



BARGE "IB 1310"

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	- 01-1/4	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	- 01-1/8	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 ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 163'-03"

September 10, 2019

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

<http://www.pmacorp.net>



BARGE "IB 1310"

1 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	170,500	0	160,995	0	150,705	0	140,514	0	130,324	0	119,460	0	107,551	0	95,637	0	83,724	0
1/4	1/4	170,432	1/4	160,883	1/4	150,492	1/4	140,302	1/4	130,112	1/4	119,212	1/4	107,303	1/4	95,389	1/4	83,475	1/4
1/2	1/2	170,365	1/2	160,471	1/2	150,280	1/2	140,090	1/2	129,889	1/2	118,964	1/2	107,055	1/2	95,141	1/2	83,227	1/2
3/4	3/4	170,220	3/4	160,258	3/4	150,068	3/4	139,877	3/4	129,687	3/4	118,716	3/4	106,807	3/4	94,893	3/4	82,979	3/4
1	1	170,075	1	160,046	1	149,866	1	139,665	1	129,475	1	118,468	1	106,568	1	94,645	1	82,731	1
1/4	1/4	169,930	1/4	159,834	1/4	149,643	1/4	139,453	1/4	129,262	1/4	118,220	1/4	106,310	1/4	94,396	1/4	82,483	1/4
1/2	1/2	169,795	1/2	159,621	1/2	149,431	1/2	139,241	1/2	129,050	1/2	117,973	1/2	106,062	1/2	94,148	1/2	82,234	1/2
3/4	3/4	169,678	3/4	159,409	3/4	149,219	3/4	139,028	3/4	128,838	3/4	117,725	3/4	105,814	3/4	93,900	3/4	81,987	3/4
2	2	169,374	2	159,197	2	149,006	2	138,816	2	128,625	2	117,477	2	105,566	2	93,652	2	81,740	2
1/4	1/4	169,169	1/4	158,986	1/4	148,794	1/4	138,604	1/4	128,413	1/4	117,229	1/4	105,317	1/4	93,404	1/4	81,492	1/4
1/2	1/2	168,963	1/2	158,772	1/2	148,582	1/2	138,394	1/2	128,201	1/2	116,981	1/2	105,069	1/2	93,155	1/2	81,245	1/2
3/4	3/4	168,750	3/4	158,560	3/4	148,369	3/4	138,179	3/4	127,989	3/4	116,733	3/4	104,821	3/4	92,907	3/4	80,998	3/4
3	3	168,537	3	158,348	3	148,157	3	137,967	3	127,776	3	116,485	3	104,573	3	92,659	3	80,750	3
1/4	1/4	168,324	1/4	158,135	1/4	147,945	1/4	137,754	1/4	127,564	1/4	116,238	1/4	104,325	1/4	92,411	1/4	80,503	1/4
1/2	1/2	168,111	1/2	157,923	1/2	147,733	1/2	137,542	1/2	127,352	1/2	116,990	1/2	104,076	1/2	92,163	1/2	80,256	1/2
3/4	3/4	167,899	3/4	157,711	3/4	147,520	3/4	137,330	3/4	127,139	3/4	115,742	3/4	103,828	3/4	91,914	3/4	80,009	3/4
4	4	167,686	4	157,498	4	147,308	4	137,117	4	126,927	4	115,493	4	103,580	4	91,666	4	79,762	4
1/4	1/4	167,476	1/4	157,286	1/4	147,096	1/4	136,905	1/4	126,715	1/4	115,245	1/4	103,332	1/4	91,418	1/4	79,515	1/4
1/2	1/2	167,264	1/2	157,074	1/2	146,883	1/2	136,693	1/2	126,502	1/2	114,997	1/2	103,083	1/2	91,170	1/2	79,268	1/2
3/4	3/4	167,052	3/4	156,862	3/4	146,671	3/4	136,481	3/4	126,290	3/4	114,749	3/4	102,835	3/4	90,922	3/4	79,020	3/4
5	5	166,840	5	156,649	5	146,459	5	136,268	5	126,078	5	114,501	5	102,587	5	90,673	5	78,773	5
1/4	1/4	166,627	1/4	156,437	1/4	146,246	1/4	136,056	1/4	125,866	1/4	114,253	1/4	102,339	1/4	90,425	1/4	78,526	1/4
1/2	1/2	166,415	1/2	156,225	1/2	146,034	1/2	135,844	1/2	125,653	1/2	114,004	1/2	102,091	1/2	90,177	1/2	78,279	1/2
3/4	3/4	166,203	3/4	156,012	3/4	145,822	3/4	135,631	3/4	125,441	3/4	113,756	3/4	101,842	3/4	89,929	3/4	78,032	3/4
6	6	166,990	6	155,800	6	145,610	6	135,419	6	125,229	6	113,508	6	101,594	6	89,680	6	77,785	6
1/4	1/4	166,778	1/4	155,588	1/4	145,397	1/4	135,207	1/4	125,016	1/4	113,260	1/4	101,346	1/4	89,432	1/4	77,537	1/4
1/2	1/2	166,566	1/2	155,375	1/2	145,185	1/2	134,994	1/2	124,804	1/2	113,012	1/2	101,098	1/2	89,184	1/2	77,290	1/2
3/4	3/4	166,354	3/4	155,163	3/4	144,973	3/4	134,782	3/4	124,579	3/4	112,763	3/4	100,850	3/4	88,936	3/4	77,043	3/4
7	7	166,141	7	154,951	7	144,760	7	134,570	7	124,353	7	112,515	7	100,601	7	88,688	7	76,796	7
1/4	1/4	165,929	1/4	154,739	1/4	144,548	1/4	134,358	1/4	124,128	1/4	112,267	1/4	100,353	1/4	88,439	1/4	76,549	1/4
1/2	1/2	165,717	1/2	154,526	1/2	144,336	1/2	134,145	1/2	123,903	1/2	112,019	1/2	100,105	1/2	88,191	1/2	76,302	1/2
3/4	3/4	165,504	3/4	154,314	3/4	144,123	3/4	133,933	3/4	123,689	3/4	111,771	3/4	99,857	3/4	87,943	3/4	76,055	3/4
8	8	165,292	8	154,102	8	143,911	8	133,721	8	123,476	8	111,522	8	99,609	8	87,695	8	75,807	8
1/4	1/4	165,080	1/4	153,889	1/4	143,699	1/4	133,508	1/4	123,273	1/4	111,274	1/4	99,360	1/4	87,447	1/4	75,560	1/4
1/2	1/2	164,867	1/2	153,677	1/2	143,487	1/2	133,296	1/2	123,030	1/2	111,026	1/2	99,112	1/2	87,198	1/2	75,313	1/2
3/4	3/4	164,655	3/4	153,465	3/4	143,274	3/4	133,084	3/4	122,823	3/4	110,778	3/4	98,864	3/4	86,950	3/4	75,066	3/4
9	9	164,443	9	153,252	9	143,062	9	132,871	9	122,634	9	110,530	9	98,616	9	86,702	9	74,819	9
1/4	1/4	164,231	1/4	153,040	1/4	142,850	1/4	132,659	1/4	122,426	1/4	110,281	1/4	98,368	1/4	86,454	1/4	74,572	1/4
1/2	1/2	164,018	1/2	152,828	1/2	142,637	1/2	132,447	1/2	122,186	1/2	110,033	1/2	98,119	1/2	86,206	1/2	74,325	1/2
3/4	3/4	163,806	3/4	152,615	3/4	142,425	3/4	132,235	3/4	121,990	3/4	109,785	3/4	97,871	3/4	85,957	3/4	74,077	3/4
10	10	163,594	10	152,403	10	142,213	10	132,022	10	121,742	10	109,537	10	97,623	10	85,709	10	73,830	10
1/4	1/4	163,381	1/4	152,191	1/4	142,000	1/4	131,810	1/4	121,495	1/4	109,289	1/4	97,375	1/4	85,461	1/4	73,583	1/4
1/2	1/2	163,169	1/2	151,979	1/2	141,788	1/2	131,598	1/2	121,248	1/2	109,040	1/2	97,127	1/2	85,213	1/2	73,336	1/2
3/4	3/4	162,957	3/4	151,766	3/4	141,576	3/4	131,385	3/4	120,999	3/4	108,792	3/4	96,878	3/4	84,965	3/4	73,089	3/4
11	11	162,744	11	151,554	11	141,364	11	131,173	11	120,751	11	108,544	11	96,630	11	84,716	11	72,842	11
1/4	1/4	162,532	1/4	151,342	1/4	141,151	1/4	130,961	1/4	120,503	1/4	108,296	1/4	96,382	1/4	84,468	1/4	72,595	1/4
1/2	1/2	162,320	1/2	151,129	1/2	140,939	1/2	130,748	1/2	119,965	1/2	108,048	1/2	96,134	1/2	84,220	1/2	72,347	1/2
3/4	3/4	162,108	3/4	150,917	3/4	140,727	3/4	130,536	3/4	119,707	3/4	107,799	3/4	95,886	3/4	83,972	3/4	72,100	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "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.pmatcorp.net



BARGE "IB 1310"

1 CENTER ULLAGE TABLE

GAUGE HEIGHT 16'-01 1/2"

CAPACITIES GIVEN IN HALF GALLONS

	10 FT.	11 FT.	12 FT.	13 FT.	14 FT.	15 FT.	16 FT.	17 FT.	18 FT.	19 FT.
0	71,852	0	48,034	0	24,535	0	871	0	0	0
1/4	71,504	1/4	47,786	1/4	24,287	1/4	700	1/4	1/4	1/4
1/2	71,356	1/2	47,538	1/2	24,038	1/2	529	1/2	1/2	1/2
3/4	71,108	3/4	47,290	3/4	23,790	3/4	455	3/4	3/4	3/4
1	70,860	1	47,042	1	23,542	1	380	1	1	1
1 1/4	70,612	1 1/4	46,794	1 1/4	23,294	1 1/4	305	1 1/4	1 1/4	1 1/4
1 1/2	70,363	1 1/2	46,545	1 1/2	23,045	1 1/2	230	1 1/2	1 1/2	1 1/2
3/4	70,115	3/4	46,297	3/4	22,797	3/4	155	3/4	3/4	3/4
2	69,867	2	46,049	2	22,549	2	80	2	2	2
1 3/4	69,619	1 3/4	45,801	1 3/4	22,301	1 3/4	5	1 3/4	1 3/4	1 3/4
1 1/2	69,371	1 1/2	45,553	1 1/2	22,052	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	69,123	3/4	45,305	3/4	21,804	3/4	0	3/4	3/4	3/4
3	68,875	3	45,057	3	21,556	3	0	3	3	3
1 1/4	68,627	1 1/4	44,809	1 1/4	21,308	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	68,379	1 1/2	44,561	1 1/2	21,059	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	68,131	3/4	44,312	3/4	20,811	3/4	0	3/4	3/4	3/4
4	67,882	4	44,064	4	20,563	4	0	4	4	4
1 1/4	67,634	1 1/4	43,816	1 1/4	20,315	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	67,386	1 1/2	43,568	1 1/2	20,066	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	67,138	3/4	43,320	3/4	19,818	3/4	0	3/4	3/4	3/4
5	66,890	5	43,072	5	19,570	5	0	5	5	5
1 1/4	66,642	1 1/4	42,824	1 1/4	19,321	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	66,394	1 1/2	42,576	1 1/2	19,073	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	66,146	3/4	42,328	3/4	18,825	3/4	0	3/4	3/4	3/4
6	65,898	6	42,080	6	18,576	6	0	6	6	6
1 1/4	65,649	1 1/4	41,831	1 1/4	18,327	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	65,401	1 1/2	41,583	1 1/2	18,079	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	65,153	3/4	41,335	3/4	17,830	3/4	0	3/4	3/4	3/4
7	64,905	7	41,087	7	17,581	7	0	7	7	7
1 1/4	64,657	1 1/4	40,839	1 1/4	17,332	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	64,409	1 1/2	40,591	1 1/2	17,084	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	64,161	3/4	40,343	3/4	16,835	3/4	0	3/4	3/4	3/4
8	63,913	8	40,095	8	16,586	8	0	8	8	8
1 1/4	63,665	1 1/4	39,847	1 1/4	16,337	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	63,417	1 1/2	39,598	1 1/2	16,089	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	63,168	3/4	39,350	3/4	15,840	3/4	0	3/4	3/4	3/4
9	62,920	9	39,102	9	15,591	9	0	9	9	9
1 1/4	62,672	1 1/4	38,854	1 1/4	15,343	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	62,424	1 1/2	38,606	1 1/2	15,094	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	62,176	3/4	38,358	3/4	14,845	3/4	0	3/4	3/4	3/4
10	61,928	10	38,110	10	14,597	10	0	10	10	10
1 1/4	61,680	1 1/4	37,861	1 1/4	14,348	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	61,432	1 1/2	37,613	1 1/2	14,099	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	61,184	3/4	37,365	3/4	13,851	3/4	0	3/4	3/4	3/4
11	60,935	11	37,116	11	13,602	11	0	11	11	11
1 1/4	60,687	1 1/4	36,868	1 1/4	13,353	1 1/4	0	1 1/4	1 1/4	1 1/4
1 1/2	60,439	1 1/2	36,620	1 1/2	13,104	1 1/2	0	1 1/2	1 1/2	1 1/2
3/4	60,191	3/4	36,441	3/4	12,856	3/4	0	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2019 CL
 CALCULATED: 08/30/2019 CL
 PRINTED: 09/10/2019 SW
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 08/2019

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "IB 1310"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0	0	153,960	0	144,765	0	134,469	0	124,173	0	113,877	0	103,582	0	93,286	0	82,990	0	72,694	0
1/4	1/4	153,902	1/4	144,550	1/4	134,255	1/4	123,959	1/4	113,663	1/4	103,367	1/4	93,071	1/4	82,776	1/4	72,480	1/4
1/2	1/2	153,844	1/2	144,336	1/2	134,040	1/2	123,744	1/2	113,448	1/2	103,153	1/2	92,857	1/2	82,561	1/2	72,265	1/2
3/4	3/4	153,786	3/4	144,121	3/4	133,826	3/4	123,530	3/4	113,234	3/4	102,938	3/4	92,647	3/4	82,347	3/4	72,051	3/4
1	1	153,728	1	143,907	1	133,611	1	123,315	1	113,020	1	102,724	1	92,428	1	82,132	1	71,836	1
1/4	1/4	153,603	1/4	143,692	1/4	133,397	1/4	123,101	1/4	112,805	1/4	102,509	1/4	92,213	1/4	81,918	1/4	71,622	1/4
1/2	1/2	153,478	1/2	143,478	1/2	133,182	1/2	122,886	1/2	112,591	1/2	102,295	1/2	91,999	1/2	81,703	1/2	71,407	1/2
3/4	3/4	153,352	3/4	143,263	3/4	132,968	3/4	122,672	3/4	112,376	3/4	102,080	3/4	91,784	3/4	81,489	3/4	71,193	3/4
2	2	153,227	2	143,049	2	132,753	2	122,457	2	112,162	2	101,866	2	91,570	2	81,274	2	70,978	2
1/4	1/4	153,038	1/4	142,834	1/4	132,539	1/4	122,243	1/4	111,947	1/4	101,651	1/4	91,355	1/4	81,060	1/4	70,784	1/4
1/2	1/2	152,849	1/2	142,620	1/2	132,324	1/2	122,028	1/2	111,733	1/2	101,437	1/2	91,141	1/2	80,845	1/2	70,549	1/2
3/4	3/4	152,660	3/4	142,405	3/4	132,110	3/4	121,814	3/4	111,518	3/4	101,222	3/4	90,926	3/4	80,631	3/4	70,335	3/4
3	3	152,471	3	142,191	3	131,895	3	121,599	3	111,304	3	101,008	3	90,712	3	80,416	3	70,120	3
1/4	1/4	152,260	1/4	141,976	1/4	131,681	1/4	121,385	1/4	111,089	1/4	100,793	1/4	90,487	1/4	80,202	1/4	69,906	1/4
1/2	1/2	152,049	1/2	141,762	1/2	131,466	1/2	121,170	1/2	110,875	1/2	100,579	1/2	90,283	1/2	79,987	1/2	69,691	1/2
3/4	3/4	151,838	3/4	141,547	3/4	131,252	3/4	120,956	3/4	110,660	3/4	100,364	3/4	90,068	3/4	79,773	3/4	69,477	3/4
4	4	151,627	4	141,333	4	131,037	4	120,741	4	110,446	4	100,150	4	89,854	4	79,558	4	69,262	4
1/4	1/4	151,413	1/4	141,118	1/4	130,823	1/4	120,527	1/4	110,231	1/4	99,935	1/4	89,639	1/4	79,344	1/4	69,048	1/4
1/2	1/2	151,199	1/2	140,904	1/2	130,608	1/2	120,312	1/2	110,017	1/2	99,721	1/2	89,425	1/2	79,129	1/2	68,833	1/2
3/4	3/4	150,985	3/4	140,689	3/4	130,394	3/4	120,098	3/4	109,802	3/4	99,506	3/4	89,210	3/4	78,915	3/4	68,619	3/4
5	5	150,770	5	140,475	5	130,179	5	119,883	5	109,588	5	99,290	5	88,996	5	78,700	5	68,404	5
1/4	1/4	150,556	1/4	140,260	1/4	129,965	1/4	119,669	1/4	109,373	1/4	99,077	1/4	88,781	1/4	78,486	1/4	68,190	1/4
1/2	1/2	150,342	1/2	140,046	1/2	129,750	1/2	119,454	1/2	109,159	1/2	98,863	1/2	88,567	1/2	78,271	1/2	67,975	1/2
3/4	3/4	150,127	3/4	139,831	3/4	129,536	3/4	119,240	3/4	108,944	3/4	98,648	3/4	88,353	3/4	78,057	3/4	67,761	3/4
6	6	149,913	6	139,617	6	129,321	6	119,025	6	108,730	6	98,434	6	88,138	6	77,842	6	67,546	6
1/4	1/4	149,698	1/4	139,402	1/4	129,107	1/4	118,811	1/4	108,515	1/4	98,219	1/4	87,924	1/4	77,628	1/4	67,332	1/4
1/2	1/2	149,484	1/2	139,188	1/2	128,892	1/2	118,596	1/2	108,301	1/2	98,005	1/2	87,709	1/2	77,413	1/2	67,117	1/2
3/4	3/4	149,269	3/4	138,973	3/4	128,678	3/4	118,382	3/4	108,086	3/4	97,790	3/4	87,496	3/4	77,199	3/4	66,903	3/4
7	7	149,055	7	138,759	7	128,463	7	118,167	7	107,872	7	97,576	7	87,280	7	76,984	7	66,688	7
1/4	1/4	148,840	1/4	138,544	1/4	128,249	1/4	117,953	1/4	107,657	1/4	97,361	1/4	87,066	1/4	76,770	1/4	66,474	1/4
1/2	1/2	148,626	1/2	138,330	1/2	128,034	1/2	117,738	1/2	107,443	1/2	97,147	1/2	86,851	1/2	76,555	1/2	66,259	1/2
3/4	3/4	148,411	3/4	138,116	3/4	127,820	3/4	117,524	3/4	107,228	3/4	96,932	3/4	86,637	3/4	76,341	3/4	66,045	3/4
8	8	148,197	8	137,901	8	127,605	8	117,309	8	107,014	8	96,718	8	86,422	8	76,126	8	65,830	8
1/4	1/4	147,982	1/4	137,687	1/4	127,391	1/4	117,096	1/4	106,799	1/4	96,503	1/4	86,208	1/4	75,912	1/4	65,616	1/4
1/2	1/2	147,768	1/2	137,472	1/2	127,176	1/2	116,880	1/2	106,585	1/2	96,289	1/2	85,993	1/2	75,697	1/2	65,401	1/2
3/4	3/4	147,553	3/4	137,258	3/4	126,962	3/4	116,666	3/4	106,370	3/4	96,074	3/4	85,779	3/4	75,483	3/4	65,187	3/4
9	9	147,339	9	137,043	9	126,747	9	116,451	9	106,156	9	95,860	9	85,564	9	75,268	9	64,972	9
1/4	1/4	147,124	1/4	136,829	1/4	126,533	1/4	116,237	1/4	105,941	1/4	95,645	1/4	85,350	1/4	75,054	1/4	64,758	1/4
1/2	1/2	146,910	1/2	136,614	1/2	126,318	1/2	116,022	1/2	105,727	1/2	95,431	1/2	85,135	1/2	74,839	1/2	64,543	1/2
3/4	3/4	146,695	3/4	136,400	3/4	126,104	3/4	115,808	3/4	105,512	3/4	95,216	3/4	84,921	3/4	74,625	3/4	64,329	3/4
10	10	146,481	10	136,185	10	125,889	10	115,593	10	105,298	10	95,002	10	84,706	10	74,410	10	64,114	10
1/4	1/4	146,266	1/4	135,971	1/4	125,675	1/4	115,379	1/4	105,083	1/4	94,787	1/4	84,492	1/4	74,196	1/4	63,900	1/4
1/2	1/2	146,052	1/2	135,756	1/2	125,460	1/2	115,164	1/2	104,869	1/2	94,572	1/2	84,277	1/2	73,981	1/2	63,685	1/2
3/4	3/4	145,837	3/4	135,542	3/4	125,246	3/4	114,950	3/4	104,654	3/4	94,358	3/4	84,063	3/4	73,767	3/4	63,471	3/4
11	11	145,623	11	135,327	11	125,031	11	114,735	11	104,440	11	94,144	11	83,848	11	73,552	11	63,257	11
1/4	1/4	145,408	1/4	135,113	1/4	124,817	1/4	114,521	1/4	104,225	1/4	93,929	1/4	83,634	1/4	73,338	1/4	63,042	1/4
1/2	1/2	145,194	1/2	134,898	1/2	124,602	1/2	114,306	1/2	104,011	1/2	93,715	1/2	83,419	1/2	73,123	1/2	62,828	1/2
3/4	3/4	144,979	3/4	134,684	3/4	124,388	3/4	114,092	3/4	103,796	3/4	93,500	3/4	83,205	3/4	72,909	3/4	62,613	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

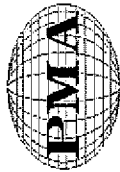
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

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

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Peeleland, Texas 77588
http://www.pmatco.com



BARGE "IB 1310"

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	62,399	0	52,103	0	41,807	0	31,565	0	21,469	0	11,474	0	919	0	0	0	0	0	0				
1/4	62,184	1/4	51,888	1/4	41,592	1/4	31,347	1/4	21,255	1/4	10,959	1/4	772	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	61,970	1/2	51,674	1/2	41,378	1/2	31,139	1/2	21,040	1/2	10,745	1/2	626	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	61,755	3/4	51,459	3/4	41,163	3/4	30,930	3/4	20,826	3/4	10,530	3/4	478	3/4	3/4	3/4	3/4	3/4	3/4				
1	61,541	1	51,245	1	40,949	1	30,722	1	20,611	1	10,316	1	331	1	1	1	1	1	1				
1 1/4	61,326	1 1/4	51,030	1 1/4	40,734	1 1/4	30,514	1 1/4	20,397	1 1/4	10,101	1 1/4	267	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4				
1 1/2	61,112	1 1/2	50,816	1 1/2	40,520	1 1/2	30,306	1 1/2	20,182	1 1/2	9,887	1 1/2	202	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2				
1 3/4	60,897	1 3/4	50,601	1 3/4	40,305	1 3/4	30,098	1 3/4	19,968	1 3/4	9,672	1 3/4	138	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4				
2	60,683	2	50,387	2	40,091	2	29,889	2	19,753	2	9,458	2	74	2	2	2	2	2	2				
1/4	60,468	1/4	50,172	1/4	39,876	1/4	29,681	1/4	19,539	1/4	9,243	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4				
1/2	60,254	1/2	49,958	1/2	39,662	1/2	29,473	1/2	19,324	1/2	9,029	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2				
3/4	60,039	3/4	49,743	3/4	39,447	3/4	29,265	3/4	19,110	3/4	8,814	3/4	1/4	3/4	3/4	3/4	3/4	3/4	3/4				
1	59,825	1	49,529	1	39,233	1	29,057	1	18,895	1	8,600	1	1/4	1	1	1	1	1	1				
1 1/4	59,610	1 1/4	49,314	1 1/4	39,018	1 1/4	28,848	1 1/4	18,681	1 1/4	8,385	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4				
1 1/2	59,396	1 1/2	49,100	1 1/2	38,804	1 1/2	28,640	1 1/2	18,466	1 1/2	8,171	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2				
1 3/4	59,181	1 3/4	48,885	1 3/4	38,590	1 3/4	28,432	1 3/4	18,252	1 3/4	7,956	1 3/4	1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4				
2	58,967	2	48,671	2	38,375	2	28,224	2	18,037	2	7,742	2	1/4	2	2	2	2	2	2	2			
1/4	58,752	1/4	48,456	1/4	38,161	1/4	28,016	1/4	17,823	1/4	7,527	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4			
1/2	58,538	1/2	48,242	1/2	37,946	1/2	27,807	1/2	17,608	1/2	7,313	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2			
3/4	58,323	3/4	48,027	3/4	37,732	3/4	27,599	3/4	17,394	3/4	7,098	3/4	1/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4			
1	58,109	1	47,813	1	37,517	1	27,391	1	17,179	1	6,884	1	1/4	1	1	1	1	1	1	1			
1 1/4	57,894	1 1/4	47,598	1 1/4	37,303	1 1/4	27,183	1 1/4	16,965	1 1/4	6,669	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4			
1 1/2	57,680	1 1/2	47,384	1 1/2	37,088	1 1/2	26,976	1 1/2	16,750	1 1/2	6,455	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2			
1 3/4	57,465	1 3/4	47,169	1 3/4	36,874	1 3/4	26,766	1 3/4	16,536	1 3/4	6,240	1 3/4	1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4			
2	57,251	2	46,955	2	36,659	2	26,558	2	16,321	2	6,026	2	1/4	2	2	2	2	2	2	2	2		
1/4	57,036	1/4	46,740	1/4	36,445	1/4	26,350	1/4	16,107	1/4	5,812	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4		
1/2	56,822	1/2	46,526	1/2	36,230	1/2	26,142	1/2	15,892	1/2	5,597	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2		
3/4	56,607	3/4	46,311	3/4	36,016	3/4	25,934	3/4	15,678	3/4	5,383	3/4	1/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4		
1	56,393	1	46,097	1	35,801	1	25,726	1	15,463	1	5,168	1	1/4	1	1	1	1	1	1	1	1		
1 1/4	56,178	1 1/4	45,882	1 1/4	35,587	1 1/4	25,518	1 1/4	15,249	1 1/4	4,954	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4		
1 1/2	55,964	1 1/2	45,668	1 1/2	35,372	1 1/2	25,310	1 1/2	15,034	1 1/2	4,739	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2		
1 3/4	55,749	1 3/4	45,453	1 3/4	35,158	1 3/4	25,102	1 3/4	14,820	1 3/4	4,525	1 3/4	1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4		
2	55,535	2	45,239	2	34,943	2	24,894	2	14,606	2	4,310	2	1/4	2	2	2	2	2	2	2	2	2	
1/4	55,320	1/4	45,024	1/4	34,729	1/4	24,681	1/4	14,391	1/4	4,096	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	55,106	1/2	44,810	1/2	34,514	1/2	24,469	1/2	14,176	1/2	3,881	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	54,891	3/4	44,596	3/4	34,300	3/4	24,256	3/4	13,962	3/4	3,667	3/4	1/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	54,677	1	44,381	1	34,085	1	24,043	1	13,748	1	3,452	1	1/4	1	1	1	1	1	1	1	1	1	
1 1/4	54,462	1 1/4	44,166	1 1/4	33,871	1 1/4	23,828	1 1/4	13,533	1 1/4	3,238	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	54,248	1 1/2	43,952	1 1/2	33,656	1 1/2	23,614	1 1/2	13,319	1 1/2	3,024	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
1 3/4	54,033	1 3/4	43,737	1 3/4	33,442	1 3/4	23,399	1 3/4	13,104	1 3/4	2,809	1 3/4	1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	
2	53,819	2	43,523	2	33,227	2	23,185	2	12,890	2	2,595	2	1/4	2	2	2	2	2	2	2	2	2	2
1/4	53,604	1/4	43,308	1/4	33,017	1/4	22,970	1/4	12,675	1/4	2,381	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	53,390	1/2	43,094	1/2	32,808	1/2	22,756	1/2	12,461	1/2	2,168	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	53,175	3/4	42,879	3/4	32,598	3/4	22,541	3/4	12,246	3/4	1,954	3/4	1/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	52,961	1	42,665	1	32,388	1	22,327	1	12,032	1	1,740	1	1/4	1	1	1	1	1	1	1	1	1	1
1 1/4	52,746	1 1/4	42,450	1 1/4	32,180	1 1/4	22,113	1 1/4	11,817	1 1/4	1,535	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	52,532	1 1/2	42,236	1 1/2	31,971	1 1/2	21,898	1 1/2	11,603	1 1/2	1,330	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
1 3/4	52,317	1 3/4	42,021	1 3/4	31,763	1 3/4	21,684	1 3/4	11,388	1 3/4	1,125	1 3/4	1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/10/2019 CL
 CALCULATED: 09/10/2019 CL
 PRINTED: 09/10/2019 SW
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2019

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



BARGE "IB 1310"

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	154,936	0	145,374	0	135,020	0	124,665	0	114,311	0	103,957	0	93,603	0	83,248	0	72,894	0
1/4	1/4	154,878	1/4	145,158	1/4	134,804	1/4	124,450	1/4	114,095	1/4	103,741	1/4	93,387	1/4	83,033	1/4	72,678	1/4
1/2	1/2	154,819	1/2	144,943	1/2	134,588	1/2	124,234	1/2	113,880	1/2	103,525	1/2	93,171	1/2	82,817	1/2	72,463	1/2
3/4	3/4	154,694	3/4	144,727	3/4	134,373	3/4	124,018	3/4	113,664	3/4	103,310	3/4	92,955	3/4	82,601	3/4	72,247	3/4
1	1	154,568	1	144,511	1	134,157	1	123,803	1	113,448	1	103,094	1	92,740	1	82,385	1	72,031	1
1/4	1/4	154,442	1/4	144,295	1/4	133,941	1/4	123,587	1/4	113,233	1/4	102,878	1/4	92,524	1/4	82,170	1/4	71,676	1/4
1/2	1/2	154,316	1/2	144,080	1/2	133,725	1/2	123,371	1/2	113,017	1/2	102,663	1/2	92,308	1/2	81,954	1/2	71,500	1/2
3/4	3/4	154,126	3/4	143,864	3/4	133,510	3/4	123,155	3/4	112,801	3/4	102,447	3/4	92,093	3/4	81,738	3/4	71,384	3/4
2	2	153,936	2	143,648	2	133,294	2	122,940	2	112,585	2	102,231	2	91,877	2	81,523	2	71,168	2
1/4	1/4	153,746	1/4	143,433	1/4	133,078	1/4	122,724	1/4	112,370	1/4	102,015	1/4	91,661	1/4	81,307	1/4	70,993	1/4
1/2	1/2	153,556	1/2	143,217	1/2	132,863	1/2	122,508	1/2	112,154	1/2	101,800	1/2	91,445	1/2	81,091	1/2	70,737	1/2
3/4	3/4	153,344	3/4	143,001	3/4	132,647	3/4	122,293	3/4	111,938	3/4	101,584	3/4	91,230	3/4	80,875	3/4	70,521	3/4
3	3	153,131	3	142,785	3	132,431	3	122,077	3	111,723	3	101,368	3	91,014	3	80,660	3	70,306	3
1/4	1/4	152,919	1/4	142,570	1/4	132,215	1/4	121,861	1/4	111,507	1/4	101,153	1/4	90,798	1/4	80,444	1/4	70,090	1/4
1/2	1/2	152,706	1/2	142,354	1/2	132,000	1/2	121,645	1/2	111,291	1/2	100,937	1/2	90,583	1/2	80,228	1/2	69,874	1/2
3/4	3/4	152,491	3/4	142,138	3/4	131,784	3/4	121,430	3/4	111,075	3/4	100,721	3/4	90,367	3/4	80,013	3/4	69,658	3/4
4	4	152,276	4	141,923	4	131,568	4	121,214	4	110,860	4	100,505	4	90,151	4	79,797	4	69,443	4
1/4	1/4	152,061	1/4	141,707	1/4	131,353	1/4	120,998	1/4	110,644	1/4	100,290	1/4	89,935	1/4	79,591	1/4	69,227	1/4
1/2	1/2	151,845	1/2	141,491	1/2	131,137	1/2	120,783	1/2	110,428	1/2	100,074	1/2	89,720	1/2	79,365	1/2	69,011	1/2
3/4	3/4	151,630	3/4	141,275	3/4	130,921	3/4	120,567	3/4	110,213	3/4	99,858	3/4	89,504	3/4	79,150	3/4	68,796	3/4
5	5	151,414	5	141,060	5	130,705	5	120,351	5	109,997	5	99,643	5	89,288	5	78,934	5	68,580	5
1/4	1/4	151,198	1/4	140,844	1/4	130,490	1/4	120,135	1/4	109,781	1/4	99,427	1/4	89,073	1/4	78,718	1/4	68,364	1/4
1/2	1/2	150,983	1/2	140,628	1/2	130,274	1/2	119,920	1/2	109,565	1/2	99,211	1/2	88,857	1/2	78,503	1/2	68,148	1/2
3/4	3/4	150,767	3/4	140,413	3/4	130,058	3/4	119,704	3/4	109,350	3/4	98,995	3/4	88,641	3/4	78,287	3/4	67,933	3/4
6	6	150,551	6	140,197	6	129,843	6	119,488	6	109,134	6	98,780	6	88,425	6	78,071	6	67,717	6
1/4	1/4	150,335	1/4	139,981	1/4	129,627	1/4	119,273	1/4	108,918	1/4	98,564	1/4	88,210	1/4	77,856	1/4	67,501	1/4
1/2	1/2	150,120	1/2	139,765	1/2	129,411	1/2	119,057	1/2	108,703	1/2	98,348	1/2	87,994	1/2	77,640	1/2	67,286	1/2
3/4	3/4	149,904	3/4	139,550	3/4	129,195	3/4	118,841	3/4	108,487	3/4	98,133	3/4	87,778	3/4	77,424	3/4	67,070	3/4
7	7	149,688	7	139,334	7	128,980	7	118,625	7	108,271	7	97,917	7	87,563	7	77,208	7	66,854	7
1/4	1/4	149,473	1/4	139,118	1/4	128,764	1/4	118,410	1/4	108,055	1/4	97,701	1/4	87,347	1/4	76,993	1/4	66,638	1/4
1/2	1/2	149,257	1/2	138,903	1/2	128,548	1/2	118,194	1/2	107,840	1/2	97,485	1/2	87,131	1/2	76,777	1/2	66,423	1/2
3/4	3/4	149,041	3/4	138,687	3/4	128,333	3/4	117,978	3/4	107,624	3/4	97,270	3/4	86,915	3/4	76,561	3/4	66,207	3/4
8	8	148,825	8	138,471	8	128,117	8	117,763	8	107,408	8	97,054	8	86,700	8	76,346	8	65,991	8
1/4	1/4	148,610	1/4	138,255	1/4	127,901	1/4	117,547	1/4	107,193	1/4	96,838	1/4	86,484	1/4	76,130	1/4	65,776	1/4
1/2	1/2	148,394	1/2	138,040	1/2	127,685	1/2	117,331	1/2	106,977	1/2	96,623	1/2	86,268	1/2	75,914	1/2	65,560	1/2
3/4	3/4	148,178	3/4	137,824	3/4	127,470	3/4	117,115	3/4	106,761	3/4	96,407	3/4	86,053	3/4	75,698	3/4	65,344	3/4
9	9	147,963	9	137,608	9	127,254	9	116,900	9	106,545	9	96,191	9	85,837	9	75,483	9	65,128	9
1/4	1/4	147,747	1/4	137,393	1/4	127,038	1/4	116,684	1/4	106,330	1/4	95,975	1/4	85,621	1/4	75,267	1/4	64,913	1/4
1/2	1/2	147,531	1/2	137,177	1/2	126,823	1/2	116,468	1/2	106,114	1/2	95,760	1/2	85,405	1/2	75,051	1/2	64,697	1/2
3/4	3/4	147,315	3/4	136,961	3/4	126,607	3/4	116,253	3/4	105,898	3/4	95,544	3/4	85,190	3/4	74,836	3/4	64,481	3/4
10	10	147,100	10	136,745	10	126,391	10	116,037	10	105,683	10	95,328	10	84,974	10	74,620	10	64,265	10
1/4	1/4	146,884	1/4	136,530	1/4	126,175	1/4	115,821	1/4	105,467	1/4	95,113	1/4	84,758	1/4	74,404	1/4	64,050	1/4
1/2	1/2	146,668	1/2	136,314	1/2	125,960	1/2	115,605	1/2	105,251	1/2	94,897	1/2	84,543	1/2	74,188	1/2	63,834	1/2
3/4	3/4	146,453	3/4	136,098	3/4	125,744	3/4	115,390	3/4	105,035	3/4	94,681	3/4	84,327	3/4	73,973	3/4	63,618	3/4
11	11	146,237	11	135,883	11	125,528	11	115,174	11	104,820	11	94,465	11	84,111	11	73,757	11	63,403	11
1/4	1/4	146,021	1/4	135,667	1/4	125,313	1/4	114,958	1/4	104,604	1/4	94,250	1/4	83,895	1/4	73,541	1/4	63,187	1/4
1/2	1/2	145,805	1/2	135,451	1/2	125,097	1/2	114,743	1/2	104,388	1/2	94,034	1/2	83,680	1/2	73,326	1/2	62,971	1/2
3/4	3/4	145,590	3/4	135,235	3/4	124,881	3/4	114,527	3/4	104,173	3/4	93,818	3/4	83,464	3/4	73,110	3/4	62,756	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IMPMS CHAPTER 2.7.

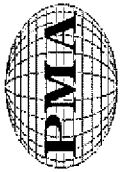
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

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 24'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2892
Pearland, Texas 77608
<http://www.pimacorp.net>



BARGE "IB 1310"

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.											
0	62,540	0	41,831	6	31,484	0	21,160	0	10,806	0	629	0	0	0	0	0	0	0	0	0	
1/4	62,324	1/4	41,616	1/4	31,269	1/4	20,944	1/4	10,590	1/4	481	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
1/2	62,108	1/2	41,400	1/2	31,054	1/2	20,728	1/2	10,374	1/2	333	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
3/4	61,893	3/4	41,184	3/4	30,839	3/4	20,512	3/4	10,159	3/4	268	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
1	61,677	1	40,968	1	30,625	1	20,297	1	9,943	1	203	1	1	1	1	1	1	1	1	1	
1 1/4	61,461	1 1/4	40,753	1 1/4	30,410	1 1/4	20,081	1 1/4	9,727	1 1/4	139	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	61,246	1 1/2	40,537	1 1/2	30,195	1 1/2	19,866	1 1/2	9,511	1 1/2	74	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	61,030	3/4	40,321	3/4	29,980	3/4	19,650	3/4	9,296	3/4	34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
2	60,814	2	40,106	2	29,766	2	19,434	2	9,080	2	2	2	2	2	2	2	2	2	2	2	
1 1/4	60,598	1 1/4	39,890	1 1/4	29,551	1 1/4	19,218	1 1/4	8,864	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	60,383	1 1/2	39,674	1 1/2	29,336	1 1/2	19,002	1 1/2	8,649	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	60,167	3/4	39,458	3/4	29,121	3/4	18,787	3/4	8,433	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
3	59,951	3	39,243	3	28,907	3	18,571	3	8,217	3	3	3	3	3	3	3	3	3	3	3	
1 1/4	59,736	1 1/4	39,027	1 1/4	28,692	1 1/4	18,355	1 1/4	8,002	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	59,520	1 1/2	38,811	1 1/2	28,477	1 1/2	18,140	1 1/2	7,786	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	59,304	3/4	38,596	3/4	28,262	3/4	17,924	3/4	7,570	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
4	59,088	4	38,380	4	28,048	4	17,708	4	7,354	4	4	4	4	4	4	4	4	4	4	4	4
1 1/4	58,873	1 1/4	38,164	1 1/4	27,833	1 1/4	17,493	1 1/4	7,139	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	58,657	1 1/2	37,948	1 1/2	27,618	1 1/2	17,277	1 1/2	6,923	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	58,441	3/4	37,733	3/4	27,403	3/4	17,061	3/4	6,707	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
5	58,226	5	37,517	5	27,189	5	16,845	5	6,492	5	5	5	5	5	5	5	5	5	5	5	5
1 1/4	58,010	1 1/4	37,301	1 1/4	26,974	1 1/4	16,630	1 1/4	6,276	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	57,794	1 1/2	37,086	1 1/2	26,759	1 1/2	16,414	1 1/2	6,060	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	57,578	3/4	36,870	3/4	26,544	3/4	16,198	3/4	5,844	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
6	57,363	6	36,654	6	26,330	6	15,983	6	5,629	6	6	6	6	6	6	6	6	6	6	6	6
1 1/4	57,147	1 1/4	36,438	1 1/4	26,115	1 1/4	15,767	1 1/4	5,413	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	56,931	1 1/2	36,223	1 1/2	25,900	1 1/2	15,551	1 1/2	5,197	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	56,716	3/4	36,007	3/4	25,685	3/4	15,335	3/4	4,982	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
7	56,500	7	35,791	7	25,471	7	15,120	7	4,766	7	7	7	7	7	7	7	7	7	7	7	7
1 1/4	56,284	1 1/4	35,576	1 1/4	25,256	1 1/4	14,904	1 1/4	4,550	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	56,068	1 1/2	35,360	1 1/2	25,041	1 1/2	14,688	1 1/2	4,335	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	55,853	3/4	35,144	3/4	24,826	3/4	14,473	3/4	4,119	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	55,637	8	34,928	8	24,610	8	14,257	8	3,903	8	8	8	8	8	8	8	8	8	8	8	8
1 1/4	55,421	1 1/4	34,713	1 1/4	24,395	1 1/4	14,041	1 1/4	3,687	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	55,206	1 1/2	34,497	1 1/2	24,179	1 1/2	13,826	1 1/2	3,472	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	54,990	3/4	34,281	3/4	23,964	3/4	13,610	3/4	3,256	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	54,774	9	34,066	9	23,748	9	13,394	9	3,041	9	9	9	9	9	9	9	9	9	9	9	9
1 1/4	54,558	1 1/4	33,850	1 1/4	23,532	1 1/4	13,178	1 1/4	2,825	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	54,343	1 1/2	33,634	1 1/2	23,317	1 1/2	12,963	1 1/2	2,610	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	54,127	3/4	33,419	3/4	23,101	3/4	12,747	3/4	2,395	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	53,911	10	33,204	10	22,885	10	12,531	10	2,180	10	10	10	10	10	10	10	10	10	10	10	10
1 1/4	53,696	1 1/4	32,989	1 1/4	22,669	1 1/4	12,316	1 1/4	1,965	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	53,480	1 1/2	32,773	1 1/2	22,454	1 1/2	12,100	1 1/2	1,750	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	53,264	3/4	32,558	3/4	22,238	3/4	11,884	3/4	1,544	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	53,048	11	32,343	11	22,022	11	11,668	11	1,337	11	11	11	11	11	11	11	11	11	11	11	11
1 1/4	52,833	1 1/4	32,128	1 1/4	21,807	1 1/4	11,453	1 1/4	1,131	1 1/4	1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
1 1/2	52,617	1 1/2	31,913	1 1/2	21,591	1 1/2	11,237	1 1/2	926	1 1/2	1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
3/4	52,401	3/4	31,698	3/4	21,375	3/4	11,021	3/4	777	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.

STRAPPED: 09/10/2019 CL
 CALCULATED: 09/10/2019 CL
 PRINTED: 09/10/2019 SW
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 09/2019

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