



# BARGE "IB 1970"

## 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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-5/8	- 00-5/8
3 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-5/8	- 00-5/8

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

LENGTH BETWEEN DRAFT MARKS: 182'-09"

May 5, 2016

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

<http://www.pmacorp.net>



# BARGE "IB 1970"

# 1 CENTER ULLAGE TABLE

GAUGE HEIGHT 15'-03 1/2"

CAPACITIES GIVEN IN WHOLE GALLONS

IN.	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	146,311	0	138,537	0	121,395	0	97,384	0	85,383
1/4	1/4	152,851	146,149	138,375	130,601	121,144	109,135	97,134	85,133	73,132
1/2	1/2	152,841	145,987	138,213	130,439	120,894	108,885	96,884	84,883	72,882
3/4	3/4	152,778	145,825	138,051	130,277	120,643	108,634	96,634	84,633	72,632
1	1	152,715	145,663	137,889	130,115	120,393	108,385	96,384	84,383	72,382
1/4	1/4	152,653	145,501	137,727	129,953	120,142	108,135	96,134	84,133	72,132
1/2	1/2	152,590	145,339	137,565	129,791	119,892	107,884	95,884	83,883	71,882
3/4	3/4	152,522	145,177	137,403	129,629	119,641	107,635	95,634	83,633	71,632
2	2	145,475	145,016	137,242	129,467	119,391	107,385	95,384	83,383	71,382
1/4	1/4	152,417	144,854	137,080	129,306	119,140	107,135	95,134	83,133	71,132
1/2	1/2	152,360	144,692	136,918	129,144	118,990	106,885	94,884	82,883	70,882
3/4	3/4	152,222	144,530	136,756	128,982	118,639	106,635	94,634	82,633	70,632
3	3	152,085	144,368	136,594	128,820	118,389	106,384	94,384	82,383	70,382
1/4	1/4	151,947	144,206	136,432	128,658	118,138	106,134	94,134	82,133	70,132
1/2	1/2	151,810	144,044	136,270	128,496	117,888	105,884	93,884	81,883	69,882
3/4	3/4	151,649	143,882	136,108	128,334	117,637	105,634	93,634	81,633	69,632
4	4	151,489	143,720	135,946	128,172	117,387	105,384	93,384	81,383	69,382
1/4	1/4	151,328	143,558	135,784	128,010	117,136	105,134	93,134	81,133	69,132
1/2	1/2	151,168	143,396	135,622	127,848	116,886	104,884	92,884	80,883	68,882
3/4	3/4	151,007	143,234	135,460	127,686	116,636	104,634	92,634	80,633	68,632
5	5	150,845	143,072	135,298	127,524	116,386	104,384	92,384	80,383	68,382
1/4	1/4	150,684	142,910	135,136	127,362	116,135	104,134	92,134	80,133	68,132
1/2	1/2	150,522	142,748	134,974	127,200	115,885	103,884	91,884	79,883	67,882
3/4	3/4	150,360	142,586	134,812	127,038	115,635	103,634	91,634	79,633	67,632
6	6	150,198	142,424	134,650	126,876	115,385	103,384	91,384	79,383	67,382
1/4	1/4	150,036	142,262	134,488	126,714	115,135	103,134	91,134	79,133	67,132
1/2	1/2	149,874	142,100	134,326	126,552	114,885	102,884	90,884	78,883	66,882
3/4	3/4	149,712	141,938	134,164	126,390	114,635	102,634	90,634	78,633	66,632
7	7	149,550	141,776	134,002	126,228	114,385	102,384	90,384	78,382	66,381
1/4	1/4	149,388	141,614	133,840	126,066	114,135	102,134	90,134	78,132	66,131
1/2	1/2	149,226	141,452	133,678	125,904	113,885	101,884	89,884	77,882	65,881
3/4	3/4	149,065	141,290	133,516	125,742	113,635	101,634	89,634	77,632	65,631
8	8	148,903	141,129	133,355	125,580	113,385	101,384	89,384	77,382	65,381
1/4	1/4	148,741	140,967	133,193	125,418	113,135	101,134	89,134	77,132	65,131
1/2	1/2	148,579	140,805	133,031	125,256	112,885	100,884	88,884	76,882	64,881
3/4	3/4	148,417	140,643	132,869	125,094	112,635	100,634	88,634	76,632	64,631
9	9	148,255	140,481	132,707	124,932	112,385	100,384	88,384	76,382	64,381
1/4	1/4	148,093	140,319	132,545	124,770	112,135	100,134	88,134	76,132	64,131
1/2	1/2	147,931	140,157	132,383	124,608	111,885	99,884	87,883	75,882	63,881
3/4	3/4	147,769	139,995	132,221	124,446	111,635	99,634	87,633	75,632	63,631
10	10	147,607	139,833	132,059	124,284	111,385	99,384	87,383	75,382	63,381
1/4	1/4	147,445	139,671	131,897	124,122	111,135	99,134	87,133	75,132	63,131
1/2	1/2	147,283	139,509	131,735	123,960	110,885	98,884	86,883	74,882	62,881
3/4	3/4	147,121	139,347	131,573	123,798	110,635	98,634	86,633	74,632	62,631
11	11	146,959	139,185	131,411	123,636	110,385	98,384	86,383	74,382	62,381
1/4	1/4	146,797	139,023	131,249	123,474	110,135	98,134	86,133	74,132	62,131
1/2	1/2	146,635	138,861	131,087	123,312	109,885	97,884	85,883	73,882	61,881
3/4	3/4	146,473	138,699	130,925	123,150	109,635	97,634	85,633	73,632	61,646

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPNS 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 31'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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 Pearland, Texas 77589  
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# BARGE "IB 1970"

# 1 CENTER ULLAGE TABLE

GAUGE HEIGHT 15'-03 1/2"

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	61,396	0	49,408	0	37,426	0	25,678	0	13,676	0	1,693	0	0	0	0	0	0	0	0
1/4	61,147	49,158	37,182	25,428	13,426	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456	1,456
1/2	60,898	48,908	36,939	25,178	13,176	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218	1,218
3/4	60,648	48,658	36,696	24,928	12,926	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054	1,054
1	60,399	48,408	36,452	24,678	12,676	890	890	890	890	890	890	890	890	890	890	890	890	890	890
1/4	60,149	48,158	36,209	24,427	12,426	725	725	725	725	725	725	725	725	725	725	725	725	725	725
1/2	59,900	47,909	35,966	24,177	12,176	561	561	561	561	561	561	561	561	561	561	561	561	561	561
3/4	59,650	47,659	35,722	23,927	11,926	469	469	469	469	469	469	469	469	469	469	469	469	469	469
2	59,401	47,409	35,479	23,677	11,676	377	377	377	377	377	377	377	377	377	377	377	377	377	377
1/4	59,152	47,159	35,235	23,427	11,426	285	285	285	285	285	285	285	285	285	285	285	285	285	285
1/2	58,902	46,909	34,992	23,177	11,176	193	193	193	193	193	193	193	193	193	193	193	193	193	193
3/4	58,653	46,659	34,749	22,927	10,926	152	152	152	152	152	152	152	152	152	152	152	152	152	152
3	58,403	46,409	34,505	22,677	10,675	110	110	110	110	110	110	110	110	110	110	110	110	110	110
1/4	58,154	46,159	34,262	22,427	10,425	68	68	68	68	68	68	68	68	68	68	68	68	68	68
1/2	57,904	45,909	34,019	22,177	10,175	26	26	26	26	26	26	26	26	26	26	26	26	26	26
3/4	57,655	45,659	33,775	21,927	9,925	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	57,405	45,410	33,532	21,677	9,675	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1/4	57,155	45,160	33,289	21,427	9,425	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	56,905	44,910	33,045	21,177	9,175	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	56,655	44,660	32,802	20,927	8,925	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	56,405	44,410	32,558	20,677	8,675	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1/4	56,155	44,160	32,315	20,427	8,424	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	55,905	43,910	32,072	20,177	8,174	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	55,655	43,660	31,828	19,927	7,924	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	55,405	43,410	31,585	19,677	7,673	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1/4	55,156	43,160	31,342	19,427	7,423	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	54,906	42,911	31,098	19,177	7,173	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	54,656	42,661	30,855	18,927	6,923	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	54,406	42,411	30,612	18,677	6,673	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1/4	54,156	42,161	30,368	18,427	6,422	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	53,906	41,911	30,125	18,177	6,172	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	53,656	41,661	29,882	17,927	5,922	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	53,406	41,411	29,638	17,677	5,672	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1/4	53,156	41,161	29,395	17,427	5,421	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	52,906	40,911	29,151	17,176	5,171	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	52,657	40,662	28,908	16,926	4,920	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	52,407	40,412	28,665	16,676	4,670	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1/4	52,157	40,162	28,421	16,426	4,419	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	51,907	39,912	28,178	16,176	4,169	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	51,657	39,662	27,928	15,926	3,918	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	51,407	39,412	27,678	15,676	3,668	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	51,157	39,162	27,428	15,426	3,417	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	50,907	38,912	27,178	15,176	3,167	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	50,657	38,662	26,928	14,926	2,917	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	50,408	38,412	26,678	14,676	2,667	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1/4	50,158	38,162	26,428	14,426	2,417	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	49,908	37,912	26,178	14,176	2,167	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	49,658	37,662	25,928	13,926	1,930	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.

STRAPPED: 05/05/2016 CL  
 CALCULATED: 05/05/2016 CL  
 PRINTED: 05/06/2016 JS  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 05/2016

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "JB 1970"

# 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	161,288	0	150,986	0	139,462	0	127,937	0	116,413	0	104,889	0	93,365	0	81,841	0	70,317	0
1/4	1/4	161,228	1/4	150,746	1/4	139,222	1/4	127,697	1/4	116,173	1/4	104,649	1/4	93,125	1/4	81,601	1/4	70,077	1/4
1/2	1/2	161,168	1/2	150,506	1/2	138,981	1/2	127,457	1/2	115,933	1/2	104,409	1/2	92,885	1/2	81,361	1/2	69,837	1/2
3/4	3/4	161,108	3/4	150,265	3/4	138,741	3/4	127,217	3/4	115,693	3/4	104,169	3/4	92,645	3/4	81,121	3/4	69,597	3/4
1	1	161,048	1	150,025	1	138,501	1	126,977	1	115,453	1	103,929	1	92,405	1	80,881	1	69,357	1
1/4	1/4	160,908	1/4	149,785	1/4	138,261	1/4	126,737	1/4	115,213	1/4	103,689	1/4	92,165	1/4	80,641	1/4	69,116	1/4
1/2	1/2	160,768	1/2	149,545	1/2	138,021	1/2	126,497	1/2	114,973	1/2	103,449	1/2	91,925	1/2	80,400	1/2	68,876	1/2
3/4	3/4	160,628	3/4	149,305	3/4	137,781	3/4	126,257	3/4	114,733	3/4	103,209	3/4	91,685	3/4	80,160	3/4	68,636	3/4
2	2	160,488	2	149,065	2	137,541	2	126,017	2	114,493	2	102,969	2	91,444	2	79,920	2	68,396	2
1/4	1/4	160,271	1/4	148,825	1/4	137,301	1/4	125,777	1/4	114,253	1/4	102,728	1/4	91,204	1/4	79,680	1/4	68,156	1/4
1/2	1/2	160,054	1/2	148,585	1/2	137,061	1/2	125,537	1/2	114,012	1/2	102,488	1/2	90,964	1/2	79,440	1/2	67,916	1/2
3/4	3/4	159,838	3/4	148,345	3/4	136,821	3/4	125,297	3/4	113,772	3/4	102,248	3/4	90,724	3/4	79,200	3/4	67,676	3/4
3	3	159,621	3	148,105	3	136,581	3	125,056	3	113,532	3	102,008	3	90,484	3	78,960	3	67,436	3
1/4	1/4	159,382	1/4	147,865	1/4	136,340	1/4	124,816	1/4	113,292	1/4	101,768	1/4	90,244	1/4	78,720	1/4	67,196	1/4
1/2	1/2	159,144	1/2	147,625	1/2	136,100	1/2	124,576	1/2	113,052	1/2	101,528	1/2	90,004	1/2	78,480	1/2	66,956	1/2
3/4	3/4	158,905	3/4	147,384	3/4	135,860	3/4	124,336	3/4	112,812	3/4	101,288	3/4	89,764	3/4	78,240	3/4	66,716	3/4
4	4	158,667	4	147,144	4	135,620	4	124,096	4	112,572	4	101,048	4	89,524	4	78,000	4	66,476	4
1/4	1/4	158,427	1/4	146,904	1/4	135,380	1/4	123,856	1/4	112,332	1/4	100,808	1/4	89,284	1/4	77,760	1/4	66,235	1/4
1/2	1/2	158,187	1/2	146,664	1/2	135,140	1/2	123,616	1/2	112,092	1/2	100,568	1/2	89,044	1/2	77,519	1/2	65,995	1/2
3/4	3/4	157,948	3/4	146,424	3/4	134,900	3/4	123,376	3/4	111,852	3/4	100,328	3/4	88,803	3/4	77,279	3/4	65,755	3/4
5	5	157,708	5	146,184	5	134,660	5	123,136	5	111,612	5	100,088	5	88,563	5	77,039	5	65,515	5
1/4	1/4	157,468	1/4	145,944	1/4	134,420	1/4	122,896	1/4	111,372	1/4	99,847	1/4	88,323	1/4	76,799	1/4	65,275	1/4
1/2	1/2	157,228	1/2	145,704	1/2	134,180	1/2	122,656	1/2	111,131	1/2	99,607	1/2	88,083	1/2	76,559	1/2	65,035	1/2
3/4	3/4	156,988	3/4	145,464	3/4	133,940	3/4	122,415	3/4	110,891	3/4	99,367	3/4	87,843	3/4	76,319	3/4	64,795	3/4
6	6	156,748	6	145,224	6	133,700	6	122,175	6	110,651	6	99,127	6	87,603	6	76,079	6	64,555	6
1/4	1/4	156,508	1/4	144,984	1/4	133,459	1/4	121,935	1/4	110,411	1/4	98,887	1/4	87,363	1/4	75,839	1/4	64,315	1/4
1/2	1/2	156,268	1/2	144,743	1/2	133,219	1/2	121,695	1/2	110,171	1/2	98,647	1/2	87,123	1/2	75,599	1/2	64,075	1/2
3/4	3/4	156,028	3/4	144,503	3/4	132,979	3/4	121,455	3/4	109,931	3/4	98,407	3/4	86,883	3/4	75,359	3/4	63,835	3/4
7	7	155,787	7	144,263	7	132,739	7	121,215	7	109,691	7	98,167	7	86,643	7	75,119	7	63,594	7
1/4	1/4	155,547	1/4	144,023	1/4	132,499	1/4	120,975	1/4	109,451	1/4	97,927	1/4	86,403	1/4	74,879	1/4	63,354	1/4
1/2	1/2	155,307	1/2	143,783	1/2	132,259	1/2	120,735	1/2	109,211	1/2	97,687	1/2	86,163	1/2	74,638	1/2	63,114	1/2
3/4	3/4	155,067	3/4	143,543	3/4	132,019	3/4	120,495	3/4	108,971	3/4	97,447	3/4	85,922	3/4	74,398	3/4	62,874	3/4
8	8	154,827	8	143,303	8	131,779	8	120,255	8	108,731	8	97,206	8	85,682	8	74,158	8	62,634	8
1/4	1/4	154,587	1/4	143,063	1/4	131,539	1/4	120,015	1/4	108,491	1/4	96,966	1/4	85,442	1/4	73,918	1/4	62,394	1/4
1/2	1/2	154,347	1/2	142,823	1/2	131,299	1/2	119,775	1/2	108,250	1/2	96,726	1/2	85,202	1/2	73,678	1/2	62,154	1/2
3/4	3/4	154,107	3/4	142,583	3/4	131,059	3/4	119,534	3/4	108,010	3/4	96,486	3/4	84,962	3/4	73,438	3/4	61,914	3/4
9	9	153,867	9	142,343	9	130,818	9	119,294	9	107,770	9	96,246	9	84,722	9	73,198	9	61,674	9
1/4	1/4	153,627	1/4	142,103	1/4	130,578	1/4	119,054	1/4	107,530	1/4	96,006	1/4	84,482	1/4	72,958	1/4	61,434	1/4
1/2	1/2	153,387	1/2	141,862	1/2	130,338	1/2	118,814	1/2	107,290	1/2	95,766	1/2	84,242	1/2	72,718	1/2	61,194	1/2
3/4	3/4	153,146	3/4	141,622	3/4	130,098	3/4	118,574	3/4	107,050	3/4	95,526	3/4	84,002	3/4	72,478	3/4	60,954	3/4
10	10	152,906	10	141,382	10	129,858	10	118,334	10	106,810	10	95,286	10	83,762	10	72,238	10	60,714	10
1/4	1/4	152,666	1/4	141,142	1/4	129,618	1/4	118,094	1/4	106,570	1/4	95,046	1/4	83,522	1/4	71,997	1/4	60,473	1/4
1/2	1/2	152,426	1/2	140,902	1/2	129,378	1/2	117,854	1/2	106,330	1/2	94,806	1/2	83,282	1/2	71,757	1/2	60,233	1/2
3/4	3/4	152,186	3/4	140,662	3/4	129,138	3/4	117,614	3/4	106,090	3/4	94,566	3/4	83,041	3/4	71,517	3/4	59,993	3/4
11	11	151,946	11	140,422	11	128,898	11	117,374	11	105,850	11	94,325	11	82,801	11	71,277	11	59,753	11
1/4	1/4	151,706	1/4	140,182	1/4	128,658	1/4	117,134	1/4	105,609	1/4	94,085	1/4	82,561	1/4	71,037	1/4	59,513	1/4
1/2	1/2	151,466	1/2	139,942	1/2	128,418	1/2	116,894	1/2	105,369	1/2	93,845	1/2	82,321	1/2	70,797	1/2	59,273	1/2
3/4	3/4	151,226	3/4	139,702	3/4	128,178	3/4	116,653	3/4	105,129	3/4	93,605	3/4	82,081	3/4	70,557	3/4	59,033	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPWS 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 31'-06" FORWARD OF AFT BULKHEAD.

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



# BARGE "IB 1970"

# 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	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4
0	58,793	0	47,269	0	35,773	0	24,502	0	12,979	0	1,466	0	0	0	0	0	0	0	0
1/4	58,553	47,029	35,539	24,262	12,739	1,266													
1/2	58,313	46,788	35,306	24,022	12,499	1,066													
3/4	58,073	46,548	35,073	23,782	12,259	866													
1	57,832	46,308	34,840	23,542	12,018	666													
1/4	57,592	46,068	34,607	23,302	11,778	546													
1/2	57,352	45,828	34,374	23,062	11,538	426													
3/4	57,112	45,588	34,141	22,822	11,298	306													
2	56,872	45,348	33,908	22,582	11,058	186													
1/4	56,632	45,108	33,675	22,342	10,818	146													
1/2	56,392	44,868	33,442	22,102	10,578	106													
3/4	56,152	44,628	33,209	21,862	10,338	66													
3	55,912	44,388	32,976	21,622	10,098	26													
1/4	55,672	44,148	32,743	21,381	9,858														
1/2	55,432	43,907	32,510	21,141	9,618														
3/4	55,191	43,667	32,277	20,901	9,378														
4	54,951	43,427	32,044	20,661	9,138														
1/4	54,711	43,187	31,811	20,421	8,897														
1/2	54,471	42,947	31,578	20,181	8,657														
3/4	54,231	42,707	31,345	19,941	8,417														
5	53,991	42,467	31,112	19,701	8,177														
1/4	53,751	42,227	30,879	19,461	7,937														
1/2	53,511	41,987	30,646	19,221	7,697														
3/4	53,271	41,747	30,413	18,981	7,457														
6	53,031	41,507	30,180	18,741	7,217														
1/4	52,791	41,266	29,947	18,501	6,977														
1/2	52,551	41,026	29,714	18,260	6,737														
3/4	52,310	40,786	29,481	18,020	6,497														
7	52,070	40,546	29,248	17,780	6,257														
1/4	51,830	40,306	29,015	17,540	6,017														
1/2	51,590	40,066	28,782	17,300	5,777														
3/4	51,350	39,826	28,549	17,060	5,537														
8	51,110	39,586	28,315	16,820	5,297														
1/4	50,870	39,346	28,082	16,580	5,056														
1/2	50,630	39,106	27,849	16,340	4,816														
3/4	50,390	38,866	27,616	16,100	4,576														
9	50,150	38,626	27,383	15,860	4,336														
1/4	49,910	38,385	27,143	15,620	4,096														
1/2	49,669	38,145	26,903	15,380	3,856														
3/4	49,429	37,905	26,663	15,139	3,616														
10	49,189	37,665	26,423	14,899	3,376														
1/4	48,949	37,425	26,183	14,659	3,137														
1/2	48,709	37,185	25,943	14,419	2,897														
3/4	48,469	36,945	25,703	14,179	2,658														
11	48,229	36,705	25,463	13,939	2,418														
1/4	47,989	36,465	25,223	13,699	2,180														
1/2	47,749	36,225	24,983	13,459	1,942														
3/4	47,509	36,006	24,743	13,219	1,704														

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/05/2016 CL  
 CALCULATED: 05/05/2016 CL  
 PRINTED: 05/06/2016 JS  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 05/2016

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



# BARGE "IB 1970"

# 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	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4	IN	1/4
0	0	160,273	0	150,052	0	138,620	0	127,187	0	115,754	0	104,321	0	92,888	0	81,455	0	70,022	0
1/4	1/4	160,214	1/4	149,814	1/4	138,381	1/4	126,948	1/4	115,516	1/4	104,083	1/4	92,650	1/4	81,217	1/4	69,784	1/4
1/2	1/2	160,154	1/2	149,576	1/2	138,143	1/2	126,710	1/2	115,277	1/2	103,845	1/2	92,412	1/2	80,979	1/2	69,546	1/2
3/4	3/4	160,094	3/4	149,338	3/4	137,905	3/4	126,472	3/4	115,039	3/4	103,606	3/4	92,174	3/4	80,741	3/4	69,308	3/4
1	1	160,035	1	149,100	1	137,667	1	126,234	1	114,801	1	103,368	1	91,935	1	80,502	1	69,070	1
1/4	1/4	159,896	1/4	148,861	1/4	137,429	1/4	125,996	1/4	114,563	1/4	103,130	1/4	91,697	1/4	80,264	1/4	68,831	1/4
1/2	1/2	159,757	1/2	148,623	1/2	137,190	1/2	125,758	1/2	114,325	1/2	102,892	1/2	91,459	1/2	80,026	1/2	68,593	1/2
3/4	3/4	159,618	3/4	148,385	3/4	136,952	3/4	125,519	3/4	114,087	3/4	102,654	3/4	91,221	3/4	79,788	3/4	68,355	3/4
2	2	159,479	2	148,147	2	136,714	2	125,281	2	113,848	2	102,415	2	90,983	2	79,550	2	68,117	2
1/4	1/4	159,264	1/4	147,909	1/4	136,476	1/4	125,043	1/4	113,610	1/4	102,177	1/4	90,744	1/4	79,312	1/4	67,879	1/4
1/2	1/2	159,049	1/2	147,671	1/2	136,238	1/2	124,805	1/2	113,372	1/2	101,939	1/2	90,506	1/2	79,073	1/2	67,641	1/2
3/4	3/4	158,834	3/4	147,432	3/4	135,999	3/4	124,567	3/4	113,134	3/4	101,701	3/4	90,268	3/4	78,835	3/4	67,403	3/4
3	3	158,619	3	147,194	3	135,761	3	124,328	3	112,896	3	101,463	3	90,030	3	78,597	3	67,164	3
1/4	1/4	158,383	1/4	146,956	1/4	135,523	1/4	124,090	1/4	112,657	1/4	101,225	1/4	89,792	1/4	78,359	1/4	66,926	1/4
1/2	1/2	158,146	1/2	146,718	1/2	135,285	1/2	123,852	1/2	112,419	1/2	100,986	1/2	89,553	1/2	78,121	1/2	66,688	1/2
3/4	3/4	157,909	3/4	146,480	3/4	135,047	3/4	123,614	3/4	112,181	3/4	100,748	3/4	89,315	3/4	77,882	3/4	66,450	3/4
4	4	157,673	4	146,241	4	134,809	4	123,376	4	111,943	4	100,510	4	89,077	4	77,644	4	66,211	4
1/4	1/4	157,435	1/4	146,003	1/4	134,570	1/4	123,138	1/4	111,705	1/4	100,272	1/4	88,839	1/4	77,406	1/4	65,973	1/4
1/2	1/2	157,197	1/2	145,765	1/2	134,332	1/2	122,899	1/2	111,466	1/2	100,034	1/2	88,601	1/2	77,168	1/2	65,735	1/2
3/4	3/4	156,959	3/4	145,527	3/4	134,094	3/4	122,661	3/4	111,228	3/4	99,795	3/4	88,363	3/4	76,930	3/4	65,497	3/4
5	5	156,721	5	145,289	5	133,856	5	122,423	5	110,990	5	99,557	5	88,124	5	76,692	5	65,259	5
1/4	1/4	156,483	1/4	145,051	1/4	133,618	1/4	122,185	1/4	110,752	1/4	99,319	1/4	87,886	1/4	76,453	1/4	65,020	1/4
1/2	1/2	156,245	1/2	144,812	1/2	133,379	1/2	121,947	1/2	110,514	1/2	99,081	1/2	87,648	1/2	76,215	1/2	64,782	1/2
3/4	3/4	156,007	3/4	144,574	3/4	133,141	3/4	121,708	3/4	110,276	3/4	98,843	3/4	87,410	3/4	75,977	3/4	64,544	3/4
6	6	155,769	6	144,336	6	132,903	6	121,470	6	110,037	6	98,605	6	87,172	6	75,739	6	64,306	6
1/4	1/4	155,531	1/4	144,098	1/4	132,665	1/4	121,232	1/4	109,799	1/4	98,366	1/4	86,933	1/4	75,501	1/4	64,068	1/4
1/2	1/2	155,292	1/2	143,860	1/2	132,427	1/2	120,994	1/2	109,561	1/2	98,128	1/2	86,695	1/2	75,262	1/2	63,830	1/2
3/4	3/4	155,054	3/4	143,621	3/4	132,189	3/4	120,756	3/4	109,323	3/4	97,890	3/4	86,457	3/4	75,024	3/4	63,591	3/4
7	7	154,816	7	143,383	7	131,950	7	120,517	7	109,085	7	97,652	7	86,219	7	74,786	7	63,353	7
1/4	1/4	154,578	1/4	143,145	1/4	131,712	1/4	120,279	1/4	108,846	1/4	97,414	1/4	85,981	1/4	74,548	1/4	63,115	1/4
1/2	1/2	154,340	1/2	142,907	1/2	131,474	1/2	120,041	1/2	108,608	1/2	97,175	1/2	85,743	1/2	74,310	1/2	62,877	1/2
3/4	3/4	154,102	3/4	142,669	3/4	131,236	3/4	119,803	3/4	108,370	3/4	96,937	3/4	85,504	3/4	74,071	3/4	62,639	3/4
8	8	153,863	8	142,430	8	130,998	8	119,565	8	108,132	8	96,699	8	85,266	8	73,833	8	62,400	8
1/4	1/4	153,625	1/4	142,192	1/4	130,759	1/4	119,327	1/4	107,894	1/4	96,461	1/4	85,028	1/4	73,595	1/4	62,162	1/4
1/2	1/2	153,387	1/2	141,954	1/2	130,521	1/2	119,088	1/2	107,656	1/2	96,223	1/2	84,790	1/2	73,357	1/2	61,924	1/2
3/4	3/4	153,149	3/4	141,716	3/4	130,283	3/4	118,850	3/4	107,417	3/4	95,984	3/4	84,552	3/4	73,119	3/4	61,686	3/4
9	9	152,911	9	141,478	9	130,045	9	118,612	9	107,179	9	95,746	9	84,313	9	72,881	9	61,448	9
1/4	1/4	152,672	1/4	141,240	1/4	129,807	1/4	118,374	1/4	106,941	1/4	95,508	1/4	84,075	1/4	72,642	1/4	61,210	1/4
1/2	1/2	152,434	1/2	141,001	1/2	129,569	1/2	118,136	1/2	106,703	1/2	95,270	1/2	83,837	1/2	72,404	1/2	60,971	1/2
3/4	3/4	152,196	3/4	140,763	3/4	129,330	3/4	117,897	3/4	106,465	3/4	95,032	3/4	83,599	3/4	72,166	3/4	60,733	3/4
10	10	151,958	10	140,525	10	129,092	10	117,659	10	106,226	10	94,794	10	83,361	10	71,928	10	60,495	10
1/4	1/4	151,720	1/4	140,287	1/4	128,854	1/4	117,421	1/4	105,988	1/4	94,555	1/4	83,123	1/4	71,690	1/4	60,257	1/4
1/2	1/2	151,481	1/2	140,049	1/2	128,616	1/2	117,183	1/2	105,750	1/2	94,317	1/2	82,884	1/2	71,451	1/2	60,019	1/2
3/4	3/4	151,243	3/4	139,810	3/4	128,378	3/4	116,945	3/4	105,512	3/4	94,079	3/4	82,646	3/4	71,213	3/4	59,780	3/4
11	11	151,005	11	139,572	11	128,139	11	116,707	11	105,274	11	93,841	11	82,408	11	70,975	11	59,542	11
1/4	1/4	150,767	1/4	139,334	1/4	127,901	1/4	116,468	1/4	105,035	1/4	93,603	1/4	82,170	1/4	70,737	1/4	59,304	1/4
1/2	1/2	150,529	1/2	139,096	1/2	127,663	1/2	116,230	1/2	104,797	1/2	93,364	1/2	81,932	1/2	70,499	1/2	59,066	1/2
3/4	3/4	150,291	3/4	138,858	3/4	127,425	3/4	115,992	3/4	104,559	3/4	93,126	3/4	81,693	3/4	70,261	3/4	58,828	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH WPM'S CHAPTER 27.

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 31'-03" FORWARD OF AFT BULKHEAD.

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# BARGE "IB 1970"

# 3 CENTER ULLAGE TABLE

GAUGE HEIGHT 15'-03"

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	58,589	0	47,157	0	35,725	0	24,309	0	12,876	0	1,455	0	0	0	0	0	0	0	0
1/4	58,351	1/4	46,918	1/4	35,488	1/4	24,071	1/4	12,638	1/4	1,257	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	58,113	1/2	46,680	1/2	35,250	1/2	23,832	1/2	12,400	1/2	1,058	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	57,875	3/4	46,442	3/4	35,012	3/4	23,594	3/4	12,162	3/4	860	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	57,637	1	46,204	1	34,774	1	23,356	1	11,924	1	661	1	1	1	1	1	1	1	1
1/4	57,399	1/4	45,966	1/4	34,536	1/4	23,118	1/4	11,685	1/4	542	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	57,160	1/2	45,728	1/2	34,299	1/2	22,880	1/2	11,447	1/2	423	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	56,922	3/4	45,489	3/4	34,061	3/4	22,641	3/4	11,209	3/4	304	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	56,684	2	45,251	2	33,823	2	22,403	2	10,971	2	185	2	2	2	2	2	2	2	2
1/4	56,446	1/4	45,013	1/4	33,586	1/4	22,165	1/4	10,733	1/4	145	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	56,208	1/2	44,775	1/2	33,348	1/2	21,927	1/2	10,495	1/2	106	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,969	3/4	44,537	3/4	33,110	3/4	21,689	3/4	10,256	3/4	66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	55,731	3	44,298	3	32,872	3	21,451	3	10,018	3	26	3	3	3	3	3	3	3	3
1/4	55,493	1/4	44,060	1/4	32,635	1/4	21,212	1/4	9,780	1/4	11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	55,255	1/2	43,822	1/2	32,397	1/2	20,974	1/2	9,542	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	55,017	3/4	43,584	3/4	32,159	3/4	20,736	3/4	9,304	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	54,779	4	43,346	4	31,921	4	20,498	4	9,065	4	1	4	4	4	4	4	4	4	4
1/4	54,540	1/4	43,107	1/4	31,684	1/4	20,260	1/4	8,827	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	54,302	1/2	42,869	1/2	31,446	1/2	20,022	1/2	8,589	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	54,064	3/4	42,631	3/4	31,208	3/4	19,783	3/4	8,351	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	53,826	5	42,393	5	30,970	5	19,545	5	8,113	5	1	5	5	5	5	5	5	5	5
1/4	53,588	1/4	42,155	1/4	30,733	1/4	19,307	1/4	7,875	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	53,349	1/2	41,917	1/2	30,495	1/2	19,069	1/2	7,636	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53,111	3/4	41,678	3/4	30,257	3/4	18,831	3/4	7,398	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	52,873	6	41,440	6	30,020	6	18,592	6	7,160	6	1	6	6	6	6	6	6	6	6
1/4	52,635	1/4	41,202	1/4	29,782	1/4	18,354	1/4	6,922	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	52,397	1/2	40,964	1/2	29,544	1/2	18,116	1/2	6,684	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	52,159	3/4	40,726	3/4	29,306	3/4	17,878	3/4	6,446	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	51,920	7	40,487	7	29,069	7	17,640	7	6,208	7	1	7	7	7	7	7	7	7	7
1/4	51,682	1/4	40,249	1/4	28,831	1/4	17,402	1/4	5,969	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	51,444	1/2	40,011	1/2	28,593	1/2	17,163	1/2	5,731	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	51,206	3/4	39,773	3/4	28,355	3/4	16,925	3/4	5,493	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	50,968	8	39,535	8	28,118	8	16,687	8	5,255	8	1	8	8	8	8	8	8	8	8
1/4	50,729	1/4	39,297	1/4	27,880	1/4	16,449	1/4	5,017	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50,491	1/2	39,058	1/2	27,642	1/2	16,211	1/2	4,778	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	50,253	3/4	38,820	3/4	27,405	3/4	15,973	3/4	4,540	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	50,015	9	38,582	9	27,167	9	15,734	9	4,302	9	1	9	9	9	9	9	9	9	9
1/4	49,777	1/4	38,344	1/4	26,929	1/4	15,496	1/4	4,064	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	49,538	1/2	38,106	1/2	26,690	1/2	15,258	1/2	3,826	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	49,300	3/4	37,867	3/4	26,452	3/4	15,020	3/4	3,588	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	49,062	10	37,629	10	26,214	10	14,782	10	3,350	10	1	10	10	10	10	10	10	10	10
1/4	48,824	1/4	37,391	1/4	25,976	1/4	14,544	1/4	3,112	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	48,586	1/2	37,153	1/2	25,738	1/2	14,305	1/2	2,875	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	48,348	3/4	36,915	3/4	25,500	3/4	14,067	3/4	2,637	3/4	1	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	48,109	11	36,677	11	25,261	11	13,829	11	2,399	11	1	11	11	11	11	11	11	11	11
1/4	47,871	1/4	36,439	1/4	25,023	1/4	13,591	1/4	2,163	1/4	1	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	47,633	1/2	36,201	1/2	24,785	1/2	13,353	1/2	1,927	1/2	1	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	47,395	3/4	35,963	3/4	24,547	3/4	13,114	3/4	1,691	3/4	1	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: 05/05/2016 CL  
 CALCULATED: 05/05/2016 CL  
 PRINTED: 05/05/2016 JS  
 CANCELS AND SUPERCEDES  
 ALL PRIOR TO 05/2016

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