



BARGE "IB 1948"

INNAGE 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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00	- 00
2 CENTER	- 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	- 00-4/8	00-4/8
3 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-2/8	00-2/8	- 00-1/2	00-1/2

(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 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 182'-06"

October 24, 2013

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



BARGE "IB 1948"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	94	0	11,721	0	24,662	0	37,440	0	50,284	0	63,218	0	76,135	0	89,075	0	102,016	0	114,956
1/4	173	1/4	11,991	1/4	24,932	1/4	37,703	1/4	50,554	1/4	63,487	1/4	76,405	1/4	89,345	1/4	102,285	1/4	115,225
1/2	252	1/2	12,260	1/2	25,201	1/2	37,967	1/2	50,823	1/2	63,756	1/2	76,674	1/2	89,615	1/2	102,555	1/2	115,495
3/4	330	3/4	12,530	3/4	25,471	3/4	38,230	3/4	51,092	3/4	64,025	3/4	76,944	3/4	89,884	3/4	102,824	3/4	115,764
1	409	1	12,800	1	25,741	1	38,493	1	51,362	1	64,294	1	77,213	1	90,154	1	103,094	1	116,034
1/4	578	1/4	13,069	1/4	26,010	1/4	38,756	1/4	51,631	1/4	64,563	1/4	77,483	1/4	90,423	1/4	103,363	1/4	116,304
1/2	746	1/2	13,339	1/2	26,280	1/2	39,019	1/2	51,901	1/2	64,832	1/2	77,753	1/2	90,693	1/2	103,633	1/2	116,573
3/4	915	3/4	13,608	3/4	26,549	3/4	39,283	3/4	52,170	3/4	65,101	3/4	78,022	3/4	90,963	3/4	103,903	3/4	116,843
2	1,084	2	13,878	2	26,819	2	39,546	2	52,440	2	65,370	2	78,292	2	91,232	2	104,172	2	117,112
1/4	1,323	1/4	14,148	1/4	27,089	1/4	39,809	1/4	52,709	1/4	65,639	1/4	78,561	1/4	91,502	1/4	104,442	1/4	117,382
1/2	1,563	1/2	14,417	1/2	27,358	1/2	40,072	1/2	52,979	1/2	65,908	1/2	78,831	1/2	91,771	1/2	104,711	1/2	117,652
3/4	1,803	3/4	14,687	3/4	27,628	3/4	40,336	3/4	53,248	3/4	66,177	3/4	79,101	3/4	92,041	3/4	104,981	3/4	117,921
3	2,042	3	14,957	3	27,897	3	40,599	3	53,518	3	66,446	3	79,370	3	92,311	3	105,250	3	118,191
1/4	2,308	1/4	15,226	1/4	28,167	1/4	40,864	1/4	53,787	1/4	66,715	1/4	79,640	1/4	92,580	1/4	105,520	1/4	118,460
1/2	2,573	1/2	15,496	1/2	28,437	1/2	41,130	1/2	54,057	1/2	66,984	1/2	79,909	1/2	92,850	1/2	105,790	1/2	118,730
3/4	2,839	3/4	15,765	3/4	28,706	3/4	41,396	3/4	54,326	3/4	67,253	3/4	80,179	3/4	93,119	3/4	106,059	3/4	118,999
4	3,104	4	16,035	4	28,976	4	41,661	4	54,595	4	67,522	4	80,448	4	93,389	4	106,329	4	119,269
1/4	3,372	1/4	16,305	1/4	29,245	1/4	41,931	1/4	54,865	1/4	67,791	1/4	80,718	1/4	93,659	1/4	106,598	1/4	119,539
1/2	3,639	1/2	16,574	1/2	29,515	1/2	42,200	1/2	55,134	1/2	68,060	1/2	80,988	1/2	93,928	1/2	106,868	1/2	119,808
3/4	3,907	3/4	16,844	3/4	29,785	3/4	42,470	3/4	55,404	3/4	68,328	3/4	81,257	3/4	94,198	3/4	107,137	3/4	120,078
5	4,174	5	17,113	5	30,054	5	42,739	5	55,673	5	68,597	5	81,527	5	94,467	5	107,407	5	120,347
1/4	4,443	1/4	17,383	1/4	30,321	1/4	43,009	1/4	55,943	1/4	68,866	1/4	81,796	1/4	94,737	1/4	107,677	1/4	120,617
1/2	4,712	1/2	17,653	1/2	30,589	1/2	43,278	1/2	56,212	1/2	69,135	1/2	82,066	1/2	95,007	1/2	107,946	1/2	120,887
3/4	4,980	3/4	17,922	3/4	30,856	3/4	43,547	3/4	56,482	3/4	69,404	3/4	82,336	3/4	95,276	3/4	108,216	3/4	121,156
6	5,249	6	18,192	6	31,123	6	43,817	6	56,751	6	69,673	6	82,605	6	95,546	6	108,485	6	121,426
1/4	5,518	1/4	18,461	1/4	31,386	1/4	44,086	1/4	57,021	1/4	69,942	1/4	82,875	1/4	95,815	1/4	108,755	1/4	121,695
1/2	5,788	1/2	18,731	1/2	31,650	1/2	44,356	1/2	57,290	1/2	70,211	1/2	83,144	1/2	96,085	1/2	109,025	1/2	121,965
3/4	6,057	3/4	19,001	3/4	31,913	3/4	44,625	3/4	57,560	3/4	70,480	3/4	83,414	3/4	96,354	3/4	109,294	3/4	122,235
7	6,327	7	19,270	7	32,176	7	44,895	7	57,829	7	70,749	7	83,684	7	96,624	7	109,564	7	122,504
1/4	6,596	1/4	19,540	1/4	32,439	1/4	45,164	1/4	58,099	1/4	71,018	1/4	83,953	1/4	96,894	1/4	109,833	1/4	122,774
1/2	6,866	1/2	19,809	1/2	32,702	1/2	45,434	1/2	58,368	1/2	71,287	1/2	84,223	1/2	97,163	1/2	110,103	1/2	123,043
3/4	7,136	3/4	20,079	3/4	32,966	3/4	45,703	3/4	58,637	3/4	71,556	3/4	84,492	3/4	97,433	3/4	110,372	3/4	123,313
8	7,405	8	20,349	8	33,229	8	45,973	8	58,907	8	71,825	8	84,762	8	97,702	8	110,642	8	123,583
1/4	7,675	1/4	20,618	1/4	33,492	1/4	46,242	1/4	59,176	1/4	72,094	1/4	85,032	1/4	97,972	1/4	110,912	1/4	123,852
1/2	7,945	1/2	20,888	1/2	33,755	1/2	46,512	1/2	59,446	1/2	72,363	1/2	85,301	1/2	98,242	1/2	111,181	1/2	124,122
3/4	8,214	3/4	21,157	3/4	34,018	3/4	46,781	3/4	59,715	3/4	72,632	3/4	85,571	3/4	98,511	3/4	111,451	3/4	124,391
9	8,484	9	21,427	9	34,282	9	47,050	9	59,985	9	72,901	9	85,840	9	98,781	9	111,720	9	124,661
1/4	8,754	1/4	21,697	1/4	34,545	1/4	47,320	1/4	60,254	1/4	73,171	1/4	86,110	1/4	99,050	1/4	111,990	1/4	124,904
1/2	9,024	1/2	21,966	1/2	34,808	1/2	47,589	1/2	60,524	1/2	73,440	1/2	86,380	1/2	99,320	1/2	112,260	1/2	125,147
3/4	9,294	3/4	22,236	3/4	35,071	3/4	47,859	3/4	60,793	3/4	73,709	3/4	86,649	3/4	99,590	3/4	112,529	3/4	125,390
10	9,564	10	22,505	10	35,334	10	48,128	10	61,063	10	73,978	10	86,919	10	99,859	10	112,799	10	125,633
1/4	9,833	1/4	22,775	1/4	35,598	1/4	48,398	1/4	61,332	1/4	74,248	1/4	87,188	1/4	100,129	1/4	113,068	1/4	125,832
1/2	10,103	1/2	23,045	1/2	35,861	1/2	48,667	1/2	61,602	1/2	74,517	1/2	87,458	1/2	100,398	1/2	113,338	1/2	126,031
3/4	10,373	3/4	23,314	3/4	36,124	3/4	48,937	3/4	61,871	3/4	74,787	3/4	87,728	3/4	100,668	3/4	113,608	3/4	126,230
11	10,643	11	23,584	11	36,387	11	49,206	11	62,140	11	75,057	11	87,997	11	100,937	11	113,877	11	126,429
1/4	10,912	1/4	23,853	1/4	36,651	1/4	49,476	1/4	62,410	1/4	75,326	1/4	88,267	1/4	101,207	1/4	114,147	1/4	126,628
1/2	11,182	1/2	24,123	1/2	36,914	1/2	49,745	1/2	62,679	1/2	75,596	1/2	88,536	1/2	101,476	1/2	114,416	1/2	126,827
3/4	11,452	3/4	24,393	3/4	37,177	3/4	50,015	3/4	62,948	3/4	75,865	3/4	88,806	3/4	101,746	3/4	114,686	3/4	127,027

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 30'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "IB 1948"

1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	127,226	0	136,791	0	146,357	0	155,922	0		0		0		0		0		0	
1/4	127,425	1/4	136,991	1/4	146,556	1/4	156,121	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	127,625	1/2	137,190	1/2	146,755	1/2	156,320	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	127,824	3/4	137,389	3/4	146,954	3/4	156,519	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	128,023	1	137,588	1	147,154	1	156,719	1	1	1	1	1	1	1	1	1	1	1	1
1/4	128,222	1/4	137,788	1/4	147,353	1/4	156,917	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	128,422	1/2	137,987	1/2	147,552	1/2	157,116	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	128,621	3/4	138,186	3/4	147,751	3/4	157,314	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	128,820	2	138,386	2	147,951	2	157,513	2	2	2	2	2	2	2	2	2	2	2	2
1/4	129,020	1/4	138,585	1/4	148,150	1/4	157,707	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	129,219	1/2	138,784	1/2	148,349	1/2	157,901	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	129,418	3/4	138,983	3/4	148,549	3/4	158,094	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	129,617	3	139,183	3	148,748	3	158,288	3	3	3	3	3	3	3	3	3	3	3	3
1/4	129,817	1/4	139,382	1/4	148,947	1/4	158,486	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	130,016	1/2	139,581	1/2	149,146	1/2	158,683	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	130,215	3/4	139,780	3/4	149,346	3/4	158,881	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	130,414	4	139,980	4	149,545	4	158,918	4	4	4	4	4	4	4	4	4	4	4	4
1/4	130,614	1/4	140,179	1/4	149,744	1/4	158,994	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	130,813	1/2	140,378	1/2	149,944	1/2	159,069	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	131,012	3/4	140,578	3/4	150,143	3/4	159,145	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	131,212	5	140,777	5	150,342	5	159,220	5	5	5	5	5	5	5	5	5	5	5	5
1/4	131,411	1/4	140,976	1/4	150,541	1/4	159,241	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	131,610	1/2	141,175	1/2	150,741	1/2	159,261	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	131,809	3/4	141,375	3/4	150,940	3/4	159,282	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	132,009	6	141,574	6	151,139	6	159,302	6	6	6	6	6	6	6	6	6	6	6	6
1/4	132,208	1/4	141,773	1/4	151,338	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	132,407	1/2	141,972	1/2	151,538	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	132,606	3/4	142,172	3/4	151,737	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	132,806	7	142,371	7	151,936	7		7	7	7	7	7	7	7	7	7	7	7	7
1/4	133,005	1/4	142,570	1/4	152,136	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	133,204	1/2	142,770	1/2	152,335	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	133,404	3/4	142,969	3/4	152,534	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	133,603	8	143,168	8	152,733	8		8	8	8	8	8	8	8	8	8	8	8	8
1/4	133,802	1/4	143,367	1/4	152,933	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	134,001	1/2	143,567	1/2	153,132	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	134,201	3/4	143,766	3/4	153,331	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	134,400	9	143,965	9	153,531	9		9	9	9	9	9	9	9	9	9	9	9	9
1/4	134,599	1/4	144,165	1/4	153,730	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	134,799	1/2	144,364	1/2	153,929	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	134,998	3/4	144,563	3/4	154,128	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	135,197	10	144,762	10	154,328	10		10	10	10	10	10	10	10	10	10	10	10	10
1/4	135,396	1/4	144,962	1/4	154,527	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	135,596	1/2	145,161	1/2	154,726	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	135,795	3/4	145,360	3/4	154,925	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
11	135,994	11	145,559	11	155,125	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	136,193	1/4	145,759	1/4	155,324	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	136,393	1/2	145,958	1/2	155,523	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	136,592	3/4	146,157	3/4	155,723	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: 10/24/2013 CL
CALCULATED: 10/24/2013 CL
PRINTED: 10/24/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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



BARGE "IB 1948"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 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	91	0	11,262	0	23,711	0	35,999	0	48,357	0	60,807	0	73,256	0	85,705	0	98,155	0	110,604
1/4	167	1/4	11,521	1/4	23,970	1/4	36,252	1/4	48,617	1/4	61,066	1/4	73,515	1/4	85,965	1/4	98,414	1/4	110,863
1/2	242	1/2	11,781	1/2	24,230	1/2	36,505	1/2	48,876	1/2	61,325	1/2	73,775	1/2	86,224	1/2	98,673	1/2	111,123
3/4	318	3/4	12,040	3/4	24,489	3/4	36,758	3/4	49,135	3/4	61,585	3/4	74,034	3/4	86,483	3/4	98,933	3/4	111,382
1	394	1	12,299	1	24,748	1	37,011	1	49,395	1	61,844	1	74,293	1	86,743	1	99,192	1	111,641
1/4	556	1/4	12,559	1/4	25,008	1/4	37,264	1/4	49,654	1/4	62,103	1/4	74,553	1/4	87,002	1/4	99,451	1/4	111,901
1/2	718	1/2	12,818	1/2	25,267	1/2	37,517	1/2	49,913	1/2	62,363	1/2	74,812	1/2	87,261	1/2	99,711	1/2	112,160
3/4	880	3/4	13,078	3/4	25,526	3/4	37,770	3/4	50,173	3/4	62,622	3/4	75,071	3/4	87,521	3/4	99,970	3/4	112,419
2	1,042	2	13,337	2	25,786	2	38,024	2	50,432	2	62,882	2	75,331	2	87,780	2	100,229	2	112,679
1/4	1,272	1/4	13,596	1/4	26,045	1/4	38,277	1/4	50,692	1/4	63,141	1/4	75,590	1/4	88,040	1/4	100,489	1/4	112,938
1/2	1,502	1/2	13,856	1/2	26,304	1/2	38,530	1/2	50,951	1/2	63,400	1/2	75,850	1/2	88,299	1/2	100,748	1/2	113,198
3/4	1,732	3/4	14,115	3/4	26,564	3/4	38,783	3/4	51,210	3/4	63,660	3/4	76,109	3/4	88,558	3/4	101,008	3/4	113,457
3	1,962	3	14,374	3	26,823	3	39,036	3	51,470	3	63,919	3	76,368	3	88,818	3	101,267	3	113,716
1/4	2,217	1/4	14,634	1/4	27,083	1/4	39,291	1/4	51,729	1/4	64,178	1/4	76,628	1/4	89,077	1/4	101,526	1/4	113,976
1/2	2,472	1/2	14,893	1/2	27,342	1/2	39,547	1/2	51,988	1/2	64,438	1/2	76,887	1/2	89,336	1/2	101,786	1/2	114,235
3/4	2,726	3/4	15,152	3/4	27,601	3/4	39,802	3/4	52,248	3/4	64,697	3/4	77,146	3/4	89,596	3/4	102,045	3/4	114,494
4	2,981	4	15,412	4	27,861	4	40,058	4	52,507	4	64,956	4	77,406	4	89,855	4	102,304	4	114,754
1/4	3,238	1/4	15,671	1/4	28,120	1/4	40,317	1/4	52,766	1/4	65,216	1/4	77,665	1/4	90,114	1/4	102,564	1/4	115,013
1/2	3,495	1/2	15,930	1/2	28,379	1/2	40,576	1/2	53,026	1/2	65,475	1/2	77,924	1/2	90,374	1/2	102,823	1/2	115,272
3/4	3,752	3/4	16,190	3/4	28,639	3/4	40,836	3/4	53,285	3/4	65,734	3/4	78,184	3/4	90,633	3/4	103,082	3/4	115,532
5	4,009	5	16,449	5	28,898	5	41,095	5	53,545	5	65,994	5	78,443	5	90,892	5	103,342	5	115,791
1/4	4,267	1/4	16,708	1/4	29,155	1/4	41,355	1/4	53,804	1/4	66,253	1/4	78,703	1/4	91,152	1/4	103,601	1/4	116,050
1/2	4,525	1/2	16,968	1/2	29,412	1/2	41,614	1/2	54,063	1/2	66,513	1/2	78,962	1/2	91,411	1/2	103,861	1/2	116,310
3/4	4,783	3/4	17,227	3/4	29,669	3/4	41,873	3/4	54,323	3/4	66,772	3/4	79,221	3/4	91,671	3/4	104,120	3/4	116,569
6	5,041	6	17,486	6	29,926	6	42,133	6	54,582	6	67,031	6	79,481	6	91,930	6	104,379	6	116,829
1/4	5,300	1/4	17,746	1/4	30,179	1/4	42,392	1/4	54,841	1/4	67,291	1/4	79,740	1/4	92,189	1/4	104,639	1/4	117,088
1/2	5,558	1/2	18,005	1/2	30,432	1/2	42,651	1/2	55,101	1/2	67,550	1/2	79,999	1/2	92,449	1/2	104,898	1/2	117,347
3/4	5,817	3/4	18,265	3/4	30,685	3/4	42,911	3/4	55,360	3/4	67,809	3/4	80,259	3/4	92,708	3/4	105,157	3/4	117,607
7	6,076	7	18,524	7	30,938	7	43,170	7	55,619	7	68,069	7	80,518	7	92,967	7	105,417	7	117,866
1/4	6,335	1/4	18,783	1/4	31,191	1/4	43,429	1/4	55,879	1/4	68,328	1/4	80,777	1/4	93,227	1/4	105,676	1/4	118,125
1/2	6,594	1/2	19,043	1/2	31,444	1/2	43,689	1/2	56,138	1/2	68,587	1/2	81,037	1/2	93,486	1/2	105,935	1/2	118,385
3/4	6,853	3/4	19,302	3/4	31,697	3/4	43,948	3/4	56,397	3/4	68,847	3/4	81,296	3/4	93,745	3/4	106,195	3/4	118,644
8	7,113	8	19,561	8	31,950	8	44,208	8	56,657	8	69,106	8	81,555	8	94,005	8	106,454	8	118,903
1/4	7,372	1/4	19,821	1/4	32,203	1/4	44,467	1/4	56,916	1/4	69,366	1/4	81,815	1/4	94,264	1/4	106,714	1/4	119,163
1/2	7,631	1/2	20,080	1/2	32,456	1/2	44,726	1/2	57,176	1/2	69,625	1/2	82,074	1/2	94,524	1/2	106,973	1/2	119,422
3/4	7,891	3/4	20,339	3/4	32,709	3/4	44,986	3/4	57,435	3/4	69,884	3/4	82,334	3/4	94,783	3/4	107,232	3/4	119,682
9	8,150	9	20,599	9	32,962	9	45,245	9	57,694	9	70,144	9	82,593	9	95,042	9	107,492	9	119,941
1/4	8,409	1/4	20,858	1/4	33,216	1/4	45,504	1/4	57,954	1/4	70,403	1/4	82,852	1/4	95,302	1/4	107,751	1/4	120,200
1/2	8,669	1/2	21,117	1/2	33,469	1/2	45,764	1/2	58,213	1/2	70,662	1/2	83,112	1/2	95,561	1/2	108,010	1/2	120,460
3/4	8,928	3/4	21,377	3/4	33,722	3/4	46,023	3/4	58,472	3/4	70,922	3/4	83,371	3/4	95,820	3/4	108,270	3/4	120,719
10	9,187	10	21,636	10	33,975	10	46,282	10	58,732	10	71,181	10	83,630	10	96,080	10	108,529	10	120,978
1/4	9,447	1/4	21,895	1/4	34,228	1/4	46,542	1/4	58,991	1/4	71,440	1/4	83,890	1/4	96,339	1/4	108,788	1/4	121,238
1/2	9,706	1/2	22,155	1/2	34,481	1/2	46,801	1/2	59,250	1/2	71,700	1/2	84,149	1/2	96,598	1/2	109,048	1/2	121,497
3/4	9,965	3/4	22,414	3/4	34,734	3/4	47,060	3/4	59,510	3/4	71,959	3/4	84,408	3/4	96,858	3/4	109,307	3/4	121,756
11	10,225	11	22,674	11	34,987	11	47,320	11	59,769	11	72,219	11	84,668	11	97,117	11	109,566	11	122,016
1/4	10,484	1/4	22,933	1/4	35,240	1/4	47,579	1/4	60,029	1/4	72,478	1/4	84,927	1/4	97,377	1/4	109,826	1/4	122,275
1/2	10,743	1/2	23,192	1/2	35,493	1/2	47,839	1/2	60,288	1/2	72,737	1/2	85,187	1/2	97,636	1/2	110,085	1/2	122,535
3/4	11,003	3/4	23,452	3/4	35,746	3/4	48,098	3/4	60,547	3/4	72,997	3/4	85,446	3/4	97,895	3/4	110,345	3/4	122,794

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 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "IB 1948"

2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-05 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	123,053	0	135,503	0	147,952	0	160,401	0		0		0		0		0		0	
1/4	123,313	1/4	135,762	1/4	148,211	1/4	160,660	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	123,572	1/2	136,021	1/2	148,471	1/2	160,920	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	123,831	3/4	136,281	3/4	148,730	3/4	161,179	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	124,091	1	136,540	1	148,989	1	161,438	1	1	1	1	1	1	1	1	1	1	1	1
1/4	124,350	1/4	136,799	1/4	149,249	1/4	161,697	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	124,609	1/2	137,059	1/2	149,508	1/2	161,956	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	124,869	3/4	137,318	3/4	149,767	3/4	162,215	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	125,128	2	137,577	2	150,027	2	162,473	2	2	2	2	2	2	2	2	2	2	2	2
1/4	125,387	1/4	137,837	1/4	150,286	1/4	162,727	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	125,647	1/2	138,096	1/2	150,545	1/2	162,981	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	125,906	3/4	138,356	3/4	150,805	3/4	163,235	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	126,166	3	138,615	3	151,064	3	163,489	3	3	3	3	3	3	3	3	3	3	3	3
1/4	126,425	1/4	138,874	1/4	151,324	1/4	163,709	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	126,684	1/2	139,134	1/2	151,583	1/2	163,928	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	126,944	3/4	139,393	3/4	151,842	3/4	164,147	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	127,203	4	139,652	4	152,102	4	164,367	4	4	4	4	4	4	4	4	4	4	4	4
1/4	127,462	1/4	139,912	1/4	152,361	1/4	164,507	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	127,722	1/2	140,171	1/2	152,620	1/2	164,648	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	127,981	3/4	140,430	3/4	152,880	3/4	164,788	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	128,240	5	140,690	5	153,139	5	164,929	5	5	5	5	5	5	5	5	5	5	5	5
1/4	128,500	1/4	140,949	1/4	153,398	1/4	164,991	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	128,759	1/2	141,209	1/2	153,658	1/2	165,053	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	129,019	3/4	141,468	3/4	153,917	3/4	165,115	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	129,278	6	141,727	6	154,177	6	165,177	6	6	6	6	6	6	6	6	6	6	6	6
1/4	129,537	1/4	141,987	1/4	154,436	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	129,797	1/2	142,246	1/2	154,695	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	130,056	3/4	142,505	3/4	154,955	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	130,315	7	142,765	7	155,214	7		7	7	7	7	7	7	7	7	7	7	7	7
1/4	130,575	1/4	143,024	1/4	155,473	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	130,834	1/2	143,283	1/2	155,733	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	131,093	3/4	143,543	3/4	155,992	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	131,353	8	143,802	8	156,251	8		8	8	8	8	8	8	8	8	8	8	8	8
1/4	131,612	1/4	144,061	1/4	156,511	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	131,872	1/2	144,321	1/2	156,770	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	132,131	3/4	144,580	3/4	157,030	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	132,390	9	144,840	9	157,289	9		9	9	9	9	9	9	9	9	9	9	9	9
1/4	132,650	1/4	145,099	1/4	157,548	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	132,909	1/2	145,358	1/2	157,808	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	133,168	3/4	145,618	3/4	158,067	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	133,428	10	145,877	10	158,326	10		10	10	10	10	10	10	10	10	10	10	10	10
1/4	133,687	1/4	146,136	1/4	158,586	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	133,946	1/2	146,396	1/2	158,845	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	134,206	3/4	146,655	3/4	159,104	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	134,465	11	146,914	11	159,364	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	134,724	1/4	147,174	1/4	159,623	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	134,984	1/2	147,433	1/2	159,882	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	135,243	3/4	147,693	3/4	160,142	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.

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ALL PRIOR TO 10/2013

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BARGE "IB 1948"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	91	0	11,178	0	23,534	0	35,878	0	48,229	0	60,585	0	72,941	0	85,298	0	97,654	0	110,010
1/4	166	1/4	11,435	1/4	23,791	1/4	36,135	1/4	48,486	1/4	60,842	1/4	73,199	1/4	85,555	1/4	97,911	1/4	110,268
1/2	241	1/2	11,693	1/2	24,049	1/2	36,392	1/2	48,743	1/2	61,100	1/2	73,456	1/2	85,812	1/2	98,169	1/2	110,525
3/4	316	3/4	11,950	3/4	24,306	3/4	36,649	3/4	49,001	3/4	61,357	3/4	73,714	3/4	86,070	3/4	98,426	3/4	110,782
1	391	1	12,208	1	24,564	1	36,906	1	49,258	1	61,615	1	73,971	1	86,327	1	98,684	1	111,040
1/4	552	1/4	12,465	1/4	24,821	1/4	37,163	1/4	49,516	1/4	61,872	1/4	74,228	1/4	86,585	1/4	98,941	1/4	111,297
1/2	712	1/2	12,723	1/2	25,078	1/2	37,420	1/2	49,773	1/2	62,129	1/2	74,486	1/2	86,842	1/2	99,198	1/2	111,555
3/4	873	3/4	12,980	3/4	25,336	3/4	37,677	3/4	50,031	3/4	62,387	3/4	74,743	3/4	87,100	3/4	99,456	3/4	111,812
2	1,034	2	13,237	2	25,593	2	37,934	2	50,288	2	62,644	2	75,001	2	87,357	2	99,713	2	112,070
1/4	1,262	1/4	13,495	1/4	25,851	1/4	38,191	1/4	50,545	1/4	62,902	1/4	75,258	1/4	87,614	1/4	99,971	1/4	112,327
1/2	1,491	1/2	13,752	1/2	26,108	1/2	38,448	1/2	50,803	1/2	63,159	1/2	75,515	1/2	87,872	1/2	100,228	1/2	112,584
3/4	1,719	3/4	14,010	3/4	26,365	3/4	38,705	3/4	51,060	3/4	63,417	3/4	75,773	3/4	88,129	3/4	100,486	3/4	112,842
3	1,947	3	14,267	3	26,623	3	38,962	3	51,318	3	63,674	3	76,030	3	88,387	3	100,743	3	113,099
1/4	2,200	1/4	14,524	1/4	26,880	1/4	39,220	1/4	51,575	1/4	63,931	1/4	76,288	1/4	88,644	1/4	101,000	1/4	113,357
1/2	2,453	1/2	14,782	1/2	27,138	1/2	39,477	1/2	51,833	1/2	64,189	1/2	76,545	1/2	88,901	1/2	101,258	1/2	113,614
3/4	2,706	3/4	15,039	3/4	27,395	3/4	39,734	3/4	52,090	3/4	64,446	3/4	76,803	3/4	89,159	3/4	101,515	3/4	113,872
4	2,959	4	15,297	4	27,653	4	39,991	4	52,347	4	64,704	4	77,060	4	89,416	4	101,773	4	114,129
1/4	3,214	1/4	15,554	1/4	27,910	1/4	40,249	1/4	52,605	1/4	64,961	1/4	77,317	1/4	89,674	1/4	102,030	1/4	114,386
1/2	3,469	1/2	15,812	1/2	28,167	1/2	40,506	1/2	52,862	1/2	65,219	1/2	77,575	1/2	89,931	1/2	102,287	1/2	114,644
3/4	3,724	3/4	16,069	3/4	28,425	3/4	40,763	3/4	53,120	3/4	65,476	3/4	77,832	3/4	90,189	3/4	102,545	3/4	114,901
5	3,979	5	16,326	5	28,682	5	41,021	5	53,377	5	65,733	5	78,090	5	90,446	5	102,802	5	115,159
1/4	4,235	1/4	16,584	1/4	28,939	1/4	41,278	1/4	53,635	1/4	65,991	1/4	78,347	1/4	90,703	1/4	103,060	1/4	115,416
1/2	4,491	1/2	16,841	1/2	29,197	1/2	41,536	1/2	53,892	1/2	66,248	1/2	78,605	1/2	90,961	1/2	103,317	1/2	115,673
3/4	4,747	3/4	17,099	3/4	29,454	3/4	41,793	3/4	54,149	3/4	66,506	3/4	78,862	3/4	91,218	3/4	103,575	3/4	115,931
6	5,003	6	17,356	6	29,711	6	42,050	6	54,407	6	66,763	6	79,119	6	91,476	6	103,832	6	116,188
1/4	5,260	1/4	17,613	1/4	29,968	1/4	42,308	1/4	54,664	1/4	67,021	1/4	79,377	1/4	91,733	1/4	104,089	1/4	116,446
1/2	5,517	1/2	17,871	1/2	30,225	1/2	42,565	1/2	54,922	1/2	67,278	1/2	79,634	1/2	91,991	1/2	104,347	1/2	116,703
3/4	5,774	3/4	18,128	3/4	30,482	3/4	42,823	3/4	55,179	3/4	67,535	3/4	79,892	3/4	92,248	3/4	104,604	3/4	116,961
7	6,031	7	18,386	7	30,739	7	43,080	7	55,436	7	67,793	7	80,149	7	92,505	7	104,862	7	117,218
1/4	6,288	1/4	18,643	1/4	30,996	1/4	43,338	1/4	55,694	1/4	68,050	1/4	80,407	1/4	92,763	1/4	105,119	1/4	117,475
1/2	6,545	1/2	18,900	1/2	31,253	1/2	43,595	1/2	55,951	1/2	68,308	1/2	80,664	1/2	93,020	1/2	105,377	1/2	117,733
3/4	6,802	3/4	19,158	3/4	31,510	3/4	43,852	3/4	56,209	3/4	68,565	3/4	80,921	3/4	93,278	3/4	105,634	3/4	117,990
8	7,060	8	19,415	8	31,767	8	44,110	8	56,466	8	68,822	8	81,179	8	93,535	8	105,891	8	118,248
1/4	7,317	1/4	19,673	1/4	32,024	1/4	44,367	1/4	56,724	1/4	69,080	1/4	81,436	1/4	93,793	1/4	106,149	1/4	118,505
1/2	7,574	1/2	19,930	1/2	32,281	1/2	44,625	1/2	56,981	1/2	69,337	1/2	81,694	1/2	94,050	1/2	106,406	1/2	118,763
3/4	7,832	3/4	20,188	3/4	32,538	3/4	44,882	3/4	57,238	3/4	69,595	3/4	81,951	3/4	94,307	3/4	106,664	3/4	119,020
9	8,089	9	20,445	9	32,795	9	45,140	9	57,496	9	69,852	9	82,208	9	94,565	9	106,921	9	119,277
1/4	8,347	1/4	20,702	1/4	33,052	1/4	45,397	1/4	57,753	1/4	70,110	1/4	82,466	1/4	94,822	1/4	107,179	1/4	119,535
1/2	8,604	1/2	20,960	1/2	33,309	1/2	45,654	1/2	58,011	1/2	70,367	1/2	82,723	1/2	95,080	1/2	107,436	1/2	119,792
3/4	8,861	3/4	21,217	3/4	33,566	3/4	45,912	3/4	58,268	3/4	70,624	3/4	82,981	3/4	95,337	3/4	107,693	3/4	120,050
10	9,119	10	21,475	10	33,823	10	46,169	10	58,526	10	70,882	10	83,238	10	95,594	10	107,951	10	120,307
1/4	9,376	1/4	21,732	1/4	34,080	1/4	46,427	1/4	58,783	1/4	71,139	1/4	83,496	1/4	95,852	1/4	108,208	1/4	120,565
1/2	9,634	1/2	21,989	1/2	34,337	1/2	46,684	1/2	59,040	1/2	71,397	1/2	83,753	1/2	96,109	1/2	108,466	1/2	120,822
3/4	9,891	3/4	22,247	3/4	34,594	3/4	46,942	3/4	59,298	3/4	71,654	3/4	84,010	3/4	96,367	3/4	108,723	3/4	121,079
11	10,148	11	22,504	11	34,851	11	47,199	11	59,555	11	71,912	11	84,268	11	96,624	11	108,980	11	121,337
1/4	10,406	1/4	22,762	1/4	35,108	1/4	47,456	1/4	59,813	1/4	72,169	1/4	84,525	1/4	96,882	1/4	109,238	1/4	121,594
1/2	10,663	1/2	23,019	1/2	35,365	1/2	47,714	1/2	60,070	1/2	72,426	1/2	84,783	1/2	97,139	1/2	109,495	1/2	121,852
3/4	10,921	3/4	23,277	3/4	35,621	3/4	47,971	3/4	60,328	3/4	72,684	3/4	85,040	3/4	97,396	3/4	109,753	3/4	122,109

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 30'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "IB 1948"

3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 14'-06"

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	122,366	0	134,723	0	147,079	0	159,435	0		0		0		0		0		0	
1/4	122,624	1/4	134,980	1/4	147,337	1/4	159,693	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	122,881	1/2	135,238	1/2	147,594	1/2	159,950	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	123,139	3/4	135,495	3/4	147,851	3/4	160,207	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	123,396	1	135,752	1	148,109	1	160,465	1	1	1	1	1	1	1	1	1	1	1	1
1/4	123,654	1/4	136,010	1/4	148,366	1/4	160,721	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	123,911	1/2	136,267	1/2	148,624	1/2	160,978	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	124,168	3/4	136,525	3/4	148,881	3/4	161,235	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	124,426	2	136,782	2	149,138	2	161,492	2	2	2	2	2	2	2	2	2	2	2	2
1/4	124,683	1/4	137,040	1/4	149,396	1/4	161,744	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	124,941	1/2	137,297	1/2	149,653	1/2	161,996	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	125,198	3/4	137,554	3/4	149,911	3/4	162,248	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	125,456	3	137,812	3	150,168	3	162,501	3	3	3	3	3	3	3	3	3	3	3	3
1/4	125,713	1/4	138,069	1/4	150,426	1/4	162,718	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	125,970	1/2	138,327	1/2	150,683	1/2	162,936	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	126,228	3/4	138,584	3/4	150,940	3/4	163,154	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	126,485	4	138,842	4	151,198	4	163,371	4	4	4	4	4	4	4	4	4	4	4	4
1/4	126,743	1/4	139,099	1/4	151,455	1/4	163,511	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	127,000	1/2	139,356	1/2	151,713	1/2	163,650	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	127,258	3/4	139,614	3/4	151,970	3/4	163,789	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	127,515	5	139,871	5	152,228	5	163,929	5	5	5	5	5	5	5	5	5	5	5	5
1/4	127,772	1/4	140,129	1/4	152,485	1/4	163,991	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	128,030	1/2	140,386	1/2	152,742	1/2	164,052	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	128,287	3/4	140,644	3/4	153,000	3/4	164,114	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	128,545	6	140,901	6	153,257	6	164,176	6	6	6	6	6	6	6	6	6	6	6	6
1/4	128,802	1/4	141,158	1/4	153,515	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	129,059	1/2	141,416	1/2	153,772	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	129,317	3/4	141,673	3/4	154,029	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	129,574	7	141,931	7	154,287	7		7	7	7	7	7	7	7	7	7	7	7	7
1/4	129,832	1/4	142,188	1/4	154,544	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	130,089	1/2	142,445	1/2	154,802	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	130,347	3/4	142,703	3/4	155,059	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	130,604	8	142,960	8	155,317	8		8	8	8	8	8	8	8	8	8	8	8	8
1/4	130,861	1/4	143,218	1/4	155,574	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	131,119	1/2	143,475	1/2	155,831	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	131,376	3/4	143,733	3/4	156,089	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	131,634	9	143,990	9	156,346	9		9	9	9	9	9	9	9	9	9	9	9	9
1/4	131,891	1/4	144,247	1/4	156,604	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	132,149	1/2	144,505	1/2	156,861	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	132,406	3/4	144,762	3/4	157,119	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	132,663	10	145,020	10	157,376	10		10	10	10	10	10	10	10	10	10	10	10	10
1/4	132,921	1/4	145,277	1/4	157,633	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	133,178	1/2	145,535	1/2	157,891	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	133,436	3/4	145,792	3/4	158,148	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	133,693	11	146,049	11	158,406	11		11	11	11	11	11	11	11	11	11	11	11	11
1/4	133,951	1/4	146,307	1/4	158,663	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	134,208	1/2	146,564	1/2	158,921	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	134,465	3/4	146,822	3/4	159,178	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.

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CALCULATED: 10/24/2013 CL
PRINTED: 10/24/2013 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2013

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