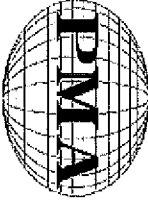


6/1/19



BARGE "1B 1313"

INNAGE 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	00-1/2	- 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	01-1/8	- 01-1/8

(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 INNAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2"

LENGTH BETWEEN DRAFT MARKS: 163'-03"

September 20, 2019

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

<http://www.pmacorp.net>



BARGE "IB 1313"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-0" 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	231	0	11,123	0	23,063	0	34,791	0	46,582	0	58,501	0	70,420	0	82,300	0	94,223	0	106,147
1/4	305	1/4	11,372	1/4	23,312	1/4	35,031	1/4	46,831	1/4	58,749	1/4	70,668	1/4	82,548	1/4	94,472	1/4	106,395
1/2	380	1/2	11,621	1/2	23,560	1/2	35,271	1/2	47,079	1/2	58,998	1/2	70,916	1/2	82,797	1/2	94,720	1/2	106,644
3/4	455	3/4	11,870	3/4	23,809	3/4	35,510	3/4	47,327	3/4	59,246	3/4	71,164	3/4	83,045	3/4	94,969	3/4	106,892
1	529	1	12,119	1	24,057	1	35,750	1	47,576	1	59,494	1	71,413	1	83,294	1	95,217	1	107,140
1 1/4	700	1 1/4	12,368	1 1/4	24,306	1 1/4	35,980	1 1/4	47,824	1 1/4	59,743	1 1/4	71,661	1 1/4	83,542	1 1/4	95,465	1 1/4	107,389
1 1/2	871	1 1/2	12,617	1 1/2	24,554	1 1/2	36,230	1 1/2	48,072	1 1/2	59,991	1 1/2	71,909	1 1/2	83,790	1 1/2	95,714	1 1/2	107,637
2	1,042	2	12,866	2	24,803	2	36,474	2	48,321	2	60,239	2	72,157	2	84,032	2	95,956	2	107,886
2 1/4	1,212	2 1/4	13,114	2 1/4	25,051	2 1/4	36,710	2 1/4	48,569	2 1/4	60,487	2 1/4	72,405	2 1/4	84,287	2 1/4	96,211	2 1/4	108,134
2 1/2	1,451	2 1/2	13,363	2 1/2	25,300	2 1/2	36,949	2 1/2	48,817	2 1/2	60,736	2 1/2	72,652	2 1/2	84,536	2 1/2	96,459	2 1/2	108,382
2 3/4	1,689	2 3/4	13,612	2 3/4	25,548	2 3/4	37,189	2 3/4	49,065	2 3/4	60,984	2 3/4	72,900	2 3/4	84,784	2 3/4	96,707	2 3/4	108,631
3	1,927	3	13,861	3	25,796	3	37,429	3	49,314	3	61,232	3	73,147	3	85,032	3	96,956	3	108,879
3 1/4	2,165	3 1/4	14,110	3 1/4	26,045	3 1/4	37,669	3 1/4	49,562	3 1/4	61,481	3 1/4	73,394	3 1/4	85,281	3 1/4	97,204	3 1/4	109,128
3 1/2	2,413	3 1/2	14,359	3 1/2	26,293	3 1/2	37,911	3 1/2	49,810	3 1/2	61,729	3 1/2	73,642	3 1/2	85,529	3 1/2	97,453	3 1/2	109,376
3 3/4	2,661	3 3/4	14,608	3 3/4	26,542	3 3/4	38,153	3 3/4	50,059	3 3/4	61,977	3 3/4	73,889	3 3/4	85,778	3 3/4	97,701	3 3/4	109,624
4	2,909	4	14,857	4	26,790	4	38,395	4	50,307	4	62,226	4	74,137	4	86,026	4	97,949	4	109,873
4 1/4	3,157	4 1/4	15,106	4 1/4	27,039	4 1/4	38,637	4 1/4	50,555	4 1/4	62,474	4 1/4	74,384	4 1/4	86,274	4 1/4	98,198	4 1/4	110,121
4 1/2	3,406	4 1/2	15,355	4 1/2	27,287	4 1/2	38,885	4 1/2	50,804	4 1/2	62,722	4 1/2	74,631	4 1/2	86,523	4 1/2	98,446	4 1/2	110,370
4 3/4	3,655	4 3/4	15,603	4 3/4	27,536	4 3/4	39,133	4 3/4	51,052	4 3/4	62,970	4 3/4	74,879	4 3/4	86,771	4 3/4	98,695	4 3/4	110,618
5	3,903	5	15,852	5	27,784	5	39,382	5	51,300	5	63,219	5	75,126	5	87,020	5	98,943	5	110,866
5 1/4	4,152	5 1/4	16,101	5 1/4	28,033	5 1/4	39,630	5 1/4	51,548	5 1/4	63,467	5 1/4	75,373	5 1/4	87,268	5 1/4	99,191	5 1/4	111,115
5 1/2	4,401	5 1/2	16,350	5 1/2	28,279	5 1/2	39,878	5 1/2	51,797	5 1/2	63,715	5 1/2	75,621	5 1/2	87,516	5 1/2	99,440	5 1/2	111,363
5 3/4	4,650	5 3/4	16,599	5 3/4	28,526	5 3/4	40,126	5 3/4	52,045	5 3/4	63,964	5 3/4	75,868	5 3/4	87,765	5 3/4	99,688	5 3/4	111,612
6	4,899	6	16,848	6	28,773	6	40,375	6	52,293	6	64,212	6	76,115	6	88,013	6	99,937	6	111,860
6 1/4	5,148	6 1/4	17,097	6 1/4	29,020	6 1/4	40,623	6 1/4	52,542	6 1/4	64,460	6 1/4	76,363	6 1/4	88,262	6 1/4	100,185	6 1/4	112,108
6 1/2	5,397	6 1/2	17,346	6 1/2	29,262	6 1/2	40,871	6 1/2	52,790	6 1/2	64,709	6 1/2	76,610	6 1/2	88,510	6 1/2	100,433	6 1/2	112,357
6 3/4	5,646	6 3/4	17,595	6 3/4	29,504	6 3/4	41,120	6 3/4	53,038	6 3/4	64,957	6 3/4	76,857	6 3/4	88,759	6 3/4	100,682	6 3/4	112,605
7	5,895	7	17,844	7	29,746	7	41,368	7	53,287	7	65,205	7	77,105	7	89,007	7	100,930	7	112,854
7 1/4	6,144	7 1/4	18,093	7 1/4	29,988	7 1/4	41,616	7 1/4	53,535	7 1/4	65,453	7 1/4	77,352	7 1/4	89,255	7 1/4	101,179	7 1/4	113,102
7 1/2	6,393	7 1/2	18,342	7 1/2	30,229	7 1/2	41,865	7 1/2	53,783	7 1/2	65,702	7 1/2	77,599	7 1/2	89,504	7 1/2	101,427	7 1/2	113,350
7 3/4	6,642	7 3/4	18,590	7 3/4	30,471	7 3/4	42,113	7 3/4	54,032	7 3/4	65,950	7 3/4	77,847	7 3/4	89,752	7 3/4	101,675	7 3/4	113,599
8	6,891	8	18,839	8	30,712	8	42,361	8	54,280	8	66,198	8	78,094	8	90,001	8	101,924	8	113,847
8 1/4	7,140	8 1/4	19,088	8 1/4	30,954	8 1/4	42,610	8 1/4	54,528	8 1/4	66,447	8 1/4	78,341	8 1/4	90,249	8 1/4	102,172	8 1/4	114,096
8 1/2	7,389	8 1/2	19,337	8 1/2	31,193	8 1/2	42,858	8 1/2	54,776	8 1/2	66,695	8 1/2	78,589	8 1/2	90,497	8 1/2	102,421	8 1/2	114,344
8 3/4	7,637	8 3/4	19,585	8 3/4	31,433	8 3/4	43,106	8 3/4	55,025	8 3/4	66,943	8 3/4	78,836	8 3/4	90,746	8 3/4	102,669	8 3/4	114,592
9	7,886	9	19,834	9	31,673	9	43,354	9	55,273	9	67,192	9	79,083	9	90,994	9	102,917	9	114,841
9 1/4	8,135	9 1/4	20,082	9 1/4	31,913	9 1/4	43,603	9 1/4	55,521	9 1/4	67,440	9 1/4	79,331	9 1/4	91,243	9 1/4	103,166	9 1/4	115,089
9 1/2	8,384	9 1/2	20,330	9 1/2	32,153	9 1/2	43,851	9 1/2	55,770	9 1/2	67,688	9 1/2	79,578	9 1/2	91,491	9 1/2	103,414	9 1/2	115,338
9 3/4	8,633	9 3/4	20,579	9 3/4	32,393	9 3/4	44,099	9 3/4	56,018	9 3/4	67,937	9 3/4	79,825	9 3/4	91,739	9 3/4	103,661	9 3/4	115,586
10	8,882	10	20,827	10	32,632	10	44,348	10	56,266	10	68,185	10	80,073	10	91,988	10	103,911	10	115,834
10 1/4	9,131	10 1/4	21,076	10 1/4	32,872	10 1/4	44,596	10 1/4	56,515	10 1/4	68,433	10 1/4	80,320	10 1/4	92,236	10 1/4	104,159	10 1/4	116,082
10 1/2	9,380	10 1/2	21,324	10 1/2	33,112	10 1/2	44,844	10 1/2	56,763	10 1/2	68,681	10 1/2	80,568	10 1/2	92,485	10 1/2	104,408	10 1/2	116,331
10 3/4	9,629	10 3/4	21,573	10 3/4	33,352	10 3/4	45,093	10 3/4	57,011	10 3/4	68,930	10 3/4	80,815	10 3/4	92,733	10 3/4	104,656	10 3/4	116,579
11	9,878	11	21,821	11	33,592	11	45,341	11	57,259	11	69,178	11	81,062	11	92,981	11	104,905	11	116,827
11 1/4	10,127	11 1/4	22,070	11 1/4	33,832	11 1/4	45,589	11 1/4	57,508	11 1/4	69,426	11 1/4	81,310	11 1/4	93,230	11 1/4	105,153	11 1/4	117,075
11 1/2	10,376	11 1/2	22,318	11 1/2	34,071	11 1/2	45,837	11 1/2	57,756	11 1/2	69,675	11 1/2	81,557	11 1/2	93,478	11 1/2	105,401	11 1/2	117,323
11 3/4	10,625	11 3/4	22,567	11 3/4	34,311	11 3/4	46,086	11 3/4	58,004	11 3/4	69,923	11 3/4	81,805	11 3/4	93,727	11 3/4	105,650	11 3/4	117,571
12	10,874	12	22,815	12	34,551	12	46,334	12	58,253	12	70,171	12	82,052	12	93,975	12	105,898	12	117,819

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

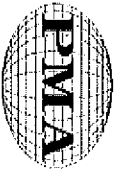
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IAPMO CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO INNAGE 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.

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



BARGE "IB 1313"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	118,067	0	129,153	0	139,352	0	149,551	0	159,749	0	169,921	0	0	0	0	0	0	0	0
1/4	118,315	1/4	129,366	1/4	139,564	1/4	149,763	1/4	159,962	1/4	170,066	1/4	170,211	1/4	170,356	1/4	170,502	1/4	170,647
1/2	118,563	1/2	129,578	1/2	139,777	1/2	149,976	1/2	160,174	1/2	170,211	1/2	170,356	1/2	170,502	1/2	170,647	1/2	170,792
3/4	118,811	3/4	129,791	3/4	139,989	3/4	150,188	3/4	160,387	3/4	170,356	3/4	170,502	3/4	170,647	3/4	170,792	3/4	170,937
1	119,059	1	130,003	1	140,202	1	150,400	1	160,599	1	170,502	1	170,647	1	170,792	1	170,937	1	171,082
1/4	119,307	1/4	130,216	1/4	140,414	1/4	150,613	1/4	160,812	1/4	170,647	1/4	170,792	1/4	170,937	1/4	171,082	1/4	171,227
1/2	119,555	1/2	130,428	1/2	140,627	1/2	150,825	1/2	161,024	1/2	170,647	1/2	170,792	1/2	170,937	1/2	171,082	1/2	171,227
3/4	119,803	3/4	130,641	3/4	140,839	3/4	151,038	3/4	161,237	3/4	170,704	3/4	170,849	3/4	170,994	3/4	171,139	3/4	171,284
2	120,051	2	130,853	2	141,052	2	151,250	2	161,449	2	170,771	2	170,916	2	171,061	2	171,206	2	171,351
1/4	120,299	1/4	131,066	1/4	141,264	1/4	151,463	1/4	161,661	1/4	170,984	1/4	171,129	1/4	171,274	1/4	171,419	1/4	171,564
1/2	120,547	1/2	131,278	1/2	141,477	1/2	151,675	1/2	161,874	1/2	171,011	1/2	171,156	1/2	171,301	1/2	171,446	1/2	171,591
3/4	120,795	3/4	131,490	3/4	141,689	3/4	151,888	3/4	162,086	3/4	171,139	3/4	171,284	3/4	171,429	3/4	171,574	3/4	171,719
3	121,043	3	131,703	3	141,902	3	152,100	3	162,299	3	171,274	3	171,419	3	171,564	3	171,709	3	171,854
1/4	121,292	1/4	131,915	1/4	142,114	1/4	152,313	1/4	162,511	1/4	171,402	1/4	171,547	1/4	171,692	1/4	171,837	1/4	171,982
1/2	121,540	1/2	132,128	1/2	142,327	1/2	152,525	1/2	162,724	1/2	171,525	1/2	171,670	1/2	171,815	1/2	171,960	1/2	172,105
3/4	121,788	3/4	132,340	3/4	142,539	3/4	152,738	3/4	162,936	3/4	171,648	3/4	171,793	3/4	171,938	3/4	172,083	3/4	172,228
4	122,036	4	132,553	4	142,751	4	152,950	4	163,149	4	171,771	4	171,916	4	172,061	4	172,206	4	172,351
1/4	122,284	1/4	132,765	1/4	142,964	1/4	153,163	1/4	163,361	1/4	171,894	1/4	172,039	1/4	172,184	1/4	172,329	1/4	172,474
1/2	122,532	1/2	132,978	1/2	143,176	1/2	153,375	1/2	163,574	1/2	172,011	1/2	172,156	1/2	172,301	1/2	172,446	1/2	172,591
3/4	122,780	3/4	133,190	3/4	143,389	3/4	153,588	3/4	163,786	3/4	172,139	3/4	172,284	3/4	172,429	3/4	172,574	3/4	172,719
5	123,028	5	133,403	5	143,601	5	153,800	5	163,999	5	172,261	5	172,406	5	172,551	5	172,696	5	172,841
1/4	123,271	1/4	133,615	1/4	143,814	1/4	154,012	1/4	164,211	1/4	172,384	1/4	172,529	1/4	172,674	1/4	172,819	1/4	172,964
1/2	123,515	1/2	133,828	1/2	144,026	1/2	154,225	1/2	164,424	1/2	172,506	1/2	172,651	1/2	172,796	1/2	172,941	1/2	173,086
3/4	123,758	3/4	134,040	3/4	144,239	3/4	154,437	3/4	164,636	3/4	172,629	3/4	172,774	3/4	172,919	3/4	173,064	3/4	173,209
6	124,002	6	134,253	6	144,451	6	154,650	6	164,849	6	172,751	6	172,896	6	173,041	6	173,186	6	173,331
1/4	124,227	1/4	134,465	1/4	144,664	1/4	154,862	1/4	165,061	1/4	172,874	1/4	173,019	1/4	173,164	1/4	173,309	1/4	173,454
1/2	124,453	1/2	134,678	1/2	144,876	1/2	155,075	1/2	165,274	1/2	172,996	1/2	173,141	1/2	173,286	1/2	173,431	1/2	173,576
3/4	124,678	3/4	134,890	3/4	145,089	3/4	155,287	3/4	165,486	3/4	173,119	3/4	173,264	3/4	173,409	3/4	173,554	3/4	173,699
7	124,904	7	135,103	7	145,301	7	155,500	7	165,698	7	173,241	7	173,386	7	173,531	7	173,676	7	173,821
1/4	125,116	1/4	135,315	1/4	145,514	1/4	155,712	1/4	165,911	1/4	173,364	1/4	173,509	1/4	173,654	1/4	173,799	1/4	173,944
1/2	125,329	1/2	135,527	1/2	145,726	1/2	155,925	1/2	166,123	1/2	173,486	1/2	173,631	1/2	173,776	1/2	173,921	1/2	174,066
3/4	125,541	3/4	135,740	3/4	145,939	3/4	156,137	3/4	166,336	3/4	173,609	3/4	173,754	3/4	173,899	3/4	174,044	3/4	174,189
8	125,754	8	135,952	8	146,151	8	156,350	8	166,548	8	173,731	8	173,876	8	174,021	8	174,166	8	174,311
1/4	125,966	1/4	136,165	1/4	146,364	1/4	156,562	1/4	166,761	1/4	173,854	1/4	174,009	1/4	174,154	1/4	174,299	1/4	174,444
1/2	126,179	1/2	136,377	1/2	146,576	1/2	156,775	1/2	166,973	1/2	173,976	1/2	174,131	1/2	174,276	1/2	174,421	1/2	174,566
3/4	126,391	3/4	136,590	3/4	146,788	3/4	156,987	3/4	167,186	3/4	174,099	3/4	174,244	3/4	174,389	3/4	174,534	3/4	174,679
9	126,604	9	136,802	9	147,001	9	157,200	9	167,398	9	174,221	9	174,366	9	174,511	9	174,656	9	174,801
1/4	126,816	1/4	137,015	1/4	147,213	1/4	157,412	1/4	167,610	1/4	174,343	1/4	174,488	1/4	174,633	1/4	174,778	1/4	174,923
1/2	127,029	1/2	137,227	1/2	147,426	1/2	157,625	1/2	167,822	1/2	174,465	1/2	174,610	1/2	174,755	1/2	174,900	1/2	175,045
3/4	127,241	3/4	137,440	3/4	147,638	3/4	157,837	3/4	168,034	3/4	174,587	3/4	174,732	3/4	174,877	3/4	175,022	3/4	175,167
10	127,454	10	137,652	10	147,851	10	158,049	10	168,246	10	174,709	10	174,854	10	175,009	10	175,154	10	175,299
1/4	127,666	1/4	137,865	1/4	148,063	1/4	158,262	1/4	168,459	1/4	174,831	1/4	174,976	1/4	175,126	1/4	175,271	1/4	175,416
1/2	127,878	1/2	138,077	1/2	148,276	1/2	158,474	1/2	168,672	1/2	174,953	1/2	175,098	1/2	175,243	1/2	175,388	1/2	175,533
3/4	128,091	3/4	138,290	3/4	148,488	3/4	158,687	3/4	168,885	3/4	175,075	3/4	175,220	3/4	175,365	3/4	175,510	3/4	175,655
11	128,303	11	138,502	11	148,701	11	158,899	11	169,098	11	175,197	11	175,342	11	175,487	11	175,632	11	175,777
1/4	128,516	1/4	138,715	1/4	148,913	1/4	159,112	1/4	169,304	1/4	175,319	1/4	175,464	1/4	175,609	1/4	175,754	1/4	175,899
1/2	128,728	1/2	138,927	1/2	149,126	1/2	159,324	1/2	169,510	1/2	175,441	1/2	175,586	1/2	175,731	1/2	175,876	1/2	176,021
3/4	128,941	3/4	139,139	3/4	149,338	3/4	159,537	3/4	169,715	3/4	175,563	3/4	175,708	3/4	175,853	3/4	176,008	3/4	176,153

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2019 CL
CALCULATED: 09/20/2019 CL
PRINTED: 09/20/2019 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 09/20/2019

PRECISION MEASUREMENT
& ANALYSIS, INC.
P. O. Box 2092
Pearland, Texas 77588
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BARGE "IB 1313"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	74	0	9,456	0	19,749	0	29,883	0	40,083	0	50,376	0	60,670	0	70,963	0	81,257	0	91,551
1/4	138	1/4	9,670	1/4	19,964	1/4	30,091	1/4	40,297	1/4	50,591	1/4	60,884	1/4	71,178	1/4	81,472	1/4	91,765
1/2	202	1/2	9,885	1/2	20,178	1/2	30,300	1/2	40,512	1/2	50,805	1/2	61,098	1/2	71,392	1/2	81,686	1/2	91,980
3/4	267	3/4	10,099	3/4	20,392	3/4	30,508	3/4	40,726	3/4	51,020	3/4	61,313	3/4	71,607	3/4	81,900	3/4	92,194
1	331	1	10,314	1	20,607	1	30,716	1	40,940	1	51,234	1	61,528	1	71,821	1	82,115	1	92,409
1 1/4	478	1 1/4	10,528	1 1/4	20,821	1 1/4	30,924	1 1/4	41,155	1 1/4	51,449	1 1/4	61,742	1 1/4	72,036	1 1/4	82,329	1 1/4	92,623
1 1/2	625	1 1/2	10,743	1 1/2	21,036	1 1/2	31,132	1 1/2	41,369	1 1/2	51,663	1 1/2	61,957	1 1/2	72,250	1 1/2	82,544	1 1/2	92,837
1 3/4	772	1 3/4	10,957	1 3/4	21,250	1 3/4	31,340	1 3/4	41,584	1 3/4	51,877	1 3/4	62,171	1 3/4	72,465	1 3/4	82,758	1 3/4	93,052
2	920	2	11,172	2	21,465	2	31,549	2	41,798	2	52,092	2	62,385	2	72,679	2	82,973	2	93,266
1/4	1,125	1/4	11,386	1/4	21,679	1/4	31,757	1/4	42,013	1/4	52,306	1/4	62,600	1/4	72,894	1/4	83,187	1/4	93,481
1/2	1,330	1/2	11,600	1/2	21,894	1/2	31,965	1/2	42,227	1/2	52,521	1/2	62,814	1/2	73,108	1/2	83,402	1/2	93,695
3/4	1,535	3/4	11,815	3/4	22,108	3/4	32,173	3/4	42,442	3/4	52,735	3/4	63,029	3/4	73,322	3/4	83,616	3/4	93,910
1	1,740	1	12,029	1	22,322	1	32,381	1	42,656	1	52,950	1	63,243	1	73,537	1	83,830	1	94,124
1 1/4	1,954	1 1/4	12,244	1 1/4	22,537	1 1/4	32,591	1 1/4	42,871	1 1/4	53,164	1 1/4	63,458	1 1/4	73,751	1 1/4	84,045	1 1/4	94,339
1 1/2	2,167	1 1/2	12,458	1 1/2	22,751	1 1/2	32,801	1 1/2	43,085	1 1/2	53,379	1 1/2	63,672	1 1/2	73,966	1 1/2	84,259	1 1/2	94,553
1 3/4	2,381	1 3/4	12,673	1 3/4	22,966	1 3/4	33,011	1 3/4	43,299	1 3/4	53,593	1 3/4	63,887	1 3/4	74,180	1 3/4	84,474	1 3/4	94,767
2	2,595	2	12,887	2	23,180	2	33,220	2	43,514	2	53,807	2	64,101	2	74,395	2	84,688	2	95,196
1/4	2,809	1/4	13,102	1/4	23,395	1/4	33,435	1/4	43,728	1/4	54,022	1/4	64,316	1/4	74,609	1/4	84,903	1/4	95,196
1/2	3,023	1/2	13,316	1/2	23,609	1/2	33,649	1/2	43,943	1/2	54,236	1/2	64,530	1/2	74,824	1/2	85,117	1/2	95,411
3/4	3,237	3/4	13,530	3/4	23,824	3/4	33,864	3/4	44,157	3/4	54,451	3/4	64,744	3/4	75,038	3/4	85,332	3/4	95,625
1	3,452	1	13,745	1	24,038	1	34,078	1	44,371	1	54,665	1	64,939	1	75,252	1	85,546	1	95,840
1 1/4	3,666	1 1/4	13,959	1 1/4	24,251	1 1/4	34,293	1 1/4	44,586	1 1/4	54,880	1 1/4	65,173	1 1/4	75,467	1 1/4	85,761	1 1/4	96,054
1 1/2	3,881	1 1/2	14,174	1 1/2	24,464	1 1/2	34,507	1 1/2	44,801	1 1/2	55,094	1 1/2	65,388	1 1/2	75,681	1 1/2	85,975	1 1/2	96,269
1 3/4	4,095	1 3/4	14,388	1 3/4	24,676	1 3/4	34,721	1 3/4	45,015	1 3/4	55,309	1 3/4	65,602	1 3/4	75,896	1 3/4	86,189	1 3/4	96,483
2	4,309	2	14,603	2	24,889	2	34,936	2	45,229	2	55,523	2	65,817	2	76,110	2	86,404	2	96,698
1/4	4,524	1/4	14,817	1/4	25,097	1/4	35,150	1/4	45,444	1/4	55,738	1/4	66,031	1/4	76,325	1/4	86,619	1/4	96,912
1/2	4,738	1/2	15,031	1/2	25,305	1/2	35,365	1/2	45,658	1/2	55,952	1/2	66,246	1/2	76,539	1/2	86,833	1/2	97,126
3/4	4,953	3/4	15,246	3/4	25,513	3/4	35,574	3/4	45,873	3/4	56,166	3/4	66,460	3/4	76,754	3/4	87,047	3/4	97,341
1	5,167	1	15,460	1	25,721	1	35,794	1	46,087	1	56,381	1	66,674	1	76,968	1	87,262	1	97,556
1 1/4	5,382	1 1/4	15,675	1 1/4	25,929	1 1/4	36,008	1 1/4	46,302	1 1/4	56,595	1 1/4	66,889	1 1/4	77,183	1 1/4	87,476	1 1/4	97,770
1 1/2	5,596	1 1/2	15,889	1 1/2	26,137	1 1/2	36,223	1 1/2	46,516	1 1/2	56,810	1 1/2	67,103	1 1/2	77,397	1 1/2	87,691	1 1/2	97,984
1 3/4	5,811	1 3/4	16,104	1 3/4	26,345	1 3/4	36,437	1 3/4	46,731	1 3/4	57,024	1 3/4	67,318	1 3/4	77,611	1 3/4	87,905	1 3/4	98,199
2	6,025	2	16,318	2	26,553	2	36,651	2	46,945	2	57,239	2	67,532	2	77,826	2	88,119	2	98,413
1/4	6,239	1/4	16,533	1/4	26,761	1/4	36,866	1/4	47,160	1/4	57,453	1/4	67,747	1/4	78,040	1/4	88,334	1/4	98,628
1/2	6,454	1/2	16,747	1/2	26,969	1/2	37,080	1/2	47,374	1/2	57,668	1/2	67,961	1/2	78,255	1/2	88,548	1/2	98,842
3/4	6,668	3/4	16,961	3/4	27,177	3/4	37,295	3/4	47,588	3/4	57,882	3/4	68,176	3/4	78,469	3/4	88,763	3/4	99,056
1	6,883	1	17,176	1	27,385	1	37,509	1	47,803	1	58,096	1	68,390	1	78,684	1	88,977	1	99,271
1 1/4	7,097	1 1/4	17,390	1 1/4	27,594	1 1/4	37,724	1 1/4	48,017	1 1/4	58,311	1 1/4	68,605	1 1/4	78,898	1 1/4	89,192	1 1/4	99,485
1 1/2	7,312	1 1/2	17,605	1 1/2	27,802	1 1/2	37,938	1 1/2	48,232	1 1/2	58,525	1 1/2	68,819	1 1/2	79,113	1 1/2	89,406	1 1/2	99,700
1 3/4	7,526	1 3/4	17,819	1 3/4	28,010	1 3/4	38,153	1 3/4	48,446	1 3/4	58,740	1 3/4	69,033	1 3/4	79,327	1 3/4	89,621	1 3/4	99,914
2	7,740	2	18,034	2	28,218	2	38,367	2	48,661	2	58,954	2	69,248	2	79,541	2	89,835	2	100,129
1/4	7,955	1/4	18,248	1/4	28,426	1/4	38,582	1/4	48,875	1/4	59,169	1/4	69,462	1/4	79,756	1/4	89,950	1/4	100,343
1/2	8,169	1/2	18,463	1/2	28,634	1/2	38,796	1/2	49,090	1/2	59,383	1/2	69,677	1/2	79,970	1/2	90,264	1/2	100,558
3/4	8,384	3/4	18,677	3/4	28,842	3/4	39,010	3/4	49,304	3/4	59,598	3/4	69,891	3/4	80,185	3/4	90,478	3/4	100,772
1	8,598	1	18,891	1	29,051	1	39,225	1	49,518	1	59,812	1	70,106	1	80,399	1	90,693	1	100,987
1 1/4	8,813	1 1/4	19,106	1 1/4	29,259	1 1/4	39,439	1 1/4	49,733	1 1/4	60,027	1 1/4	70,320	1 1/4	80,614	1 1/4	90,907	1 1/4	101,201
1 1/2	9,027	1 1/2	19,320	1 1/2	29,467	1 1/2	39,654	1 1/2	49,947	1 1/2	60,241	1 1/2	70,535	1 1/2	80,828	1 1/2	91,122	1 1/2	101,415
1 3/4	9,242	1 3/4	19,535	1 3/4	29,675	1 3/4	39,868	1 3/4	50,162	1 3/4	60,455	1 3/4	70,749	1 3/4	81,043	1 3/4	91,336	1 3/4	101,630

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

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

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

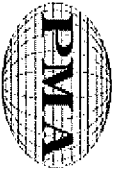
PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "IB 1313"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-02 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	101,844	0	112,138	0	122,432	0	132,725	0	143,019	0	153,315	0	163,608	0	173,902	0	184,195	0	194,488
1/4	102,059	1/4	112,352	1/4	122,646	1/4	132,940	1/4	143,233	1/4	153,527	1/4	163,821	1/4	174,114	1/4	184,408	1/4	194,702
1/2	102,273	1/2	112,567	1/2	122,861	1/2	133,154	1/2	143,448	1/2	153,742	1/2	164,035	1/2	174,329	1/2	184,622	1/2	194,916
3/4	102,488	3/4	112,781	3/4	123,075	3/4	133,368	3/4	143,662	3/4	153,956	3/4	164,249	3/4	174,543	3/4	184,837	3/4	195,131
1	102,702	1	112,996	1	123,289	1	133,583	1	143,877	1	154,171	1	164,465	1	174,759	1	185,053	1	195,347
1 1/4	102,917	1 1/4	113,210	1 1/4	123,504	1 1/4	133,797	1 1/4	144,091	1 1/4	154,385	1 1/4	164,679	1 1/4	174,973	1 1/4	185,267	1 1/4	195,561
1 1/2	103,131	1 1/2	113,425	1 1/2	123,718	1 1/2	134,012	1 1/2	144,305	1 1/2	154,599	1 1/2	164,893	1 1/2	175,187	1 1/2	185,481	1 1/2	195,775
3/4	103,345	3/4	113,639	3/4	123,933	3/4	134,226	3/4	144,520	3/4	154,814	3/4	165,108	3/4	175,402	3/4	185,696	3/4	195,990
2	103,560	2	113,854	2	124,147	2	134,441	2	144,734	2	155,028	2	165,322	2	175,616	2	185,910	2	196,204
1 1/4	103,774	1 1/4	114,068	1 1/4	124,362	1 1/4	134,655	1 1/4	144,949	1 1/4	155,243	1 1/4	165,537	1 1/4	175,831	1 1/4	186,125	1 1/4	196,419
1 1/2	103,989	1 1/2	114,282	1 1/2	124,576	1 1/2	134,870	1 1/2	145,163	1 1/2	155,457	1 1/2	165,751	1 1/2	176,045	1 1/2	186,339	1 1/2	196,633
3/4	104,203	3/4	114,497	3/4	124,790	3/4	135,084	3/4	145,378	3/4	155,672	3/4	166,045	3/4	176,339	3/4	186,633	3/4	196,927
3	104,418	3	114,711	3	125,005	3	135,299	3	145,592	3	155,885	3	166,259	3	176,553	3	186,847	3	197,142
1 1/4	104,632	1 1/4	114,926	1 1/4	125,219	1 1/4	135,513	1 1/4	145,807	1 1/4	156,099	1 1/4	166,473	1 1/4	176,767	1 1/4	187,061	1 1/4	197,355
1 1/2	104,847	1 1/2	115,140	1 1/2	125,434	1 1/2	135,727	1 1/2	146,021	1 1/2	156,314	1 1/2	166,687	1 1/2	176,981	1 1/2	187,275	1 1/2	197,569
3/4	105,061	3/4	115,355	3/4	125,648	3/4	135,942	3/4	146,235	3/4	156,528	3/4	166,901	3/4	177,195	3/4	187,489	3/4	197,784
4	105,276	4	115,569	4	125,863	4	136,156	4	146,450	4	156,743	4	167,117	4	177,411	4	187,705	4	198,098
1 1/4	105,490	1 1/4	115,784	1 1/4	126,077	1 1/4	136,371	1 1/4	146,664	1 1/4	156,957	1 1/4	167,331	1 1/4	177,625	1 1/4	187,919	1 1/4	198,313
1 1/2	105,704	1 1/2	115,998	1 1/2	126,292	1 1/2	136,585	1 1/2	146,879	1 1/2	157,172	1 1/2	167,545	1 1/2	177,839	1 1/2	188,133	1 1/2	198,527
3/4	105,919	3/4	116,212	3/4	126,506	3/4	136,800	3/4	147,093	3/4	157,386	3/4	167,838	3/4	178,132	3/4	188,426	3/4	198,741
5	106,133	5	116,427	5	126,721	5	137,014	5	147,308	5	157,602	5	168,096	5	178,390	5	188,684	5	198,978
1 1/4	106,348	1 1/4	116,641	1 1/4	126,935	1 1/4	137,229	1 1/4	147,522	1 1/4	157,816	1 1/4	168,309	1 1/4	178,603	1 1/4	188,897	1 1/4	199,191
1 1/2	106,562	1 1/2	116,856	1 1/2	127,149	1 1/2	137,443	1 1/2	147,737	1 1/2	158,031	1 1/2	168,525	1 1/2	178,819	1 1/2	189,113	1 1/2	199,405
3/4	106,777	3/4	117,070	3/4	127,364	3/4	137,657	3/4	147,951	3/4	158,245	3/4	168,739	3/4	179,033	3/4	189,327	3/4	199,619
6	106,991	6	117,285	6	127,578	6	137,872	6	148,166	6	158,460	6	168,954	6	179,248	6	189,542	6	199,833
1 1/4	107,206	1 1/4	117,499	1 1/4	127,793	1 1/4	138,086	1 1/4	148,380	1 1/4	158,674	1 1/4	169,168	1 1/4	179,462	1 1/4	189,756	1 1/4	200,047
1 1/2	107,420	1 1/2	117,714	1 1/2	128,007	1 1/2	138,301	1 1/2	148,594	1 1/2	158,888	1 1/2	169,382	1 1/2	179,676	1 1/2	189,970	1 1/2	200,261
3/4	107,634	3/4	117,928	3/4	128,222	3/4	138,515	3/4	148,809	3/4	159,103	3/4	169,596	3/4	179,890	3/4	190,184	3/4	200,475
7	107,849	7	118,143	7	128,436	7	138,730	7	149,023	7	159,317	7	169,811	7	180,105	7	190,399	7	200,689
1 1/4	108,063	1 1/4	118,357	1 1/4	128,651	1 1/4	138,944	1 1/4	149,238	1 1/4	159,532	1 1/4	170,026	1 1/4	180,320	1 1/4	190,614	1 1/4	200,903
1 1/2	108,278	1 1/2	118,571	1 1/2	128,865	1 1/2	139,159	1 1/2	149,452	1 1/2	159,746	1 1/2	170,239	1 1/2	180,533	1 1/2	190,828	1 1/2	201,117
3/4	108,492	3/4	118,786	3/4	129,079	3/4	139,373	3/4	149,667	3/4	160,060	3/4	170,452	3/4	180,746	3/4	191,042	3/4	201,331
8	108,707	8	119,000	8	129,294	8	139,588	8	149,881	8	160,274	8	170,666	8	180,960	8	191,256	8	201,545
1 1/4	108,921	1 1/4	119,215	1 1/4	129,508	1 1/4	139,802	1 1/4	150,096	1 1/4	160,488	1 1/4	170,882	1 1/4	181,176	1 1/4	191,470	1 1/4	201,759
1 1/2	109,136	1 1/2	119,429	1 1/2	129,723	1 1/2	140,016	1 1/2	150,310	1 1/2	160,702	1 1/2	171,098	1 1/2	181,392	1 1/2	191,686	1 1/2	201,973
3/4	109,350	3/4	119,644	3/4	129,937	3/4	140,231	3/4	150,524	3/4	160,916	3/4	171,312	3/4	181,606	3/4	191,899	3/4	202,187
9	109,565	9	119,858	9	130,152	9	140,445	9	150,739	9	161,129	9	171,526	9	181,820	9	192,114	9	202,401
1 1/4	109,779	1 1/4	120,073	1 1/4	130,366	1 1/4	140,660	1 1/4	151,053	1 1/4	161,446	1 1/4	171,842	1 1/4	182,136	1 1/4	192,430	1 1/4	202,615
1 1/2	109,993	1 1/2	120,287	1 1/2	130,581	1 1/2	140,874	1 1/2	151,167	1 1/2	161,660	1 1/2	172,056	1 1/2	182,350	1 1/2	192,644	1 1/2	202,829
3/4	110,208	3/4	120,501	3/4	130,795	3/4	141,089	3/4	151,381	3/4	161,954	3/4	172,350	3/4	182,644	3/4	192,938	3/4	203,043
10	110,422	10	120,716	10	131,010	10	141,303	10	151,595	10	162,188	10	172,582	10	182,876	10	193,170	10	203,257
1 1/4	110,637	1 1/4	120,930	1 1/4	131,224	1 1/4	141,518	1 1/4	151,806	1 1/4	162,402	1 1/4	172,796	1 1/4	183,090	1 1/4	193,384	1 1/4	203,471
1 1/2	110,851	1 1/2	121,145	1 1/2	131,438	1 1/2	141,732	1 1/2	152,017	1 1/2	162,616	1 1/2	173,010	1 1/2	183,304	1 1/2	193,598	1 1/2	203,685
3/4	111,066	3/4	121,359	3/4	131,653	3/4	141,946	3/4	152,228	3/4	162,830	3/4	173,224	3/4	183,518	3/4	193,812	3/4	203,899
11	111,280	11	121,574	11	131,867	11	142,161	11	152,439	11	163,114	11	173,438	11	183,732	11	194,026	11	204,113
1 1/4	111,495	1 1/4	121,788	1 1/4	132,082	1 1/4	142,375	1 1/4	152,628	1 1/4	163,328	1 1/4	173,652	1 1/4	183,956	1 1/4	194,240	1 1/4	204,327
1 1/2	111,709	1 1/2	122,003	1 1/2	132,296	1 1/2	142,590	1 1/2	152,817	1 1/2	163,541	1 1/2	173,866	1 1/2	184,180	1 1/2	194,454	1 1/2	204,541
3/4	111,923	3/4	122,217	3/4	132,511	3/4	142,804	3/4	153,006	3/4	163,755	3/4	174,080	3/4	184,394	3/4	194,668	3/4	204,755

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2019 CL
CALCULATED: 09/20/2019 CL
PRINTED: 09/20/2019 CL

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

CANCEL AND SUPERCEDES
ALL PRIOR TO 09/20/2019



BARGE "IB 1313"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-01 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	74	0	9,491	0	19,822	0	30,130	0	40,449	0	50,781	0	61,113	0	71,445	0	81,776	0	92,108
1/4	138	1/4	9,706	1/4	20,037	1/4	30,344	1/4	40,664	1/4	50,996	1/4	61,328	1/4	71,660	1/4	81,992	1/4	92,323
1/2	203	1/2	9,921	1/2	20,258	1/2	30,558	1/2	40,880	1/2	51,211	1/2	61,543	1/2	71,875	1/2	82,207	1/2	92,539
3/4	268	3/4	10,137	3/4	20,468	3/4	30,772	3/4	41,095	3/4	51,427	3/4	61,758	3/4	72,090	3/4	82,422	3/4	92,754
1	332	1	10,352	1	20,683	1	30,987	1	41,310	1	51,642	1	61,974	1	72,306	1	82,637	1	92,969
1 1/4	480	1 1/4	10,567	1 1/4	20,898	1 1/4	31,201	1 1/4	41,525	1 1/4	51,857	1 1/4	62,189	1 1/4	72,521	1 1/4	82,853	1 1/4	93,184
1 1/2	627	1 1/2	10,782	1 1/2	21,114	1 1/2	31,415	1 1/2	41,741	1 1/2	52,072	1 1/2	62,404	1 1/2	72,736	1 1/2	83,068	1 1/2	93,400
3/4	775	3/4	10,998	3/4	21,329	3/4	31,630	3/4	41,956	3/4	52,288	3/4	62,619	3/4	72,951	3/4	83,283	3/4	93,615
2	923	2	11,213	2	21,544	2	31,844	2	42,171	2	52,503	2	62,835	2	73,167	2	83,498	2	93,830
1 1/4	1,129	1 1/4	11,428	1 1/4	21,759	1 1/4	32,059	1 1/4	42,386	1 1/4	52,718	1 1/4	63,050	1 1/4	73,382	1 1/4	83,714	1 1/4	94,045
1 1/2	1,335	1 1/2	11,643	1 1/2	21,975	1 1/2	32,273	1 1/2	42,602	1 1/2	52,933	1 1/2	63,265	1 1/2	73,597	1 1/2	83,929	1 1/2	94,261
3/4	1,541	3/4	11,858	3/4	22,190	3/4	32,488	3/4	42,817	3/4	53,149	3/4	63,480	3/4	73,812	3/4	84,144	3/4	94,476
3	1,746	3	12,074	3	22,405	3	32,702	3	43,032	3	53,364	3	63,696	3	74,028	3	84,359	3	94,691
1 1/4	1,951	1 1/4	12,289	1 1/4	22,620	1 1/4	32,917	1 1/4	43,247	1 1/4	53,579	1 1/4	63,911	1 1/4	74,243	1 1/4	84,575	1 1/4	94,906
1 1/2	2,175	1 1/2	12,504	1 1/2	22,836	1 1/2	33,132	1 1/2	43,463	1 1/2	53,794	1 1/2	64,126	1 1/2	74,458	1 1/2	84,790	1 1/2	95,122
3/4	2,390	3/4	12,719	3/4	23,051	3/4	33,346	3/4	43,678	3/4	54,010	3/4	64,341	3/4	74,673	3/4	85,005	3/4	95,337
4	2,604	4	12,935	4	23,266	4	33,561	4	43,893	4	54,225	4	64,557	4	74,889	4	85,220	4	95,552
1 1/4	2,819	1 1/4	13,150	1 1/4	23,481	1 1/4	33,776	1 1/4	44,108	1 1/4	54,440	1 1/4	64,772	1 1/4	75,104	1 1/4	85,456	1 1/4	95,767
1 1/2	3,034	1 1/2	13,365	1 1/2	23,697	1 1/2	33,992	1 1/2	44,324	1 1/2	54,655	1 1/2	64,987	1 1/2	75,319	1 1/2	85,681	1 1/2	95,983
3/4	3,249	3/4	13,580	3/4	23,912	3/4	34,207	3/4	44,539	3/4	54,871	3/4	65,202	3/4	75,534	3/4	85,866	3/4	96,198
5	3,464	5	14,011	5	24,127	5	34,422	5	44,754	5	55,086	5	65,418	5	75,749	5	86,081	5	96,413
1 1/4	3,679	1 1/4	14,226	1 1/4	24,342	1 1/4	34,637	1 1/4	44,969	1 1/4	55,301	1 1/4	65,653	1 1/4	75,965	1 1/4	86,297	1 1/4	96,628
1 1/2	3,895	1 1/2	14,441	1 1/2	24,557	1 1/2	34,853	1 1/2	45,185	1 1/2	55,516	1 1/2	65,848	1 1/2	76,180	1 1/2	86,512	1 1/2	96,844
3/4	4,110	3/4	14,657	3/4	24,772	3/4	35,068	3/4	45,400	3/4	55,732	3/4	66,063	3/4	76,395	3/4	86,727	3/4	97,059
6	4,325	6	14,872	6	24,987	6	35,283	6	45,635	6	55,947	6	66,219	6	76,610	6	86,942	6	97,274
1 1/4	4,540	1 1/4	15,087	1 1/4	25,201	1 1/4	35,498	1 1/4	45,845	1 1/4	56,162	1 1/4	66,454	1 1/4	76,826	1 1/4	87,158	1 1/4	97,489
1 1/2	4,756	1 1/2	15,302	1 1/2	25,416	1 1/2	35,714	1 1/2	46,045	1 1/2	56,377	1 1/2	66,709	1 1/2	77,041	1 1/2	87,373	1 1/2	97,705
3/4	4,971	3/4	15,518	3/4	25,630	3/4	35,929	3/4	46,261	3/4	56,593	3/4	66,924	3/4	77,256	3/4	87,588	3/4	97,920
7	5,186	7	15,733	7	25,844	7	36,144	7	46,476	7	56,808	7	67,140	7	77,471	7	87,803	7	98,135
1 1/4	5,401	1 1/4	15,948	1 1/4	26,058	1 1/4	36,359	1 1/4	46,691	1 1/4	57,023	1 1/4	67,355	1 1/4	77,687	1 1/4	88,019	1 1/4	98,350
1 1/2	5,617	1 1/2	16,163	1 1/2	26,273	1 1/2	36,575	1 1/2	46,906	1 1/2	57,238	1 1/2	67,570	1 1/2	77,902	1 1/2	88,234	1 1/2	98,566
3/4	5,832	3/4	16,378	3/4	26,487	3/4	36,790	3/4	47,122	3/4	57,454	3/4	67,785	3/4	78,117	3/4	88,449	3/4	98,781
8	6,047	8	16,594	8	26,701	8	37,005	8	47,337	8	57,669	8	68,001	8	78,332	8	88,664	8	98,996
1 1/4	6,262	1 1/4	16,809	1 1/4	26,915	1 1/4	37,220	1 1/4	47,552	1 1/4	57,884	1 1/4	68,216	1 1/4	78,548	1 1/4	88,880	1 1/4	99,211
1 1/2	6,478	1 1/2	17,024	1 1/2	27,130	1 1/2	37,436	1 1/2	47,767	1 1/2	58,099	1 1/2	68,431	1 1/2	78,763	1 1/2	89,095	1 1/2	99,427
3/4	6,693	3/4	17,239	3/4	27,344	3/4	37,651	3/4	47,983	3/4	58,315	3/4	68,646	3/4	79,078	3/4	89,310	3/4	99,642
9	6,908	9	17,455	9	27,558	9	37,866	9	48,198	9	58,530	9	68,862	9	79,193	9	89,525	9	99,857
1 1/4	7,123	1 1/4	17,670	1 1/4	27,773	1 1/4	38,081	1 1/4	48,413	1 1/4	58,745	1 1/4	69,077	1 1/4	79,409	1 1/4	89,741	1 1/4	100,072
1 1/2	7,338	1 1/2	17,885	1 1/2	27,987	1 1/2	38,297	1 1/2	48,628	1 1/2	58,960	1 1/2	69,292	1 1/2	79,624	1 1/2	89,956	1 1/2	100,288
3/4	7,554	3/4	18,100	3/4	28,201	3/4	38,512	3/4	48,844	3/4	59,176	3/4	69,507	3/4	79,839	3/4	89,771	3/4	100,503
10	7,769	10	18,315	10	28,415	10	38,727	10	49,059	10	59,391	10	69,723	10	80,054	10	90,386	10	100,718
1 1/4	7,984	1 1/4	18,531	1 1/4	28,630	1 1/4	38,942	1 1/4	49,274	1 1/4	59,606	1 1/4	69,938	1 1/4	80,270	1 1/4	90,601	1 1/4	100,933
1 1/2	8,199	1 1/2	18,746	1 1/2	28,844	1 1/2	39,158	1 1/2	49,489	1 1/2	59,821	1 1/2	70,153	1 1/2	80,485	1 1/2	90,817	1 1/2	101,149
3/4	8,415	3/4	18,961	3/4	29,058	3/4	39,373	3/4	49,705	3/4	60,037	3/4	70,368	3/4	80,700	3/4	91,032	3/4	101,364
11	8,630	11	19,177	11	29,273	11	39,588	11	49,920	11	60,252	11	70,584	11	80,915	11	91,247	11	101,579
1 1/4	8,845	1 1/4	19,392	1 1/4	29,487	1 1/4	39,803	1 1/4	50,135	1 1/4	60,467	1 1/4	70,799	1 1/4	81,131	1 1/4	91,462	1 1/4	101,794
1 1/2	9,060	1 1/2	19,607	1 1/2	29,701	1 1/2	40,019	1 1/2	50,350	1 1/2	60,682	1 1/2	71,014	1 1/2	81,346	1 1/2	91,678	1 1/2	102,010
3/4	9,276	3/4	19,815	3/4	29,915	3/4	40,234	3/4	50,566	3/4	60,897	3/4	71,229	3/4	81,561	3/4	91,893	3/4	102,225

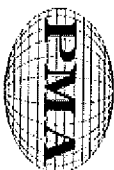
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pasadena, Texas 77588

http://www.pma.com



CAPACITIES GIVEN IN WHOLE GALLONS

BARGE "IB 1313"

3 CENTER
INNAGE TABLE

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	102,440	0	112,772	0	123,104	0	133,436	0	143,767	0	153,981	0	164,195	0	174,409	0	184,623	0	194,837
1/4	102,655	1/4	112,987	1/4	123,319	1/4	133,651	1/4	143,983	1/4	154,315	1/4	164,647	1/4	174,979	1/4	185,311	1/4	195,643
1/2	102,871	1/2	113,202	1/2	123,534	1/2	133,866	1/2	144,198	1/2	154,530	1/2	164,862	1/2	175,194	1/2	185,526	1/2	195,858
3/4	103,086	3/4	113,418	3/4	123,749	3/4	134,081	3/4	144,413	3/4	154,745	3/4	165,077	3/4	175,409	3/4	185,741	3/4	196,073
1	103,301	1	113,633	1	123,965	1	134,297	1	144,628	1	154,960	1	165,292	1	175,624	1	185,956	1	196,288
1/4	103,516	1/4	113,848	1/4	124,180	1/4	134,512	1/4	144,844	1/4	155,176	1/4	165,508	1/4	175,840	1/4	186,172	1/4	196,504
1/2	103,732	1/2	114,063	1/2	124,395	1/2	134,727	1/2	145,059	1/2	155,391	1/2	165,723	1/2	176,055	1/2	186,387	1/2	196,719
3/4	103,947	3/4	114,279	3/4	124,610	3/4	134,942	3/4	145,274	3/4	155,606	3/4	165,938	3/4	176,270	3/4	186,602	3/4	196,934
1	104,162	2	114,494	2	124,826	2	135,158	2	145,489	2	155,821	2	166,153	2	176,485	2	186,817	2	197,149
1/4	104,377	1/4	114,709	1/4	125,041	1/4	135,373	1/4	145,705	1/4	156,037	1/4	166,369	1/4	176,701	1/4	187,033	1/4	197,365
1/2	104,593	1/2	114,924	1/2	125,256	1/2	135,588	1/2	145,920	1/2	156,252	1/2	166,584	1/2	176,916	1/2	187,248	1/2	197,580
3/4	104,808	3/4	115,140	3/4	125,471	3/4	135,803	3/4	146,135	3/4	156,467	3/4	166,799	3/4	177,131	3/4	187,463	3/4	197,795
1	105,023	3	115,355	3	125,687	3	136,018	3	146,350	3	156,682	3	167,014	3	177,346	3	187,678	3	198,010
1/4	105,238	1/4	115,570	1/4	125,902	1/4	136,234	1/4	146,566	1/4	156,898	1/4	167,230	1/4	177,562	1/4	187,894	1/4	198,226
1/2	105,453	1/2	115,785	1/2	126,117	1/2	136,449	1/2	146,781	1/2	157,113	1/2	167,445	1/2	177,777	1/2	188,109	1/2	198,441
3/4	105,669	3/4	116,001	3/4	126,332	3/4	136,664	3/4	146,996	3/4	157,326	3/4	167,658	3/4	177,990	3/4	188,322	3/4	198,654
1	105,884	4	116,216	4	126,548	4	136,879	4	147,211	4	157,543	4	167,875	4	178,207	4	188,539	4	198,871
1/4	106,099	1/4	116,431	1/4	126,763	1/4	137,095	1/4	147,427	1/4	157,759	1/4	168,091	1/4	178,423	1/4	188,755	1/4	199,087
1/2	106,314	1/2	116,646	1/2	126,978	1/2	137,310	1/2	147,642	1/2	157,974	1/2	168,306	1/2	178,638	1/2	188,970	1/2	199,302
3/4	106,530	3/4	116,862	3/4	127,193	3/4	137,525	3/4	147,857	3/4	158,189	3/4	168,521	3/4	178,853	3/4	189,185	3/4	199,517
1	106,745	5	117,077	5	127,409	5	137,740	5	148,072	5	158,404	5	168,736	5	179,068	5	189,400	5	199,732
1/4	106,960	1/4	117,292	1/4	127,624	1/4	137,956	1/4	148,288	1/4	158,620	1/4	168,952	1/4	179,284	1/4	189,616	1/4	199,948
1/2	107,175	1/2	117,507	1/2	127,839	1/2	138,171	1/2	148,503	1/2	158,835	1/2	169,167	1/2	179,499	1/2	189,831	1/2	200,163
3/4	107,391	3/4	117,723	3/4	128,064	3/4	138,386	3/4	148,718	3/4	159,050	3/4	169,382	3/4	179,714	3/4	190,046	3/4	200,378
1	107,606	6	117,938	6	128,270	6	138,601	6	149,149	6	159,481	6	169,813	6	180,145	6	190,477	6	200,809
1/4	107,821	1/4	118,153	1/4	128,485	1/4	138,817	1/4	149,149	1/4	159,481	1/4	169,813	1/4	180,145	1/4	190,477	1/4	200,809
1/2	108,036	1/2	118,368	1/2	128,700	1/2	139,032	1/2	149,364	1/2	159,696	1/2	170,028	1/2	180,360	1/2	190,692	1/2	201,024
3/4	108,252	3/4	118,584	3/4	128,915	3/4	139,247	3/4	149,579	3/4	159,911	3/4	170,240	3/4	180,572	3/4	190,904	3/4	201,239
1	108,467	7	118,799	7	129,131	7	139,462	7	149,794	7	160,126	7	170,458	7	180,790	7	191,122	7	201,454
1/4	108,682	1/4	119,014	1/4	129,346	1/4	139,678	1/4	150,010	1/4	160,342	1/4	170,674	1/4	181,006	1/4	191,338	1/4	201,670
1/2	108,897	1/2	119,229	1/2	129,561	1/2	139,893	1/2	150,225	1/2	160,557	1/2	170,889	1/2	181,221	1/2	191,553	1/2	201,885
3/4	109,113	3/4	119,445	3/4	129,776	3/4	140,108	3/4	150,440	3/4	160,772	3/4	171,104	3/4	181,436	3/4	191,768	3/4	202,107
1	109,328	8	119,660	8	129,992	8	140,323	8	150,655	8	160,987	8	171,319	8	181,651	8	191,983	8	202,319
1/4	109,543	1/4	119,875	1/4	130,207	1/4	140,539	1/4	150,871	1/4	161,203	1/4	171,535	1/4	181,867	1/4	192,199	1/4	202,531
1/2	109,758	1/2	120,090	1/2	130,422	1/2	140,754	1/2	151,086	1/2	161,418	1/2	171,750	1/2	182,082	1/2	192,414	1/2	202,746
3/4	109,974	3/4	120,305	3/4	130,637	3/4	140,969	3/4	151,301	3/4	161,633	3/4	171,965	3/4	182,297	3/4	192,629	3/4	203,018
1	110,189	9	120,521	9	130,853	9	141,184	9	151,516	9	161,848	9	172,180	9	182,512	9	192,844	9	203,174
1/4	110,404	1/4	120,736	1/4	131,068	1/4	141,400	1/4	151,731	1/4	162,063	1/4	172,395	1/4	182,727	1/4	193,059	1/4	203,391
1/2	110,619	1/2	120,951	1/2	131,283	1/2	141,615	1/2	151,946	1/2	162,278	1/2	172,610	1/2	182,942	1/2	193,274	1/2	203,603
3/4	110,835	3/4	121,166	3/4	131,498	3/4	141,830	3/4	152,160	3/4	162,492	3/4	172,824	3/4	183,156	3/4	193,488	3/4	203,815
1	111,050	10	121,382	10	131,714	10	142,045	10	152,375	10	162,707	10	173,039	10	183,371	10	193,703	10	204,037
1/4	111,265	1/4	121,597	1/4	131,929	1/4	142,261	1/4	152,593	1/4	162,925	1/4	173,257	1/4	183,589	1/4	193,921	1/4	204,252
1/2	111,480	1/2	121,812	1/2	132,144	1/2	142,476	1/2	152,808	1/2	163,140	1/2	173,472	1/2	183,804	1/2	194,134	1/2	204,467
3/4	111,696	3/4	122,027	3/4	132,359	3/4	142,691	3/4	153,023	3/4	163,355	3/4	173,687	3/4	184,019	3/4	194,351	3/4	204,682
1	111,911	11	122,243	11	132,575	11	142,906	11	153,238	11	163,568	11	173,900	11	184,232	11	194,564	11	204,897
1/4	112,126	1/4	122,458	1/4	132,790	1/4	143,122	1/4	153,454	1/4	163,786	1/4	174,118	1/4	184,450	1/4	194,782	1/4	205,112
1/2	112,341	1/2	122,673	1/2	133,005	1/2	143,337	1/2	153,669	1/2	164,000	1/2	174,332	1/2	184,664	1/2	194,996	1/2	205,327
3/4	112,557	3/4	122,888	3/4	133,220	3/4	143,552	3/4	153,792	3/4	164,214	3/4	174,546	3/4	184,878	3/4	195,208	3/4	205,542

GAUGE HEIGHT 16'-01 1/4"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/19/2019 CL
CALCULATED: 09/20/2019 CL
PRINTED: 09/20/2019 CL

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

CANCELS AND SUPERCEDDES
ALL PRIOR TO 09/20/19