,016	1/4	66,716	1/4	60,016
1/2	1/2	148,901	1/2	138,601	1/2	128,301	1/2	118,001	1/2	107,701	1/2	97,401	1/2	87,101	1/2	76,801	1/2	66,501	1/2	60,001
3/4	3/4	148,687	3/4	138,387	3/4	128,087	3/4	117,787	3/4	107,487	3/4	97,187	3/4	86,887	3/4	76,587	3/4	66,287	3/4	60,087
8	8	148,472	8	138,172	8	127,872	8	117,572	8	107,272	8	96,972	8	86,672	8	76,372	8	66,072	8	60,072
1/4	1/4	148,258	1/4	137,958	1/4	127,658	1/4	117,358	1/4	107,058	1/4	96,758	1/4	86,458	1/4	76,158	1/4	65,858	1/4	60,058
1/2	1/2	148,043	1/2	137,743	1/2	127,443	1/2	117,143	1/2	106,843	1/2	96,543	1/2	86,243	1/2	75,943	1/2	65,643	1/2	60,043
3/4	3/4	147,828	3/4	137,528	3/4	127,228	3/4	116,928	3/4	106,628	3/4	96,328	3/4	86,028	3/4	75,728	3/4	65,428	3/4	60,028
9	9	147,614	9	137,314	9	127,014	9	116,714	9	106,414	9	96,114	9	85,814	9	75,514	9	65,214	9	60,014
1/4	1/4	147,399	1/4	137,099	1/4	126,799	1/4	116,499	1/4	106,199	1/4	95,899	1/4	85,599	1/4	75,299	1/4	64,999	1/4	60,099
1/2	1/2	147,185	1/2	136,885	1/2	126,585	1/2	116,285	1/2	105,985	1/2	95,685	1/2	85,385	1/2	75,085	1/2	64,785	1/2	60,085
3/4	3/4	146,970	3/4	136,670	3/4	126,370	3/4	116,070	3/4	105,770	3/4	95,470	3/4	85,170	3/4	74,870	3/4	64,570	3/4	60,070
10	10	146,755	10	136,455	10	126,155	10	115,855	10	105,555	10	95,255	10	84,955	10	74,655	10	64,355	10	60,055
1/4	1/4	146,541	1/4	136,241	1/4	125,941	1/4	115,641	1/4	105,341	1/4	95,041	1/4	84,741	1/4	74,441	1/4	64,141	1/4	60,041
1/2	1/2	146,326	1/2	136,026	1/2	125,726	1/2	115,426	1/2	105,126	1/2	94,826	1/2	84,526	1/2	74,226	1/2	63,926	1/2	60,026
3/4	3/4	146,112	3/4	135,812	3/4	125,512	3/4	115,212	3/4	104,912	3/4	94,612	3/4	84,312	3/4	74,012	3/4	63,712	3/4	60,012
11	11	145,897	11	135,597	11	125,297	11	114,997	11	104,697	11	94,397	11	84,097	11	73,797	11	63,497	11	60,097
1/4	1/4	145,683	1/4	135,383	1/4	125,083	1/4	114,783	1/4	104,483	1/4	94,183	1/4	83,883	1/4	73,583	1/4	63,283	1/4	60,083
1/2	1/2	145,468	1/2	135,168	1/2	124,868	1/2	114,568	1/2	104,268	1/2	93,968	1/2	83,668	1/2	73,368	1/2	63,068	1/2	60,068
3/4	3/4	145,253	3/4	134,953	3/4	124,653	3/4	114,353	3/4	104,053	3/4	93,753	3/4	83,453	3/4	73,153	3/4	62,853	3/4	60,053

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

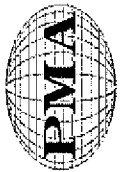
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

GAUGE POINT, (HERMETIC) LOCATED ON CENTERLINE AND 23'-06" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "IB 1312"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	62,639	0	52,339	0	42,039	0	31,739	0	21,439	0	11,139	0	1,125	0	0	0	0	0	0
1/4	62,424	1/4	52,124	1/4	41,824	1/4	31,524	1/4	21,224	1/4	10,934	1/4	920	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,210	1/2	51,910	1/2	41,610	1/2	31,310	1/2	21,010	1/2	10,720	1/2	773	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,995	3/4	51,695	3/4	41,395	3/4	31,100	3/4	20,800	3/4	10,510	3/4	626	3/4	3/4	3/4	3/4	3/4	3/4
1	61,780	1	51,480	1	41,180	1	30,943	1	20,834	1	10,335	1	479	1	1	1	1	1	1
1/4	61,566	1/4	51,266	1/4	40,966	1/4	30,735	1/4	20,620	1/4	10,220	1/4	331	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,351	1/2	51,051	1/2	40,751	1/2	30,527	1/2	20,405	1/2	10,106	1/2	267	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,137	3/4	50,837	3/4	40,537	3/4	30,318	3/4	20,191	3/4	9,991	3/4	203	3/4	3/4	3/4	3/4	3/4	3/4
2	60,922	2	50,622	2	40,322	2	30,110	2	19,976	2	9,676	2	138	2	2	2	2	2	2
1/4	60,708	1/4	50,408	1/4	40,108	1/4	29,902	1/4	19,761	1/4	9,462	1/4	74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,493	1/2	50,193	1/2	39,893	1/2	29,693	1/2	19,547	1/2	9,247	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,278	3/4	49,978	3/4	39,678	3/4	29,485	3/4	19,332	3/4	9,033	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
3	60,064	3	49,764	3	39,464	3	29,277	3	19,118	3	8,818	3	0	3	3	3	3	3	3
1/4	59,849	1/4	49,549	1/4	39,249	1/4	29,069	1/4	18,904	1/4	8,604	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,635	1/2	49,335	1/2	39,035	1/2	28,860	1/2	18,689	1/2	8,389	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,420	3/4	49,120	3/4	38,820	3/4	28,652	3/4	18,474	3/4	8,174	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
4	59,205	4	48,905	4	38,605	4	28,444	4	18,259	4	7,960	4	0	4	4	4	4	4	4
1/4	58,991	1/4	48,691	1/4	38,391	1/4	28,236	1/4	18,045	1/4	7,745	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,776	1/2	48,476	1/2	38,176	1/2	28,027	1/2	17,830	1/2	7,531	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,562	3/4	48,262	3/4	37,962	3/4	27,819	3/4	17,616	3/4	7,316	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
5	58,347	5	48,047	5	37,747	5	27,611	5	17,401	5	7,102	5	0	5	5	5	5	5	5
1/4	58,133	1/4	47,833	1/4	37,533	1/4	27,402	1/4	17,187	1/4	6,887	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,918	1/2	47,618	1/2	37,318	1/2	27,194	1/2	16,972	1/2	6,672	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,703	3/4	47,403	3/4	37,103	3/4	26,986	3/4	16,757	3/4	6,458	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
6	57,489	6	47,189	6	36,889	6	26,778	6	16,543	6	6,243	6	0	6	6	6	6	6	6
1/4	57,274	1/4	46,974	1/4	36,674	1/4	26,569	1/4	16,328	1/4	6,029	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,060	1/2	46,760	1/2	36,460	1/2	26,361	1/2	16,114	1/2	5,814	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,845	3/4	46,545	3/4	36,245	3/4	26,153	3/4	15,899	3/4	5,600	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
7	56,630	7	46,330	7	36,030	7	25,945	7	15,685	7	5,385	7	0	7	7	7	7	7	7
1/4	56,416	1/4	46,116	1/4	35,816	1/4	25,737	1/4	15,470	1/4	5,170	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,201	1/2	45,901	1/2	35,601	1/2	25,529	1/2	15,255	1/2	4,956	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,987	3/4	45,687	3/4	35,387	3/4	25,321	3/4	15,041	3/4	4,741	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
8	55,772	8	45,472	8	35,172	8	25,113	8	14,826	8	4,527	8	0	8	8	8	8	8	8
1/4	55,558	1/4	45,258	1/4	34,958	1/4	24,905	1/4	14,612	1/4	4,312	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,343	1/2	45,043	1/2	34,743	1/2	24,692	1/2	14,397	1/2	4,098	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,128	3/4	44,828	3/4	34,528	3/4	24,479	3/4	14,183	3/4	3,883	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
9	54,914	9	44,614	9	34,314	9	24,266	9	13,968	9	3,668	9	0	9	9	9	9	9	9
1/4	54,699	1/4	44,399	1/4	34,099	1/4	24,053	1/4	13,753	1/4	3,454	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,485	1/2	44,185	1/2	33,885	1/2	23,838	1/2	13,539	1/2	3,239	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,270	3/4	43,970	3/4	33,670	3/4	23,624	3/4	13,324	3/4	3,025	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
10	54,055	10	43,755	10	33,455	10	23,409	10	13,110	10	2,811	10	0	10	10	10	10	10	10
1/4	53,841	1/4	43,541	1/4	33,241	1/4	23,195	1/4	12,895	1/4	2,596	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,626	1/2	43,326	1/2	33,031	1/2	22,980	1/2	12,681	1/2	2,383	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,412	3/4	43,112	3/4	32,821	3/4	22,765	3/4	12,466	3/4	2,169	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4
11	53,197	11	42,897	11	32,611	11	22,551	11	12,251	11	1,955	11	0	11	11	11	11	11	11
1/4	52,983	1/4	42,683	1/4	32,401	1/4	22,336	1/4	12,037	1/4	1,741	1/4	0	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,768	1/2	42,468	1/2	32,193	1/2	22,122	1/2	11,822	1/2	1,536	1/2	0	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,553	3/4	42,253	3/4	31,985	3/4	21,907	3/4	11,608	3/4	1,331	3/4	0	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/17/2019 JS
 CALCULATED: 09/18/2019 CL
 PRINTED: 09/18/2019 CL
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2019

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77586
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BARGE "IB 1312"

3 CENTER ULLAGE TABLE

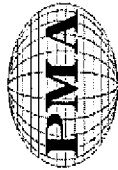
CAPACITIES GIVEN IN WHOLE GALLONS

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE ONLY APPLIES 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 24'-00" FORWARD OF AFT BULKHEAD

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



BARGE "IB 1312"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-02 5/8"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	63,636	0	53,261	0	42,887	0	32,515	0	22,174	0	11,800	0	1,444	0	0	0	0	0	0
1/4	63,420	1/4	53,045	1/4	42,670	1/4	32,300	1/4	21,958	1/4	11,584	1/4	1,237	1/4	1/4	1/4	1/4	1/4	1/4
1/2	63,204	1/2	52,829	1/2	42,454	1/2	32,084	1/2	21,742	1/2	11,367	1/2	1,030	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,988	3/4	52,613	3/4	42,238	3/4	31,869	3/4	21,526	3/4	11,151	3/4	852	3/4	3/4	3/4	3/4	3/4	3/4
1	62,771	1	52,397	1	42,022	1	31,654	1	21,309	1	10,935	1	704	1	1	1	1	1	1
1/4	62,555	1/4	52,181	1/4	41,806	1/4	31,438	1/4	21,093	1/4	10,719	1/4	556	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62,339	1/2	51,964	1/2	41,590	1/2	31,223	1/2	20,877	1/2	10,503	1/2	408	1/2	1/2	1/2	1/2	1/2	1/2
3/4	62,123	3/4	51,748	3/4	41,374	3/4	31,008	3/4	20,661	3/4	10,287	3/4	301	3/4	3/4	3/4	3/4	3/4	3/4
2	61,907	2	51,532	2	41,157	2	30,793	2	20,445	2	10,071	2	236	2	2	2	2	2	2
1/4	61,691	1/4	51,316	1/4	40,941	1/4	30,578	1/4	20,229	1/4	9,854	1/4	171	1/4	1/4	1/4	1/4	1/4	1/4
1/2	61,475	1/2	51,100	1/2	40,726	1/2	30,362	1/2	20,013	1/2	9,638	1/2	107	1/2	1/2	1/2	1/2	1/2	1/2
3/4	61,258	3/4	50,884	3/4	40,509	3/4	30,147	3/4	19,797	3/4	9,422	3/4	74	3/4	3/4	3/4	3/4	3/4	3/4
3	61,042	3	50,668	3	40,293	3	29,932	3	19,580	3	9,206	3	3	3	3	3	3	3	3
1/4	60,826	1/4	50,451	1/4	40,077	1/4	29,717	1/4	19,364	1/4	8,990	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	60,610	1/2	50,235	1/2	39,861	1/2	29,502	1/2	19,148	1/2	8,774	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	60,394	3/4	50,019	3/4	39,644	3/4	29,287	3/4	18,932	3/4	8,558	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	60,178	4	49,803	4	39,428	4	29,071	4	18,716	4	8,342	4	4	4	4	4	4	4	4
1/4	59,962	1/4	49,587	1/4	39,212	1/4	28,856	1/4	18,500	1/4	8,126	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	59,746	1/2	49,371	1/2	38,996	1/2	28,641	1/2	18,284	1/2	7,909	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	59,529	3/4	49,155	3/4	38,780	3/4	28,426	3/4	18,067	3/4	7,693	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	59,313	5	48,938	5	38,564	5	28,211	5	17,851	5	7,477	5	5	5	5	5	5	5	5
1/4	59,097	1/4	48,722	1/4	38,348	1/4	27,996	1/4	17,635	1/4	7,261	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,881	1/2	48,506	1/2	38,131	1/2	27,780	1/2	17,419	1/2	7,045	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	58,665	3/4	48,290	3/4	37,915	3/4	27,565	3/4	17,203	3/4	6,829	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	58,449	6	48,074	6	37,699	6	27,350	6	16,987	6	6,613	6	6	6	6	6	6	6	6
1/4	58,233	1/4	47,858	1/4	37,483	1/4	27,135	1/4	16,771	1/4	6,396	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,016	1/2	47,642	1/2	37,267	1/2	26,920	1/2	16,555	1/2	6,180	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,800	3/4	47,426	3/4	37,051	3/4	26,705	3/4	16,338	3/4	5,964	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	57,584	7	47,209	7	36,835	7	26,489	7	16,122	7	5,748	7	7	7	7	7	7	7	7
1/4	57,368	1/4	46,993	1/4	36,618	1/4	26,274	1/4	15,906	1/4	5,532	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,152	1/2	46,777	1/2	36,402	1/2	26,059	1/2	15,690	1/2	5,316	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,936	3/4	46,561	3/4	36,186	3/4	25,844	3/4	15,474	3/4	5,100	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	56,720	8	46,345	8	35,970	8	25,629	8	15,258	8	4,883	8	8	8	8	8	8	8	8
1/4	56,503	1/4	46,129	1/4	35,754	1/4	25,414	1/4	15,042	1/4	4,667	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,287	1/2	45,913	1/2	35,538	1/2	25,198	1/2	14,826	1/2	4,451	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,071	3/4	45,696	3/4	35,322	3/4	24,983	3/4	14,609	3/4	4,235	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	55,855	9	45,480	9	35,106	9	24,767	9	14,393	9	4,019	9	9	9	9	9	9	9	9
1/4	55,639	1/4	45,264	1/4	34,889	1/4	24,551	1/4	14,177	1/4	3,803	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,423	1/2	45,048	1/2	34,673	1/2	24,335	1/2	13,961	1/2	3,587	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,207	3/4	44,832	3/4	34,457	3/4	24,119	3/4	13,745	3/4	3,371	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	54,990	10	44,616	10	34,241	10	23,903	10	13,529	10	3,155	10	10	10	10	10	10	10	10
1/4	54,774	1/4	44,400	1/4	34,025	1/4	23,687	1/4	13,313	1/4	2,939	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,558	1/2	44,183	1/2	33,809	1/2	23,471	1/2	13,096	1/2	2,723	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,342	3/4	43,967	3/4	33,593	3/4	23,255	3/4	12,880	3/4	2,507	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	54,126	11	43,751	11	33,377	11	23,038	11	12,664	11	2,292	11	11	11	11	11	11	11	11
1/4	53,910	1/4	43,535	1/4	33,162	1/4	22,822	1/4	12,448	1/4	2,077	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,694	1/2	43,319	1/2	32,946	1/2	22,606	1/2	12,232	1/2	1,861	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,477	3/4	43,103	3/4	32,730	3/4	22,390	3/4	12,016	3/4	1,650	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: 09/17/2019 JS
CALCULATED: 09/18/2019 CL
PRINTED: 09/18/2019 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77568
http://www.pmacorp.net

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2019