

ULLAGE TRIM TABLE

	1	FT.	2 l	- T.	3	FT.	4	FT.	5	FT.	6	FT.
	BOW	<u>STERN</u>	BOW	<u>STERN</u>	BOW	STERN	<u>BOW</u>	STERN	BOW	STERN	<u>BOW</u>	STERN
1 PORT	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	00-1/4	- 00-1/4
1 STBD	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	00-1/4	- 00-1/4
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 1 PORT IS - 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

February 16, 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 1/2"

CAPACI	TIES GIVEN IN WHO	DLE GALL															GAUGE HE	IGHI	
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	206,209	0	191,285	0	176,319	0	161,312	0	146,302	0	131,291	0	116,281	0	101,268
1/4		1/4		1/4	205,900	1/4	190,973	1/4	176,007	1/4	160,999	1/4	145,989	1/4	130,979	1/4	115,968	1/4	100,955
1/2		1/2		1/2	205,590	1/2	190,661	1/2	175,695	1/2	160,686	1/2	145,676	1/2	130,666	1/2	115,655	1/2	100,642
3/4		3/4		3/4	205,281	3/4	190,350	3/4	175,383	3/4	160,374	3/4	145,363	3/4	130,353	3/4	115,343	3/4	100,329
1		1		1	204,971	1	190,038	1	175,070	1	160,061	1	145,051	1	130,040	1	115,030	1	100,016
1/4		1/4		1/4	204,661	1/4	189,726	1/4	174,758	1/4	159,748	1/4	144,738	1/4	129,728	1/4	114,717	1/4	99,704
1/2		1/2		1/2	204,352	1/2	189,414	1/2	174,446	1/2	159,436	1/2	144,425	1/2	129,415	1/2	114,405	1/2	99,391
3/4		3/4		3/4	204,042	3/4	189,102	3/4	174,133	3/4	159,123	3/4	144,113	3/4	129,102	3/4	114,092	3/4	99,078
2		2		2	203,732	2	188,791	2	173,820	2	158,810	2	143,800	2	128,790	2	113,779	2	98,765
1/4		1/4		1/4	203,422	1/4	188,479	1/4	173,508	1/4	158,497	1/4	143,487	1/4	128,477	1/4	113,466	1/4	98,452
1/2		1/2		1/2	203,112	1/2	188,167	1/2	173,195	1/2	158,185	1/2	143,174	1/2	128,164	1/2	113,154	1/2	98,139
3/4		3/4		3/4	202,803	3/4	187,855	3/4	172,882	3/4	157,872	3/4	142,862	3/4	127,851	3/4	112,841	3/4	97,827
3		3		3	202,493	3	187,543	3	172,570	3	157,559	3	142,549	3	127,539	3	112,528	3	97,514
1/4		1/4		1/4	202,183	1/4	187,232	1/4	172,257	1/4	157,247	1/4	142,236	1/4	127,226	1/4	112,216	1/4	97,201
1/2		1/2		1/2	201,874	1/2	186,920	1/2	171,944	1/2	156,934	1/2	141,924	1/2	126,913	1/2	111,903	1/2	96,888
3/4		3/4		3/4	201,564	3/4	186,608	3/4	171,631	3/4	156,621	3/4	141,611	3/4	126,601	3/4	111,590	3/4	96,575
4		4		4	201,254	4	186,296	4	171,319	4	156,308	4	141,298	4	126,288	4	111,277	4	96,262
1/4		1/4		1/4	200,945	1/4	185,984	1/4	171,006	1/4	155,996	1/4	140,985	1/4	125,975	1/4	110,965	1/4	95,949
1/2		1/2		1/2	200,635	1/2	185,673	1/2	170,693	1/2	155,683	1/2	140,673	1/2	125,662	1/2	110,652	1/2	95,637
3/4		3/4		3/4	200,324	3/4	185,361	3/4	170,381	3/4	155,370	3/4	140,360	3/4	125,350	3/4	110,339	3/4	95,324
5		5		5	200,013	5	185,049	5	170,068	5	155,058	5	140,047	5	125,037	5	110,027	5	95,011
1/4		1/4		1/4	199,703	1/4	184,737	1/4	169,755	1/4	154,745	1/4	139,735	1/4	124,724	1/4	109,714	1/4	94,698
1/2		1/2		1/2	199,392	1/2	184,425	1/2	169,442	1/2	154,432	1/2	139,422	1/2	124,411	1/2	109,401	1/2	94,385
3/4		3/4		3/4	199,080	3/4	184,114	3/4	169,130	3/4	154,119	3/4	139,109	3/4	124,099	3/4	109,088	3/4	94,072
6		6		6	198,768	6	183,802	6	168,817	6	153,807	6	138,796	6	123,786	6	108,776	6	93,759
1/4		1/4		1/4	198,457	1/4	183,490	1/4	168,504	1/4	153,494	1/4	138,484	1/4	123,473	1/4	108,463	1/4	93,447
1/2		1/2		1/2	198,145	1/2	183,178	1/2	168,192	1/2	153,181	1/2	138,171	1/2	123,161	1/2	108,150	1/2	93,134
3/4		3/4		3/4	197,833	3/4	182,866	3/4	167,879	3/4	152,869	3/4	137,858	3/4	122,848	3/4	107,838	3/4	92,821
7		7		7	197,521	7	182,555	7	167,566	7	152,556	7	137,546	7	122,535	7	107,525	7	92,508
1/4		1/4		1/4	197,209	1/4	182,243	1/4	167,253	1/4	152,243	1/4	137,233	1/4	122,222	1/4	107,212	1/4	92,195
1/2		1/2	210,814	1/2	196,898	1/2	181,931	1/2	166,941	1/2	151,930	1/2	136,920	1/2	121,910	1/2	106,899	1/2	91,882
3/4		3/4	210,635	3/4	196,586	3/4	181,619	3/4	166,628	3/4	151,618	3/4	136,607	3/4	121,597	3/4	106,586	3/4	91,570
8		8	210,455	8	196,274	8	181,307	8	166,315	8	151,305	8	136,295	8	121,284	8	106,273	8	91,257
1/4		1/4	210,276	1/4	195,962	1/4	180,996	1/4	166,003	1/4	150,992	1/4	135,982	1/4	120,972	1/4	105,961	1/4	90,944
1/2		1/2	210,096	1/2	195,650	1/2	180,684	1/2	165,690	1/2	150,680	1/2	135,669	1/2	120,659	1/2	105,648	1/2	90,631
3/4		3/4	209,865	3/4	195,339	3/4	180,372	3/4	165,377	3/4	150,367	3/4	135,357	3/4	120,346	3/4	105,335	3/4	90,318
9		9	209,633	9	195,027	9	180,060	9	165,064	9	150,054	9	135,044	9	120,033	9	105,022	9	90,005
1/4		1/4	209,402	1/4	194,715	1/4	179,748	1/4	164,752	1/4	149,741	1/4	134,731	1/4	119,721	1/4	104,709	1/4	89,692
1/2		1/4	209,402	1/4	194,403	1/4	179,437	1/4	164,439	1/4	149,429	1/4	134,418	1/4	119,408	1/4	104,709	1/4	89,380
3/4		3/4	208,890	3/4	194,091	3/4	179,125	3/4	164,126	3/4	149,116	3/4	134,106	3/4	119,095	3/4	104,084	3/4	89,067
10		10	208,610	10	193,780	10	178,813	10	163,814	10	148,803	10	133,793	10	118,783	10	103,771	10	88,754
$\overline{}$		-	208,330	$oldsymbol{}$	193,760	-	178,501	-	163,501	-	148,491	lacksquare	133,480	-	118,470	-	103,458	-	88,441
1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2 3/4	208,050 207,745	1/2	193,156 192,844	1/2	178,189 177,878	1/2	163,188 162,875	1/2	148,178 147,865	1/2	133,168	1/2 3/4	118,157 117,844	1/2	103,145 102,832	1/2	88,128 87,815
3/4		_		3/4		3/4		3/4		3/4		3/4	132,855	_		3/4		3/4	
11		11	207,439	11	192,532	11	177,566	11	162,563	11	147,552	11	132,542	11	117,532	11	102,519	11	87,502
1/4		1/4	207,133	1/4	192,220	1/4	177,254	1/4	162,250	1/4	147,240	1/4	132,229	1/4	117,219	1/4	102,206	1/4	87,190
1/2		1/2	206,828	1/2	191,909	1/2	176,942	1/2	161,937	1/2	146,927	1/2	131,917	1/2	116,906	1/2	101,894	1/2	86,877
3/4		3/4	206,518	3/4	191,597	3/4	176,630	3/4	161,625	3/4	146,614	3/4	131,604	3/4	116,594	3/4	101,581	3/4	86,564

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.

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1 PORT ULLAGE TABLE

GAUGE HEIGHT 15'-10 1/2"

CAPACI	ITIES GIVEN IN WHO	LE GALL	ONS														GAUGE HEI	GHT	15'-10 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	86,251	0	71,234	0	56,274	0	41,305	0	26,289	0	11,469	0		0		0		0	
1/4	85,938	1/4	70,921	1/4	55,964	1/4	40,993	1/4	25,976	1/4	11,175	1/4		1/4		1/4		1/4	
1/2	85,625	1/2	70,609	1/2	55,653	1/2	40,680	1/2	25,663	1/2	10,882	1/2		1/2		1/2		1/2	
3/4	85,312	3/4	70,296	3/4	55,343	3/4	40,367	3/4	25,351	3/4	10,592	3/4		3/4		3/4		3/4	
1	85,000	1	69,983	1	55,032	1	40,054	1	25,038	1	10,302	1		1		1		1	
1/4	84,687	1/4	69,670	1/4	54,722	1/4	39,741	1/4	24,725	1/4	10,013	1/4		1/4		1/4		1/4	
1/2	84,374	1/2	69,357	1/2	54,411	1/2	39,428	1/2	24,412	1/2	9,723	1/2		1/2		1/2		1/2	
3/4	84,061	3/4	69,044	3/4	54,101	3/4	39,116	3/4	24,099	3/4	9,437	3/4		3/4		3/4		3/4	
2	83,748	2	68,731	2	53,790	2	38,803	2	23,786	2	9,151	2		2		2		2	
1/4	83,435	1/4	68,419	1/4	53,480	1/4	38,490	1/4	23,473	1/4	8,865	1/4		1/4		1/4		1/4	
1/2	83,123	1/2	68,106	1/2	53,170	1/2	38,177	1/2	23,161	1/2	8,579	1/2		1/2		1/2		1/2	
3/4	82,810	3/4	67,793	3/4	52,859	3/4	37,864	3/4	22,848	3/4	8,297	3/4		3/4		3/4		3/4	
3	82,497	3	67,480	3	52,548	3	37,551	3	22,535	3	8,015	3		3		3		3	
1/4	82,184	1/4	67,167	1/4	52,237	1/4	37,238	1/4	22,222	1/4	7,733	1/4		1/4		1/4		1/4	
1/2	81,871	1/2	66,854	1/2	51,927	1/2	36,926	1/2	21,909	1/2	7,451	1/2		1/2		1/2		1/2	
3/4	81,558	3/4	66,541	3/4	51,616	3/4	36,613	3/4	21,596	3/4	7,173	3/4		3/4		3/4		3/4	
4	81,245	4	66,229	4	51,304	4	36,300	4	21,284	4	6,895	4		4		4		4	
1/4	80,933	1/4	65,916	1/4	50,993	1/4	35,987	1/4	20,971	1/4	6,617	1/4		1/4		1/4		1/4	
1/2	80,620	1/2	65,603	1/2	50,682	1/2	35,674	1/2	20,658	1/2	6,339	1/2		1/2		1/2		1/2	
3/4	80,307	3/4	65,290	3/4	50,371	3/4	35,361	3/4	20,345	3/4	6,064	3/4		3/4		3/4		3/4	
5	79,994	5	64,978	5	50,059	5	35,049	5	20,032	5	5,790	5		5		5		5	
1/4	79,681	1/4	64,665	1/4	49,748	1/4	34,736	1/4	19,719	1/4	5,516	1/4		1/4		1/4		1/4	
1/2	79,368	1/2	64,352	1/2	49,436	1/2	34,423	1/2	19,407	1/2	5,241	1/2		1/2		1/2		1/2	
3/4	79.055	3/4	64,041	3/4	49,124	3/4	34,110	3/4	19,094	3/4	4,971	3/4		3/4		3/4		3/4	
6	78,743	6	63,729	6	48,812	6	33,797	6	18,781	6	4,700	6		6		6		6	
1/4	78,430	1/4	63,417	1/4	48,500	1/4	33,484	1/4	18,468	1/4	4,430	1/4		1/4		1/4		1/4	
1/2	78,117	1/2	63,106	1/2	48,188	1/2	33,172	1/2	18,155	1/2	4,159	1/2		1/2		1/2		1/2	
3/4	77,804	3/4	62,795	3/4	47,875	3/4	32,859	3/4	17,843	3/4	3,893	3/4		3/4		3/4		3/4	
7	77,491	7	62,485	7	47,562	7	32,546	7	17,531	7	3,627	7		7		7		7	
1/4	77,178	1/4	62,174	1/4	47,249	1/4	32,233	1/4	17,220	1/4	3,360	1/4		1/4		1/4		1/4	
1/2	76,866	1/2	61,863	1/2	46,937	1/2	31,920	1/2	16,908	1/2	3,094	1/2		1/2		1/2		1/2	
3/4	76,553	3/4	61,553	3/4	46,624	3/4	31,607	3/4	16,599	3/4	2,832	3/4		3/4		3/4		3/4	
8	76,240	8	61,242	8	46,311	8	31,294	8	16,290	8	2,570	8		8		8		8	
1/4	75,927	1/4	60,932	1/4	45,998	1/4	30,982	1/4	15,981	1/4	2,309	1/4		1/4		1/4		1/4	
1/2	75,614	1/2	60,621	1/2	45,685	1/2	30,669	1/4	15,672	1/2	2,047	1/2		1/2		1/2		1/2	
3/4	75,301	3/4	60,311	3/4	45,372	3/4	30,356	3/4	15,367	3/4	1,808	3/4		3/4		3/4		3/4	
9	74,988	9	60,000	9	45,059	9	30,043	9	15,061	9	1,570	9		9		9		9	
1/4	74,676	1/4	59.690	1/4	44,747	1/4	29,730	1/4	14,756	1/4	1,331	1/4		1/4		1/4		1/4	
1/2	74,363	1/2	59,379	1/4	44,434	1/2	29,417	1/4	14,451	1/2	1,092	1/2		1/2		1/2		1/2	
3/4	74,050	3/4	59,069	3/4	44,121	3/4	29,105	3/4	14,150	3/4	916	3/4		3/4		3/4		3/4	
10	73,737	10	58,758	10	43,808	10	28,792	10	13,849	10	739	10		10		10		10	
\vdash	73,424	1/4	58,448	1/4	43,495	-	28,479	1/4	13,547	1/4	562	1/4		1/4		1/4		1/4	
1/4	73,424		58,137		43,495	1/4	28,166		13,547		385	1/4		1/4					
1/2 3/4	73,111	1/2 3/4	57,827	1/2 3/4	43,162	1/2 3/4	27,853	1/2 3/4	12,949	1/2 3/4	365	3/4		3/4		1/2 3/4		1/2 3/4	
11	72,796	3/4	57,516	3/4	42,557	3/4	27,540	3/4	12,651	3/4		3/4		3/4		3/4		3/4	
\vdash	,	\vdash		\vdash	42,337	-				\vdash		-						_	
1/4	72,173	1/4	57,206	1/4		1/4	27,228	1/4	12,354	1/4		1/4		1/4		1/4		1/4	
1/2	71,860	1/2	56,895 56 585	1/2	41,931	1/2	26,915	1/2	12,056	1/2		1/2		1/2		1/2		1/2	
3/4	71,547	3/4	56,585	3/4	41,618	3/4	26,602	3/4	11,763	3/4		3/4		3/4		3/4	ADT EOD THE ADO	3/4	

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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

The Jacame



1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

CAPAC	ITIES GIVEN IN WH	OLE GAL															GAUGE HE	IGHI	
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	206,512	0	191,598	0	176,639	0	161,640	0	146,637	0	131,635	0	116,632	0	101,627
1/4		1/4		1/4	206,203	1/4	191,286	1/4	176,327	1/4	161,328	1/4	146,325	1/4	131,322	1/4	116,319	1/4	101,314
1/2		1/2		1/2	205,894	1/2	190,975	1/2	176,016	1/2	161,015	1/2	146,012	1/2	131,009	1/2	116,007	1/2	101,001
3/4		3/4		3/4	205,585	3/4	190,663	3/4	175,704	3/4	160,703	3/4	145,700	3/4	130,697	3/4	115,694	3/4	100,688
1		1		1	205,275	1	190,351	1	175,392	1	160,390	1	145,387	1	130,384	1	115,382	1	100,376
-					204,966		190,040	-	175,080	-	160,078	+	145,075	-	130,072	+		_	100,063
1/4		1/4		1/4	,	1/4		1/4		1/4		1/4		1/4		1/4	115,069	1/4	
1/2		1/2		1/2	204,656	1/2	189,728	1/2	174,768	1/2	159,765	1/2	144,762	1/2	129,759	1/2	114,756	1/2	99,750
3/4		3/4		3/4	204,347	3/4	189,417	3/4	174,455	3/4	159,452	3/4	144,450	3/4	129,447	3/4	114,444	3/4	99,438
2		2		2	204,037	2	189,105	2	174,143	2	159,140	2	144,137	2	129,134	2	114,131	2	99,125
1/4		1/4		1/4	203,727	1/4	188,793	1/4	173,830	1/4	158,827	1/4	143,824	1/4	128,822	1/4	113,819	1/4	98,812
1/2		1/2		1/2	203,418	1/2	188,482	1/2	173,518	1/2	158,515	1/2	143,512	1/2	128,509	1/2	113,506	1/2	98,500
3/4		3/4		3/4	203,108	3/4	188,170	3/4	173,205	3/4	158,202	3/4	143,199	3/4	128,196	3/4	113,194	3/4	98,187
3		3		3	202,798	3	187,858	3	172,893	3	157,890	3	142,887	3	127,884	3	112,881	3	97,874
1/4		1/4		1/4	202,489	1/4	187,547	1/4	172,580	1/4	157,577	1/4	142,574	1/4	127,571	1/4	112,569	1/4	97,562
1/2		1/2		1/2	202,179	1/2	187,235	1/2	172,268	1/2	157,265	1/2	142,262	1/2	127,259	1/2	112,256	1/2	97,249
3/4		3/4		3/4	201,870	3/4	186,923	3/4	171,955	3/4	156,952	3/4	141,949	3/4	126,946	3/4	111,943	3/4	96,936
4		4		4	201,560	4	186,612	4	171,642	4	156,639	4	141,636	4	126,634	4	111,631	4	96,623
1/4		1/4		1/4	201,251	1/4	186,300	1/4	171,330	1/4	156,327	1/4	141,324	1/4	126,321	1/4	111,318	1/4	96,311
1/2		1/2		1/2	200,941	1/2	185,988	1/2	171,017	1/2	156,014	1/2	141,011	1/2	126,009	1/2	111,006	1/2	95,998
3/4		3/4		3/4	200,632	3/4	185,677	3/4	170,705	3/4	155,702	3/4	140,699	3/4	125,696	3/4	110,693	3/4	95,685
5		5		5	200,321	5	185,365	5	170,392	5	155,389	5	140,386	5	125,383	5	110,381	5	95,373
1/4		1/4		1/4	200,010	1/4	185,053	1/4	170,080	1/4	155,077	1/4	140,074	1/4	125,071	1/4	110,068	1/4	95,060
1/2		1/2		1/2	199,700	1/2	184,742	1/2	169,767	1/2	154,764	1/2	139,761	1/2	124,758	1/2	109,756	1/2	94,747
3/4		3/4		3/4	199,389	3/4	184,430	3/4	169,454	3/4	154,452	3/4	139,449	3/4	124,446	3/4	109,443	3/4	94,435
6		6		6	199,078	6	184,118	6	169,142	6	154,139	6	139,136	6	124,133	6	109,130	6	94,122
1/4		1/4		1/4	198,766	1/4	183,807	1/4	168,829	1/4	153,826	1/4	138,823	1/4	123,821	1/4	108,818	1/4	93,809
1/2		1/2		1/2	198,454	1/2	183,495	1/2	168,517	1/2	153,514	1/2	138,511	1/2	123,508	1/2	108,505	1/2	93,497
3/4		3/4		3/4	198,143	3/4	183,184	3/4	168,204	3/4	153,201	3/4	138,198	3/4	123,196	3/4	108,193	3/4	93,184
7		7		7	197,831	7	182,872	7		7	152,889	7	137,886	7	122,883	7	107,880	7	92,871
-		-			,	_	,	-	167,892	_		$\overline{}$		-	•	_		-	
1/4		1/4		1/4	197,519	1/4	182,560	1/4	167,579	1/4	152,576	1/4	137,573	1/4	122,570	1/4	107,568	1/4	92,558
1/2		1/2	040.000	1/2	197,208	1/2	182,249	1/2	167,267	1/2	152,264	1/2	137,261	1/2	122,258	1/2	107,255	1/2	92,246
3/4		3/4	210,806	3/4	196,896	3/4	181,937	3/4	166,954	3/4	151,951	3/4	136,948	3/4	121,945	3/4	106,942	3/4	91,933
8		8	210,626	8	196,584	8	181,625	8	166,641	8	151,638	8	136,635	8	121,633	8	106,630	8	91,620
1/4		1/4	210,447	1/4	196,273	1/4	181,314	1/4	166,329	1/4	151,326	1/4	136,323	1/4	121,320	1/4	106,317	1/4	91,308
1/2		1/2	210,268	1/2	195,961	1/2	181,002	1/2	166,016	1/2	151,013	1/2	136,010	1/2	121,008	1/2	106,004	1/2	90,995
3/4		3/4	210,088	3/4	195,650	3/4	180,690	3/4	165,704	3/4	150,701	3/4	135,698	3/4	120,695	3/4	105,692	3/4	90,682
9		9	209,857	9	195,338	9	180,379	9	165,391	9	150,388	9	135,385	9	120,383	9	105,379	9	90,370
1/4		1/4	209,625	1/4	195,026	1/4	180,067	1/4	165,079	1/4	150,076	1/4	135,073	1/4	120,070	1/4	105,066	1/4	90,057
1/2		1/2	209,394	1/2	194,715	1/2	179,755	1/2	164,766	1/2	149,763	1/2	134,760	1/2	119,757	1/2	104,753	1/2	89,744
3/4		3/4	209,163	3/4	194,403	3/4	179,444	3/4	164,453	3/4	149,451	3/4	134,448	3/4	119,445	3/4	104,441	3/4	89,432
10		10	208,883	10	194,091	10	179,132	10	164,141	10	149,138	10	134,135	10	119,132	10	104,128	10	89,119
1/4		1/4	208,603	1/4	193,780	1/4	178,820	1/4	163,828	1/4	148,825	1/4	133,822	1/4	118,820	1/4	103,815	1/4	88,806
1/2		1/2	208,323	1/2	193,468	1/2	178,509	1/2	163,516	1/2	148,513	1/2	133,510	1/2	118,507	1/2	103,503	1/2	88,493
3/4		3/4	208,043	3/4	193,156	3/4	178,197	3/4	163,203	3/4	148,200	3/4	133,197	3/4	118,195	3/4	103,190	3/4	88,181
11		11	207,738	11	192,845	11	177,885	11	162,891	11	147,888	11	132,885	11	117,882	11	102,877	11	87,868
1/4		1/4	207,432	1/4	192,533	1/4	177,574	1/4	162,578	1/4	147,575	1/4	132,572	1/4	117,569	1/4	102,565	1/4	87,555
1/2		1/2	207,127	1/2	192,221	1/2	177,262	1/2	162,266	1/2	147,263	1/2	132,260	1/2	117,257	1/2	102,252	1/2	87,243
3/4		3/4	206,821	3/4	191,910	3/4	176,950	3/4	161,953	3/4	146,950	3/4	131,947	3/4	116,944	3/4	101,939	3/4	86,930
3/7		JIT	200,021	3/7	101,010	J/+	1.0,000	JIT.	.0.,000	JIT.	1-10,000	3/7	101,0-11	3/7			DT EOD THE AR		

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



1 STBD ULLAGE TABLE

GAUGE HEIGHT 15'-10 3/4"

1	CAPACI	TIES GIVEN IN WHO	LE GALL	ONS														GAUGE HEI	GHT	15'-10 3/4"
18	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.
10	0	86,617	0	71,608	0	56,603	0	41,597	0	26,589	0	11,757	0		0		0		0	
1	1/4	86,305	1/4	71,295	1/4	56,290	1/4	41,285	1/4	26,276	1/4	11,463	1/4		1/4		1/4		1/4	
1	1/2	85,992	1/2	70,983	1/2	55,978	1/2	40,972	1/2	25,963	1/2	11,170	1/2		1/2		1/2		1/2	
18	3/4	85,679	3/4	70,670	3/4	55,665	3/4	40,659	3/4	25,650	3/4	10,877	3/4		3/4		3/4		3/4	
12	1	85,367	1	70,357	1	55,353	1	40,347	1	25,338	1	10,587	1		1		1		1	
24 84,428 35 69,419 35 54,416 34 39,409 34 24,400 35 9,718 35 35 35 35 35 35 35 3	1/4	85,054	1/4	70,045	1/4	55,040	1/4	40,034	1/4	25,025	1/4	10,297	1/4		1/4		1/4		1/4	
2	1/2	84,741	1/2	69,732	1/2	54,728	1/2	39,721	1/2	24,712	1/2	10,008	1/2		1/2		1/2		1/2	
18	3/4	84,428	3/4	69,419	3/4	54,416	3/4	39,409	3/4	24,400	3/4	9,718	3/4		3/4		3/4		3/4	
12 83,490 10 68,481 12 53,478 12 53,478 12 38,178 12 38,470 10 23,462 12 6,861 12 10 12 12 12 13 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	2	84,116	2	69,107	2	54,103	2	39,096	2	24,087	2	9,432	2		2		2		2	
18	1/4	83,803	1/4	68,794	1/4	53,791	1/4	38,783	1/4	23,774	1/4	9,147	1/4		1/4		1/4		1/4	
3	1/2	83,490	1/2	68,481	1/2	53,478	1/2	38,470	1/2	23,462	1/2	8,861	1/2		1/2		1/2		1/2	
98. 82.552	3/4	83,178	3/4	68,168	3/4	53,166	3/4	38,158	3/4	23,149	3/4	8,575	3/4		3/4		3/4		3/4	
12 82,240 12 67,230 12 52,228 12 37,220 12 22,211 13 7,730 12 12 12 12 12 12 14 14	3	82,865	3	67,856	3	52,853	3	37,845	3	22,836	3	8,293	3		3		3		3	
84	1/4	82,552	1/4	67,543	1/4	52,541	1/4	37,532	1/4	22,524	1/4	8,011	1/4		1/4		1/4		1/4	
Main	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	-
14	3/4	81,927	3/4	66,918	3/4	51,916	3/4	36,907	3/4	21,898	3/4	7,448	3/4		3/4		3/4		3/4	
10 80,989 10 65,980 12 50,978 12 35,969 12 20,960 12 6,614 15 12 12 12 13 14 14 14 14 14 14 14	4	81,614	4	66,605	4	51,603	4	36,594	4	21,586	4	7,170	4		4		4		4	
34 80,676 34 65,667 34 50,665 34 35,556 34 20,648 34 6,336 34 5	1/4	81,302	1/4	66,292	1/4	51,290	1/4	36,282	1/4	21,273	1/4	6,892	1/4		1/4		1/4	Ţ	1/4	
S	1/2	80,989	1/2	65,980	1/2	50,978	1/2	35,969	1/2	20,960	1/2	6,614	1/2		1/2		1/2		1/2	
180 161 162 163 164	3/4	80,676	3/4	65,667	3/4	50,665	3/4	35,656	3/4	20,648	3/4	6,336	3/4		3/4		3/4		3/4	
19. 79.738 12 64.729 12 49.727 12 12 34.718 12 19.710 12 15.513 12 12 15.513 12 12 12 12 12 12 12 12 12 12 12 12 12	5	80,363	5	65,354	5	50,352	5	35,344	5	20,335	5	6,061	5		5		5		5	
344 79,425 346 64,416 346 49,414 346 34,406 346 19,397 344 5,239 34 48,76 12 33,468 12 18,459 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,428 12 4,528 12 4,528	1/4	80,051	1/4	65,042	1/4	50,040	1/4	35,031	1/4	20,022	1/4	5,787	1/4		1/4		1/4	I	1/4	
Fig.	1/2		1/2	64,729	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
18 78,800 14 63,791 14 48,789 14 33,780 14 18,771 14 4,698 14	3/4	79,425	3/4	64,416	3/4	49,414	3/4	34,406	3/4	19,397	3/4	5,239	3/4		3/4		3/4		3/4	
172 78,487 1/2 63,478 1/2 48,476 1/2 33,468 1/2 18,459 1/2 4,428 1/2	6	79,113	6	64,103	6		6		6		6	4,968	6		6		6		6	
344 78,175 34 63,165 34 48,164 34 33,155 34 18,146 34 4,157 34 32,227 12 47,226 12 32,217 12 17,211 12 3,359 12 12 12 12 12 14 14 34 31,904 34 16,899 34 3,093 34	1/4	78,800	1/4	63,791	1/4	48,789	1/4	33,780	1/4	18,771	1/4	4,698	1/4		1/4		1/4		1/4	
7 77,862 7 62,853 7 47,851 7 32,842 7 17,834 7 3,891 7 14 15 34 46,913 34 31,904 34 16,899 34 3,093 34 34 34 34 31,904 34 16,899 34 3,093 34 3,093 34 3,093 34 3,093 34 3,093 34 3,093 34 3,093 34 16,690 <td>1/2</td> <td></td>	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
14 77,549 1/4 62,540 1/4 47,538 1/4 32,529 1/4 17,523 1/4 3,625 1/4 1/2 3,4 46,913 3/4 31,994 3/4 16,899 3/4 3,993 3/4 3/4 3/4 3/4 16,899 3/4 3,993 3/4				63,165			3/4				3/4	4,157	$\overline{}$						3/4	
1/2 77,237 1/2 62,227 1/2 47,226 1/2 32,217 1/2 17,211 1/2 3,359 1/2	7		7		7		7		7		7		7		7		7		7	
3/4 76,924 3/4 61,915 3/4 46,913 3/4 31,904 3/4 16,899 3/4 3,993 3/4 3/4 3/4 3/4 3/4 8 76,611 8 61,602 8 46,600 8 31,591 8 16,590 8 2,831 8 <td>1/4</td> <td></td>	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
8 76,611 8 61,602 8 46,600 8 31,591 8 16,590 8 2,831 8 8 8 8 8 1/4 76,298 1/4 61,290 1/4 46,288 1/4 31,279 1/4 16,282 1/4 2,569 1/4 1/4 1/4 1/4 1/2 75,986 1/2 60,977 1/2 45,975 1/2 30,966 1/2 15,973 1/2 2,308 1/2	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
14 76,288 14 61,290 1/4 46,288 14 31,279 1/4 16,282 1/4 2,569 1/4 1/4 1/4 1/4 1/4 1/2 1/2 75,986 1/2 60,977 1/2 45,975 1/2 30,966 1/2 15,973 1/2 2,308 1/2 1/2 1/2 1/2 1/2 3/4 75,673 3/4 60,665 3/4 45,662 3/4 30,653 3/4 15,664 3/4 2,046 3/4							3/4						$\overline{}$							
1/2 75,986 1/2 60,977 1/2 45,975 1/2 30,966 1/2 15,973 1/2 2,308 1/2	8		8		8	-,	8		8		8	,	8		8		8		8	
3/4 75,673 3/4 60,665 3/4 45,662 3/4 30,653 3/4 15,664 3/4 2,046 3/4	1/4						1/4		_										1/4	
9			_																	
1/4 75,048 1/4 60,040 1/4 45,037 1/4 30,028 1/4 15,054 1/4 1,569 1/4 1/2																				
1/2 74,735 1/2 59,727 1/2 44,724 1/2 29,715 1/2 14,749 1/2 1,330 1/2	9		\leftarrow		-		9				9		+				9		9	
3/4 74,422 3/4 59,415 3/4 44,411 3/4 29,403 3/4 14,444 3/4 1,092 3/4	1/4	-,		,	1/4	-,	1/4	,	_	-,	1/4	,					1/4		1/4	
10 74,110 10 59,102 10 44,099 10 29,090 10 14,143 10 915 10 10 10 10 10 1/4 73,797 1/4 58,790 1/4 43,786 1/4 28,777 1/4 13,842 1/4 738 1/4 1/2 1/2 13,541 1/2 562 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	_		_		-						-									
1/4 73,797 1/4 58,790 1/4 43,786 1/4 28,777 1/4 13,842 1/4 738 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4					_															
1/2 73,484 1/2 58,478 1/2 43,473 1/2 28,465 1/2 13,541 1/2 562 1/2 1/2 1/2 1/2 1/2 1/2 3/4 73,172 3/4 58,165 3/4 43,161 3/4 28,152 3/4 13,239 3/4 385 3/4 3/4 3/4 3/4 3/4 11 72,859 11 57,853 11 42,848 11 27,839 11 12,942 11 11 11 11 11 1/4 72,546 1/4 57,540 1/4 42,535 1/4 27,527 1/4 12,645 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/2 72,233 1/2 57,228 1/2 42,223 1/2 27,214 1/2 12,348 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	10		10		10		10		10		10				10		10		10	
3/4 73,172 3/4 58,165 3/4 43,161 3/4 28,152 3/4 13,239 3/4 385 3/4 3/4 3/4 3/4 3/4 11 72,859 11 57,853 11 42,848 11 27,839 11 12,942 11 11 11 11 11 11 1/4 72,546 1/4 57,540 1/4 42,535 1/4 27,527 1/4 12,645 1/4 1/4 1/4 1/4 1/4 1/4 1/2 72,233 1/2 57,228 1/2 42,223 1/2 27,214 1/2 12,348 1/2 <	1/4	· · · · · · · · · · · · · · · · · · ·	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
11 72,859 11 57,853 11 42,848 11 27,839 11 12,942 11 11 11 11 11 11 1/4 72,546 1/4 57,540 1/4 42,535 1/4 27,527 1/4 12,645 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/2 72,233 1/2 57,228 1/2 42,223 1/2 27,214 1/2 12,348 1/2	1/2				-						-									
1/4 72,546 1/4 57,540 1/4 42,535 1/4 27,527 1/4 12,645 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/2 1/2 72,233 1/2 57,228 1/2 42,223 1/2 27,214 1/2 12,348 1/2		•		•																
1/2 72,233 1/2 57,228 1/2 42,223 1/2 27,214 1/2 12,348 1/2 1/2 1/2 1/2 1/2 1/2 1/2	11		11		11		11		11		11		11		11		11		11	
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
3/4 71,921 3/4 56,915 3/4 41,910 3/4 26,901 3/4 12,050 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4			_		-						-						1/2		1/2	
CEPTIEIED CHART FOR THE AROVE NAMED TANK ONLY	3/4	71,921	3/4	56,915	3/4	41,910	3/4	26,901	3/4	12,050	3/4		3/4		3/4					

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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'-11"

JAPAC	ITIES GIVEN IN WHOLE GA	ILLONS														GAUGE	HEIGH	1 15-11"
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	208,879	0	193,942	0	178,936	0	163,886	0	148,829	0	133,773	0	118,716	0	103,656
1/4	1/4		1/4	208,570	1/4	193,629	1/4	178,624	1/4	163,572	1/4	148,516	1/4	133,459	1/4	118,402	1/4	103,343
1/2	1/2		1/2		1/2	193,316	1/2	178,311	1/2	163,258	1/2	148,202	1/2	133,145	1/2	118,089	1/2	103,029
3/4	3/4		3/4		3/4	193,004	3/4	177,998	3/4	162,945	3/4	147,888	3/4	132,832	3/4	117,775	3/4	102,715
1	1		1		1	192,691	1	177,686	1	162,631	1	147,574	1	132,518	1	117,461	1	102,401
_		+			_	192,379	-		-		-							102,087
1/4	1/4		1/4		1/4		1/4	177,373	1/4	162,317	1/4	147,261	1/4	132,204	1/4	117,147	1/4	
1/2	1/2		1/2		1/2	192,066	1/2	177,059	1/2	162,004	1/2	146,947	1/2	131,890	1/2	116,834	1/2	101,773
3/4	3/4		3/4	<u> </u>	3/4	191,753	3/4	176,746	3/4	161,690	3/4	146,633	3/4	131,577	3/4	116,520	3/4	101,460
2	2		2		2	191,441	2	176,433	2	161,376	2	146,320	2	131,263	2	116,206	2	101,146
1/4	1/4		1/4	206,094	1/4	191,128	1/4	176,119	1/4	161,063	1/4	146,006	1/4	130,949	1/4	115,893	1/4	100,832
1/2	1/2		1/2	205,785	1/2	190,816	1/2	175,806	1/2	160,749	1/2	145,692	1/2	130,636	1/2	115,579	1/2	100,518
3/4	3/4		3/4	205,475	3/4	190,503	3/4	175,492	3/4	160,435	3/4	145,379	3/4	130,322	3/4	115,265	3/4	100,204
3	3		3	205,165	3	190,190	3	175,178	3	160,122	3	145,065	3	130,008	3	114,952	3	99,890
1/4	1/4		1/4	204,856	1/4	189,878	1/4	174,865	1/4	159,808	1/4	144,751	1/4	129,695	1/4	114,638	1/4	99,577
1/2	1/2		1/2		1/2	189,565	1/2	174,551	1/2	159,494	1/2	144,438	1/2	129,381	1/2	114,324	1/2	99,263
3/4	3/4	1	3/4	- '	3/4	189,252	3/4	174,237	3/4	159,181	3/4	144,124	3/4	129,067	3/4	114,011	3/4	98,949
4	4	1	4	_	4	188,940	4	173,924	4	158,867	4	143,810	4	128,754	4	113,697	4	98,635
1/4	1/4		1/4		1/4	188,627	1/4	173,610	1/4	158,553	1/4	143,497	1/4	128,440	1/4	113,383	1/4	98,321
						188,315		173,296		158,240		143,183		128,126		113,363		98,007
1/2	1/2		1/2	,	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3/4		3/4		3/4	188,002	3/4	172,983	3/4	157,926	3/4	142,869	3/4	127,813	3/4	112,756	3/4	97,693
5	5		5	,	5	187,689	5	172,669	5	157,612	5	142,556	5	127,499	5	112,442	5	97,380
1/4	1/4		1/4	•	1/4	187,377	1/4	172,355	1/4	157,299	1/4	142,242	1/4	127,185	1/4	112,129	1/4	97,066
1/2	1/2		1/2		1/2	187,064	1/2	172,042	1/2	156,985	1/2	141,928	1/2	126,872	1/2	111,815	1/2	96,752
3/4	3/4		3/4		3/4	186,752	3/4	171,728	3/4	156,671	3/4	141,615	3/4	126,558	3/4	111,501	3/4	96,438
6	6		6	201,444	6	186,439	6	171,414	6	156,358	6	141,301	6	126,244	6	111,188	6	96,124
1/4	1/4		1/4	201,132	1/4	186,126	1/4	171,101	1/4	156,044	1/4	140,987	1/4	125,931	1/4	110,874	1/4	95,810
1/2	1/2		1/2	200,819	1/2	185,814	1/2	170,787	1/2	155,730	1/2	140,674	1/2	125,617	1/2	110,560	1/2	95,497
3/4	3/4		3/4	200,507	3/4	185,501	3/4	170,473	3/4	155,416	3/4	140,360	3/4	125,303	3/4	110,247	3/4	95,183
7	7		7	200,194	7	185,188	7	170,159	7	155,103	7	140,046	7	124,989	7	109,933	7	94,869
1/4	1/4		1/4	199,881	1/4	184,876	1/4	169,846	1/4	154,789	1/4	139,732	1/4	124,676	1/4	109,619	1/4	94,555
1/2	1/2		1/2		1/2	184,563	1/2	169,532	1/2	154,475	1/2	139,419	1/2	124,362	1/2	109,305	1/2	94,241
3/4	3/4		3/4	•	3/4	184,251	3/4	169,218	3/4	154,162	3/4	139,105	3/4	124,048	3/4	108,992	3/4	93,927
8	8	212,86		198,944	8	183,938	8	168,905	8	153,848	8	138,791	8	123,735	8	108,678	8	93,614
1/4	1/4	212,68			1/4	183,625	1/4	168,591	1/4	153,534	1/4	138,478	1/4	123,421	1/4	108,364	1/4	93,300
1/2	1/4	212,50			1/2	183,313	1/2	168,277	1/2	153,221	1/2	138,164	1/2	123,107	1/2	108,050	1/4	92,986
	3/4	212,30			3/4	183,000	3/4	167,964	3/4	153,221	3/4	137,850	3/4	123,107	3/4	107,736	3/4	92,672
3/4					_		-										-	92,358
9	9	212,14		,	9	182,688	9	167,650	9	152,593	9	137,537	9	122,480	9	107,422	9	
1/4	1/4	211,91		•	1/4	182,375	1/4	167,336	1/4	152,280	1/4	137,223	1/4	122,166	1/4	107,109	1/4	92,044
1/2	1/2	211,68		- ,	1/2	182,062	1/2	167,023	1/2	151,966	1/2	136,909	1/2	121,853	1/2	106,795	1/2	91,731
3/4	3/4	211,45			3/4	181,750	3/4	166,709	3/4	151,652	3/4	136,596	3/4	121,539	3/4	106,481	3/4	91,417
10	10	211,22	0 10	196,443	10	181,437	10	166,395	10	151,339	10	136,282	10	121,225	10	106,167	10	91,103
1/4	1/4	210,94	0 1/4	196,130	1/4	181,124	1/4	166,082	1/4	151,025	1/4	135,968	1/4	120,912	1/4	105,853	1/4	90,789
1/2	1/2	210,66	0 1/2	195,817	1/2	180,812	1/2	165,768	1/2	150,711	1/2	135,655	1/2	120,598	1/2	105,539	1/2	90,475
3/4	3/4	210,38	1 3/4	195,505	3/4	180,499	3/4	165,454	3/4	150,398	3/4	135,341	3/4	120,284	3/4	105,226	3/4	90,161
11	11	210,10	1 11	195,192	11	180,187	11	165,141	11	150,084	11	135,027	11	119,971	11	104,912	11	89,848
1/4	1/4	209,79			1/4	179,874	1/4	164,827	1/4	149,770	1/4	134,714	1/4	119,657	1/4	104,598	1/4	89,534
1/2	1/2	209,49			1/2	179,561	1/2	164,513	1/2	149,457	1/2	134,400	1/2	119,343	1/2	104,284	1/2	89,220
3/4	3/4	209,18		•	3/4	179,249	3/4	164,200	3/4	149,143	3/4	134,086	3/4	119,030	3/4	103,970	3/4	88,906
J/4	3/4	200,10	3/4	137,237	3/4	175,245	3/4	107,200	3/4	170,170	3/4	107,000	3/4			T FOR THE A		

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 fame



2 PORT **ULLAGE TABLE**

CAPAC	TIES GIVEN IN WI	HOLE GAL	LONS														GAUGE HEIGHT	Г 15'-11"
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. N	19 FT.
0	88,592	0	73,528	0	58,723	0	44,242	0	29,501	0	14,439	0		0		0	0	
1/4	88,278	1/4	73,214	1/4	58,421	1/4	43,941	1/4	29,187	1/4	14,125	1/4		1/4		1/4	1/4	
1/2	87,965	1/2	72,900	1/2	58,118	1/2	43,640	1/2	28,874	1/2	13,812	1/2		1/2		1/2	1/2	
3/4	87,651	3/4	72,586	3/4	57,816	3/4	43,338	3/4	28,560	3/4	13,498	3/4		3/4		3/4	3/4	
1	87,337	1	72,273	1	57,514	1	43,037	1	28,247	1	13,184	1		1		1	1	
1/4	87,023	1/4	71,959	1/4	57,212	1/4	42,736	1/4	27,933	1/4	12,870	1/4		1/4		1/4	1/4	
1/2	86,709	1/2	71,645	1/2	56,910	1/2	42,435	1/2	27,619	1/2	12,556	1/2		1/2		1/2	1/2	
3/4	86,395	3/4	71,331	3/4	56,608	3/4	42,134	3/4	27,306	3/4	12,242	3/4		3/4		3/4	3/4	
2	86,081	2	71,017	2	56,306	2	41,833	2	26,992	2	11,929	2		2		2	2	
1/4	85,768	1/4	70,703	1/4	56,004	1/4	41,532	1/4	26,678	1/4	11,615	1/4		1/4		1/4	1/4	
1/2	85,454	1/2	70,390	1/2	55,702	1/2	41,231	1/2	26,365	1/2	11,301	1/2		1/2		1/2	1/2	
3/4	85,140	3/4	70,076	3/4	55,400	3/4	40,929	3/4	26,051	3/4	10,987	3/4		3/4		3/4	3/4	
3	84,826	3	69,762	3	55,098	3	40,628	3	25,737	3	10,673	3		3		3	3	
1/4	84,512	1/4	69,448	1/4	54,796	1/4	40,327	1/4	25,423	1/4	10,360	1/4		1/4		1/4	1/4	
1/2	84,198	1/2	69,134	1/2	54,494	1/2	40,026	1/2	25,109	1/2	10,046	1/2		1/2		1/2	1/2	
3/4	83,885	3/4	68,820	3/4	54,192	3/4	39,725	3/4	24,796	3/4	9,732	3/4		3/4		3/4	3/4	
4	83,571	4	68,507	4	53,889	4	39,424	4	24,482	4	9,418	4		4		4	4	
1/4	83,257	1/4	68,193	1/4	53,587	1/4	39,122	1/4	24,168	1/4	9,104	1/4		1/4		1/4	1/4	
1/2	82,943	1/2	67,879	1/2	53,285	1/2	38,821	1/2	23,854	1/2	8,790	1/2		1/2		1/2	1/2	
3/4	82,629	3/4	67,565	3/4	52,983	3/4	38,519	3/4	23,540	3/4	8,477	3/4		3/4		3/4	3/4	
5	82,315	5	67,251	5	52,681	5	38,217	5	23,226	5	8,163	5		5		5	5	
1/4	82,002	1/4	66,937	1/4	52,379	1/4	37,915	1/4	22,913	1/4	7,849	1/4		1/4		1/4	1/4	
1/2	81,688	1/2	66,624	1/2	52,077	1/2	37,613	1/2	22,599	1/2	7,535	1/2		1/2		1/2	1/2	
3/4	81,374	3/4	66,310	3/4	51,775	3/4	37,311	3/4	22,285	3/4	7,221	3/4		3/4		3/4	3/4	
6	81,060	6	65,996	6	51,473	6	37,009	6	21,971	6	6,907	6		6		6	6	
1/4	80,746	1/4	65,688	1/4	51,171	1/4	36,701	1/4	21,657	1/4	6,594	1/4		1/4		1/4	1/4	
1/2	80,432	1/2	65,380	1/2	50,869	1/2	36,393	1/2	21,344	1/2	6,280	1/2		1/2		1/2	1/2	
3/4	80,119	3/4	65,072	3/4	50,568	3/4	36,085	3/4	21,030	3/4	5,966	3/4		3/4		3/4	3/4	
7	79,805	7	64,764	7	50,266	7	35,777	7	20,716	7	5,652	7		7		7	7	
1/4	79,491	1/4	64,462	1/4	49,965	1/4	35,463	1/4	20,402	1/4	5,339	1/4		1/4		1/4	1/4	
1/2	79,177	1/2	64,160	1/2	49,663	1/2	35,150	1/2	20,088	1/2	5,025	1/2		1/2		1/2	1/2	
3/4	78,863	3/4	63,858	3/4	49,362	3/4	34,836	3/4	19,774	3/4	4,711	3/4		3/4		3/4	3/4	
8	78,549	8	63,556	8	49,061	8	34,522	8	19,461	8	4,398	8		8		8	8	
1/4	78,236	1/4	63,254	1/4	48,759	1/4	34,208	1/4	19,147	1/4	4,085	1/4		1/4		1/4	1/4	-
1/2	77,922	1/2	62,952	1/2	48,458	1/2	33,894	1/2	18,833	1/2	3,772	1/2		1/2		1/2	1/2	
3/4	77,608	3/4	62,650	3/4	48,157	3/4	33,581	3/4	18,519	3/4	3,459	3/4		3/4		3/4	3/4	
9	77,294	9	62,347	9	47,856	9	33,267	9	18,205	9	3,147	9		9		9	9	-
1/4	76,980	1/4	62,045	1/4	47,554	1/4	32,953	1/4	17,891	1/4	2,853	1/4		1/4		1/4	1/4	-
1/2	76,666	1/2	61,743	1/2	47,253	1/2	32,639	1/2	17,578	1/2	2,560	1/2		1/2		1/2	1/2	
3/4	76,353	3/4	61,441	3/4	46,952	3/4	32,325	3/4	17,264	3/4	2,266	3/4		3/4		3/4	3/4	
10	76,039	10	61,139	10	46,651	10	32,011	10	16,950	10	1,973	10		10		10	10	
1/4	75,725	1/4	60,837	1/4	46,350	1/4	31,698	1/4	16,636	1/4	1,737	1/4		1/4		1/4	1/4	-
1/2	75,411	1/2	60,535	1/2	46,049	1/2	31,384	1/2	16,322	1/2	1,502	1/2		1/2		1/2	1/2	-
3/4	75,097	3/4	60,233	3/4	45,748	3/4	31,070	3/4	16,008	3/4	1,267	3/4		3/4		3/4	3/4	-
11	74,783	11	59,931	11	45,446	11	30,756	11	15,695	11	1,031	11		11		11	11	
1/4	74,469	1/4	59,629	1/4	45,145	1/4	30,442	1/4	15,381	1/4		1/4		1/4		1/4	1/4	
1/2	74,156	1/2	59,327	1/2	44,844	1/2	30,129	1/2	15,067	1/2		1/2		1/2		1/2	1/2	-
3/4	73,842	3/4	59,025	3/4	44,543	3/4	29,815	3/4	14,753	3/4		3/4		3/4		3/4	3/4	
	- /		,		,		-,		,	1					OFDIE		ART FOR THE ABOVE NAM	

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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"

AFACI	TIES GIVEN IN WHOLE GAL	LONS															EIGHI	15'-10 3/4"
IN	0 FT.	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	209,853	0	194,902	0	179,885	0	164,823	0	149,755	0	134,688	0	119,620	0	104,549
1/4	1/4		1/4	209,544	1/4	194,589	1/4	179,572	1/4	164,509	1/4	149,441	1/4	134,374	1/4	119,306	1/4	104,235
1/2	1/2		1/2	209,234	1/2	194,276	1/2	179,259	1/2	164,195	1/2	149,127	1/2	134,060	1/2	118,992	1/2	103,921
3/4	3/4		3/4	208,925	3/4	193,963	3/4	178,947	3/4	163,881	3/4	148,814	3/4	133,746	3/4	118,678	3/4	103,607
1	1		1	208,615	1	193,650	1	178,633	1	163,567	1	148,500	1	133,432	1	118,364	1	103,293
1/4	1/4		1/4	208,305	1/4	193,337	1/4	178,320	1/4	163,253	1/4	148,186	1/4	133,118	1/4	118,051	1/4	102,979
1/2	1/2		1/4	207,996	1/4	193,025	1/2	178,006	1/2	162,939	1/2	147,872	1/2	132,804	1/2	117,737	1/2	102,665
3/4	3/4		3/4	207,686	3/4	192,712	3/4	177,693	3/4	162,626	3/4	147,558	3/4	132,490	3/4	117,423	3/4	102,351
2	2		2	207,376	2	192,399	2	177,379	2	162,312	2	147,330	2	132,176	2	117,109	2	102,037
1/4	1/4		1/4	207,066	1/4	192,086	1/4	177,065	1/4	161,998	1/4	146,930	1/4	131,862	1/4	116,795	1/4	101,723
			_	206,756	_	191,773		176,751		161,684		146,616		131,549		116,793	_	101,409
1/2	1/2		1/2 3/4	206,756	1/2 3/4	191,773	1/2	176,751	1/2	161,004	1/2	146,302	1/2 3/4	131,349	1/2	116,461	1/2 3/4	101,409
3/4	3/4		3/4				3/4		3/4		3/4				3/4			
\rightarrow			-	206,136	3	191,148	3	176,124	3	161,056	3	145,988	3	130,921		115,853	3	100,781
1/4	1/4		1/4	205,827	1/4	190,835	1/4	175,810	1/4	160,742	1/4	145,674	1/4	130,607	1/4	115,539	1/4	100,467
1/2	1/2		1/2	205,517	1/2	190,522	1/2	175,496	1/2	160,428	1/2	145,361	1/2	130,293	1/2	115,225	1/2	100,153
3/4	3/4		3/4	205,207	3/4	190,209	3/4	175,182	3/4	160,114	3/4	145,047	3/4	129,979	3/4	114,911	3/4	99,838
4	4		4	204,897	4	189,896	4	174,868	4	159,800	4	144,733	4	129,665	4	114,598	4	99,524
1/4	1/4		1/4	204,587	1/4	189,583	1/4	174,554	1/4	159,486	1/4	144,419	1/4	129,351	1/4	114,284	1/4	99,210
1/2	1/2		1/2	204,278	1/2	189,270	1/2	174,240	1/2	159,173	1/2	144,105	1/2	129,037	1/2	113,970	1/2	98,896
3/4	3/4		3/4	203,968	3/4	188,958	3/4	173,926	3/4	158,859	3/4	143,791	3/4	128,723	3/4	113,656	3/4	98,582
5	5		5	203,657	5	188,645	5	173,612	5	158,545	5	143,477	5	128,409	5	113,342	5	98,268
1/4	1/4		1/4	203,345	1/4	188,332	1/4	173,298	1/4	158,231	1/4	143,163	1/4	128,096	1/4	113,028	1/4	97,954
1/2	1/2		1/2	203,034	1/2	188,019	1/2	172,984	1/2	157,917	1/2	142,849	1/2	127,782	1/2	112,714	1/2	97,640
3/4	3/4		3/4	202,723	3/4	187,706	3/4	172,671	3/4	157,603	3/4	142,535	3/4	127,468	3/4	112,400	3/4	97,326
6	6		6	202,410	6	187,393	6	172,357	6	157,289	6	142,221	6	127,154	6	112,086	6	97,012
1/4	1/4		1/4	202,097	1/4	187,081	1/4	172,043	1/4	156,975	1/4	141,908	1/4	126,840	1/4	111,772	1/4	96,698
1/2	1/2		1/2	201,784	1/2	186,768	1/2	171,729	1/2	156,661	1/2	141,594	1/2	126,526	1/2	111,458	1/2	96,384
3/4	3/4		3/4	201,471	3/4	186,455	3/4	171,415	3/4	156,347	3/4	141,280	3/4	126,212	3/4	111,145	3/4	96,070
7	7		7	201,158	7	186,142	7	171,101	7	156,033	7	140,966	7	125,898	7	110,831	7	95,756
1/4	1/4		1/4	200,846	1/4	185,829	1/4	170,787	1/4	155,720	1/4	140,652	1/4	125,584	1/4	110,517	1/4	95,442
1/2	1/2		1/2	200,533	1/2	185,516	1/2	170,473	1/2	155,406	1/2	140,338	1/2	125,270	1/2	110,203	1/2	95,127
3/4	3/4	214,147	3/4	200,220	3/4	185,203	3/4	170,159	3/4	155,092	3/4	140,024	3/4	124,957	3/4	109,889	3/4	94,813
8	8	213,968	8	199,907	8	184,891	8	169,845	8	154,778	8	139,710	8	124,643	8	109,575	8	94,499
1/4	1/4	213,789	1/4	199,594	1/4	184,578	1/4	169,531	1/4	154,464	1/4	139,396	1/4	124,329	1/4	109,260	1/4	94,185
1/2	1/2	213,610	1/2	199,281	1/2	184,265	1/2	169,218	1/2	154,150	1/2	139,082	1/2	124,015	1/2	108,946	1/2	93,871
3/4	3/4	213,431	3/4	198,969	3/4	183,952	3/4	168,904	3/4	153,836	3/4	138,768	3/4	123,701	3/4	108,632	3/4	93,557
9	9	213,199	9	198,656	9	183,639	9	168,590	9	153,522	9	138,455	9	123,787	9	108,318	9	93,243
$\overline{}$		212,968	-	198,343	-	183,326	-	168,276	-	153,322	-	138,141	-	123,367	-	108,004	-	93,243
1/4	1/4	212,966	1/4	198,343	1/4	183,014	1/4		1/4	153,206	1/4		1/4		1/4	107,690	1/4	92,929
1/2	1/2	212,737	1/2	198,030	1/2	183,014	1/2	167,962 167,648	1/2	152,894	1/2	137,827 137,513	1/2	122,759 122,445	1/2	107,690	1/2 3/4	92,615
3/4	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		_	
10	10	212,225	10	197,404	10	182,388	10	167,334	10	152,267	10	137,199	10	122,131	10	107,062	10	91,987
1/4	1/4	211,945	1/4	197,092	1/4	182,075	1/4	167,020	1/4	151,953	1/4	136,885	1/4	121,817	1/4	106,748	1/4	91,673
1/2	1/2	211,665	1/2	196,779	1/2	181,762	1/2	166,706	1/2	151,639	1/2	136,571	1/2	121,504	1/2	106,434	1/2	91,359
3/4	3/4	211,385	3/4	196,466	3/4	181,449	3/4	166,392	3/4	151,325	3/4	136,257	3/4	121,190	3/4	106,120	3/4	91,045
11	11	211,080	11	196,153	11	181,137	11	166,079	11	151,011	11	135,943	11	120,876	11	105,806	11	90,731
1/4	1/4	210,774	1/4	195,840	1/4	180,824	1/4	165,765	1/4	150,697	1/4	135,629	1/4	120,562	1/4	105,492	1/4	90,416
	1/2	210,468	1/2	195,527	1/2	180,511	1/2	165,451	1/2	150,383	1/2	135,315	1/2	120,248	1/2	105,178	1/2	90,102
1/2	3/4	210,163		195,214	3/4	180,198	3/4	165,137	3/4	150,069		135,002	3/4	119,934		104,864	3/4	89,788

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 STBD **ULLAGE TABLE**

_	TIES GIVEN IN WHO											, ,						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. ℕ	18 FT.	IN	19 FT.
0	89,474	0	74,399	0	59,324	0	44,268	0	29,210	0	14,136	0		0	0		0	
1/4	89,160	1/4	74,085	1/4	59,010	1/4	43,955	1/4	28,896	1/4	13,822	1/4		1/4	1/4		1/4	
1/2	88,846	1/2	73,771	1/2	58,696	1/2	43,642	1/2	28,582	1/2	13,508	1/2		1/2	1/2		1/2	
3/4	88,532	3/4	73,457	3/4	58,382	3/4	43,329	3/4	28,268	3/4	13,194	3/4		3/4	3/4		3/4	
1	88,218	1	73,143	1	58,068	1	43,016	1	27,954	1	12,880	1		1	1		1	
1/4	87,904	1/4	72,829	1/4	57,754	1/4	42,703	1/4	27,640	1/4	12,566	1/4		1/4	1/4		1/4	
1/2	87,590	1/2	72,515	1/2	57,440	1/2	42,390	1/2	27,326	1/2	12,252	1/2		1/2	1/2		1/2	
3/4	87,276	3/4	72,201	3/4	57,126	3/4	42,076	3/4	27,013	3/4	11,938	3/4		3/4	3/4		3/4	
2	86,962	2	71,887	2	56,811	2	41,763	2	26,699	2	11,624	2		2	2		2	
1/4	86,648	1/4	71,573	1/4	56,497	1/4	41,450	1/4	26,385	1/4	11,310	1/4		1/4	1/4		1/4	
1/2	86,334	1/2	71,258	1/2	56,183	1/2	41,137	1/2	26,071	1/2	10,996	1/2		1/2	1/2		1/2	
3/4	86,020	3/4	70,944	3/4	55,869	3/4	40,824	3/4	25,757	3/4	10,682	3/4		3/4	3/4		3/4	
3	85,706	3	70,630	3	55,555	3	40,511	3	25,443	3	10,367	3		3	3		3	
1/4	85,391	1/4	70,316	1/4	55,241	1/4	40,198	1/4	25,129	1/4	10,053	1/4		1/4	1/4		1/4	-
1/2	85,077	1/2	70,002	1/2	54,927	1/2	39,885	1/2	24,814	1/2	9,739	1/2		1/2	1/2		1/2	
3/4	84,763	3/4	69,688	3/4	54,613	3/4	39,571	3/4	24,500	3/4	9,425	3/4		3/4	3/4		3/4	
4	84,449	4	69,374	4	54,299	4	39,258	4	24,186	4	9,111	4		4	4		4	
1/4	84,135	1/4	69,060	1/4	53,985	1/4	38,944	1/4	23,872	1/4	8,797	1/4		1/4	1/4		1/4	
1/2	83,821	1/2	68,746	1/2	53,671	1/2	38,631	1/2	23,558	1/2	8,483	1/2		1/2	1/2		1/2	=======================================
3/4	83,507	3/4	68,432	3/4	53,357	3/4	38,317	3/4	23,244	3/4	8,169	3/4		3/4	3/4		3/4	
5	83,193	5	68,118	5	53,043	5	38,003	5	22,930	5	7,855	5		5	5	_	5	
1/4	82,879	1/4	67,804	1/4	52,729	1/4	37,689	1/4	22,616	1/4	7,541	1/4		1/4	1/4		1/4	
1/2	82,565	1/2	67,490	1/2	52,415	1/2	37,375	1/2	22,302	1/2	7,227	1/2		1/2	1/2		1/2	
3/4	82,251	3/4	67,176	3/4	52,100	3/4	37,061	3/4	21,988	3/4	6,913	3/4		3/4	3/4		3/4	-
6	81,937	6	66,862	6	51,787	6	36,747	6	21,674	6	6,599	6		6	6		6	
1/4	81,623	1/4	66,547	1/4	51,473	1/4	36,433	1/4	21,360	1/4	6,285	1/4		1/4	1/4		1/4	
1/2	81,309	1/2	66,233	1/2	51,159	1/2	36,119	1/2	21,046	1/2	5,971	1/2		1/2	1/2		1/2	
3/4	80,995	3/4	65,919	3/4	50,846	3/4	35,804	3/4	20,732	3/4	5,657	3/4		3/4	3/4		3/4	
7	80,680	7	65,605	7	50,532	7	35,490	7	20,418	7	5.343	7		7	7		7	
1/4	80,366	1/4	65,291	1/4	50,219	1/4	35,176	-	20,103	1/4	5.029	1/4		1/4	1/4		1/4	
	80,052		64,977		49,906		34,862	1/4	19,789	+	4,715	1/4					1/4	
1/2	79,738	1/2	64,663	1/2 3/4	49,592	1/2	34,548	1/2	19,475	1/2 3/4	4,401	3/4		1/2	1/2		3/4	
3/4 8		3/4		8		3/4	34,234	3/4		8	4,088	8		3/4 8	8		8	
$\overline{}$	79,424	-	64,349	-	49,279 48,966				19,161	-		-		-			-	
1/4	79,110	1/4	64,035	1/4	48,966	1/4	33,920	1/4	18,847	1/4	3,775 3,462	1/4		1/4	1/4		1/4	
1/2 3/4	78,796 78,482	1/2 3/4	63,721 63,407	1/2 3/4	48,652	1/2 3/4	33,606 33,292	1/2 3/4	18,533 18,219	1/2 3/4	3,462	1/2 3/4		1/2 3/4	1/2		1/2 3/4	
9	78,168	9	63,093	9	48,026	9	32,978	9	17,905	3/4 9	2,855	9		3/4 9	3/4	_	3/4 9	
\rightarrow		-		-		-		-		\vdash		-		\vdash			\vdash	
1/4	77,854	1/4	62,779	1/4	47,713	1/4	32,664	1/4	17,591	1/4	2,562	1/4		1/4	1/4		1/4	
1/2	77,540	1/2	62,465	1/2	47,400	1/2	32,350	1/2	17,277	1/2	2,268	1/2		1/2	1/2		1/2	
3/4	77,226	3/4	62,151	3/4	47,087	3/4	32,036	3/4	16,963	3/4	1,974	3/4	1	3/4 10	3/4		3/4	
10	76,912	10	61,837	10	46,774	10	31,722	10	16,649	10	1,739	10		\vdash	10		10	
1/4	76,598	1/4	61,522	1/4	46,460	1/4	31,408	1/4	16,335	1/4	1,503	1/4		1/4	1/4		1/4	
1/2	76,284	1/2	61,208	1/2	46,147	1/2	31,093	1/2	16,021	1/2	1,268	1/2		1/2	1/2		1/2	
3/4	75,969	3/4	60,894	3/4	45,834	3/4	30,779	3/4	15,707	3/4	1,032	3/4		3/4	3/4	_	3/4	
11	75,655	11	60,580	11	45,521	11	30,465	11	15,393	11		11		11	11		11	
1/4	75,341	1/4	60,266	1/4	45,208	1/4	30,151	1/4	15,078	1/4		1/4		1/4	1/4		1/4	
1/2	75,027	1/2	59,952	1/2	44,895	1/2	29,837	1/2	14,764	1/2		1/2		1/2	1/2		1/2	
3/4	74,713	3/4	59,638	3/4	44,582	3/4	29,523	3/4	14,450	3/4		3/4		3/4	3/4		3/4	

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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



3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-11"

JAPAC	ITIES GIVEN IN WHOLE GA															GAUGE	пеібп	
IN	0 FT.	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	189,324	0	178,988	0	168,651	0	158,283	0	147,836	0	133,540	0	118,569	0	103,592
1/4	1/4		1/4	189,108	1/4	178,772	1/4	168,436	1/4	158,067	1/4	147,589	1/4	133,228	1/4	118,257	1/4	103,280
1/2	1/2		1/2	188,893	1/2	178,557	1/2	168,221	1/2	157,851	1/2	147,342	1/2	132,916	1/2	117,945	1/2	102,967
3/4	3/4		3/4	188,678	3/4	178,342	3/4	168,005	3/4	157,635	3/4	147,094	3/4	132,605	3/4	117,633	3/4	102,655
1	1		1	188,463	1	178,126	1	167,790	1	157,419	1	146,847	1	132,293	1	117,321	1	102,343
1/4	1/4		1/4	188,248	1/4	177,911	1/4	167,574	1/4	157,203	1/4	146,584	1/4	131,981	1/4	117,009	1/4	102,030
1/2	1/2		1/2	188,032	1/2	177,696	1/2	167,359	1/2	156,987	1/2	146,321	1/2	131,669	1/2	116,697	1/2	101,718
3/4	3/4		3/4	187,817	3/4	177,480	3/4	167,143	3/4	156,771	3/4	146,058	3/4	131,357	3/4	116,385	3/4	101,406
2	2		2	187,602	2	177,265	2	166,927	2	156,555	2	145,795	2	131,045	2	116,073	2	101,094
1/4	1/4		1/4	187,386	1/4	177,049	1/4	166,711	1/4	156,339	1/4	145,516	1/4	130,733	1/4	115,762	1/4	100,781
1/2	1/4		1/4	187,171	1/4	176,834	1/4	166,495	1/4	156,122		145,238	1/4	130,733	1/4	115,762	1/4	100,761
3/4	3/4		3/4	186,955	3/4	176,619	3/4	166,279	3/4	155,906	1/2 3/4	144,959	3/4	130,421	3/4	115,430	3/4	100,469
3/4	3/4		3/4		3/4	,	3/4	,	3/4		3/4		3/4		3/4	•	3/4	99,844
\rightarrow			-	186,740	-	176,403	_	166,063	\leftarrow	155,690	-	144,680		129,797	-	114,826	-	
1/4	1/4		1/4	186,524	1/4	176,188	1/4	165,847	1/4	155,474	1/4	144,385	1/4	129,485	1/4	114,514	1/4	99,532
1/2	1/2		1/2	186,309	1/2	175,973	1/2	165,631	1/2	155,258	1/2	144,090	1/2	129,174	1/2	114,202	1/2	99,220
3/4	3/4		3/4	186,094	3/4	175,757	3/4	165,415	3/4	155,042	3/4	143,796	3/4	128,862	3/4	113,890	3/4	98,907
4	4		4	185,878	4	175,542	4	165,198	4	154,826	4	143,501	4	128,550	4	113,578	4	98,595
1/4	1/4		1/4	185,663	1/4	175,327	1/4	164,982	1/4	154,610	1/4	143,194	1/4	128,238	1/4	113,266	1/4	98,283
1/2	1/2		1/2	185,448	1/2	175,111	1/2	164,766	1/2	154,394	1/2	142,887	1/2	127,926	1/2	112,954	1/2	97,971
3/4	3/4		3/4	185,232	3/4	174,896	3/4	164,550	3/4	154,178	3/4	142,579	3/4	127,614	3/4	112,642	3/4	97,658
5	5		5	185,017	5	174,681	5	164,334	5	153,961	5	142,272	5	127,302	5	112,331	5	97,346
1/4	1/4		1/4	184,802	1/4	174,465	1/4	164,118	1/4	153,745	1/4	141,961	1/4	126,990	1/4	112,019	1/4	97,034
1/2	1/2		1/2	184,586	1/2	174,250	1/2	163,902	1/2	153,529	1/2	141,649	1/2	126,678	1/2	111,707	1/2	96,722
3/4	3/4		3/4	184,371	3/4	174,035	3/4	163,686	3/4	153,313	3/4	141,337	3/4	126,366	3/4	111,395	3/4	96,410
6	6		6	184,156	6	173,819	6	163,470	6	153,097	6	141,026	6	126,054	6	111,083	6	96,098
1/4	1/4		1/4	183,940	1/4	173,604	1/4	163,254	1/4	152,881	1/4	140,714	1/4	125,743	1/4	110,771	1/4	95,786
1/2	1/2		1/2	183,725	1/2	173,389	1/2	163,037	1/2	152,665	1/2	140,402	1/2	125,431	1/2	110,459	1/2	95,474
3/4	3/4		3/4	183,510	3/4	173,173	3/4	162,821	3/4	152,449	3/4	140,090	3/4	125,119	3/4	110,147	3/4	95,162
7	7		7	183,294	7	172,958	7	162,605	7	152,233	7	139,778	7	124,807	7	109,835	7	94,850
1/4	1/4		1/4	183,079	1/4	172,743	1/4	162,389	1/4	152,017	1/4	139,466	1/4	124,495	1/4	109,523	1/4	94,537
1/2	1/2		1/2	182,864	1/2	172,527	1/2	162,173	1/2	151,801	1/2	139,155	1/2	124,183	1/2	109,211	1/2	94,225
3/4	3/4		3/4	182,648	3/4	172,312	3/4	161,957	3/4	151,584	3/4	138,843	3/4	123,871	3/4	108,899	3/4	93,913
8	8	192,077	8	182,433	8	172,097	8	161,741	8	151,368	8	138,531	8	123,559	8	108,587	8	93,601
1/4	1/4	191,953	1/4	182,218	1/4	171,881	1/4	161,525	1/4	151,152	1/4	138,219	1/4	123,247	1/4	108,275	1/4	93,289
1/2	1/2	191,829	1/2	182,002	1/2	171,666	1/2	161,309	1/2	150,936	1/2	137,907	1/2	122,935	1/2	107,963	1/2	92,977
3/4	3/4	191,706	3/4	181,787	3/4	171,451	3/4	161,093	3/4	150,720	3/4	137,595	3/4	122,624	3/4	107,651	3/4	92,665
9	9	191,582	9	181,572	9	171,235	9	160,877	9	150,504	9	137,283	9	122,312	9	107,339	9	92,353
1/4	1/4	191,422	1/4	181,356	1/4	171,020	1/4	160,660	1/4	150,304	1/4	136,971	1/4	122,000	1/4	107,027	1/4	92,041
	1/4	191,422	1/4	181,141	1/4	171,020	1	160,660	1/4	150,266	1/4	136,659	1/4	121,688	1/4	107,027	1/4	92,041
1/2	3/4	,	3/4	180,926	3/4	170,589	1/2 3/4	160,444	3/4	149,856	3/4	136,839		121,000	3/4	106,715	3/4	91,729
3/4 10	3/4	191,103	3/4 10		3/4 10	170,389	3/4 10		3/4 10		3/4 10		3/4 10		3/4 10	•	3/4 10	91,417
_		190,943		180,710	-		_	160,012	\leftarrow	149,640	-	136,036		121,064		106,091	-	
1/4	1/4	190,750	1/4	180,495	1/4	170,159	1/4	159,796	1/4	149,420	1/4	135,724	1/4	120,752	1/4	105,778	1/4	90,793
1/2	1/2	190,557	1/2	180,280	1/2	169,943	1/2	159,580	1/2	149,200	1/2	135,412	1/2	120,440	1/2	105,466	1/2	90,481
3/4	3/4	190,364	3/4	180,064	3/4	169,728	3/4	159,364	3/4	148,981	3/4	135,100	3/4	120,128	3/4	105,154	3/4	90,168
11	11	190,170	11	179,849	11	169,513	11	159,148	11	148,761	11	134,788	11	119,816	11	104,841	11	89,856
1/4	1/4	189,959	1/4	179,634	1/4	169,297	1/4	158,932	1/4	148,530	1/4	134,476	1/4	119,504	1/4	104,529	1/4	89,544
1/2	1/2	189,747	1/2	179,418	1/2	169,082	1/2	158,716	1/2	148,299	1/2	134,164	1/2	119,193	1/2	104,217	1/2	89,232
3/4	3/4	189,535	3/4	179,203	3/4	168,867	3/4	158,499	3/4	148,067	3/4	133,852	3/4	118,881	3/4	103,904	3/4	88,920

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

The Scann



3 PORT ULLAGE TABLE

GAUGE HEIGHT 15'-11"

CAPAC	TIES GIVEN IN WHO	LE GALL	ONS														GAUGE HE	<u>.IGH</u>	Г 15'-11"
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	88,608	0	73,642	0	58,731	0	44,189	0	29,387	0	14,391	0		0		0		0	
1/4	88,296	1/4	73,331	1/4	58,425	1/4	43,884	1/4	29,074	1/4	14,078	1/4		1/4		1/4		1/4	
1/2	87,984	1/2	73,021	1/2	58,119	1/2	43,579	1/2	28,762	1/2	13,766	1/2		1/2		1/2		1/2	
3/4	87,671	3/4	72,710	3/4	57,814	3/4	43,274	3/4	28,450	3/4	13,453	3/4		3/4		3/4		3/4	
1	87,359	1	72,400	1	57,508	1	42,969	1	28,137	1	13,141	1		1		1		1	
1/4	87,047	1/4	72,090	1/4	57,204	1/4	42,663	1/4	27,825	1/4	12,828	1/4		1/4		1/4		1/4	
1/2	86,734	1/2	71,779	1/2	56,899	1/2	42,358	1/2	27,513	1/2	12,516	1/2		1/2		1/2		1/2	
3/4	86,422	3/4	71,469	3/4	56,595	3/4	42,053	3/4	27,201	3/4	12,203	3/4		3/4		3/4		3/4	
2	86,110	2	71,158	2	56,291	2	41,748	2	26,888	2	11,891	2		2		2		2	
1/4	85,797	1/4	70,848	1/4	55,989	1/4	41,443	1/4	26,576	1/4	11,578	1/4		1/4		1/4		1/4	
1/2	85,485	1/2	70,537	1/2	55,686	1/2	41,138	1/2	26,264	1/2	11,266	1/2		1/2		1/2		1/2	
3/4	85,173	3/4	70,227	3/4	55,383	3/4	40,833	3/4	25,951	3/4	10.953	3/4		3/4		3/4		3/4	
3/4	84,860	3/4	69,917	3/4	55,081	3/4	40,533	3/4	25,639	3/4	10,640	3/4		3/4		3/4		3/4	
$\overline{}$		-		-		-	40,328	-		\vdash		+					_	_	
1/4	84,548	1/4	69,606	1/4	54,778	1/4		1/4	25,326	1/4	10,327	1/4		1/4		1/4		1/4	
1/2	84,235	1/2	69,296	1/2	54,476	1/2	39,917	1/2	25,014	1/2	10,014	1/2		1/2		1/2		1/2	
3/4	83,923	3/4	68,985	3/4	54,173	3/4	39,612	3/4	24,701	3/4	9,701	3/4		3/4		3/4		3/4	
4	83,611	4	68,675	4	53,870	4	39,307	4	24,389	4	9,388	4		4		4		4	
1/4	83,298	1/4	68,365	1/4	53,568	1/4	39,002	1/4	24,077	1/4	9,076	1/4		1/4		1/4		1/4	
1/2	82,986	1/2	68,054	1/2	53,265	1/2	38,697	1/2	23,764	1/2	8,763	1/2		1/2		1/2		1/2	
3/4	82,673	3/4	67,744	3/4	52,963	3/4	38,392	3/4	23,452	3/4	8,450	3/4		3/4		3/4		3/4	
5	82,361	5	67,433	5	52,660	5	38,087	5	23,139	5	8,137	5		5		5	<u> </u>	5	
1/4	82,049	1/4	67,123	1/4	52,358	1/4	37,782	1/4	22,827	1/4	7,824	1/4		1/4		1/4		1/4	
1/2	81,736	1/2	66,812	1/2	52,055	1/2	37,476	1/2	22,514	1/2	7,512	1/2		1/2		1/2		1/2	
3/4	81,424	3/4	66,502	3/4	51,752	3/4	37,171	3/4	22,202	3/4	7,199	3/4		3/4		3/4		3/4	
6	81,111	6	66,192	6	51,450	6	36,866	6	21,889	6	6,886	6		6		6	ı	6	
1/4	80,799	1/4	65,881	1/4	51,147	1/4	36,558	1/4	21,577	1/4	6,574	1/4		1/4		1/4		1/4	
1/2	80,487	1/2	65,571	1/2	50,845	1/2	36,250	1/2	21,264	1/2	6,261	1/2		1/2		1/2		1/2	
3/4	80,174	3/4	65,260	3/4	50,542	3/4	35,941	3/4	20,952	3/4	5,949	3/4		3/4		3/4		3/4	
7	79,862	7	64,950	7	50,239	7	35,633	7	20,640	7	5,636	7		7		7		7	
1/4	79,550	1/4	64,639	1/4	49,937	1/4	35,321	1/4	20.327	1/4	5,323	1/4		1/4		1/4		1/4	
1/2	79,237	1/2	64,329	1/2	49,634	1/2	35,009	1/2	20,015	1/2	5,011	1/2		1/2		1/2		1/2	
3/4	78,925	3/4	64,019	3/4	49,332	3/4	34,697	3/4	19,702	3/4	4,698	3/4		3/4		3/4		3/4	
8	78,612	8	63,708	8	49,029	8	34,385	8	19,390	8	4,385	8		8		8		8	
1/4	78,301	1/4	63,397	1/4	48,727	1/4	34,073	1/4	19,077	1/4	4,074	1/4		1/4		1/4	_	1/4	
1/2	77,990	1/2	63,086	1/2	48,424	1/2	33,760	1/2	18,765	1/2	3,762	1/2		1/2		1/2		1/2	
3/4	77,678	3/4	62,774	3/4	48,121	3/4	33,448	3/4	18,452	3/4	3,450	3/4		3/4		3/4		3/4	
9	77,367	9	62,463	9	47,819	9	33,136	9	18,140	9	3,138	9		9		9		9	
	77,056	1/4	62,151	1/4	47,517	1/4	32,823	1/4	17,828	1/4	2,845	1/4		1/4		1/4	_	1/4	
1/4	76,746	_	61,839		47,214		32,511		17,515		2,552	1/4		1/4		1/4		1/4	
1/2 3/4	76,746	1/2 3/4	61,527	1/2 3/4	46,912	1/2 3/4	32,511	1/2 3/4	17,203	1/2 3/4	2,352	3/4		3/4		3/4		3/4	
3/4 10	76,436	3/4 10	•	3/4 10		3/4 10		3/4		3/4 10		3/4 10		3/4		3/4 10		3/4 10	
_		_	61,215	-	46,610		31,886		16,890	-	1,967	-						_	
1/4	75,815	1/4	60,903	1/4	46,308	1/4	31,573	1/4	16,578	1/4	1,733	1/4		1/4		1/4		1/4	
1/2	75,504	1/2	60,591	1/2	46,006	1/2	31,261	1/2	16,265	1/2	1,498	1/2		1/2		1/2		1/2	
3/4	75,194	3/4	60,279	3/4	45,705	3/4	30,948	3/4	15,953	3/4	1,263	3/4		3/4		3/4		3/4	
11	74,883	11	59,967	11	45,403	11	30,636	11	15,640	11	1,029	11		11		11		11	
1/4	74,573	1/4	59,658	1/4	45,099	1/4	30,324	1/4	15,328	1/4		1/4		1/4		1/4		1/4	
1/2	74,263	1/2	59,349	1/2	44,796	1/2	30,011	1/2	15,015	1/2		1/2		1/2		1/2		1/2	
3/4	73,952	3/4	59,040	3/4	44,493	3/4	29,699	3/4	14,703	3/4		3/4		3/4		3/4	ART FOR THE AROV	3/4	

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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



3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

N N O O O O O O O O O O O O O O O O O O	0 FT. IN 0 1/4 1/2 3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 2 1/4 3/4 3 3	1 FT.	1/4 1/2 3/4 1 1/2 3/4 1/2 3/4 2	2 FT. 190,082 189,867 189,652 189,437 189,222 189,006 188,791 188,576	1/4 1/2 3/4 1 1/4 1/2 1/4	3 FT. 179,749 179,534 179,319 179,103 178,888 178,673	1/4 1/2 3/4 1	4 FT. 169,416 169,201 168,986 168,770	1/4 1/2 3/4	5 FT. 159,051 158,835 158,619	1/4 1/2	6 FT. 148,575 148,328 148,080	1/4	7 FT. 134,189 133,877	IN 0 1/4	8 FT. 119,189 118,877	IN 0 1/4	9 FT. 104,184 103,871
14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	1/4 1/2 3/4 1 1/4 1/4 1/4 1/2 3/4 2 1/4 1/2 3/4		1/4 1/2 3/4 1 1/4 1/4 1/2 3/4	189,867 189,652 189,437 189,222 189,006 188,791	1/4 1/2 3/4 1 1/4	179,534 179,319 179,103 178,888	1/4 1/2 3/4	169,201 168,986 168,770	1/4	158,835	1/4	148,328	1/4	133,877	1/4	118,877		103,871
12 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/2 3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 1/2 3/4		1/2 3/4 1 1/4 1/2 3/4	189,652 189,437 189,222 189,006 188,791	1/2 3/4 1 1/4	179,319 179,103 178,888	1/2 3/4	168,986 168,770	1/2								1/4	
14	3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 1/2 3/4		3/4 1 1/4 1/2 3/4	189,437 189,222 189,006 188,791	3/4 1 1/4	179,103 178,888	3/4	168,770		158,619	1/2	1/0 000		100 =01				
14	3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 1/2 3/4		3/4 1 1/4 1/2 3/4	189,437 189,222 189,006 188,791	3/4 1 1/4	179,103 178,888	3/4	168,770	2/4			140,000	1/2	133,564	1/2	118,564	1/2	103,558
14	1/4 1/2 3/4 2 1/4 1/2 3/4		1/4 1/2 3/4	189,222 189,006 188,791	1/4		1	400 555	3/4	158,402	3/4	147,833	3/4	133,252	3/4	118,252	3/4	103,245
/2 //4 //2 //4 //4 //2 //4 //4 //4 //4 /	1/2 3/4 2 1/4 1/2 3/4		1/2 3/4	189,006 188,791			-	168,555	1	158,186	1	147,570	1	132,939	1	117,939	1	102,932
/2 //4 //2 //4 //4 //2 //4 //4 //4 //4 /	1/2 3/4 2 1/4 1/2 3/4		1/2 3/4	188,791		,	1/4	168,339	1/4	157,970	1/4	147,306	1/4	132,627	1/4	117,627	1/4	102,619
2 2 4 4 7 2 1 4 3 3	3/4 2 1/4 1/2 3/4		3/4			178,457	1/2	168,123	1/2	157,754	1/2	147,043	1/2	132,314	1/2	117,314	1/2	102,307
2	2 1/4 1/2 3/4				3/4	178,242	3/4	167,908	3/4	157,538	3/4	146,780	3/4	132,002	3/4	117,002	3/4	101,994
/4 //2 //4 //4 //2	1/4 1/2 3/4			188,360	2	178,027	2	167,692	2	157,322	2	146,500	2	131,689	2	116,689	2	101,681
1/2 1/4 3 3 1/4 1/2	1/2 3/4		1/4	188,145	1/4	177,812	1/4	167,476	1/4	157,106	1/4	146,221	1/4	131,377	1/4	116,377	1/4	101,368
3 /4 /4 /2	3/4		1/4	187,930	1/4	177,596	1/4	167,260	1/4	156,890	1/4	145,942	1/4	131,064	1/4	116,064	1/4	101,055
3 /4 /2			3/4	187,714	3/4	177,390	3/4	167,044	3/4	156,674	3/4	145,663	3/4	130,752	3/4	115,752	3/4	100,742
/4			3/4		_		-		_									
/2			-	187,499	3	177,166	3	166,828	3	156,458	3	145,367	3	130,439	3	115,439	3	100,429
	1/4		1/4	187,284	1/4	176,951	1/4	166,612	1/4	156,242	1/4	145,072	1/4	130,127	1/4	115,127	1/4	100,116
	1/2		1/2	187,068	1/2	176,735	1/2	166,396	1/2	156,026	1/2	144,776	1/2	129,814	1/2	114,814	1/2	99,803
/4	3/4		3/4	186,853	3/4	176,520	3/4	166,180	3/4	155,810	3/4	144,481	3/4	129,502	3/4	114,502	3/4	99,490
1	4		4	186,638	4	176,305	4	165,964	4	155,594	4	144,173	4	129,189	4	114,189	4	99,177
/4	1/4		1/4	186,422	1/4	176,089	1/4	165,747	1/4	155,378	1/4	143,865	1/4	128,877	1/4	113,877	1/4	98,865
/2	1/2		1/2	186,207	1/2	175,874	1/2	165,531	1/2	155,162	1/2	143,558	1/2	128,564	1/2	113,564	1/2	98,552
/4	3/4		3/4	185,992	3/4	175,659	3/4	165,315	3/4	154,946	3/4	143,250	3/4	128,252	3/4	113,252	3/4	98,239
5	5		5	185,777	5	175,444	5	165,099	5	154,730	5	142,938	5	127,939	5	112,939	5	97,926
/4	1/4		1/4	185,561	1/4	175,228	1/4	164,883	1/4	154,514	1/4	142,626	1/4	127,627	1/4	112,627	1/4	97,613
/2	1/2		1/2	185,346	1/2	175,013	1/2	164,667	1/2	154,298	1/2	142,313	1/2	127,314	1/2	112,314	1/2	97,300
/4	3/4		3/4	185,131	3/4	174,798	3/4	164,451	3/4	154,082	3/4	142,001	3/4	127,002	3/4	112,002	3/4	96,987
3	6		6	184,916	6	174,583	6	164,235	6	153,866	6	141,689	6	126,689	6	111,689	6	96,674
/4	1/4		1/4	184,700	1/4	174,367	1/4	164,019	1/4	153,650	1/4	141,376	1/4	126,377	1/4	111,377	1/4	96,361
/2	1/2		1/2	184,485	1/2	174,152	1/2	163,803	1/2	153,434	1/2	141,064	1/2	126,064	1/2	111,064	1/2	96,048
/4	3/4		3/4	184,270	3/4	173,937	3/4	163,587	3/4	153,218	3/4	140,751	3/4	125,752	3/4	110,752	3/4	95,735
7	7		7	184,054	7	173,722	7	163,371	7	153,002	7	140,439	7	125,439	7	110,439	7	95,422
/4	1/4		1/4	183,839	1/4	173,506	1/4	163,155	1/4	152,786	1/4	140,126	1/4	125,127	1/4	110,127	1/4	95,110
/2	1/2		1/2	183,624	1/2	173,291	1/2	162,939	1/2	152,570	1/2	139,814	1/2	124,814	1/2	109,814	1/2	94,797
/4	3/4	193,049	3/4	183,409	3/4	173,076	3/4	162,723	3/4	152,354	3/4	139,501	3/4	124,502	3/4	109,502	3/4	94,484
3	8	192,926	8	183,193	8	172,860	8	162,507	8	152,138	8	139,189	8	124,189	8	109,189	8	94,171
/4	1/4	192,802	1/4	182,978	1/4	172,645	\vdash	162,291	1/4	151,922	1/4	138,876	1/4	123,877	1/4	108,877	1/4	93,858
		192,679		182,763		172,430	1/4	162,291		151,922		138,564		123,564	1/4	108,564		93,545
/2	1/2	192,555	1/2 3/4	182,763	1/2 3/4	172,430	1/2	162,075	1/2 3/4	151,706	1/2	138,251	1/2 3/4	123,364		108,364	1/2 3/4	93,545
9	3/4	•	3/4 9	182,332	3/4 9		3/4 9	•	3/4 9	151,490	3/4 9		3/4 9	•	3/4 9		3/4 9	•
_		192,395	-		-	171,999	\vdash	161,643	-	•	-	137,939	-	122,939		107,939	_	92,919
/4	1/4	192,235	1/4	182,117	1/4	171,784	1/4	161,427	1/4	151,057	1/4	137,627	1/4	122,627	1/4	107,626	1/4	92,606
/2	1/2	192,076	1/2	181,902	1/2	171,569	1/2	161,211	1/2	150,841	1/2	137,314	1/2	122,314	1/2	107,313	1/2	92,293
4	3/4	191,916	3/4	181,686	3/4	171,354	3/4	160,995	3/4	150,625	3/4	137,002	3/4	122,002	3/4	107,000	3/4	91,980
0	10	191,723	10	181,471	10	171,138	10	160,779	10	150,406	10	136,689	10	121,689	10	106,687	10	91,668
/4	1/4	191,530	1/4	181,256	1/4	170,923	1/4	160,563	1/4	150,186	1/4	136,377	1/4	121,377	1/4	106,374	1/4	91,355
/2	1/2	191,337	1/2	181,041	1/2	170,708	1/2	160,347	1/2	149,967	1/2	136,064	1/2	121,064	1/2	106,062	1/2	91,042
/4	3/4	191,144	3/4	180,825	3/4	170,493	3/4	160,131	3/4	149,747	3/4	135,752	3/4	120,752	3/4	105,749	3/4	90,729
1	11	190,932	11	180,610	11	170,277	11	159,915	11	149,516	11	135,439	11	120,439	11	105,436	11	90,416
/4	1/4	190,720	1/4	180,395	1/4	170,062	1/4	159,699	1/4	149,285	1/4	135,127	1/4	120,127	1/4	105,123	1/4	90,103
/2	1/2	190,509	1/2	180,180	1/2	169,847	1/2	159,483	1/2	149,053	1/2	134,814	1/2	119,814	1/2	104,810	1/2	89,790
/4	3/4	190,297	3/4	179,964	3/4	169,631	3/4	159,267	3/4	148,822	3/4	134,502	3/4	119,502	3/4	104,497	3/4	89,477

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

Fre James



3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-10 3/4"

PACI	TIES GIVEN IN WH	OLE GALLO													GAUGE HEIGHT	
N	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT. N	17 FT . ℕ	18 FT. N	19 FT.
0	89,164	0	74,144	0	59,125	0	44,108	0	29,103	0	14,084	0	0	0	0	
4	88,851	1/4	73,832	1/4	58,812	1/4	43,796	1/4	28,790	1/4	13,771	1/4	1/4	1/4	1/4	
	88,538	1/2	73,519	1/2	58,499	1/2	43,484	1/2	28,477	1/2	13,458	1/2	1/2	1/2	1/2	
	88,226	3/4	73,206	3/4	58,186	3/4	43,171	3/4	28,165	3/4	13,145	3/4	3/4	3/4	3/4	
T	87,913	1	72,893	1	57,873	1	42,859	1	27,852	1	12,832	1	1	1	1	
	87,600	1/4	72,580	1/4	57,560	1/4	42,546	1/4	27,539	1/4	12,519	1/4	1/4	1/4	1/4	
	87,287	1/2	72,267	1/2	57,247	1/2	42,234	1/2	27,226	1/2	12,207	1/2	1/2	1/4	1/2	
	86,974	3/4	71,954	3/4	56,934	3/4	41,922	3/4	26,913	3/4	11,894	3/4	3/4	3/4	3/4	
T	86,661	2	71,641	2	56,621	2	41,609	2	26,600	2	11,581	2	2	2	2	
+	86,348	1/4	71,328	1/4	56,308	1/4	41,297	1/4	26,287	1/4	11,268	1/4	1/4	1/4	1/4	
_	86,035		71,015		55,996		40,984		25,974		10,955					
	85,722	1/2 3/4	70,702	1/2	55,683	1/2	40,672	1/2 3/4	25,661	1/2	10,933	1/2 3/4	1/2	1/2	1/2	
+		_		3/4		3/4		_		3/4		_	3/4	3/4		
4	85,409	3	70,390	3	55,370	3	40,359	3	25,348	3	10,329	3			3	
	85,096	1/4	70,077	1/4	55,057	1/4	40,047	1/4	25,036	1/4	10,016	1/4	1/4	1/4	1/4	
+	84,783	1/2	69,764	1/2	54,744	1/2	39,735	1/2	24,723	1/2	9,703	1/2	1/2	1/2	1/2	
\dagger	84,471	3/4	69,451	3/4	54,431	3/4	39,422	3/4	24,410	3/4	9,390	3/4	3/4	3/4	3/4	
┸	84,158	4	69,138	4	54,118	4	39,110	4	24,097	4	9,077	4	4	4	4	
	83,845	1/4	68,825	1/4	53,805	1/4	38,797	1/4	23,784	1/4	8,765	1/4	1/4	1/4	1/4	
	83,532	1/2	68,512	1/2	53,492	1/2	38,485	1/2	23,471	1/2	8,452	1/2	1/2	1/2	1/2	
Ļ	83,219	3/4	68,199	3/4	53,179	3/4	38,173	3/4	23,158	3/4	8,139	3/4	3/4	3/4	3/4	
	82,906	5	67,886	5	52,866	5	37,860	5	22,845	5	7,826	5	5	5	5	
	82,593	1/4	67,573	1/4	52,554	1/4	37,548	1/4	22,532	1/4	7,513	1/4	1/4	1/4	1/4	
	82,280	1/2	67,260	1/2	52,241	1/2	37,235	1/2	22,219	1/2	7,200	1/2	1/2	1/2	1/2	
	81,967	3/4	66,947	3/4	51,928	3/4	36,923	3/4	21,906	3/4	6,887	3/4	3/4	3/4	3/4	
T	81,654	6	66,635	6	51,615	6	36,611	6	21,594	6	6,574	6	6	6	6	
Ī	81,341	1/4	66,322	1/4	51,302	1/4	36,298	1/4	21,281	1/4	6,261	1/4	1/4	1/4	1/4	
	81,029	1/2	66,009	1/2	50,989	1/2	35,986	1/2	20,968	1/2	5,949	1/2	1/2	1/2	1/2	
T	80,716	3/4	65,696	3/4	50,676	3/4	35,673	3/4	20,655	3/4	5,636	3/4	3/4	3/4	3/4	
T	80,403	7	65,383	7	50,363	7	35,361	7	20,342	7	5,323	7	7	7	7	
1	80,090	1/4	65,070	1/4	50,050	1/4	35,048	1/4	20,029	1/4	5,010	1/4	1/4	1/4	1/4	
t	79,777	1/2	64,757	1/2	49,737	1/2	34,735	1/2	19,716	1/2	4,698	1/2	1/2	1/2	1/2	
t	79,464	3/4	64,444	3/4	49,424	3/4	34,423	3/4	19,403	3/4	4,385	3/4	3/4	3/4	3/4	
t	79,151	8	64,131	8	49,111	8	34,110	8	19,090	8	4,073	8	8	8	8	
╫	78,838	1/4	63,818	1/4	48,799	1/4	33,797	1/4	18,777	1/4	3,761	1/4	1/4	1/4	1/4	
+	78,525	1/4	63,505	1/4	48,486	1/4	33,484	1/4	18,465	1/4	3,761	1/4	1/4	1/4	1/4	
+	78,212	3/4	63,193	3/4	48,173	3/4	33,171	3/4	18,152	3/4	3,137	3/4	3/4	3/4	3/4	
t	77,899	9	62,880	9	47,860	9	32,858	9	17,839	3/4	2.845	9	9	3/4	3/4	
╀	,	-		+	47,547	-		_	17,526	\vdash	2,552	-				
+	77,586	1/4	62,567	1/4		1/4	32,545	1/4		1/4		1/4	1/4	1/4	1/4	
+	77,274	1/2	62,254	1/2	47,234	1/2	32,232	1/2	17,213	1/2	2,260	1/2	1/2	1/2	1/2	
╁	76,961	3/4	61,941	3/4	46,922	3/4	31,919	3/4	16,900	3/4	1,967	3/4	3/4	3/4	3/4	
Ļ	76,648	10	61,628	10	46,609	10	31,606	10	16,587	10	1,732	10	10	10	10	
1	76,335	1/4	61,315	1/4	46,296	1/4	31,294	1/4	16,274	1/4	1,498	1/4	1/4	1/4	1/4	
1	76,022	1/2	61,002	1/2	45,984	1/2	30,981	1/2	15,961	1/2	1,263	1/2	1/2	1/2	1/2	
1	75,709	3/4	60,689	3/4	45,671	3/4	30,668	3/4	15,648	3/4	1,028	3/4	3/4	3/4	3/4	
	75,396	11	60,376	11	45,359	11	30,355	11	15,336	11		11	11	11	11	
$\mathbb{I}^{}$	75,083	1/4	60,063	1/4	45,046	1/4	30,042	1/4	15,023	1/4		1/4	1/4	1/4	1/4	
	74,770	1/2	59,750	1/2	44,733	1/2	29,729	1/2	14,710	1/2		1/2	1/2	1/2	1/2	
	74,457	3/4	59,438	3/4	44,421	3/4	29,416	3/4	14,397	3/4		3/4	3/4	3/4	3/4	

STRAPPED: 02/15/2012 CL - SW CALCULATED: 02/16/2012 CL PRINTED: 02/16/2012 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 1/2"

CAPACI	TIES GIVEN IN WHOLE	E GALLO	DNS														GAUGE HEI	GHT	6'-01 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		0		0	4,848	0	3,698	0	2,545	0	1,393	0	240	0		0		0	
1/4		1/4		1/4	4,825	1/4	3,674	1/4	2,521	1/4	1,369	1/4	216	1/4		1/4		1/4	
1/2		1/2		1/2	4,801	1/2	3,650	1/2	2,497	1/2	1,345	1/2	192	1/2		1/2		1/2	
3/4		3/4		3/4	4,777	3/4	3,626	3/4	2,473	3/4	1,321	3/4	168	3/4		3/4		3/4	
1		1		1	4,754	1	3,602	1	2,449	1	1,297	1	144	1		1		1	
1/4		1/4		1/4	4,730	1/4	3,578	1/4	2,426	1/4	1,273	1/4	120	1/4		1/4		1/4	
1/2		1/2		1/2	4,706	1/2	3,553	1/2	2,402	1/2	1,249	1/2	96	1/2		1/2		1/2	
3/4		3/4		3/4	4,682	3/4	3,529	3/4	2,378	3/4	1,225	3/4		3/4		3/4		3/4	
2		2		2	4,658	2	3,505	2	2,354	2	1,201	2		2		2		2	
1/4		1/4		1/4	4,634	1/4	3,481	1/4	2,330	1/4	1,177	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,610	1/2	3,457	1/2	2,306	1/2	1,153	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,586	3/4	3,433	3/4	2,282	3/4	1,129	3/4		3/4		3/4		3/4	
3		3		3	4,562	3	3,409	3	2,258	3	1,105	3		3		3		3	
1/4		1/4		1/4	4,538	1/4	3,385	1/4	2,234	1/4	1,081	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,514	1/2	3,361	1/2	2,210	1/2	1,057	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,490	3/4	3,337	3/4	2,186	3/4	1,037	3/4		3/4		3/4		3/4	
4		4		4	4,466	4	3,313	4	2,162	4	1,009	4		4		4		4	
1/4		1/4		1/4	4,442	-	3,289	1/4	2,138	+	985	1/4		1/4		1/4		1/4	
				1/4	4,418	1/4	3,265	1/4	2,114	1/4	961	1/4						1/4	
1/2		1/2 3/4		3/4	4,416	1/2 3/4	3,241	3/4	2,114	1/2 3/4	937	3/4		1/2 3/4		1/2 3/4		3/4	
5	_	5		5	4,370	5		5	2,066	5	913	5		5		5		5	
-		_		_		-	3,217	-		+		-						-	
1/4		1/4		1/4	4,346	1/4	3,193	1/4	2,042	1/4	889	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,322	1/2	3,169	1/2	2,017	1/2	865	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,298	3/4	3,145	3/4	1,993	3/4	841	3/4		3/4		3/4		3/4	
6		6		6	4,274	6	3,121	6	1,969	6	817	6		6		6		6	
1/4		1/4		1/4	4,250	1/4	3,097	1/4	1,945	1/4	793	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,226	1/2	3,073	1/2	1,921	1/2	769	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,202	3/4	3,049	3/4	1,897	3/4	745	3/4		3/4		3/4		3/4	
7	_	7		7	4,178	7	3,025	7	1,873	7	721	7		7		7		7	
1/4		1/4		1/4	4,154	1/4	3,001	1/4	1,849	1/4	697	1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,130	1/2	2,977	1/2	1,825	1/2	673	1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,106	3/4	2,953	3/4	1,801	3/4	649	3/4		3/4		3/4		3/4	
8		8		8	4,082	8	2,929	8	1,777	8	625	8		8		8		8	
1/4		1/4		1/4	4,058	1/4	2,905	1/4	1,753	1/4	601	1/4		1/4		1/4		1/4	
1/2		1/2	5,131	1/2	4,034	1/2	2,881	1/2	1,729	1/2	577	1/2		1/2		1/2		1/2	
3/4		3/4	5,119	3/4	4,010	3/4	2,857	3/4	1,705	3/4	552	3/4		3/4		3/4		3/4	
9		9	5,108	9	3,986	9	2,833	9	1,681	9	528	9		9		9		9	
1/4		1/4	5,096	1/4	3,962	1/4	2,809	1/4	1,657	1/4	504	1/4		1/4		1/4		1/4	
1/2		1/2	5,084	1/2	3,938	1/2	2,785	1/2	1,633	1/2	480	1/2		1/2		1/2		1/2	
3/4		3/4	5,061	3/4	3,914	3/4	2,761	3/4	1,609	3/4	456	3/4		3/4	-	3/4		3/4	
10		10	5,037	10	3,890	10	2,737	10	1,585	10	432	10		10		10		10	
1/4		1/4	5,014	1/4	3,866	1/4	2,713	1/4	1,561	1/4	408	1/4		1/4		1/4		1/4	
1/2		1/2	4,990	1/2	3,842	1/2	2,689	1/2	1,537	1/2	384	1/2		1/2		1/2		1/2	-
3/4		3/4	4,967	3/4	3,818	3/4	2,665	3/4	1,513	3/4	360	3/4		3/4		3/4		3/4	
11		11	4,943	11	3,794	11	2,641	11	1,489	11	336	11		11		11		11	
1/4	_	1/4	4.919	1/4	3,770	1/4	2,617	1/4	1,465	1/4	312	1/4		1/4		1/4		1/4	-
1/2		1/2	4,896	1/2	3,746	1/2	2,593	1/2	1,441	1/2	288	1/2		1/2		1/2		1/2	-
3/4		3/4	4,872	3/4	3,722	3/4	2,569	3/4	1,417	3/4	264	3/4		3/4		3/4		3/4	
314		3/4	7,012	3/4	3,122	3/4	2,503	3/4	1,717	3/4	207	3/4		3/4	OFDITIE		ADT FOR THE ADOL		MED TANK ON

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.
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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 1/2"

	TIES GIVEN IN WHO													, ,			GAUGE HEIGH	
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	4,848	0	3,698	0	2,545	0	1,393	0	240	0		0	0	
1/4		1/4		1/4	4,825	1/4	3,674	1/4	2,521	1/4	1,369	1/4	216	1/4		1/4	1/4	
1/2		1/2		1/2	4,801	1/2	3,650	1/2	2,497	1/2	1,345	1/2	192	1/2		1/2	1/2	
3/4		3/4		3/4	4,777	3/4	3,626	3/4	2,473	3/4	1,321	3/4	168	3/4		3/4	3/4	
1		1		1	4,754	1	3,602	1	2,449	1	1,297	1	144	1		1	1	
1/4		1/4		1/4	4,730	1/4	3,578	1/4	2,426	1/4	1,273	1/4	120	1/4		1/4	1/4	
1/2		1/2		1/2	4,706	1/2	3,553	1/2	2,402	1/2	1,249	1/2	96	1/2		1/2	1/2	
3/4		3/4		3/4	4,682	3/4	3,529	3/4	2,378	3/4	1,225	3/4		3/4		3/4	3/4	
2		2		2	4,658	2	3,505	2	2,354	2	1,201	2		2		2	2	
1/4		1/4		1/4	4,634	1/4	3,481	1/4	2,330	1/4	1,177	1/4		1/4		1/4	1/4	
1/2		1/2		1/2	4,610	1/2	3,457	1/2	2,306	1/2	1,153	1/2		1/2		1/2	1/2	
3/4		3/4		3/4	4,586	3/4	3,433	3/4	2,282	3/4	1,129	3/4		3/4		3/4	3/4	
3		3		3	4,562	3	3,409	3	2,258	3	1,105	3		3		3	3	
1/4		1/4		1/4	4,538	1/4	3,385	1/4	2,234	1/4	1.081	1/4		1/4		1/4	1/4	
1/2		1/2		1/2	4,514	1/2	3,361	1/2	2,210	1/2	1,057	1/2		1/2		1/2	1/2	
3/4		3/4		3/4	4,490	3/4	3,337	3/4	2,186	3/4	1,037	3/4		3/4		3/4	3/4	
4		4		4	4,466	4	3,313	4	2,162	4	1,009	4		4	ſ	4	4	
1/4		1/4		1/4	4,442	1/4	3,289	1/4	2,138	1/4	985	1/4		1/4		1/4	1/4	
1/4		1/4		1/2	4,418	1/4	3,265	1/4	2,114	1/4	961	1/4		1/4		1/4	1/4	
3/4		3/4		3/4	4,394	3/4	3,241	3/4	2,090	3/4	937	3/4		3/4		3/4	3/4	
5		5		5	4,370	5	3,217	5	2,066	5	913	5		5		5	5	
_		-		_	4,346	-	3,193	1/4	2,042	1/4	889	1/4		-		1/4	-	
/4		1/4		1/4	4,322	1/4	3,169		2,042		865			1/4			1/4	
/2		1/2 3/4		1/2 3/4	4,322	1/2 3/4	3,145	1/2 3/4	1,993	1/2 3/4	841	1/2 3/4		1/2 3/4		1/2 3/4	1/2	
3/4 6		6		6	4,274	6		6		6		6		6		6	6	
_		_		_		-	3,121		1,969	-	817	-		-				
1/4		1/4		1/4	4,250	1/4	3,097	1/4	1,945	1/4	793	1/4		1/4		1/4	1/4	
1/2		1/2		1/2	4,226	1/2	3,073	1/2	1,921	1/2	769	1/2		1/2		1/2	1/2	
3/4		3/4		3/4	4,202	3/4	3,049	3/4	1,897	3/4	745	3/4		3/4		3/4	3/4	
7		7		7	4,178	7	3,025	7	1,873	7	721	7		7		7	7	
1/4		1/4		1/4	4,154	1/4	3,001	1/4	1,849	1/4	697	1/4		1/4		1/4	1/4	
1/2		1/2		1/2	4,130	1/2	2,977	1/2	1,825	1/2	673	1/2		1/2		1/2	1/2	
3/4		3/4		3/4	4,106	3/4	2,953	3/4	1,801	3/4	649	3/4		3/4		3/4	3/4	
8		8		8	4,082	8	2,929	8	1,777	8	625	8		8		8	8	
1/4		1/4		1/4	4,058	1/4	2,905	1/4	1,753	1/4	601	1/4		1/4		1/4	1/4	
1/2		1/2	5,131	1/2	4,034	1/2	2,881	1/2	1,729	1/2	577	1/2		1/2		1/2	1/2	
3/4		3/4	5,119	3/4	4,010	3/4	2,857	3/4	1,705	3/4	552	3/4		3/4		3/4	3/4	
9		9	5,108	9	3,986	9	2,833	9	1,681	9	528	9		9		9	9	
1/4		1/4	5,096	1/4	3,962	1/4	2,809	1/4	1,657	1/4	504	1/4		1/4		1/4	1/4	
1/2		1/2	5,084	1/2	3,938	1/2	2,785	1/2	1,633	1/2	480	1/2		1/2		1/2	1/2	
3/4		3/4	5,061	3/4	3,914	3/4	2,761	3/4	1,609	3/4	456	3/4		3/4		3/4	3/4	
10		10	5,037	10	3,890	10	2,737	10	1,585	10	432	10		10		10	10	
/4		1/4	5,014	1/4	3,866	1/4	2,713	1/4	1,561	1/4	408	1/4		1/4		1/4	1/4	
1/2		1/2	4,990	1/2	3,842	1/2	2,689	1/2	1,537	1/2	384	1/2		1/2		1/2	1/2	
3/4		3/4	4,967	3/4	3,818	3/4	2,665	3/4	1,513	3/4	360	3/4		3/4		3/4	3/4	
11		11	4,943	11	3,794	11	2,641	11	1,489	11	336	11		11	ſ	11	11	
1/4		1/4	4,919	1/4	3,770	1/4	2,617	1/4	1,465	1/4	312	1/4		1/4		1/4	1/4	
1/2		1/2	4,896	1/2	3,746	1/2	2,593	1/2	1,441	1/2	288	1/2		1/2		1/2	1/2	
3/4		3/4	4,872	3/4	3,722	3/4	2,569	3/4	1,417	3/4	264	3/4		3/4		3/4	3/4	

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