

#### **ULLAGE TRIM TABLE**

	1	FT.	2 F	FT.	3	FT.	4	FT.	5	FT.	6	FT.
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	STERN	BOW	STERN	BOW	STERN	<u>BOW</u>	STERN
1 PORT	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	00-1/8	- 00-1/8
1 STBD	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	00-1/8	- 00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

#### **EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

FWD. DRAFT = 1'-00" AFT DRAFT = 4'-00"

DIFF. = 3'-00'' (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

**LENGTH BETWEEN DRAFT MARKS: 238'-06"** 

February 5, 2012

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

http://www.pmacorp.net



### 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

**GAUGE HEIGHT 15'-10 1/4"** 

	TIES GIVEN IN WH																GAUGE HE		
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		0		0	205,678	0	190,749	0	175,780	0	160,769	0	145,756	0	130,743	0	115,730	0	100,714
1/4		1/4		1/4	205,369	1/4	190,437	1/4	175,468	1/4	160,457	1/4	145,444	1/4	130,430	1/4	115,417	1/4	100,401
1/2		1/2		1/2	205,059	1/2	190,125	1/2	175,155	1/2	160,144	1/2	145,131	1/2	130,118	1/2	115,105	1/2	100,088
3/4		3/4		3/4	204,749	3/4	189,813	3/4	174,843	3/4	159,831	3/4	144,818	3/4	129,805	3/4	114,792	3/4	99,776
1		1		1	204,439	1	189,501	1	174,531	1	159,518	1	144,505	1	129,492	1	114,479	1	99,463
1/4		1/4		1/4	204,130	1/4	189,190	1/4	174,219	1/4	159,205	1/4	144,192	1/4	129,179	1/4	114,166	1/4	99,150
1/2		1/2		1/2	203,820	1/2	188,878	1/2	173,906	1/2	158,893	1/2	143,880	1/2	128,867	1/2	113,854	1/2	98,837
3/4		3/4		3/4	203,510	3/4	188,566	3/4	173,593	3/4	158,580	3/4	143,567	3/4	128,554	3/4	113,541	3/4	98,524
2		2		2	203,200	2	188,254	2	173,280	2	158,267	2	143,254	2	128,241	2	113,228	2	98,211
1/4		1/4		1/4	202,890	1/4	187,942	1/4	172,967	1/4	157,954	1/4	142,941	1/4	127,928	1/4	112,915	1/4	97,898
1/2		1/2		1/2	202,580	1/2	187,630	1/2	172,655	1/2	157,642	1/2	142,629	1/2	127,616	1/2	112,602	1/2	97,585
3/4		3/4		3/4	202,271	3/4	187,318	3/4	172,342	3/4	157,329	3/4	142,316	3/4	127,303	3/4	112,290	3/4	97,272
3		3		3	201,961	3	187,007	3	172,029	3	157,016	3	142,003	3	126,990	3	111,977	3	96,959
1/4		1/4		1/4	201,651	1/4	186,695	1/4	171,716	1/4	156,703	1/4	141,690	1/4	126,677	1/4	111,664	1/4	96,646
1/2		1/2		1/2	201,341	1/2	186,383	1/2	171,404	1/2	156,391	1/2	141,377	1/2	126,364	1/2	111,351	1/2	96,334
3/4		3/4		3/4	201,032	3/4	186,071	3/4	171,091	3/4	156,078	3/4	141,065	3/4	126,052	3/4	111,039	3/4	96,021
4		4		4	201,032	4	185,759	4	170,778	4	155,765	4	140,752	4	125,739	4	110,726	4	95,708
1/4		1/4		1/4	200,722	1/4	185,447	1/4	170,776	1/4	155,765	1/4	140,439	1/4	125,426	1/4	110,720	1/4	95,700
1/4		1/4		1/4	200,412	1/4	185,135	1/4	170,463	1/4	155,139	1/4	140,126	1/4	125,113	1/4	110,100	1/4	95,082
		3/4		3/4	199,791	3/4	184,824		169,840	3/4	154,827	3/4	139,814	3/4	124,801	3/4	109,788	3/4	94,769
3/4 <b>5</b>		5		5	199,480	5	184,512	3/4 <b>5</b>	169,527	5	154,514	5	139,501	5	124,488	5	109,475	5	94,456
_		-		-				-		-		-		-		-		-	
1/4		1/4		1/4	199,169	1/4	184,200	1/4	169,214	1/4	154,201	1/4	139,188	1/4	124,175	1/4	109,162	1/4	94,143
1/2		1/2		1/2	198,857 198,545	1/2	183,888 183,576	1/2	168,901	1/2	153,888 153,576	1/2	138,875 138,563	1/2	123,862	1/2	108,849	1/2	93,830
3/4 <b>6</b>		3/4 <b>6</b>		3/4 <b>6</b>		3/4 <b>6</b>		3/4 <b>6</b>	168,589	3/4 <b>6</b>		3/4 <b>6</b>		3/4 <b>6</b>	123,549	3/4 <b>6</b>	108,536	3/4 <b>6</b>	93,517
_				-	198,234	_	183,264	$\vdash$	168,276	lacksquare	153,263	-	138,250	-	123,237	-	108,224	$oldsymbol{}$	93,204
1/4		1/4		1/4	197,922	1/4	182,952	1/4	167,963	1/4	152,950	1/4	137,937	1/4	122,924	1/4	107,911	1/4	92,892
1/2		1/2		1/2	197,610	1/2	182,641	1/2	167,650	1/2	152,637	1/2	137,624	1/2	122,611	1/2	107,598	1/2	92,579
3/4		3/4		3/4	197,298	3/4	182,329	3/4	167,338	3/4	152,324	3/4	137,311	3/4	122,298	3/4	107,285	3/4	92,266
7		7		7	196,986	7	182,017	7	167,025	7	152,012	7	136,999	7	121,986	7	106,972	7	91,953
1/4		1/4	210,593	1/4	196,674	1/4	181,705	1/4	166,712	1/4	151,699	1/4	136,686	1/4	121,673	1/4	106,660	1/4	91,640
1/2		1/2	210,414	1/2	196,362	1/2	181,393	1/2	166,399	1/2	151,386	1/2	136,373	1/2	121,360	1/2	106,347	1/2	91,327
3/4		3/4	210,234	3/4	196,050	3/4	181,081	3/4	166,086	3/4	151,073	3/4	136,060	3/4	121,047	3/4	106,034	3/4	91,014
8		8	210,055	8	195,739	8	180,769	8	165,774	8	150,761	8	135,748	8	120,735	8	105,721	8	90,701
1/4		1/4	209,875	1/4	195,427	1/4	180,458	1/4	165,461	1/4	150,448	1/4	135,435	1/4	120,422	1/4	105,408	1/4	90,388
1/2		1/2	209,644	1/2	195,115	1/2	180,146	1/2	165,148	1/2	150,135	1/2	135,122	1/2	120,109	1/2	105,095	1/2	90,075
3/4		3/4	209,412	3/4	194,803	3/4	179,834	3/4	164,835	3/4	149,822	3/4	134,809	3/4	119,796	3/4	104,782	3/4	89,763
9		9	209,180	9	194,491	9	179,522	9	164,523	9	149,510	9	134,496	9	119,483	9	104,469	9	89,450
1/4		1/4	208,949	1/4	194,179	1/4	179,210	1/4	164,210	1/4	149,197	1/4	134,184	1/4	119,171	1/4	104,156	1/4	89,137
1/2		1/2	208,669	1/2	193,867	1/2	178,898	1/2	163,897	1/2	148,884	1/2	133,871	1/2	118,858	1/2	103,843	1/2	88,824
3/4		3/4	208,389	3/4	193,556	3/4	178,586	3/4	163,584	3/4	148,571	3/4	133,558	3/4	118,545	3/4	103,530	3/4	88,511
10		10	208,109	10	193,244	10	178,275	10	163,271	10	148,258	10	133,245	10	118,232	10	103,218	10	88,198
1/4		1/4	207,829	1/4	192,932	1/4	177,963	1/4	162,959	1/4	147,946	1/4	132,933	1/4	117,920	1/4	102,905	1/4	87,885
1/2		1/2	207,523	1/2	192,620	1/2	177,651	1/2	162,646	1/2	147,633	1/2	132,620	1/2	117,607	1/2	102,592	1/2	87,572
3/4		3/4	207,217	3/4	192,308	3/4	177,339	3/4	162,333	3/4	147,320	3/4	132,307	3/4	117,294	3/4	102,279	3/4	87,259
11		11	206,912	11	191,996	11	177,027	11	162,020	11	147,007	11	131,994	11	116,981	11	101,966	11	86,946
1/4	<del></del>	1/4	206,606	1/4	191,684	1/4	176,715	1/4	161,708	1/4	146,695	1/4	131,682	1/4	116,668	1/4	101,653	1/4	86,633
1/2		1/2	206,297	1/2	191,373	1/2	176,403	1/2	161,395	1/2	146,382	1/2	131,369	1/2	116,356	1/2	101,340	1/2	86,321
3/4		3/4	205,987	3/4	191,061	3/4	176,091	3/4	161,082	3/4	146,069	3/4	131,056	3/4	116,043	3/4	101,027	3/4	86,008
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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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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



# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/4"

PACI	IES GIVEN IN WH	JLE GALLO	ONS												GAUGE HEIGHT	15-10 1/4
N	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT. N	<b>17 FT.</b> ℕ	<b>18 FT.</b> ℕ	19 FT.
)	85,695	0	70,687	0	55,727	0	40,752	0	25,733	0	10,930	0	0	0	0	
4	85,382	1/4	70,374	1/4	55,416	1/4	40,439	1/4	25,420	1/4	10,637	1/4	1/4	1/4	1/4	
	85,069	1/2	70,061	1/2	55,106	1/2	40,126	1/2	25,107	1/2	10,347	1/2	1/2	1/2	1/2	
	84,757	3/4	69,749	3/4	54,795	3/4	39,813	3/4	24,794	3/4	10,058	3/4	3/4	3/4	3/4	
┪	84,444	1	69,436	1	54,484	1	39,500	1	24,481	1	9,769	1	1	1	1	
	84,132	1/4	69,123	1/4	54,174	1/4	39,188	1/4	24,168	1/4	9,479	1/4	1/4	1/4	1/4	
	83,820	1/2	68,810	1/2	53,863	1/2	38,875	1/2	23,855	1/2	9,196	1/2	1/2	1/2	1/2	
	83,507	3/4	68,497	3/4	53,553	3/4	38,562	3/4	23,542	3/4	8,913	3/4	3/4	3/4	3/4	
	83,195	2	68,184	2	53,242	2	38,249	2	23,229	2	8,630	2	2	2	2	
+	82,883	1/4	67,871	1/4	52,932	1/4	37,936	1/4	22,916	1/4	8,347	1/4	1/4	1/4	1/4	
_	82,571		67,558		52,621		37,623	_	22,603		8,073					
	82,259	1/2 3/4	67,245	1/2	52,310	1/2	37,310	1/2	22,003	1/2	7,799	1/2 3/4	1/2	1/2	1/2	
+				3/4		3/4		_		3/4						
4	81,947	3	66,932	3	51,999	3	36,997	3	21,978	3	7,524	3	3	3	3	
	81,635	1/4	66,619	1/4	51,689	1/4	36,684	1/4	21,665	1/4	7,250	1/4	1/4	1/4	1/4	
+	81,323	1/2	66,306	1/2	51,377	1/2	36,371	1/2	21,352	1/2	6,982	1/2	1/2	1/2	1/2	
+	81,010	3/4	65,994	3/4	51,066	3/4	36,059	3/4	21,039	3/4	6,714	3/4	3/4	3/4	3/4	
┸	80,698	4	65,681	4	50,755	4	35,746	4	20,726	4	6,446	4	4	4	4	
	80,386	1/4	65,368	1/4	50,444	1/4	35,433	1/4	20,413	1/4	6,178	1/4	1/4	1/4	1/4	
	80,074	1/2	65,055	1/2	50,132	1/2	35,120	1/2	20,100	1/2	5,914	1/2	1/2	1/2	1/2	
	79,761	3/4	64,742	3/4	49,821	3/4	34,807	3/4	19,787	3/4	5,650	3/4	3/4	3/4	3/4	
	79,449	5	64,429	5	49,509	5	34,494	5	19,474	5	5,386	5	5	5	5	
T	79,136	1/4	64,117	1/4	49,198	1/4	34,181	1/4	19,162	1/4	5,122	1/4	1/4	1/4	1/4	
	78,823	1/2	63,805	1/2	48,886	1/2	33,868	1/2	18,849	1/2	4,862	1/2	1/2	1/2	1/2	
	78,510	3/4	63,493	3/4	48,573	3/4	33,555	3/4	18,536	3/4	4,602	3/4	3/4	3/4	3/4	
T	78,197	6	63,182	6	48,261	6	33,242	6	18,223	6	4,341	6	6	6	6	
Ť	77,884	1/4	62,870	1/4	47,949	1/4	32,929	1/4	17,910	1/4	4,081	1/4	1/4	1/4	1/4	
	77,571	1/2	62,559	1/2	47,636	1/2	32,617	1/2	17,598	1/2	3,825	1/2	1/2	1/2	1/2	
+	77,259	3/4	62,249	3/4	47,323	3/4	32,304	3/4	17,286	3/4	3,568	3/4	3/4	3/4	3/4	
T	76,946	7	61,938	7	47,010	7	31,991	7	16,974	7	3,312	7	7	7	7	
†	76,633	1/4	61,627	1/4	46,697	1/4	31,678	1/4	16,662	1/4	3,055	1/4	1/4	1/4	1/4	
	76,320	1/2	61,317	1/2	46,384	1/2	31,365	1/2	16,353	1/2	2,801	1/2	1/2	1/2	1/2	
	76,007	3/4	61,006	3/4	46,072	3/4	31,052	3/4	16,044	3/4	2,546	3/4	3/4	3/4	3/4	
╁	75,694	8	60,695	8	45,759	8	30,739	8	15,735	8	2,292	8	8	8	8	
+	75,381	$\leftarrow$	60,385	-	45,739	-	30,739	-	15,735	1/4	2,292	-				
╁	75,361	1/4	60,365	1/4	45,446	1/4	30,426	1/4	15,426	1/4	1.801	1/4	1/4	1/4	1/4	
H	-,	1/2	59,764			1/2		1/2			,	1/2	1/2		1/2	
╁	74,755	3/4 <b>9</b>		3/4 <b>9</b>	44,820	3/4	29,800	3/4 <b>9</b>	14,815	3/4 <b>9</b>	1,565	3/4 <b>9</b>	3/4 <b>9</b>	3/4	3/4	
4	74,442	-	59,453	-	44,507	9	29,487		14,510	$\vdash$	1,329	$\rightarrow$		9		
+	74,129	1/4	59,143	1/4	44,194	1/4	29,175	1/4	14,205	1/4	1,093	1/4	1/4	1/4	1/4	
1	73,816	1/2	58,832	1/2	43,881	1/2	28,862	1/2	13,904	1/2	916	1/2	1/2	1/2	1/2	
4	73,504	3/4	58,522	3/4	43,568	3/4	28,549	3/4	13,602	3/4	739	3/4	3/4	3/4	3/4	
L	73,191	10	58,211	10	43,255	10	28,236	10	13,301	10	562	10	10	10	10	
L	72,878	1/4	57,900	1/4	42,942	1/4	27,923	1/4	13,000	1/4	385	1/4	1/4	1/4	1/4	
	72,565	1/2	57,590	1/2	42,630	1/2	27,610	1/2	12,702	1/2		1/2	1/2	1/2	1/2	
L	72,252	3/4	57,279	3/4	42,317	3/4	27,297	3/4	12,405	3/4		3/4	3/4	3/4	3/4	
	71,939	11	56,969	11	42,004	11	26,984	11	12,107	11		11	11	11	11	
	71,626	1/4	56,658	1/4	41,691	1/4	26,671	1/4	11,810	1/4		1/4	1/4	1/4	1/4	
	71,313	1/2	56,348	1/2	41,378	1/2	26,358	1/2	11,517	1/2		1/2	1/2	1/2	1/2	
	71,000	3/4	56,037	3/4	41,065	3/4	26,045	3/4	11,223	3/4		3/4	3/4	3/4	3/4	

STRAPPED: 02/03/2012 CL - SW CALCULATED: 02/05/2012 CL PRINTED: 02/05/2012 CL

CANCELS AND SUPERCEDES ALL PRIOR TO 02/2012 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



#### 1 STBD **ULLAGE TABLE**

CAPACI	TIES GIVEN IN WH	OLE GALLO	ONS														GAUGE HE	EIGHT	15'-09 3/4"
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	205,153	0	190,235	0	175,265	0	160,253	0	145,240	0	130,226	0	115,213	0	100,197
1/4		1/4		1/4	204,844	1/4	189,923	1/4	174,953	1/4	159,940	1/4	144,927	1/4	129,914	1/4	114,900	1/4	99,884
1/2		1/2		1/2	204,536	1/2	189,612	1/2	174,641	1/2	159,628	1/2	144,614	1/2	129,601	1/2	114,588	1/2	99,571
3/4		3/4		3/4	204,227	3/4	189,300	3/4	174,328	3/4	159,315	3/4	144,301	3/4	129,288	3/4	114,275	3/4	99,258
1		1		1	203,918	1	188,988	1	174,015	1	159,002	1	143,989	1	128,975	1	113,962	1	98,945
1/4		1/4		1/4	203,609	1/4	188,676	1/4	173,703	1/4	158,689	1/4	143,676	1/4	128,662	1/4	113,649	1/4	98,632
1/2		1/2		1/2	203,300	1/2	188,364	1/2	173,390	1/2	158,376	1/2	143,363	1/2	128,350	1/2	113,336	1/2	98,319
3/4		3/4		3/4	202,991	3/4	188,052	3/4	173,077	3/4	158,064	3/4	143,050	3/4	128,037	3/4	113,024	3/4	98,006
2		2		2	202,682	2	187,740	2	172,764	2	157,751	2	142,737	2	127,724	2	112,711	2	97,693
1/4		1/4		1/4	202,374	1/4	187,428	1/4	172,452	1/4	157,438	1/4	142,425	1/4	127,411	1/4	112,398	1/4	97,381
1/2		1/2		1/2	202,065	1/2	187,117	1/2	172,139	1/2	157,125	1/2	142,112	1/2	127,099	1/2	112,085	1/2	97,068
3/4		3/4		3/4	201,756	3/4	186,805	3/4	171,826	3/4	156,813	3/4	141,799	3/4	126,786	3/4	111,773	3/4	96,755
3		3		3	201,447	3	186,493	3	171,513	3	156,500	3	141,486	3	126,473	3	111,460	3	96,442
1/4		1/4		1/4	201,138	1/4	186,181	1/4	171,200	1/4	156,187	1/4	141,173	1/4	126,160	1/4	111,147	1/4	96,129
					200,830		185,869		171,200	_	155,874		140,861	_	125,847		110,834		95,816
1/2 3/4		1/2 3/4		1/2 3/4	200,830	1/2 3/4	185,557	1/2 3/4	170,575	1/2 3/4	155,561	1/2 3/4	140,548	1/2 3/4	125,535	1/2 3/4	110,634	1/2 3/4	95,503
3/4 <b>4</b>		3/4 <b>4</b>		3/4 <b>4</b>		3/4 <b>4</b>	185,245	3/4 <b>4</b>	170,373	3/4 <b>4</b>	155,249	3/4 <b>4</b>	140,346	3/4 <b>4</b>	125,335	3/4 <b>4</b>		3/4 <b>4</b>	95,503
_				-	200,210					-		-				-	110,209	-	
1/4		1/4		1/4	199,900	1/4	184,934	1/4	169,949	1/4	154,936	1/4	139,922	1/4	124,909	1/4	109,896	1/4	94,877
1/2		1/2		1/2	199,590	1/2	184,622	1/2	169,637	1/2	154,623	1/2	139,610	1/2	124,596	1/2	109,583	1/2	94,564
3/4		3/4		3/4	199,279	3/4	184,310	3/4	169,324	3/4	154,310	3/4	139,297	3/4	124,284	3/4	109,270	3/4	94,251
5		5		5	198,968	5	183,998	5	169,011	5	153,997	5	138,984	5	123,971	5	108,958	5	93,939
1/4		1/4		1/4	198,656	1/4	183,686	1/4	168,698	1/4	153,685	1/4	138,671	1/4	123,658	1/4	108,645	1/4	93,626
1/2		1/2		1/2	198,344	1/2	183,374	1/2	168,385	1/2	153,372	1/2	138,358	1/2	123,345	1/2	108,332	1/2	93,313
3/4		3/4		3/4	198,032	3/4	183,062	3/4	168,073	3/4	153,059	3/4	138,046	3/4	123,032	3/4	108,019	3/4	93,000
6		6		6	197,720	6	182,750	6	167,760	6	152,746	6	137,733	6	122,720	6	107,706	6	92,687
1/4		1/4		1/4	197,408	1/4	182,439	1/4	167,447	1/4	152,434	1/4	137,420	1/4	122,407	1/4	107,394	1/4	92,374
1/2		1/2		1/2	197,096	1/2	182,127	1/2	167,134	1/2	152,121	1/2	137,107	1/2	122,094	1/2	107,081	1/2	92,061
3/4		3/4	210,668	3/4	196,785	3/4	181,815	3/4	166,821	3/4	151,808	3/4	136,795	3/4	121,781	3/4	106,768	3/4	91,748
7		7	210,489	7	196,473	7	181,503	7	166,509	7	151,495	7	136,482	7	121,469	7	106,455	7	91,435
1/4		1/4	210,311	1/4	196,161	1/4	181,191	1/4	166,196	1/4	151,182	1/4	136,169	1/4	121,156	1/4	106,142	1/4	91,122
1/2		1/2	210,132	1/2	195,849	1/2	180,879	1/2	165,883	1/2	150,870	1/2	135,856	1/2	120,843	1/2	105,829	1/2	90,809
3/4		3/4	209,954	3/4	195,537	3/4	180,567	3/4	165,570	3/4	150,557	3/4	135,543	3/4	120,530	3/4	105,516	3/4	90,497
8		8	209,723	8	195,225	8	180,256	8	165,258	8	150,244	8	135,231	8	120,217	8	105,203	8	90,184
1/4		1/4	209,492	1/4	194,913	1/4	179,944	1/4	164,945	1/4	149,931	1/4	134,918	1/4	119,905	1/4	104,890	1/4	89,871
1/2		1/2	209,261	1/2	194,601	1/2	179,632	1/2	164,632	1/2	149,619	1/2	134,605	1/2	119,592	1/2	104,577	1/2	89,558
3/4		3/4	209,031	3/4	194,290	3/4	179,320	3/4	164,319	3/4	149,306	3/4	134,292	3/4	119,279	3/4	104,265	3/4	89,245
9		9	208,752	9	193,978	9	179,008	9	164,006	9	148,993	9	133,980	9	118,966	9	103,952	9	88,932
1/4		1/4	208,473	1/4	193,666	1/4	178,696	1/4	163,694	1/4	148,680	1/4	133,667	1/4	118,654	1/4	103,639	1/4	88,619
1/2		1/2	208,194	1/2	193,354	1/2	178,384	1/2	163,381	1/2	148,367	1/2	133,354	1/2	118,341	1/2	103,326	1/2	88,306
3/4		3/4	207,915	3/4	193,042	3/4	178,072	3/4	163,068	3/4	148,055	3/4	133,041	3/4	118,028	3/4	103,013	3/4	87,993
10		10	207,610	10	192,730	10	177,761	10	162,755	10	147,742	10	132,728	10	117,715	10	102,700	10	87,680
1/4		1/4	207,305	1/4	192,418	1/4	177,449	1/4	162,443	1/4	147,429	1/4	132,416	1/4	117,402	1/4	102,387	1/4	87,367
1/2		1/2	207,000	1/2	192,107	1/2	177,137	1/2	162,130	1/2	147,116	1/2	132,103	1/2	117,090	1/2	102,074	1/2	87,054
3/4		3/4	206,696	3/4	191,795	3/4	176,825	3/4	161,817	3/4	146,804	3/4	131,790	3/4	116,777	3/4	101,761	3/4	86,742
11		11	206,387	11	191,483	11	176,513	11	161,504	11	146,491	11	131,477	11	116,464	11	101,448	11	86,429
_		-	206,387	1/4	191,463	-	176,313		161,191	-	146,491	-	131,477	-	116,151	-	101,446	-	86,116
1/4		1/4			•	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	205,770	1/2	190,859	1/2	175,889	1/2	160,879	1/2	145,865	1/2	130,852	1/2	115,839	1/2	100,823	1/2	85,803
3/4		3/4	205,462	3/4	190,547	3/4	175,578	3/4	160,566	3/4	145,552	3/4	130,539	3/4	115,526	3/4	100,510	3/4	85,490

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 THREADS ON "MMC" VALVE. GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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



### 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-09 3/4"

PACI	TIES GIVEN IN WH	OLE GALLO	ONS												GAUGE HEIGHT	15-09 3/4
N	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT. N	<b>17 FT</b> . ℕ	<b>18 FT.</b> ℕ	19 FT.
0	85,177	0	70,157	0	55,142	0	40,126	0	25,106	0	10,347	0	0	0	0	
4	84,864	1/4	69,844	1/4	54,830	1/4	39,813	1/4	24,793	1/4	10,058	1/4	1/4	1/4	1/4	
2	84,551	1/2	69,532	1/2	54,517	1/2	39,500	1/2	24,481	1/2	9,769	1/2	1/2	1/2	1/2	
	84,238	3/4	69,219	3/4	54,204	3/4	39,187	3/4	24,168	3/4	9,479	3/4	3/4	3/4	3/4	
T	83,925	1	68,906	1	53,892	1	38,874	1	23,855	1	9,196	1	1	1	1	
	83,612	1/4	68,593	1/4	53,579	1/4	38,561	1/4	23,542	1/4	8,913	1/4	1/4	1/4	1/4	
	83,300	1/2	68,280	1/2	53,266	1/2	38,248	1/2	23,229	1/2	8,630	1/2	1/2	1/2	1/2	
	82,987	3/4	67,967	3/4	52,954	3/4	37,935	3/4	22,916	3/4	8,347	3/4	3/4	3/4	3/4	
	82,674	2	67,654	2	52,641	2	37,622	2	22,603	2	8,073	2	2	2	2	
+	82,361	1/4	67,341	1/4	52,328	1/4	37,310	1/4	22,290	1/4	7,799	1/4	1/4	1/4	1/4	
_	82,048	1/2	67,028	1/2	52,015	1/2	36,997	1/2	21,977	1/2	7,524	1/4	1/2	1/4	1/4	
+	81,735	3/4	66,715	3/4	51,703	3/4	36,684	3/4	21,664	3/4	7,250	3/4	3/4	3/4	3/4	
+	81,422	3/4	66,402	3/4	51,703	3/4	36,371	3/4	21,352	3/4	6,982	3/4	3/4	3/4	3/4	
+		-		-		-		$\vdash$		+		$\rightarrow$				
	81,109	1/4	66,089	1/4	51,077	1/4	36,058	1/4	21,039	1/4	6,714	1/4	1/4	1/4	1/4	
+	80,796	1/2	65,777	1/2	50,764	1/2	35,745	1/2	20,726	1/2	6,446	1/2	1/2	1/2	1/2	
╁	80,483	3/4	65,464	3/4	50,451	3/4	35,432	3/4	20,413	3/4	6,178	3/4	3/4	3/4	3/4	
1	80,170	4	65,151	4	50,138	4	35,119	4	20,100	4	5,914	4	4	4	4	
4	79,858	1/4	64,838	1/4	49,826	1/4	34,806	1/4	19,787	1/4	5,650	1/4	1/4	1/4	1/4	
	79,545	1/2	64,525	1/2	49,513	1/2	34,493	1/2	19,474	1/2	5,386	1/2	1/2	1/2	1/2	
4	79,232	3/4	64,212	3/4	49,200	3/4	34,180	3/4	19,161	3/4	5,122	3/4	3/4	3/4	3/4	
╧	78,919	5	63,899	5	48,887	5	33,868	5	18,848	5	4,862	5	5	5	5	
	78,606	1/4	63,586	1/4	48,574	1/4	33,555	1/4	18,535	1/4	4,602	1/4	1/4	1/4	1/4	
	78,293	1/2	63,273	1/2	48,261	1/2	33,242	1/2	18,223	1/2	4,341	1/2	1/2	1/2	1/2	
	77,980	3/4	62,960	3/4	47,948	3/4	32,929	3/4	17,910	3/4	4,081	3/4	3/4	3/4	3/4	
	77,667	6	62,648	6	47,635	6	32,616	6	17,598	6	3,825	6	6	6	6	
Ī	77,354	1/4	62,335	1/4	47,322	1/4	32,303	1/4	17,286	1/4	3,568	1/4	1/4	1/4	1/4	
	77,041	1/2	62,022	1/2	47,009	1/2	31,990	1/2	16,974	1/2	3,312	1/2	1/2	1/2	1/2	
	76,728	3/4	61,709	3/4	46,697	3/4	31,677	3/4	16,662	3/4	3,055	3/4	3/4	3/4	3/4	
T	76,416	7	61,396	7	46,384	7	31,364	7	16,353	7	2,801	7	7	7	7	
Ť	76,103	1/4	61,083	1/4	46,071	1/4	31,051	1/4	16,044	1/4	2,546	1/4	1/4	1/4	1/4	
	75,790	1/2	60,771	1/2	45,758	1/2	30,739	1/2	15,735	1/2	2,292	1/2	1/2	1/2	1/2	
Ť	75,477	3/4	60,458	3/4	45,445	3/4	30,426	3/4	15,426	3/4	2,037	3/4	3/4	3/4	3/4	
Ť	75,164	8	60,145	8	45,132	8	30,113	8	15,120	8	1,801	8	8	8	8	
+	74,851	1/4	59,833	1/4	44,819	1/4	29,800	1/4	14,815	1/4	1,565	1/4	1/4	1/4	1/4	
+	74,538	1/2	59.520	1/2	44,506	1/2	29,487	1/2	14,510	1/2	1,329	1/2	1/4	1/4	1/4	
t	74,225	3/4	59,207	3/4	44,193	3/4	29,174	3/4	14,205	3/4	1,093	3/4	3/4	3/4	3/4	
t	73,912	9	58,895	9	43,880	9	28,861	9	13,904	9	916	9	9	9	9	
╁	73,512	1/4	58,582	1/4	43,568	1/4	28,548	1/4	13,602	1/4	739	1/4	1/4	1/4	1/4	
+	73,286	1/4	58,269	1/4	43,255	_	28,235	1/4	13,301	1/4	562					
+	73,200	3/4	57,957	3/4	43,255	1/2	27,922	3/4	13,000	3/4	385	1/2 3/4	1/2	1/2	1/2	
╁	•	3/4 10		3/4 10		3/4	•	3/4		3/4 10	363	3/4 10	3/4	3/4	3/4	
1	72,661	_	57,644	-	42,629	10	27,610	-	12,702	_		-				
$\vdash$	72,348	1/4	57,331	1/4	42,316	1/4	27,297	1/4	12,405	1/4		1/4	1/4	1/4	1/4	
1	72,035	1/2	57,019	1/2	42,003	1/2	26,984	1/2	12,107	1/2		1/2	1/2	1/2	1/2	
┸	71,722	3/4	56,706	3/4	41,690	3/4	26,671	3/4	11,810	3/4		3/4	3/4	3/4	3/4	
┸	71,409	11	56,393	11	41,377	11	26,358	11	11,517	11		11	11	11	11	
	71,096	1/4	56,080	1/4	41,064	1/4	26,045	1/4	11,223	1/4		1/4	1/4	1/4	1/4	
	70,783	1/2	55,768	1/2	40,751	1/2	25,732	1/2	10,930	1/2		1/2	1/2	1/2	1/2	
	70,470	3/4	55,455	3/4	40,439	3/4	25,419	3/4	10,637	3/4		3/4	3/4	3/4	3/4	

STRAPPED: 02/03/2012 CL - SW CALCULATED: 02/05/2012 CL PRINTED: 02/05/2012 CL

CANCELS AND SUPERCEDES ALL PRIOR TO 02/2012 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



### 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

**GAUGE HEIGHT 15'-10 3/4"** 

APACII	TIES GIVEN IN WH	JLE GALLC																_	15-10 3/4"
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	208,233	0	193,293	0	178,288	0	163,238	0	148,182	0	133,127	0	118,071	0	103,012
1/4		1/4		1/4	207,924	1/4	192,980	1/4	177,976	1/4	162,924	1/4	147,869	1/4	132,813	1/4	117,757	1/4	102,698
1/2		1/2		1/2	207,615	1/2	192,668	1/2	177,663	1/2	162,611	1/2	147,555	1/2	132,499	1/2	117,444	1/2	102,384
3/4		3/4		3/4	207,305	3/4	192,355	3/4	177,351	3/4	162,297	3/4	147,241	3/4	132,186	3/4	117,130	3/4	102,071
1		1		1	206,996	1	192,043	1	177,038	1	161,983	1	146,928	1	131,872	1	116,816	1	101,757
1/4		1/4		1/4	206,686	1/4	191,730	1/4	176,724	1/4	161,670	1/4	146,614	1/4	131,558	1/4	116,503	1/4	101,443
1/2		1/2		1/2	206,377	1/2	191,418	1/2	176,411	1/2	161,356	1/2	146,300	1/2	131,245	1/2	116,189	1/2	101,129
3/4		3/4		3/4	206,067	3/4	191,105	3/4	176,098	3/4	161,042	3/4	145,987	3/4	130,931	3/4	115,875	3/4	100,815
2		2		2	205,757	2	190,792	2	175,784	2	160,729	2	145,673	2	130,617	2	115,562	2	100,502
1/4		1/4		1/4	205,448	1/4	190,480	1/4	175,471	1/4	160,415	1/4	145,359	1/4	130,304	1/4	115,248	1/4	100,188
1/2		1/2		1/2	205,138	1/2	190,167	1/2	175,157	1/2	160,101	1/2	145,046	1/2	129,990	1/2	114,934	1/2	99,874
3/4		3/4		3/4	204,829	3/4	189,855	3/4	174,844	3/4	159,788	3/4	144,732	3/4	129,676	3/4	114,621	3/4	99,560
3		3		3	204,519	3	189,542	3	174,530	3	159,474	3	144,418	3	129,363	3	114,307	3	99,246
_		_		$oldsymbol{}$	204,319	-	189,229		174,330	-	159,160		144,105	+	129,049	-	113,993	-	98,932
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	•	1/4	
1/2		1/2		1/2	203,900	1/2	188,917	1/2	173,903	1/2	158,847	1/2	143,791	1/2	128,735	1/2	113,680	1/2	98,619
3/4		3/4		3/4	203,590	3/4	188,604	3/4	173,589	3/4	158,533	3/4	143,477	3/4	128,422	3/4	113,366	3/4	98,305
4		4		4	203,281	4	188,292	4	173,275	4	158,219	4	143,164	4	128,108	4	113,052	4	97,991
1/4		1/4		1/4	202,971	1/4	187,979	1/4	172,962	1/4	157,906	1/4	142,850	1/4	127,794	1/4	112,739	1/4	97,677
1/2		1/2		1/2	202,662	1/2	187,666	1/2	172,648	1/2	157,592	1/2	142,536	1/2	127,481	1/2	112,425	1/2	97,363
3/4		3/4		3/4	202,352	3/4	187,354	3/4	172,334	3/4	157,278	3/4	142,223	3/4	127,167	3/4	112,111	3/4	97,050
5		5		5	202,041	5	187,041	5	172,021	5	156,965	5	141,909	5	126,853	5	111,798	5	96,736
1/4		1/4		1/4	201,730	1/4	186,729	1/4	171,707	1/4	156,651	1/4	141,595	1/4	126,540	1/4	111,484	1/4	96,422
1/2		1/2		1/2	201,419	1/2	186,416	1/2	171,393	1/2	156,337	1/2	141,282	1/2	126,226	1/2	111,170	1/2	96,108
3/4		3/4		3/4	201,108	3/4	186,103	3/4	171,080	3/4	156,024	3/4	140,968	3/4	125,912	3/4	110,857	3/4	95,794
6		6		6	200,795	6	185,791	6	170,766	6	155,710	6	140,654	6	125,599	6	110,543	6	95,480
1/4		1/4		1/4	200,483	1/4	185,478	1/4	170,452	1/4	155,397	1/4	140,341	1/4	125,285	1/4	110,229	1/4	95,167
1/2		1/2		1/2	200,170	1/2	185,166	1/2	170,139	1/2	155,083	1/2	140,027	1/2	124,971	1/2	109,916	1/2	94,853
3/4		3/4		3/4	199,858	3/4	184,853	3/4	169,825	3/4	154,769	3/4	139,713	3/4	124,658	3/4	109,602	3/4	94,539
7		7		7	199,545	7	184,540	7	169,511	7	154,456	7	139,400	7	124,344	7	109,288	7	94,225
1/4		1/4		1/4	199,232	1/4	184,228	1/4	169,198	1/4	154,142	1/4	139,086	1/4	124,030	1/4	108,975	1/4	93,911
1/2		1/2		1/2	198,920	1/2	183,915	1/2	168,884	1/2	153,828	1/2	138,772	1/2	123,717	1/2	108,661	1/2	93,598
3/4		3/4	212,523	3/4	198,607	3/4	183,603	3/4	168,570	3/4	153,515	3/4	138,459	3/4	123,403	3/4	108,347	3/4	93,284
8		8	212,344	8	198,295	8	183,290	8	168,257	8	153,201	8	138,145	8	123,089	8	108,033	8	92,970
1/4		1/4	212,165	1/4	190,293	1/4	182,977	1/4	167,943	1/4	152,887	1/4	137,831	1/4	122,776	1/4	107,719	1/4	92,656
1/4		1/4	211,986	1/4	197,962	1/4	182,665	1/4	167,943	1/4	152,574	1/4	137,518	1/4	122,776	1/4	107,719	1/4	92,342
3/4		3/4	211,808	3/4	197,009	3/4	182,352	3/4	167,316	3/4	152,374	3/4	137,204	3/4	122,148	3/4	107,400	3/4	92,028
3/4 <b>9</b>		3/4 9	211,576	3/4 <b>9</b>	197,044	3/4 <b>9</b>	182,040	3/4 <b>9</b>	167,316	3/4 <b>9</b>	152,260	3/4 <b>9</b>	136,891	3/4 <b>9</b>	122,146	3/4 <b>9</b>	107,092	3/4 <b>9</b>	92,028
$\overline{}$				$oldsymbol{}$		-		-		-				-		-			
1/4		1/4	211,345	1/4	196,732	1/4	181,727	1/4	166,688	1/4	151,633	1/4	136,577	1/4	121,521	1/4	106,464	1/4	91,401
1/2		1/2	211,114	1/2	196,419	1/2	181,414	1/2	166,375	1/2	151,319	1/2	136,263	1/2	121,207	1/2	106,150	1/2	91,087
3/4		3/4	210,883	3/4	196,106	3/4	181,102	3/4	166,061	3/4	151,005	3/4	135,950	3/4	120,894	3/4	105,836	3/4	90,773
10		10	210,603	10	195,794	10	180,789	10	165,747	10	150,692	10	135,636	10	120,580	10	105,523	10	90,459
1/4		1/4	210,323	1/4	195,481	1/4	180,477	1/4	165,434	1/4	150,378	1/4	135,322	1/4	120,266	1/4	105,209	1/4	90,146
1/2		1/2	210,044	1/2	195,169	1/2	180,164	1/2	165,120	1/2	150,064	1/2	135,009	1/2	119,953	1/2	104,895	1/2	89,832
3/4		3/4	209,764	3/4	194,856	3/4	179,851	3/4	164,806	3/4	149,751	3/4	134,695	3/4	119,639	3/4	104,581	3/4	89,518
11		11	209,458	11	194,543	11	179,539	11	164,493	11	149,437	11	134,381	11	119,325	11	104,267	11	89,204
1/4		1/4	209,153	1/4	194,231	1/4	179,226	1/4	164,179	1/4	149,123	1/4	134,068	1/4	119,012	1/4	103,954	1/4	88,890
1/2		1/2	208,847	1/2	193,918	1/2	178,914	1/2	163,865	1/2	148,810	1/2	133,754	1/2	118,698	1/2	103,640	1/2	88,576
3/4		3/4	208,542	3/4	193,606	3/4	178,601	3/4	163,552	3/4	148,496	3/4	133,440	3/4	118,385	3/4	103,326	3/4	88,263

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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



# 2 PORT ULLAGE TABLE

GAUGE HEIGHT 15'-10 3/4"

CAPAC	TIES GIVEN IN WHO	LE GALL	ONS														GAUGE HEI	GHI	15'-10 3/4"
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	87,949	0	72,963	0	58,170	0	43,690	0	28,937	0	13,877	0		0		0		0	
1/4	87,635	1/4	72,649	1/4	57,868	1/4	43,389	1/4	28,624	1/4	13,563	1/4		1/4		1/4		1/4	
1/2	87,321	1/2	72,335	1/2	57,566	1/2	43,088	1/2	28,310	1/2	13,250	1/2		1/2		1/2		1/2	
3/4	87,007	3/4	72,021	3/4	57,263	3/4	42,787	3/4	27,997	3/4	12,936	3/4		3/4		3/4		3/4	
1	86,696	1	71,707	1	56,961	1	42,486	1	27,683	1	12,623	1		1		1		1	
1/4	86,385	1/4	71,394	1/4	56,659	1/4	42,185	1/4	27,369	1/4	12,309	1/4		1/4		1/4		1/4	
1/2	86,073	1/2	71,080	1/2	56,357	1/2	41,884	1/2	27,056	1/2	11,996	1/2		1/2		1/2		1/2	
3/4	85,762	3/4	70,766	3/4	56,055	3/4	41,582	3/4	26,742	3/4	11,683	3/4		3/4		3/4		3/4	
2	85,453	2	70,452	2	55,753	2	41,281	2	26,428	2	11,372	2		2		2		2	
1/4	85,144	1/4	70,138	1/4	55,451	1/4	40,980	1/4	26,115	1/4	11,061	1/4		1/4		1/4		1/4	
1/2	84,835	1/2	69,825	1/2	55,149	1/2	40,679	1/2	25,801	1/2	10,750	1/2		1/2		1/2		1/2	
3/4	84,526	3/4	69,511	3/4	54,847	3/4	40,378	3/4	25,487	3/4	10,730	3/4		3/4		3/4		3/4	
3/4	84,217	3/4	69,197	3/4	54,545	3/4	40,077	3/4	25,173	3/4	10,133	3/4		3/4		3/4		3/4	
$\rightarrow$		-		-		-				$\vdash$		$\rightarrow$							
1/4	83,908	1/4	68,883	1/4	54,243	1/4	39,776	1/4	24,860	1/4	9,827	1/4		1/4		1/4	+	1/4	
1/2	83,599	1/2	68,569	1/2	53,941	1/2	39,475	1/2	24,546	1/2	9,521	1/2		1/2		1/2		1/2	
3/4	83,290	3/4	68,255	3/4	53,639	3/4	39,173	3/4	24,232	3/4	9,215	3/4		3/4		3/4		3/4	
4	82,981	4	67,942	4	53,337	4	38,872	4	23,918	4	8,912	4		4		4	ļ	4	
1/4	82,672	1/4	67,628	1/4	53,035	1/4	38,570	1/4	23,604	1/4	8,608	1/4		1/4		1/4		1/4	
1/2	82,363	1/2	67,314	1/2	52,733	1/2	38,269	1/2	23,291	1/2	8,305	1/2		1/2		1/2		1/2	
3/4	82,054	3/4	67,000	3/4	52,430	3/4	37,967	3/4	22,977	3/4	8,001	3/4		3/4		3/4		3/4	
5	81,743	5	66,686	5	52,128	5	37,665	5	22,663	5	7,698	5		5		5		5	
1/4	81,431	1/4	66,372	1/4	51,826	1/4	37,363	1/4	22,349	1/4	7,394	1/4		1/4		1/4		1/4	
1/2	81,120	1/2	66,059	1/2	51,524	1/2	37,061	1/2	22,035	1/2	7,091	1/2		1/2		1/2		1/2	
3/4	80,808	3/4	65,745	3/4	51,222	3/4	36,759	3/4	21,721	3/4	6,787	3/4		3/4		3/4		3/4	
6	80,495	6	65,437	6	50,920	6	36,451	6	21,408	6	6,483	6		6		6		6	
1/4	80,181	1/4	65,129	1/4	50,619	1/4	36,143	1/4	21,094	1/4	6,180	1/4		1/4		1/4		1/4	
1/2	79,867	1/2	64,821	1/2	50,317	1/2	35,835	1/2	20,780	1/2	5,876	1/2		1/2		1/2		1/2	
3/4	79,553	3/4	64,513	3/4	50,015	3/4	35,527	3/4	20,466	3/4	5,573	3/4		3/4		3/4		3/4	
7	79,239	7	64,211	7	49,714	7	35,213	7	20,152	7	5,269	7		7		7		7	
1/4	78,926	1/4	63,909	1/4	49,413	1/4	34,900	1/4	19,839	1/4	4,966	1/4		1/4		1/4		1/4	
1/2	78,612	1/2	63,607	1/2	49,111	1/2	34,586	1/2	19,525	1/2	4,662	1/2		1/2		1/2		1/2	
3/4	78,298	3/4	63,305	3/4	48,810	3/4	34,272	3/4	19,211	3/4	4,358	3/4		3/4		3/4		3/4	
8	77,984	8	63,003	8	48,509	8	33,958	8	18,897	8	4,053	8		8		8		8	
1/4	77,670	1/4	62,701	1/4	48,207	1/4	33,644	1/4	18,583	1/4	3,747	1/4		1/4		1/4		1/4	
1/2	77,356	1/2	62,399	1/2	47,906	1/2	33,330	1/2	18,269	1/2	3,442	1/2		1/2		1/2		1/2	
3/4	77,043	3/4	62,096	3/4	47,605	3/4	33,017	3/4	17,956	3/4	3,137	3/4		3/4		3/4		3/4	
9	76,729	9	61,794	9	47,304	9	32,703	9	17,642	9	2,846	9		9		9		9	
1/4	76,415	1/4	61,492	1/4	47,003	1/4	32,389	1/4	17,328	1/4	2,555	1/4		1/4		1/4	-	1/4	
1/2	76,101	1/2	61,190	1/2	46,702	1/2	32,075	1/4	17,014	1/2	2,264	1/2		1/4		1/2	+	1/2	
3/4	75,787	3/4	60,888	3/4	46,400	3/4	31,761	3/4	16,700	3/4	1,973	3/4		3/4		3/4		3/4	
10	75,473	10	60,586	10	46,099	10	31,448	10	16,387	10	1,737	10		10		10		10	
_	75,160	1/4	60,284	1/4	45,798		31,134		16,073	1/4	1,502	-				1/4	-	1/4	
1/4	75,160	_	•		•	1/4	30,820	1/4	15,759		1,302	1/4		1/4			+		
1/2	74,846	1/2	59,982 59,680	1/2	45,497 45,196	1/2	30,820	1/2	15,759	1/2		1/2		1/2 3/4		1/2		1/2	
3/4		3/4		3/4		3/4		3/4		3/4	1,031	3/4				3/4		3/4	
11	74,218	11	59,378	11	44,895	11	30,192	11	15,131	11	_=_	11		11		11	ļ	11	
1/4	73,904	1/4	59,076	1/4	44,594	1/4	29,879	1/4	14,818	1/4		1/4		1/4		1/4		1/4	
1/2	73,590	1/2	58,774	1/2	44,293	1/2	29,565	1/2	14,504	1/2		1/2		1/2		1/2		1/2	
3/4	73,277	3/4	58,472	3/4	43,991	3/4	29,251	3/4	14,190	3/4		3/4		3/4		3/4	ART FOR THE AROL	3/4	

STRAPPED: 02/03/2012 CL - SW CALCULATED: 02/05/2012 CL PRINTED: 02/05/2012 CL

CANCELS AND SUPERCEDES ALL PRIOR TO 02/2012 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



#### 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

9   0   0   194,599   0   179,597   0   179,597   0   164,599   0   179,485   0   134,402   0   119,303   0   100,378   10   0   0   208,228   14   194,277   14   177,992   15   162,215   15   148,838   12   133,774   10   119,235   119,393   10   0   0   208,228   19   193,374   10   177,992   12   163,991   10   148,838   12   133,774   10   119,375   10   133,340   17   177,992   17   175,400   17   148,210   1   133,400   1   171,397   1   119,397   1   1   1   1   1   1   1   1   1	CAPACI	TIES GIVEN IN WHO	OLE GAL															GAUGE HE		
Max	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		0		0	209,547	0	194,599	0	179,587	0	164,529	0	149,465	0	134,402	0	119,338	0	104,272
	1/4		1/4		1/4	209.238	1/4	194,287	1/4		1/4		1/4		1/4		1/4		1/4	103.958
28							_		-											
1							_									•				
No.   No.   No.   No.   No.   199,090   No.   179,092   No.   176,090   No.   177,799   No.									_											
10	_		$\leftarrow$		_	/	_	, ,	-		-		+		-		+	-,	-	
2							_	,	-							•				
2							_													
14	3/4		-		_	•			_	•			-		_	•	_			
102	2		2		2	207,070	2	192,097	2	177,082	2	162,018	2	146,955	2	131,891	2	116,828	2	101,760
Second Color   Seco	1/4		1/4		1/4	206,760	1/4	191,785	1/4	176,768	1/4	161,704	1/4	146,641	1/4	131,577	1/4	116,514	1/4	101,446
3	1/2		1/2		1/2	206,451	1/2	191,472	1/2	176,454	1/2	161,391	1/2	146,327	1/2	131,264	1/2	116,200	1/2	101,132
14	3/4		3/4		3/4	206,141	3/4	191,159	3/4	176,140	3/4	161,077	3/4	146,013	3/4	130,950	3/4	115,886	3/4	100,818
May   May   May   May   205,521   May   190,534   May   175,513   May   160,499   May   145,072   May   130,322   May   116,259   May   190,790   May   100,790   May   100,	3		3		3	205.831	3	190.846	3	175.826	3	160,763	3	145.699	3	130.636	3	115.573	3	100.504
122			$\leftarrow$		-		_	,	-		-		+		$oldsymbol{\longmapsto}$		-		-	
34							_	,	-						_					
4							_		-							•				
144         144         204_283         14         189_283         14         174_287         14         159_194         14         130_106         14         129_067         15         14         130_205         12         138_203         12         138_203         12         138_203         130_205         15         158_566         15         158_566         14         143_503         34         128_439         34         113_376         34         98_306           5         5         203_552         5         188_344         8         173_316         5         158_566         34         143_503         34         113_376         34         98_306           16         14         144         203_041         14         188_031         14         173_916         5         143_503         34         128_439         34         113_376         34         98_306           16         12         12         12         202_730         12         187_406         34         173_061         5         152_522         14         142_561         12         127_488         12         112_481         42         97_5678           16         20_2106         6								,	_											
12			ullet		-		_	· · · · · · · · · · · · · · · · · · ·	-		-		+		$\vdash$	· · · · · · · · · · · · · · · · · · ·	+		-	
384								,	-											
5	1/2															•				
144 114 114 114 114 114 114 114 114 114	3/4															•				
12	5		5		5	203,352	5	188,344	5	173,316	5	158,252	5	143,189	5	128,125	5	113,062	5	97,992
34	1/4		1/4		1/4	203,041	1/4	188,031	1/4	173,002	1/4	157,939	1/4	142,875	1/4	127,812	1/4	112,748	1/4	97,678
6   6   6   202,106   6   187,093   6   172,061   6   156,997   6   141,934   6   126,870   6   111,007   6   96,736	1/2		1/2		1/2	202,730	1/2	187,719	1/2	172,688	1/2	157,625	1/2	142,561	1/2	127,498	1/2	112,434	1/2	97,364
194 194 194 201,793 194 186,780 194 171,747 194 156,883 194 141,620 194 126,556 194 111,493 194 96,422 195,481 195,491	3/4		3/4		3/4	202,418	3/4	187,406	3/4	172,374	3/4	157,311	3/4	142,247	3/4	127,184	3/4	112,120	3/4	97,050
14	6		6		6	202,106	6	187.093	6	172.061	6	156,997	6	141,934	6	126.870	6	111.807	6	96.736
12	1/4		1/4		1/4		1/4	,	1/4	•	1/4		1/4		1/4	•	1/4	•	1/4	· · · · · · · · · · · · · · · · · · ·
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1/2   1/2	_		-		-			,	-	•	_		-		-	•	_		_	· · · · · · · · · · · · · · · · · · ·
34 213,839 34 199,916 34 184,904 34 169,864 34 154,800 34 139,737 34 124,673 34 109,610 34 94,539 8 8 213,660 8 199,604 8 184,591 8 169,550 8 154,487 8 139,423 8 124,360 8 109,296 8 94,225 114 114 114 114 114 115,351 114 115,365 114 1								,							+					
8								,												
1/4	3/4					•	_	· · · · · · · · · · · · · · · · · · ·	-	•					_	•				
1/2         1/2         213,302         1/2         198,978         1/2         183,966         1/2         168,922         1/2         153,859         1/2         133,795         1/2         123,732         1/2         108,668         1/2         93,597           3/4         213,123         3/4         198,665         3/4         183,653         3/4         168,609         3/4         153,545         3/4         138,482         3/4         123,418         3/4         108,354         3/4         93,283           9         9         212,892         9         198,353         9         183,3027         1/4         167,981         1/4         152,917         1/4         152,917         1/4         122,790         1/4         107,726         1/4         92,969           1/2         1/2         212,430         1/2         197,727         1/2         182,715         1/2         167,667         1/2         152,604         1/2         137,540         1/2         107,412         1/2         107,412         1/2         107,412         1/2         167,667         1/2         152,604         1/2         137,540         1/2         122,477         1/2         107,412         1/2         107,41	8		-	•	8	•	8		8		8	•	8	•	8		8	•	8	•
3/4       213,123       3/4       198,665       3/4       183,653       3/4       168,609       3/4       153,545       3/4       138,482       3/4       123,418       3/4       108,354       3/4       93,283         9       9       212,892       9       198,353       9       183,340       9       168,295       9       153,231       9       138,168       9       123,104       9       108,040       9       92,969         1/4       212,661       1/4       198,040       1/4       183,027       1/4       167,981       1/4       152,917       1/4       137,854       1/4       122,790       1/4       107,726       1/4       92,655         1/2       1/2       212,430       1/2       197,727       1/2       182,715       1/2       167,667       1/2       152,604       1/2       137,540       1/2       122,477       1/2       107,412       1/2       92,341         3/4       212,198       3/4       197,414       3/4       182,802       3/4       167,353       3/4       152,290       3/4       137,226       3/4       122,163       3/4       107,098       3/4       92,027         10 <td< td=""><td>1/4</td><td></td><td>1/4</td><td>-</td><td>1/4</td><td></td><td>1/4</td><td>,</td><td>1/4</td><td></td><td>1/4</td><td></td><td>1/4</td><td></td><td>1/4</td><td></td><td>1/4</td><td>•</td><td>1/4</td><td>•</td></td<>	1/4		1/4	-	1/4		1/4	,	1/4		1/4		1/4		1/4		1/4	•	1/4	•
9 9 19,8353 9 183,340 9 168,295 9 153,231 9 138,168 9 123,104 9 108,040 9 92,969  1/4 1/4 212,661 1/4 198,040 1/4 183,027 1/4 167,981 1/4 152,917 1/4 137,854 1/4 122,790 1/4 107,726 1/4 92,655  1/2 1/2 212,430 1/2 197,727 1/2 182,715 1/2 167,667 1/2 152,604 1/2 137,540 1/2 122,477 1/2 107,412 1/2 92,341  3/4 212,198 3/4 197,414 3/4 182,402 3/4 167,353 3/4 152,290 3/4 137,226 3/4 122,163 3/4 107,098 3/4 92,027  10 10 211,918 10 197,101 10 182,089 10 167,039 10 151,976 10 136,912 10 121,849 10 106,784 10 91,713  1/4 1/4 211,638 1/4 196,789 1/4 181,766 1/4 166,726 1/4 151,662 1/4 136,599 1/4 121,535 1/4 106,470 1/4 91,399  1/2 211,359 1/2 196,476 1/2 181,464 1/2 166,412 1/2 151,348 1/2 136,285 1/2 121,221 1/2 106,156 1/2 91,085  3/4 3/4 211,079 3/4 196,163 3/4 181,151 3/4 166,098 3/4 151,034 3/4 135,971 3/4 120,594 1/1 105,528 1/1 190,457  1/4 1/4 210,467 1/4 195,538 1/4 180,525 1/4 165,470 1/4 150,407 1/4 135,343 1/4 120,280 1/4 105,214 1/4 90,143  1/2 10,467 1/4 195,538 1/4 180,525 1/4 165,157 1/2 150,093 1/2 135,030 1/2 119,966 1/2 104,900 1/2 89,829	1/2		1/2	213,302	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
1/4         1/4         212,661         1/4         198,040         1/4         183,027         1/4         167,981         1/4         152,917         1/4         137,854         1/4         122,790         1/4         107,726         1/4         92,655           1/2         1/2         212,430         1/2         197,727         1/2         182,715         1/2         167,667         1/2         152,604         1/2         137,540         1/2         122,477         1/2         107,412         1/2         92,341           3/4         212,198         3/4         197,414         3/4         182,402         3/4         167,353         3/4         152,290         3/4         137,226         3/4         122,163         3/4         107,098         3/4         92,027           10         11,918         10         197,101         10         182,089         10         167,039         10         151,976         10         136,912         10         121,849         10         106,784         10         91,713           1/2         211,3359         1/2         196,476         1/2         181,464         1/2         166,412         1/2         151,348         1/2         136,599 <td>3/4</td> <td></td> <td>3/4</td> <td>213,123</td> <td>3/4</td> <td>198,665</td> <td>3/4</td> <td>183,653</td> <td>3/4</td> <td>168,609</td> <td>3/4</td> <td>153,545</td> <td>3/4</td> <td>138,482</td> <td>3/4</td> <td>123,418</td> <td>3/4</td> <td>108,354</td> <td>3/4</td> <td>93,283</td>	3/4		3/4	213,123	3/4	198,665	3/4	183,653	3/4	168,609	3/4	153,545	3/4	138,482	3/4	123,418	3/4	108,354	3/4	93,283
1/2     1/2     212,430     1/2     197,727     1/2     182,715     1/2     167,667     1/2     152,604     1/2     137,540     1/2     122,477     1/2     107,412     1/2     92,341       3/4     212,198     3/4     197,414     3/4     182,402     3/4     167,353     3/4     152,290     3/4     137,226     3/4     122,163     3/4     107,098     3/4     92,027       10     10     211,918     10     197,101     10     182,089     10     167,039     10     151,976     10     136,912     10     121,849     10     106,784     10     91,713       1/4     1/4     211,638     1/4     196,789     1/4     181,776     1/4     166,726     1/4     151,662     1/4     136,599     1/4     121,535     1/4     106,470     1/4     91,399       1/2     211,359     1/2     196,476     1/2     181,464     1/2     166,412     1/2     151,348     1/2     136,285     1/2     121,221     1/2     106,156     1/2     91,085       3/4     210,773     11     195,850     11     180,838     11     165,784     11     150,0721     11     135,3	9		9	212,892	9	198,353	9	183,340	9	168,295	9	153,231	9	138,168	9	123,104	9	108,040	9	92,969
1/2     1/2     212,430     1/2     197,727     1/2     182,715     1/2     167,667     1/2     152,604     1/2     137,540     1/2     122,477     1/2     107,412     1/2     92,341       3/4     212,198     3/4     197,414     3/4     182,402     3/4     167,353     3/4     152,290     3/4     137,226     3/4     122,163     3/4     107,098     3/4     92,027       10     10     211,918     10     197,101     10     182,089     10     167,039     10     151,976     10     136,912     10     121,849     10     106,784     10     91,713       1/4     1/4     211,638     1/4     196,789     1/4     181,776     1/4     166,726     1/4     151,662     1/4     136,599     1/4     121,535     1/4     106,470     1/4     91,399       1/2     211,359     1/2     196,476     1/2     181,464     1/2     166,412     1/2     151,348     1/2     136,285     1/2     121,221     1/2     106,156     1/2     91,085       3/4     210,773     11     195,850     11     180,838     11     165,784     11     150,0721     11     135,3	1/4		1/4	212,661	1/4	198,040	1/4	183,027	1/4	167,981	1/4	152,917	1/4	137,854	1/4	122,790	1/4	107,726	1/4	92,655
3/4	1/2									· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·				•
10         10         211,918         10         197,101         10         182,089         10         167,039         10         151,976         10         136,912         10         121,849         10         106,784         10         91,713           1/4         1/4         211,638         1/4         196,789         1/4         181,776         1/4         166,726         1/4         151,662         1/4         136,599         1/4         121,535         1/4         106,470         1/4         91,399           1/2         211,359         1/2         196,476         1/2         181,464         1/2         166,412         1/2         151,348         1/2         136,285         1/2         121,221         1/2         106,156         1/2         91,085           3/4         211,079         3/4         196,163         3/4         181,151         3/4         166,098         3/4         151,034         3/4         135,971         3/4         120,907         3/4         105,842         3/4         90,771           11         11         210,773         11         195,850         11         180,838         11         165,784         11         150,407         1/4         <	3/4																			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10		_			•	_	· · · · · · · · · · · · · · · · · · ·	-	•			_		_	•	-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-		$oldsymbol{+}$		-		-	,	-		-		-		$oldsymbol{\longmapsto}$		-		-	
3/4     211,079     3/4     196,163     3/4     181,151     3/4     166,098     3/4     151,034     3/4     135,971     3/4     120,907     3/4     105,842     3/4     90,771       11     11     210,773     11     195,850     11     180,838     11     165,784     11     150,721     11     135,657     11     120,594     11     105,528     11     90,457       1/4     1/4     210,467     1/4     195,538     1/4     180,525     1/4     165,470     1/4     150,407     1/4     135,343     1/4     120,280     1/4     105,214     1/4     90,143       1/2     1/2     210,162     1/2     195,225     1/2     180,213     1/2     165,157     1/2     150,093     1/2     135,030     1/2     119,966     1/2     104,900     1/2     89,829										· · · · · · · · · · · · · · · · · · ·										•
11     11     210,773     11     195,850     11     180,838     11     165,784     11     150,721     11     135,657     11     120,594     11     105,528     11     90,457       1/4     1/4     210,467     1/4     195,538     1/4     180,525     1/4     165,470     1/4     150,407     1/4     135,343     1/4     120,280     1/4     105,214     1/4     90,143       1/2     1/2     210,162     1/2     195,225     1/2     180,213     1/2     165,157     1/2     150,093     1/2     135,030     1/2     119,966     1/2     104,900     1/2     89,829								,												
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1/2 210,162 1/2 195,225 1/2 180,213 1/2 165,157 1/2 150,093 1/2 135,030 1/2 119,966 1/2 104,900 1/2 89,829	11		-		-			,	-		-		-		11		-	•	-	
	1/4			-	1/4		1/4		1/4				1/4		1/4		1/4			
3/4 3/4 <b>209,856</b> 3/4 <b>194,912</b> 3/4 <b>179,900</b> 3/4 <b>164,843</b> 3/4 <b>149,779</b> 3/4 <b>134,716</b> 3/4 <b>119,652</b> 3/4 <b>104,586</b> 3/4 <b>89,515</b>	1/2		1/2	210,162	1/2	195,225	1/2		1/2	165,157	1/2		1/2	135,030	1/2	119,966	1/2		1/2	
	3/4		3/4	209,856	3/4	194,912	3/4	179,900	3/4	164,843	3/4	149,779	3/4	134,716	3/4	119,652	3/4	104,586	3/4	89,515

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-06" FORWARD OF AFT BULKHEAD.

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

The Scann



### 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

APACIT	IES GIVEN IN WHO	OLE GALLO	ONS												GAUGE HEIGHT	15'-10 3/4"
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	<b>16 FT.</b> ℕ	<b>17 FT.</b> ℕ	<b>18 FT.</b> ℕ	19 FT.
0	89,201	0	74,130	0	59,059	0	44,007	0	28,953	0	13,884	0	0	0	0	
1/4	88,887	1/4	73,816	1/4	58,745	1/4	43,694	1/4	28,639	1/4	13,570	1/4	1/4	1/4	1/4	
1/2	88,573	1/2	73,502	1/2	58,431	1/2	43,381	1/2	28,325	1/2	13,257	1/2	1/2	1/2	1/2	
3/4	88,259	3/4	73,188	3/4	58,117	3/4	43,068	3/4	28,011	3/4	12,943	3/4	3/4	3/4	3/4	
1	87,945	1	72,874	1	57,803	1	42,755	1	27,698	1	12,630	1	1	1	1	
/4	87,631	1/4	72,560	1/4	57,489	1/4	42,442	1/4	27,384	1/4	12,316	1/4	1/4	1/4	1/4	
1/2	87,317	1/2	72,246	1/2	57,175	1/2	42,129	1/2	27,070	1/2	12,003	1/2	1/2	1/2	1/2	
3/4	87,003	3/4	71,932	3/4	56,861	3/4	41,816	3/4	26,756	3/4	11,689	3/4	3/4	3/4	3/4	
2	86,689	2	71,618	2	56,547	2	41,503	2	26,442	2	11,378	2	2	2	2	
/4	86,375	1/4	71,304	1/4	56,233	1/4	41,190	1/4	26,128	1/4	11,067	1/4	1/4	1/4	1/4	
/2	86,061	1/2	70,990	1/2	55,919	1/2	40,877	1/4	25,814	1/2	10,756	1/2	1/4	1/4	1/4	
/4	85,747	3/4	70,676	3/4	55,605	3/4	40,564	3/4	25,501	3/4	10,730	3/4	3/4	3/4	3/4	
3	85,433	3/4	70,362	3/4	55,291	3/4	40,251	3/4	25,187	3/4	10,139	3/4	3/4	3/4	3/4	
_		-		$\leftarrow$		-		-		+		$\overline{}$				
/4	85,119	1/4	70,048	1/4	54,977	1/4	39,938	1/4	24,873	1/4	9,832	1/4	1/4	1/4	1/4	
/2	84,805	1/2	69,734	1/2	54,663 54.349	1/2	39,625	1/2	24,559	1/2	9,526 9,220	1/2	1/2	1/2	1/2	
/4	84,491	3/4	69,420	3/4	- ,	3/4	39,312	3/4	24,245	3/4	-, -	3/4	3/4	3/4	3/4	1
4	84,177	4	69,106	4	54,035	4	38,998	4	23,931	4	8,916	4	4	4	4	
/4	83,863	1/4	68,792	1/4	53,721	1/4	38,684	1/4	23,617	1/4	8,613	1/4	1/4	1/4	1/4	
2	83,549	1/2	68,478	1/2	53,407	1/2	38,371	1/2	23,303	1/2	8,309	1/2	1/2	1/2	1/2	
4	83,235	3/4	68,164	3/4	53,093	3/4	38,057	3/4	22,989	3/4	8,005	3/4	3/4	3/4	3/4	
	82,921	5	67,850	5	52,779	5	37,743	5	22,675	5	7,702	5	5	5	5	
4	82,607	1/4	67,536	1/4	52,465	1/4	37,429	1/4	22,361	1/4	7,398	1/4	1/4	1/4	1/4	
2	82,293	1/2	67,222	1/2	52,151	1/2	37,116	1/2	22,047	1/2	7,094	1/2	1/2	1/2	1/2	
4	81,979	3/4	66,908	3/4	51,837	3/4	36,802	3/4	21,733	3/4	6,791	3/4	3/4	3/4	3/4	
	81,665	6	66,594	6	51,524	6	36,488	6	21,419	6	6,487	6	6	6	6	
4	81,351	1/4	66,280	1/4	51,210	1/4	36,174	1/4	21,105	1/4	6,183	1/4	1/4	1/4	1/4	
2	81,037	1/2	65,966	1/2	50,896	1/2	35,860	1/2	20,791	1/2	5,879	1/2	1/2	1/2	1/2	
4	80,723	3/4	65,652	3/4	50,583	3/4	35,546	3/4	20,477	3/4	5,576	3/4	3/4	3/4	3/4	
7	80,409	7	65,338	7	50,269	7	35,232	7	20,163	7	5,272	7	7	7	7	
4	80.095	1/4	65.024	1/4	49.956	1/4	34,918	1/4	19,849	1/4	4.968	1/4	1/4	1/4	1/4	
2	79,781	1/2	64,710	1/2	49,643	1/2	34,604	1/2	19,535	1/2	4,664	1/2	1/2	1/2	1/2	
4	79,467	3/4	64,396	3/4	49,330	3/4	34,290	3/4	19,221	3/4	4,361	3/4	3/4	3/4	3/4	
	79,153	8	64,082	8	49,016	8	33,976	8	18,907	8	4,055	8	8	8	8	
4	78,839	1/4	63,768	1/4	48,703	1/4	33,662	1/4	18,593	1/4	3,750	1/4	1/4	1/4	1/4	
2	78,526	1/2	63,454	1/2	48,390	1/2	33,348	1/2	18,279	1/2	3,444	1/4	1/2	1/4	1/4	
4	78,212	3/4	63,140	3/4	48,077	3/4	33,034	3/4	17,965	3/4	3,138	3/4	3/4	3/4	3/4	
+	77,898	9	62,826	9	47,764	9	32,720	9	17,651	9	2,847	9	9	9	9	
-	77,584	-	62,513	$oldsymbol{oldsymbol{+}}$	47,764	$\rightarrow$	32,406	-	17,031		2,556					-
4	77,270	1/4	62,199	1/4	47,431	1/4	32,406	1/4	17,023	1/4	2,356	1/4	1/4	1/4	1/4	
2	76,956	1/2		1/2	46,825	1/2		1/2		1/2	1,974	1/2	1/2	1/2	1/2	
1		3/4	61,885	3/4		3/4	31,778	3/4	16,709	3/4		3/4	3/4	3/4	3/4	
<u> </u>	76,642	10	61,571	10	46,512	10	31,464	10	16,395	10	1,739	10	10	10	10	
4	76,328	1/4	61,257	1/4	46,199	1/4	31,150	1/4	16,081	1/4	1,503	1/4	1/4	1/4	1/4	
2	76,014	1/2	60,943	1/2	45,886	1/2	30,836	1/2	15,767	1/2	1,268	1/2	1/2	1/2	1/2	
4	75,700	3/4	60,629	3/4	45,573	3/4	30,522	3/4	15,453	3/4	1,032	3/4	3/4	3/4	3/4	
1	75,386	11	60,315	11	45,259	11	30,208	11	15,139	11		11	11	11	11	
4	75,072	1/4	60,001	1/4	44,946	1/4	29,894	1/4	14,826	1/4		1/4	1/4	1/4	1/4	
2	74,758	1/2	59,687	1/2	44,633	1/2	29,580	1/2	14,512	1/2		1/2	1/2	1/2	1/2	
/4	74,444	3/4	59,373	3/4	44,320	3/4	29,266	3/4	14,198	3/4		3/4	3/4	3/4	3/4	

STRAPPED: 02/03/2012 CL - SW CALCULATED: 02/05/2012 CL PRINTED: 02/05/2012 CL

CANCELS AND SUPERCEDES ALL PRIOR TO 02/2012 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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#### 3 PORT **ULLAGE TABLE**

IN					^ ET		, ET		4 FT		C ET		↑ ET		7 57				0 F7
	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		0		0	188,240	0	177,909	0	167,578	0	157,213	0	146,678	0	132,195	0	117,231	0	102,261
/4		1/4		1/4	188,025	1/4	177,694	1/4	167,363	1/4	156,997	1/4	146,430	1/4	131,883	1/4	116,920	1/4	101,949
/2		1/2		1/2	187,810	1/2	177,478	1/2	167,147	1/2	156,781	1/2	146,167	1/2	131,572	1/2	116,608	1/2	101,637
/4		3/4		3/4	187,595	3/4	177,263	3/4	166,932	3/4	156,565	3/4	145,905	3/4	131,260	3/4	116,296	3/4	101,325
1		1		1	187,380	1	177,048	1	166,716	1	156,349	1	145,642	1	130,948	1	115,984	1	101,013
1/4		1/4		1/4	187,164	1/4	176,833	1/4	166,500	1/4	156,133	1/4	145,379	1/4	130,637	1/4	115,673	1/4	100,700
1/2		1/2		1/2	186,949	1/2	176,618	1/2	166,284	1/2	155,917	1/2	145,100	1/2	130,325	1/2	115,361	1/2	100,388
3/4		3/4		3/4	186,734	3/4	176,402	3/4	166,068	3/4	155,701	3/4	144,822	3/4	130,013	3/4	115,049	3/4	100,076
2		2		2	186,518	2	176,187	2	165,852	2	155,485	2	144,543	2	129,701	2	114,737	2	99,764
1/4		1/4		1/4	186,303	1/4	175,972	1/4	165,636	1/4	155,269	1/4	144,265	1/4	129,390	1/4	114,426	1/4	99,452
1/2		1/2		1/2	186,088	1/2	175,757	1/2	165,420	1/2	155,053	1/2	143,970	1/2	129,078	1/2	114,114	1/2	99,140
3/4		3/4		3/4	185,872	3/4	175,541	3/4	165,204	3/4	154,837	3/4	143,675	3/4	128,766	3/4	113,802	3/4	98,827
3		3		3	185,657	3	175,326	3	164,989	3	154,621	3	143,381	3	128,454	3	113,490	3	98,515
1/4		1/4		1/4	185,442	1/4	175,111	1/4	164,773	1/4	154,405	1/4	143,086	1/4	128,143	1/4	113,179	1/4	98,203
1/2		1/2		1/2	185,227	1/2	174,896	1/2	164,557	1/2	154,189	1/2	142,779	1/2	127,831	1/2	112,867	1/2	97,891
3/4		3/4		3/4	185,011	3/4	174,681	3/4	164,341	3/4	153,973	3/4	142,472	3/4	127,519	3/4	112,555	3/4	97,579
4		4		4	184,796	4	174,465	4	164,125	4	153,757	4	142,165	4	127,207	4	112,243	4	97,267
1/4		1/4		1/4	184,581	1/4	174,250	1/4	163,909	1/4	153,541	1/4	141.858	1/4	126,896	1/4	111,932	1/4	96,955
1/2		1/2		1/2	184,366	1/2	174,035	1/2	163,693	1/2	153,325	1/2	141,546	1/2	126,584	1/2	111,620	1/2	96,643
3/4		3/4		3/4	184,150	3/4	173,820	3/4	163,477	3/4	153,109	3/4	141,235	3/4	126,272	3/4	111,308	3/4	96,331
5		5		5	183,935	5	173,604	5	163,261	5	152,893	5	140,924	5	125,960	5	110,996	5	96,019
_		-		-	183,720	_	173,389	_	163,045	-	152,677	-	140,612	-	125,649	-	110,685	-	95,707
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	183,505	1/2	173,174 172,959	1/2	162,829	1/2	152,461	1/2	140,300	1/2	125,337	1/2	110,373	1/2	95,395 95,084
3/4		3/4 <b>6</b>		3/4 <b>6</b>	183,290	3/4		3/4	162,613	3/4 <b>6</b>	152,245	3/4	139,989	3/4	125,025	3/4 <b>6</b>	110,061	3/4	
6		-		-	183,074	6	172,743	6	162,397	-	152,029	6	139,677	6	124,713	_	109,749	6	94,772
1/4		1/4		1/4	182,859	1/4	172,528	1/4	162,181	1/4	151,813	1/4	139,365	1/4	124,402	1/4	109,438	1/4	94,460
1/2		1/2		1/2	182,644	1/2	172,313	1/2	161,965	1/2	151,597	1/2	139,054	1/2	124,090	1/2	109,126	1/2	94,148
3/4		3/4		3/4	182,429	3/4	172,098	3/4	161,749	3/4	151,381	3/4	138,742	3/4	123,778	3/4	108,814	3/4	93,836
7		7		7	182,213	7	171,883	7	161,533	7	151,165	7	138,430	7	123,466	7	108,502	7	93,524
1/4		1/4	191,637	1/4	181,998	1/4	171,667	1/4	161,317	1/4	150,949	1/4	138,118	1/4	123,155	1/4	108,191	1/4	93,212
1/2		1/2	191,513	1/2	181,783	1/2	171,452	1/2	161,101	1/2	150,733	1/2	137,807	1/2	122,843	1/2	107,879	1/2	92,900
3/4		3/4	191,390	3/4	181,568	3/4	171,237	3/4	160,885	3/4	150,517	3/4	137,495	3/4	122,531	3/4	107,567	3/4	92,588
8		8	191,266	8	181,353	8	171,022	8	160,669	8	150,301	8	137,183	8	122,219	8	107,255	8	92,276
1/4		1/4	191,143	1/4	181,137	1/4	170,806	1/4	160,453	1/4	150,085	1/4	136,871	1/4	121,908	1/4	106,943	1/4	91,964
1/2		1/2	190,983	1/2	180,922	1/2	170,591	1/2	160,237	1/2	149,869	1/2	136,560	1/2	121,596	1/2	106,631	1/2	91,652
3/4		3/4	190,823	3/4	180,707	3/4	170,376	3/4	160,021	3/4	149,653	3/4	136,248	3/4	121,284	3/4	106,319	3/4	91,341
9		9	190,664	9	180,492	9	170,161	9	159,805	9	149,437	9	135,936	9	120,972	9	106,007	9	91,029
1/4		1/4	190,504	1/4	180,276	1/4	169,946	1/4	159,589	1/4	149,222	1/4	135,624	1/4	120,661	1/4	105,695	1/4	90,717
1/2		1/2	190,311	1/2	180,061	1/2	169,730	1/2	159,373	1/2	149,002	1/2	135,313	1/2	120,349	1/2	105,383	1/2	90,405
3/4		3/4	190,118	3/4	179,846	3/4	169,515	3/4	159,157	3/4	148,783	3/4	135,001	3/4	120,037	3/4	105,071	3/4	90,093
10		10	189,925	10	179,631	10	169,300	10	158,941	10	148,563	10	134,689	10	119,725	10	104,759	10	89,781
1/4		1/4	189,732	1/4	179,416	1/4	169,085	1/4	158,725	1/4	148,343	1/4	134,377	1/4	119,414	1/4	104,446	1/4	89,469
1/2		1/2	189,520	1/2	179,200	1/2	168,869	1/2	158,509	1/2	148,112	1/2	134,066	1/2	119,102	1/2	104,134	1/2	89,157
3/4		3/4	189,309	3/4	178,985	3/4	168,654	3/4	158,293	3/4	147,881	3/4	133,754	3/4	118,790	3/4	103,822	3/4	88,845
11		11	189,097	11	178,770	11	168,439	11	158,077	11	147,650	11	133,442	11	118,478	11	103,510	11	88,533
_		1/4	188,885	1/4	178,770	-	168,224	1/4	157,861	1/4	147,419	1/4	133,130	-	118,167	1/4	103,310	-	88,221
1/4			•			1/4								1/4				1/4	
		1/2	188,670	1/2	178,339	1/2	168,009	1/2	157,645	1/2	147,172	1/2	132,819	1/2	117,855	1/2	102,886	1/2	87,909

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 THREADS ON "MMC" VALVE. GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

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



### 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/4"

PACI	FIES GIVEN IN WHO	OLE GALLO	ONS												GAUGE HEIGHT	13-10 1/4
N	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT. N	<b>17 FT</b> . ℕ	<b>18 FT.</b> ℕ	19 FT.
)	87,285	0	72,413	0	57,522	0	42,989	0	28,179	0	13,201	0	0	0	0	
4	86,973	1/4	72,103	1/4	57,217	1/4	42,684	1/4	27,868	1/4	12,889	1/4	1/4	1/4	1/4	
	86,664	1/2	71,793	1/2	56,913	1/2	42,379	1/2	27,558	1/2	12,577	1/2	1/2	1/2	1/2	
	86,354	3/4	71,482	3/4	56,609	3/4	42,074	3/4	27,248	3/4	12,265	3/4	3/4	3/4	3/4	
1	86,044	1	71,172	1	56,305	1	41,769	1	26,938	1	11,953	1	1	1	1	
1	85,735	1/4	70,862	1/4	56,001	1/4	41,464	1/4	26,627	1/4	11,641	1/4	1/4	1/4	1/4	
	85,427	1/2	70,551	1/2	55,698	1/2	41,159	1/2	26,316	1/2	11,331	1/2	1/2	1/2	1/2	
	85,120	3/4	70,241	3/4	55,396	3/4	40,854	3/4	26,004	3/4	11,022	3/4	3/4	3/4	3/4	
$\dagger$	84,813	2	69,931	2	55,093	2	40,549	2	25,692	2	10,712	2	2	2	2	
+	84,506	1/4	69,620	1/4	54,791	1/4	40,244	1/4	25,381	1/4	10,402	1/4	1/4	1/4	1/4	
_	84,199	1/2	69,310	1/4	54,488	1/2	39,939	1/2	25,068	1/2	10,097	1/4	1/4	1/4	1/4	
	83,892	3/4	69,000	3/4	54,186	3/4	39,634	3/4	24,756	3/4	9,792	3/4	3/4	3/4	3/4	
_		_		_		_		_		_		_				
4	83,585	3	68,690	3	53,883	3	39,329	3	24,444	3	9,487	3	3	3	3	
	83,278	1/4	68,379	1/4	53,581	1/4	39,024	1/4	24,131	1/4	9,182	1/4	1/4	1/4	1/4	
-	82,971	1/2	68,069	1/2	53,278	1/2	38,719	1/2	23,819	1/2	8,880	1/2	1/2	1/2	1/2	
+	82,664	3/4	67,759	3/4	52,976	3/4	38,414	3/4	23,507	3/4	8,578	3/4	3/4	3/4	3/4	
┸	82,356	4	67,448	4	52,674	4	38,109	4	23,194	4	8,275	4	4	4	4	
	82,049	1/4	67,138	1/4	52,371	1/4	37,804	1/4	22,882	1/4	7,973	1/4	1/4	1/4	1/4	
	81,740	1/2	66,828	1/2	52,069	1/2	37,499	1/2	22,570	1/2	7,670	1/2	1/2	1/2	1/2	
	81,430	3/4	66,518	3/4	51,766	3/4	37,194	3/4	22,257	3/4	7,368	3/4	3/4	3/4	3/4	
	81,120	5	66,207	5	51,464	5	36,889	5	21,945	5	7,066	5	5	5	5	
T	80,811	1/4	65,897	1/4	51,161	1/4	36,584	1/4	21,633	1/4	6,764	1/4	1/4	1/4	1/4	•
	80,498	1/2	65,587	1/2	50,859	1/2	36,276	1/2	21,320	1/2	6,461	1/2	1/2	1/2	1/2	
	80,186	3/4	65,276	3/4	50,556	3/4	35,967	3/4	21,008	3/4	6,159	3/4	3/4	3/4	3/4	
T	79,874	6	64,966	6	50,254	6	35,659	6	20,696	6	5,857	6	6	6	6	
1	79,562	1/4	64,656	1/4	49,951	1/4	35,351	1/4	20,383	1/4	5,554	1/4	1/4	1/4	1/4	
	79,249	1/2	64,345	1/2	49,649	1/2	35,039	1/2	20,071	1/2	5,252	1/2	1/2	1/2	1/2	
Т	78,937	3/4	64,035	3/4	49,347	3/4	34,727	3/4	19,758	3/4	4,949	3/4	3/4	3/4	3/4	
Ť	78,625	7	63,725	7	49,044	7	34,416	7	19,446	7	4,647	7	7	7	7	
+	78,313	1/4	63,415	1/4	48,742	1/4	34,104	1/4	19,134	1/4	4,344	1/4	1/4	1/4	1/4	
t	78,001	1/2	63,103	1/2	48,439	1/2	33,792	1/2	18,821	1/2	4,040	1/2	1/2	1/2	1/2	
+	77,690	3/4	62,792	3/4	48,137	3/4	33,479	3/4	18,509	3/4	3,736	3/4	3/4	3/4	3/4	
$^{+}$	77,379	8	62,481	8	47,834	8	33,167	8	18,197	8	3,431	8	8	8	8	
+	77,068	1/4	62,170	_	47,532	-	32,855	-	17,884	-	3,431	-			1/4	
+	76,757		61.858	1/4	47,532	1/4	32,542	1/4	17,572	1/4	2.837	1/4	1/4	1/4		
-	-, -	1/2	, , , , , ,		,	1/2	32,542	1/2	17,572		2,837	1/2	1/2		1/2	
ł	76,447	3/4 <b>9</b>	61,546	3/4 <b>9</b>	46,928	3/4		3/4 <b>9</b>		3/4 <b>9</b>		3/4 <b>9</b>	3/4	3/4	3/4	
4	76,137	-	61,234		46,626	9	31,918		16,947	$\vdash$	2,257	-		9		
+	75,826	1/4	60,922	1/4	46,324	1/4	31,605	1/4	16,635	1/4	1,967	1/4	1/4	1/4	1/4	
-	75,516	1/2	60,610	1/2	46,022	1/2	31,293	1/2	16,323	1/2	1,732	1/2	1/2	1/2	1/2	
Ļ	75,206	3/4	60,298	3/4	45,720	3/4	30,981	3/4	16,010	3/4	1,497	3/4	3/4	3/4	3/4	
L	74,895	10	59,986	10	45,419	10	30,668	10	15,698	10	1,263	10	10	10	10	
	74,585	1/4	59,675	1/4	45,117	1/4	30,356	1/4	15,386	1/4	1,028	1/4	1/4	1/4	1/4	
	74,275	1/2	59,366	1/2	44,814	1/2	30,044	1/2	15,073	1/2		1/2	1/2	1/2	1/2	
	73,965	3/4	59,057	3/4	44,510	3/4	29,733	3/4	14,761	3/4		3/4	3/4	3/4	3/4	
Ī	73,654	11	58,748	11	44,207	11	29,421	11	14,449	11		11	11	11	11	
	73,344	1/4	58,439	1/4	43,904	1/4	29,110	1/4	14,137	1/4		1/4	1/4	1/4	1/4	
T	73,034	1/2	58,134	1/2	43,599	1/2	28,799	1/2	13,825	1/2		1/2	1/2	1/2	1/2	
T	72,723	3/4	57,828	3/4	43,294	3/4	28,489	3/4	13,513	3/4		3/4	3/4	3/4	3/4	

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



### 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

**GAUGE HEIGHT 15'-10 1/2"** 

APAC	ITIES GIVEN IN WHOLE GAI															GAUGE H		15-10 1/2"
IN	0 FT. N	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	0		0	189,462	0	179,136	0	168,811	0	158,452	0	147,953	0	133,514	0	118,526	0	103,532
1/4	1/4		1/4	189,247	1/4	178,921	1/4	168,596	1/4	158,237	1/4	147,706	1/4	133,201	1/4	118,213	1/4	103,219
1/2	1/2		1/2	189,032	1/2	178,706	1/2	168,381	1/2	158,021	1/2	147,459	1/2	132,889	1/2	117,901	1/2	102,907
3/4	3/4		3/4	188,817	3/4	178,491	3/4	168,165	3/4	157,805	3/4	147,196	3/4	132,577	3/4	117,589	3/4	102,594
1	1		1	188,602	1	178,276	1	167,950	1	157,589	1	146,933	1	132,265	1	117,277	1	102,281
$\rightarrow$			_		_		$\vdash$		$\vdash$		-		_				-	
1/4	1/4		1/4	188,387	1/4	178,061	1/4	167,734	1/4	157,373	1/4	146,670	1/4	131,952	1/4	116,964	1/4	101,969
1/2	1/2		1/2	188,171	1/2	177,846	1/2	167,519	1/2	157,157	1/2	146,407	1/2	131,640	1/2	116,652	1/2	101,656
3/4	3/4		3/4	187,956	3/4	177,630	3/4	167,303	3/4	156,941	3/4	146,128	3/4	131,328	3/4	116,340	3/4	101,343
2	2	ļ	2	187,741	2	177,415	2	167,087	2	156,725	2	145,848	2	131,016	2	116,028	2	101,031
1/4	1/4		1/4	187,526	1/4	177,200	1/4	166,871	1/4	156,510	1/4	145,569	1/4	130,703	1/4	115,715	1/4	100,718
1/2	1/2		1/2	187,310	1/2	176,985	1/2	166,655	1/2	156,294	1/2	145,290	1/2	130,391	1/2	115,403	1/2	100,405
3/4	3/4		3/4	187,095	3/4	176,770	3/4	166,439	3/4	156,078	3/4	144,995	3/4	130,079	3/4	115,091	3/4	100,093
3	3		3	186,880	3	176,555	3	166,224	3	155,862	3	144,700	3	129,767	3	114,779	3	99,780
1/4	1/4		1/4	186,665	1/4	176,340	1/4	166,008	1/4	155,646	1/4	144,405	1/4	129,454	1/4	114,466	1/4	99,467
1/2	1/2		1/2	186,450	1/2	176,125	1/2	165,792	1/2	155,430	1/2	144,110	1/2	129,142	1/2	114,154	1/2	99,155
3/4	3/4		3/4	186,235	3/4	175,910	3/4	165,576	3/4	155,214	3/4	143,802	3/4	128,830	3/4	113,842	3/4	98,842
4	4		4	186,020	4	175,694	4	165,360	4	154,999	4	143,495	4	128,518	4	113,530	4	98,529
1/4	1/4		1/4	185,804	1/4	175,479	1/4	165,144	1/4	154,783	1/4	143,187	1/4	128,205	1/4	113,218	1/4	98,217
1/2	1/2		1/2	185,589	1/2	175,264	1/2	164,928	1/2	154,567	1/2	142,880	1/2	127,893	1/2	112,905	1/2	97,904
3/4	3/4		3/4	185,374	3/4	175,049	3/4	164,713	3/4	154,351	3/4	142,568	3/4	127,581	3/4	112,593	3/4	97,591
5	5		5	185,159	5	174,834	5	164,497	5	154,135	5	142,256	5	127,269	5	112,281	5	97,279
$\rightarrow$			-		-		-		$oldsymbol{\mapsto}$		-		-				-	
1/4	1/4		1/4	184,944	1/4	174,619	1/4	164,281	1/4	153,919	1/4	141,944	1/4	126,956	1/4	111,969	1/4	96,966
1/2	1/2		1/2	184,729	1/2	174,404	1/2	164,065	1/2	153,703	1/2	141,632	1/2	126,644	1/2	111,656	1/2	96,653
3/4	3/4		3/4	184,514	3/4	174,189	3/4	163,849	3/4	153,487	3/4	141,320	3/4	126,332	3/4	111,344	3/4	96,341
6	6		6	184,299	6	173,974	6	163,633	6	153,272	6	141,007	6	126,020	6	111,032	6	96,028
1/4	1/4		1/4	184,084	1/4	173,758	1/4	163,417	1/4	153,056	1/4	140,695	1/4	125,707	1/4	110,720	1/4	95,715
1/2	1/2		1/2	183,869	1/2	173,543	1/2	163,201	1/2	152,840	1/2	140,383	1/2	125,395	1/2	110,407	1/2	95,403
3/4	3/4		3/4	183,653	3/4	173,328	3/4	162,986	3/4	152,624	3/4	140,071	3/4	125,083	3/4	110,095	3/4	95,090
7	7		7	183,438	7	173,113	7	162,770	7	152,408	7	139,759	7	124,771	7	109,783	7	94,777
1/4	1/4		1/4	183,223	1/4	172,898	1/4	162,554	1/4	152,192	1/4	139,446	1/4	124,458	1/4	109,470	1/4	94,465
1/2	1/2	192,642	1/2	183,008	1/2	172,683	1/2	162,338	1/2	151,976	1/2	139,134	1/2	124,146	1/2	109,158	1/2	94,152
3/4	3/4	192,518	3/4	182,793	3/4	172,468	3/4	162,122	3/4	151,760	3/4	138,822	3/4	123,834	3/4	108,846	3/4	93,839
8	8	192,395	8	182,578	8	172,253	8	161,906	8	151,545	8	138,510	8	123,522	8	108,533	8	93,527
1/4	1/4	192,271	1/4	182,363	1/4	172,038	1/4	161,690	1/4	151,329	1/4	138,197	1/4	123,209	1/4	108,221	1/4	93,214
1/2	1/2	192,147	1/2	182,148	1/2	171,823	1/2	161,475	1/2	151,113	1/2	137,885	1/2	122,897	1/2	107,909	1/2	92,901
3/4	3/4	191,988	3/4	181,933	3/4	171,607	3/4	161,259	3/4	150,897	3/4	137,573	3/4	122,585	3/4	107,596	3/4	92,589
9	9	191,828	9	181,717	9	171,392	9	161,043	9	150,681	9	137,261	9	122,273	9	107,284	9	92,276
1/4	1/4	191,669	1/4	181,502	1/4	171,177	1/4	160,827	1/4	150,465	1/4	136,948	1/4	121,960	1/4	106,971	1/4	91,963
1/2	1/2	191,509	1/2	181,287	1/2	170,962	1/2	160,611	1/2	150,249	1/2	136,636	1/2	121,648	1/2	106,659	1/2	91,651
3/4	3/4	191,316	3/4	181,072	3/4	170,747	3/4	160,395	3/4	150,030	3/4	136,324	3/4	121,336	3/4	106,346	3/4	91,338
10	10	191,123	10	180,857	10	170,532	10	160,179	10	149,811	10	136,012	10	121,024	10	106,033	10	91,025
					-				$oldsymbol{oldsymbol{+}}$	· · · · · · · · · · · · · · · · · · ·	-				-		-	
1/4	1/4	190,930	1/4	180,642	1/4	170,317	1/4	159,963	1/4	149,591	1/4	135,699	1/4	120,711	1/4	105,721	1/4	90,713
1/2	1/2	190,737	1/2	180,427	1/2	170,102	1/2	159,748	1/2	149,372	1/2	135,387	1/2	120,399	1/2	105,408	1/2	90,400
3/4	3/4	190,526	3/4	180,212	3/4	169,887	3/4	159,532	3/4	149,141	3/4	135,075	3/4	120,087	3/4	105,095	3/4	90,087
11	11	190,314	11	179,997	11	169,671	11	159,316	11	148,910	11	134,763	11	119,775	11	104,783	11	89,775
1/4	1/4	190,103	1/4	179,781	1/4	169,456	1/4	159,100	1/4	148,679	1/4	134,450	1/4	119,462	1/4	104,470	1/4	89,462
1/2	1/2	189,891	1/2	179,566	1/2	169,241	1/2	158,884	1/2	148,448	1/2	134,138	1/2	119,150	1/2	104,157	1/2	89,149
	3/4	189,677	3/4	179,351	3/4	169,026	3/4	158,668	3/4	148,200		133,826	3/4	118,838	3/4	103,845	3/4	88,837

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 THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 43'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT & ANALYSIS, INC. P.O. Box 2092

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



# 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 1/2"

PACII	IES GIVEN IN WH	JLE GALLO	JNS												GAUGE HEIGHT	13-10 1/2
N	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT. N	<b>17 FT.</b> ℕ	<b>18 FT</b> . ℕ	19 FT.
0	88,524	0	73,528	0	58,520	0	43,515	0	28,520	0	13,513	0	0	0	0	
4	88,211	1/4	73,216	1/4	58,207	1/4	43,203	1/4	28,207	1/4	13,201	1/4	1/4	1/4	1/4	
2	87,899	1/2	72,903	1/2	57,894	1/2	42,890	1/2	27,895	1/2	12,888	1/2	1/2	1/2	1/2	
	87,586	3/4	72,590	3/4	57,581	3/4	42,578	3/4	27,582	3/4	12,576	3/4	3/4	3/4	3/4	
1	87,274	1	72,278	1	57,269	1	42,266	1	27,269	1	12,264	1	1	1	1	
	86,962	1/4	71,965	1/4	56,956	1/4	41,954	1/4	26,957	1/4	11,952	1/4	1/4	1/4	1/4	
	86,650	1/2	71,652	1/2	56,643	1/2	41,642	1/2	26,644	1/2	11,639	1/2	1/2	1/2	1/2	
	86,338	3/4	71,340	3/4	56,331	3/4	41,330	3/4	26,331	3/4	11,330	3/4	3/4	3/4	3/4	
	86,026	2	71,027	2	56,018	2	41,017	2	26,019	2	11,020	2	2	2	2	
1	85,714	1/4	70,714	1/4	55,705	1/4	40,705	1/4	25,706	1/4	10,710	1/4	1/4	1/4	1/4	
_	85,402		70,714		55,393		40,703	_	25,393		10,400					
		1/2		1/2		1/2		1/2		1/2		1/2	1/2	1/2	1/2	
-	85,090	3/4	70,089	3/4	55,080	3/4	40,081	3/4	25,081	3/4	10,095	3/4	3/4	3/4	3/4	
4	84,778	3	69,776	3	54,767	3	39,769	3	24,768	3	9,791	3	3	3	3	
	84,466	1/4	69,463	1/4	54,455	1/4	39,456	1/4	24,455	1/4	9,486	1/4	1/4	1/4	1/4	
	84,155	1/2	69,151	1/2	54,142	1/2	39,144	1/2	24,143	1/2	9,181	1/2	1/2	1/2	1/2	
	83,843	3/4	68,838	3/4	53,829	3/4	38,832	3/4	23,830	3/4	8,878	3/4	3/4	3/4	3/4	
┵	83,531	4	68,525	4	53,517	4	38,520	4	23,517	4	8,576	4	4	4	4	
	83,219	1/4	68,213	1/4	53,204	1/4	38,208	1/4	23,205	1/4	8,274	1/4	1/4	1/4	1/4	
	82,907	1/2	67,900	1/2	52,891	1/2	37,895	1/2	22,892	1/2	7,971	1/2	1/2	1/2	1/2	
	82,595	3/4	67,587	3/4	52,579	3/4	37,583	3/4	22,579	3/4	7,669	3/4	3/4	3/4	3/4	
	82,283	5	67,275	5	52,266	5	37,271	5	22,267	5	7,367	5	5	5	5	
	81,970	1/4	66,962	1/4	51,953	1/4	36,959	1/4	21,954	1/4	7,064	1/4	1/4	1/4	1/4	
	81,658	1/2	66,649	1/2	51,640	1/2	36,647	1/2	21,641	1/2	6,762	1/2	1/2	1/2	1/2	
	81,345	3/4	66,337	3/4	51,328	3/4	36,335	3/4	21,329	3/4	6,460	3/4	3/4	3/4	3/4	
1	81,033	6	66,024	6	51,015	6	36,022	6	21,016	6	6,157	6	6	6	6	
+	80,720	1/4	65,711	1/4	50,702	1/4	35,710	1/4	20,703	1/4	5,855	1/4	1/4	1/4	1/4	
	80,407	1/2	65,399	1/2	50,390	1/2	35,398	1/2	20,391	1/2	5,552	1/2	1/2	1/2	1/2	
	80,095	3/4	65,086	3/4	50,077	3/4	35,086	3/4	20,078	3/4	5,250	3/4	3/4	3/4	3/4	
+	79,782	7	64,773	7	49,764	7	34,773	7	19,765	7	4,947	7	7	7	7	
	79,469	$\leftarrow$	64,460	-	49,452	-	34,461	$\vdash$	19,453	$\vdash$	4,645	$\rightarrow$				
		1/4	64,148	1/4		1/4		1/4	19,453	1/4		1/4	1/4	1/4	1/4	
	79,157	1/2		1/2	49,139	1/2	34,148	1/2		1/2	4,342	1/2	1/2	1/2	1/2	
+	78,844	3/4	63,835	3/4	48,826	3/4	33,836	3/4	18,827	3/4	4,038	3/4	3/4	3/4	3/4	
4	78,531	8	63,522	8	48,514	8	33,523	8	18,515	8	3,734	8	8	8	8	
_	78,219	1/4	63,210	1/4	48,201	1/4	33,210	1/4	18,202	1/4	3,430	1/4	1/4	1/4	1/4	
	77,906	1/2	62,897	1/2	47,888	1/2	32,898	1/2	17,889	1/2	3,125	1/2	1/2	1/2	1/2	
$\downarrow$	77,593	3/4	62,584	3/4	47,576	3/4	32,585	3/4	17,577	3/4	2,835	3/4	3/4	3/4	3/4	
┸	77,280	9	62,272	9	47,263	9	32,272	9	17,264	9	2,545	9	9	9	9	
	76,968	1/4	61,959	1/4	46,951	1/4	31,960	1/4	16,951	1/4	2,256	1/4	1/4	1/4	1/4	
	76,655	1/2	61,646	1/2	46,638	1/2	31,647	1/2	16,639	1/2	1,966	1/2	1/2	1/2	1/2	
	76,342	3/4	61,334	3/4	46,326	3/4	31,334	3/4	16,326	3/4	1,731	3/4	3/4	3/4	3/4	
Ĭ	76,030	10	61,021	10	46,013	10	31,022	10	16,013	10	1,497	10	10	10	10	
	75,717	1/4	60,708	1/4	45,701	1/4	30,709	1/4	15,701	1/4	1,262	1/4	1/4	1/4	1/4	
	75,404	1/2	60,396	1/2	45,388	1/2	30,396	1/2	15,388	1/2	1,028	1/2	1/2	1/2	1/2	
	75,092	3/4	60,083	3/4	45,076	3/4	30,084	3/4	15,075	3/4	=	3/4	3/4	3/4	3/4	
+	74,779	11	59,770	11	44,764	11	29,771	11	14,763	11		11	11	11	11	
+	74,466	1/4	59,458	1/4	44,452	1/4	29,458	1/4	14,450	1/4		1/4	1/4	1/4	1/4	
+	74,466	1/4	59,145	1/4	44,139	1/4	29,146	1/4	14,138	1/4		1/4	1/4	1/4	1/4	
	73,841	3/4	58,832	3/4	43,827	3/4	28,833	3/4	13,825	3/4		3/4	3/4	3/4	3/4	

STRAPPED: 02/03/2012 CL - SW CALCULATED: 02/05/2012 CL PRINTED: 02/05/2012 CL

CANCELS AND SUPERCEDES ALL PRIOR TO 02/2012 CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



PORT SLOP
ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

APACIII	ES GIVEN IN WH	OLE GALLO	ONS														GAUGE HEIG	
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. N	9 FT.
0		0		0	4,801	0	3,650	0	2,497	0	1,345	0	192	0		0	0	
1/4		1/4		1/4	4,777	1/4	3,626	1/4	2,473	1/4	1,321	1/4	168	1/4		1/4	1/4	1
/2		1/2		1/2	4,754	1/2	3,602	1/2	2,449	1/2	1,297	1/2	144	1/2		1/2	1/2	
3/4		3/4		3/4	4,730	3/4	3,578	3/4	2,426	3/4	1,273	3/4	120	3/4		3/4	3/4	+
1		1		1	4.706	1	3,553	1	2,402	1	1,249	1	96	1		1	1	+
/4		1/4		1/4	4,682	1/4	3,529	1/4	2,378	1/4	1,225	1/4	<del></del>	1/4		1/4	1/4	-
					4,658		3,505	_	2,354	1/4	1,201	_					1/4	+
1/2		1/2		1/2	4,634	1/2	3,481	1/2 3/4	2,330	3/4	1,177	1/2		1/2		1/2	·	
3/4		3/4		3/4		3/4		_		-		3/4		3/4		3/4	3/4	+
2		2		2	4,610	2	3,457	2	2,306	2	1,153	2		2		2	2	4
/4		1/4		1/4	4,586	1/4	3,433	1/4	2,282	1/4	1,129	1/4		1/4		1/4	1/4	+
/2		1/2		1/2	4,562	1/2	3,409	1/2	2,258	1/2	1,105	1/2		1/2		1/2	1/2	
3/4		3/4		3/4	4,538	3/4	3,385	3/4	2,234	3/4	1,081	3/4		3/4		3/4	3/4	
3		3		3	4,514	3	3,361	3	2,210	3	1,057	3		3		3	3	
/4		1/4		1/4	4,490	1/4	3,337	1/4	2,186	1/4	1,033	1/4		1/4		1/4	1/4	
/2		1/2		1/2	4,466	1/2	3,313	1/2	2,162	1/2	1,009	1/2		1/2		1/2	1/2	
/4		3/4		3/4	4,442	3/4	3,289	3/4	2,138	3/4	985	3/4		3/4		3/4	3/4	
4		4		4	4,418	4	3,265	4	2,114	4	961	4		4		4	4	
/4		1/4		1/4	4,394	1/4	3,241	1/4	2,090	1/4	937	1/4		1/4		1/4	1/4	
/2		1/2		1/2	4,370	1/2	3,217	1/2	2,066	1/2	913	1/2		1/2		1/2	1/2	
/4		3/4		3/4	4,346	3/4	3,193	3/4	2,042	3/4	889	3/4		3/4		3/4	3/4	
5		5		5	4,322	5	3,169	5	2,017	5	865	5		5		5	5	T
4		1/4		1/4	4,298	1/4	3,145	1/4	1,993	1/4	841	1/4		1/4		1/4	1/4	1
/2		1/2		1/2	4,274	1/2	3,121	1/2	1,969	1/2	817	1/2		1/2		1/2	1/2	
/4		3/4		3/4	4,250	3/4	3,097	3/4	1,945	3/4	793	3/4		3/4		3/4	3/4	
6		6		6	4,226	6	3,073	6	1,921	6	769	6		6		6	6	
/4		1/4		1/4	4,202	1/4	3,049	1/4	1,897	1/4	745	1/4		1/4		1/4	1/4	4
		1/2		1/2	4,178	1/2	3,025	1/2	1,873	1/2	721	1/2				1/2	1/4	+
/2		3/4		3/4	4,174	3/4	3,001	3/4	1,849	3/4	697	3/4		1/2 3/4		3/4	3/4	+
-		7						3/4 <b>7</b>		3/4 <b>7</b>		_		7		3/4 <b>7</b>		+
7		-		7	4,130	7	2,977	-	1,825	_	673	7		-			7	_
/4		1/4		1/4	4,106	1/4	2,953	1/4	1,801	1/4	649	1/4		1/4		1/4	1/4	
/2		1/2		1/2	4,082	1/2	2,929	1/2	1,777	1/2	625	1/2		1/2		1/2	1/2	-
/4		3/4		3/4	4,058	3/4	2,905	3/4	1,753	3/4	601	3/4		3/4		3/4	3/4	
В		8	5,131	8	4,034	8	2,881	8	1,729	8	577	8		8		8	8	<b>↓</b>
/4		1/4	5,119	1/4	4,010	1/4	2,857	1/4	1,705	1/4	552	1/4		1/4		1/4	1/4	
/2		1/2	5,108	1/2	3,986	1/2	2,833	1/2	1,681	1/2	528	1/2		1/2		1/2	1/2	
/4		3/4	5,096	3/4	3,962	3/4	2,809	3/4	1,657	3/4	504	3/4		3/4		3/4	3/4	<u>↓</u>
9		9	5,084	9	3,938	9	2,785	9	1,633	9	480	9	·	9		9	9	
/4		1/4	5,061	1/4	3,914	1/4	2,761	1/4	1,609	1/4	456	1/4		1/4		1/4	1/4	
/2		1/2	5,037	1/2	3,890	1/2	2,737	1/2	1,585	1/2	432	1/2		1/2		1/2	1/2	
/4		3/4	5,014	3/4	3,866	3/4	2,713	3/4	1,561	3/4	408	3/4		3/4		3/4	3/4	
0		10	4,990	10	3,842	10	2,689	10	1,537	10	384	10		10	İ	10	10	
/4		1/4	4,967	1/4	3,818	1/4	2,665	1/4	1,513	1/4	360	1/4		1/4		1/4	1/4	1
/2		1/2	4,943	1/2	3,794	1/2	2,641	1/2	1,489	1/2	336	1/2		1/2		1/2	1/2	+
/4		3/4	4,919	3/4	3,770	3/4	2,617	3/4	1,465	3/4	312	3/4		3/4		3/4	3/4	+
1		11	4,896	11	3,746	11	2,593	11	1,441	11	288	11		11		11	11	†
_		-	4,872	1/4	3,722	1/4	2,569	1/4	1,417	1/4	264	1/4		1/4		1/4	1/4	+
/4		1/4						_										+
1/2		1/2	4,848	1/2	3,698	1/2	2,545	1/2	1,393	1/2	240	1/2		1/2		1/2	1/2	+
/4		3/4	4,825	3/4	3,674	3/4	2,521	3/4	1,369	3/4	216	3/4		3/4		3/4	APT FOR THE AROVE N	

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 THREADS ON "MMC" VALVE.

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PRECISION MEASUREMENT & ANALYSIS, INC. P.O. Box 2092

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



# STBD SLOP ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-01"

APACITI	ES GIVEN IN WHO	JLE GALLO	INS														GAUGE HE	ıGп	1 0-01
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.	N	9 FT.
0		0		0	4,801	0	3,650	0	2,497	0	1,345	0	192	0		0		0	
1/4		1/4		1/4	4,777	1/4	3,626	1/4	2,473	1/4	1,321	1/4	168	1/4		1/4	1	/4	
1/2		1/2		1/2	4,754	1/2	3,602	1/2	2,449	1/2	1,297	1/2	144	1/2		1/2		/2	
3/4		3/4		3/4	4,730	3/4	3,578	3/4	2,426	3/4	1,273	3/4	120	3/4		3/4		/4	
1		1		1	4,706	1	3,553	1	2,402	1	1,249	1	96	1		1		1	
1/4		1/4		1/4	4,682	1/4	3,529	1/4	2,378	1/4	1,225	1/4	=	1/4		1/4	1	/4	
1/2		1/2		1/2	4,658	1/2	3,505	1/2	2,354	1/2	1,201	1/2		1/2		1/2		/2	
3/4		3/4		3/4	4,634	3/4	3,481	3/4	2,330	3/4	1,177	3/4		3/4		3/4		/4	
2		2		2	4,610	2	3,457	2	2,306	2	1,153	2		2		2		2	
_		$\longrightarrow$		1/4	4,586	-	3,433	$\vdash$	2,282	$\vdash$	1,129	_		-		1/4		_	
1/4		1/4			4,562	1/4	3,409	1/4	2,258	1/4	1,125	1/4		1/4				/4	
1/2		1/2		1/2		1/2		1/2	2,234	1/2	1,105	1/2		1/2		1/2		/2	
3/4		3/4		3/4	4,538	3/4	3,385	3/4	,	3/4		3/4		3/4		3/4		/4	
3		3		3	4,514	3	3,361	3	2,210	3	1,057	3		3		3		3	
1/4		1/4		1/4	4,490	1/4	3,337	1/4	2,186	1/4	1,033	1/4		1/4		1/4		/4	
/2		1/2		1/2	4,466	1/2	3,313	1/2	2,162	1/2	1,009	1/2		1/2		1/2		/2	
3/4		3/4		3/4	4,442	3/4	3,289	3/4	2,138	3/4	985	3/4		3/4		3/4		/4	
4		4		4	4,418	4	3,265	4	2,114	4	961	4		4		4		4	
/4		1/4		1/4	4,394	1/4	3,241	1/4	2,090	1/4	937	1/4		1/4		1/4	1	/4	
/2		1/2		1/2	4,370	1/2	3,217	1/2	2,066	1/2	913	1/2		1/2		1/2	1	/2	
/4		3/4		3/4	4,346	3/4	3,193	3/4	2,042	3/4	889	3/4		3/4		3/4	3	/4	
5		5		5	4,322	5	3,169	5	2,017	5	865	5		5		5		5	
/4		1/4		1/4	4,298	1/4	3,145	1/4	1,993	1/4	841	1/4		1/4		1/4	1	/4	
/2		1/2		1/2	4,274	1/2	3,121	1/2	1,969	1/2	817	1/2		1/2		1/2	1	/2	
/4		3/4		3/4	4,250	3/4	3,097	3/4	1,945	3/4	793	3/4		3/4		3/4	3	/4	
6		6		6	4,226	6	3,073	6	1,921	6	769	6		6	Î	6		6	
/4		1/4		1/4	4,202	1/4	3,049	1/4	1,897	1/4	745	1/4		1/4		1/4	1	/4	-
1/2		1/2		1/2	4,178	1/2	3,025	1/2	1,873	1/2	721	1/2		1/2		1/2		/2	
3/4		3/4		3/4	4,154	3/4	3,001	3/4	1,849	3/4	697	3/4		3/4		3/4		/4	
7		7		7	4,130	7	2,977	7	1,825	7	673	7		7		7		7	-
1/4		1/4		1/4	4,106	1/4	2,953	1/4	1,801	1/4	649	1/4		1/4		1/4		/4	
		1/4		1/4	4,082	1/4	2,929	1/4	1,777	1/4	625	1/4		1		1/4		/2	
3/4		3/4		3/4	4,058	3/4	2,929	3/4	1,753	3/4	601	3/4		1/2 3/4		3/4		/4	
_			E 424			-		_	,		577	_		8				8	
8		8	5,131	8	4,034	8	2,881	8	1,729	8	552	8		-		8		_	
/4		1/4	5,119	1/4	4,010	1/4	2,857	1/4	1,705	1/4		1/4		1/4		1/4		/4	
/2		1/2	5,108	1/2	3,986	1/2	2,833	1/2	1,681	1/2	528	1/2		1/2		1/2		/2	
/4		3/4	5,096	3/4	3,962	3/4	2,809	3/4	1,657	3/4	504	3/4		3/4		3/4		/4	
9		9	5,084	9	3,938	9	2,785	9	1,633	9	480	9		9		9		9	
/4		1/4	5,061	1/4	3,914	1/4	2,761	1/4	1,609	1/4	456	1/4		1/4		1/4		/4	
/2		1/2	5,037	1/2	3,890	1/2	2,737	1/2	1,585	1/2	432	1/2		1/2		1/2		/2	
/4		3/4	5,014	3/4	3,866	3/4	2,713	3/4	1,561	3/4	408	3/4		3/4		3/4		/4	
0		10	4,990	10	3,842	10	2,689	10	1,537	10	384	10		10		10	1	0	
/4		1/4	4,967	1/4	3,818	1/4	2,665	1/4	1,513	1/4	360	1/4		1/4		1/4	1	/4	
/2		1/2	4,943	1/2	3,794	1/2	2,641	1/2	1,489	1/2	336	1/2		1/2		1/2	1	/2	
3/4		3/4	4,919	3/4	3,770	3/4	2,617	3/4	1,465	3/4	312	3/4		3/4		3/4	3	/4	
11		11	4,896	11	3,746	11	2,593	11	1,441	11	288	11		11		11	1	1	
1/4		1/4	4,872	1/4	3,722	1/4	2,569	1/4	1,417	1/4	264	1/4		1/4		1/4	1	/4	
1/2		1/2	4,848	1/2	3,698	1/2	2,545	1/2	1,393	1/2	240	1/2		1/2		1/2		/2	
3/4		3/4	4,825	3/4	3,674	3/4	2,521	3/4	1,369	3/4	216	3/4		3/4		3/4		/4	

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