



BARGE "HFL 222 SS"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	- 00-1/2	00-1/2	- 01-0/8	01-0/8	- 01-1/2	01-1/2	- 02-0/8	02-0/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8
2 CENTER	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	01-1/2	- 01-1/2	01-7/8	- 01-7/8	02-1/4	- 02-1/4
3 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 163'-03"

August 16, 2014

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

<http://www.pmacorp.net>



BARGE "HFL 222 SS"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	126,742	0	118,684	0	110,626	0	102,567	0	93,407	0	84,021	0	74,638	0	65,253
1/4		1/4		1/4	126,575	1/4	118,516	1/4	110,458	1/4	102,400	1/4	93,212	1/4	83,826	1/4	74,442	1/4	65,058
1/2		1/2		1/2	126,407	1/2	118,348	1/2	110,290	1/2	102,232	1/2	93,016	1/2	83,630	1/2	74,247	1/2	64,863
3/4		3/4		3/4	126,239	3/4	118,180	3/4	110,122	3/4	102,064	3/4	92,820	3/4	83,435	3/4	74,051	3/4	64,667
1		1		1	126,071	1	118,013	1	109,954	1	101,896	1	92,625	1	83,239	1	73,856	1	64,472
1/4		1/4		1/4	125,903	1/4	117,845	1/4	109,786	1/4	101,728	1/4	92,429	1/4	83,044	1/4	73,660	1/4	64,277
1/2		1/2		1/2	125,735	1/2	117,677	1/2	109,619	1/2	101,560	1/2	92,234	1/2	82,849	1/2	73,465	1/2	64,082
3/4		3/4		3/4	125,567	3/4	117,509	3/4	109,451	3/4	101,392	3/4	92,038	3/4	82,653	3/4	73,269	3/4	63,886
2		2		2	125,399	2	117,341	2	109,283	2	101,224	2	91,843	2	82,468	2	73,073	2	63,691
1/4		1/4		1/4	125,232	1/4	117,173	1/4	109,115	1/4	101,035	1/4	91,647	1/4	82,262	1/4	72,878	1/4	63,496
1/2		1/2		1/2	125,064	1/2	117,005	1/2	108,947	1/2	100,846	1/2	91,461	1/2	82,067	1/2	72,682	1/2	63,301
3/4		3/4		3/4	124,896	3/4	116,837	3/4	108,779	3/4	100,657	3/4	91,256	3/4	81,872	3/4	72,487	3/4	63,105
3		3		3	124,728	3	116,670	3	108,611	3	100,468	3	91,060	3	81,676	3	72,291	3	62,910
1/4		1/4		1/4	124,560	1/4	116,502	1/4	108,443	1/4	100,272	1/4	90,865	1/4	81,481	1/4	72,096	1/4	62,715
1/2		1/2		1/2	124,392	1/2	116,334	1/2	108,275	1/2	100,076	1/2	90,669	1/2	81,285	1/2	71,900	1/2	62,520
3/4		3/4		3/4	124,224	3/4	116,166	3/4	108,108	3/4	99,880	3/4	90,474	3/4	81,090	3/4	71,704	3/4	62,325
4		4		4	124,056	4	115,998	4	107,940	4	99,684	4	90,278	4	80,895	4	71,509	4	62,129
1/4		1/4		1/4	123,888	1/4	115,830	1/4	107,772	1/4	99,487	1/4	90,083	1/4	80,699	1/4	71,313	1/4	61,934
1/2		1/2		1/2	131,002	1/2	123,721	1/2	115,662	1/2	107,604	1/2	99,291	1/2	89,887	1/2	80,504	1/2	71,118
3/4		3/4		3/4	130,996	3/4	123,553	3/4	115,494	3/4	107,436	3/4	99,095	3/4	89,692	3/4	80,309	3/4	70,922
5		5		5	130,990	5	123,385	5	115,326	5	107,268	5	98,899	5	89,496	5	80,113	5	70,727
1/4		1/4		1/4	130,917	1/4	123,217	1/4	115,159	1/4	107,100	1/4	98,703	1/4	89,301	1/4	79,918	1/4	70,531
1/2		1/2		1/2	130,844	1/2	123,049	1/2	114,991	1/2	106,932	1/2	98,507	1/2	89,105	1/2	79,722	1/2	70,335
3/4		3/4		3/4	130,771	3/4	122,881	3/4	114,823	3/4	106,765	3/4	98,311	3/4	88,909	3/4	79,527	3/4	70,140
6		6		6	130,698	6	122,713	6	114,655	6	106,597	6	98,115	6	88,714	6	79,332	6	69,944
1/4		1/4		1/4	130,549	1/4	122,545	1/4	114,487	1/4	106,429	1/4	97,918	1/4	88,518	1/4	79,136	1/4	69,749
1/2		1/2		1/2	130,399	1/2	122,378	1/2	114,319	1/2	106,261	1/2	97,722	1/2	88,323	1/2	78,941	1/2	69,553
3/4		3/4		3/4	130,250	3/4	122,210	3/4	114,151	3/4	106,093	3/4	97,526	3/4	88,127	3/4	78,745	3/4	69,358
7		7		7	130,100	7	122,042	7	113,983	7	105,925	7	97,330	7	87,932	7	78,549	7	69,162
1/4		1/4		1/4	129,932	1/4	121,874	1/4	113,816	1/4	105,757	1/4	97,134	1/4	87,736	1/4	78,354	1/4	68,967
1/2		1/2		1/2	129,764	1/2	121,706	1/2	113,648	1/2	105,589	1/2	96,938	1/2	87,541	1/2	78,158	1/2	68,771
3/4		3/4		3/4	129,596	3/4	121,538	3/4	113,480	3/4	105,421	3/4	96,742	3/4	87,345	3/4	77,963	3/4	68,575
8		8		8	129,429	8	121,370	8	113,312	8	105,254	8	96,546	8	87,150	8	77,767	8	68,380
1/4		1/4		1/4	129,261	1/4	121,202	1/4	113,144	1/4	105,086	1/4	96,349	1/4	86,954	1/4	77,572	1/4	68,184
1/2		1/2		1/2	129,093	1/2	121,034	1/2	112,976	1/2	104,918	1/2	96,153	1/2	86,759	1/2	77,376	1/2	67,989
3/4		3/4		3/4	128,925	3/4	120,867	3/4	112,808	3/4	104,750	3/4	95,957	3/4	86,563	3/4	77,180	3/4	67,793
9		9		9	128,757	9	120,699	9	112,640	9	104,582	9	95,761	9	86,367	9	76,985	9	67,598
1/4		1/4		1/4	128,589	1/4	120,531	1/4	112,472	1/4	104,414	1/4	95,565	1/4	86,172	1/4	76,789	1/4	67,402
1/2		1/2		1/2	128,421	1/2	120,363	1/2	112,305	1/2	104,246	1/2	95,369	1/2	85,976	1/2	76,594	1/2	67,206
3/4		3/4		3/4	128,253	3/4	120,195	3/4	112,137	3/4	104,078	3/4	95,173	3/4	85,781	3/4	76,398	3/4	67,011
10		10		10	128,085	10	120,027	10	111,969	10	103,911	10	94,976	10	85,585	10	76,203	10	66,815
1/4		1/4		1/4	127,918	1/4	119,859	1/4	111,801	1/4	103,743	1/4	94,780	1/4	85,390	1/4	76,007	1/4	66,620
1/2		1/2		1/2	127,750	1/2	119,691	1/2	111,633	1/2	103,575	1/2	94,584	1/2	85,194	1/2	75,811	1/2	66,425
3/4		3/4		3/4	127,582	3/4	119,524	3/4	111,465	3/4	103,407	3/4	94,388	3/4	84,999	3/4	75,616	3/4	66,229
11		11		11	127,414	11	119,356	11	111,297	11	103,239	11	94,192	11	84,803	11	75,420	11	66,034
1/4		1/4		1/4	127,246	1/4	119,188	1/4	111,129	1/4	103,071	1/4	93,996	1/4	84,608	1/4	75,225	1/4	65,839
1/2		1/2		1/2	127,078	1/2	119,020	1/2	110,962	1/2	102,903	1/2	93,800	1/2	84,412	1/2	75,029	1/2	65,644
3/4		3/4		3/4	126,910	3/4	118,852	3/4	110,794	3/4	102,735	3/4	93,604	3/4	84,217	3/4	74,834	3/4	65,448

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 17'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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P. J. G. Mac



BARGE "HFL 222 SS"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	55,878	0	46,496	0	37,113	0	27,731	0	18,390	0	9,217	0	277	0		0		0	
1/4	55,683	1/4	46,300	1/4	36,918	1/4	27,535	1/4	18,201	1/4	9,021	1/4	228	1/4		1/4		1/4	
1/2	55,487	1/2	46,105	1/2	36,722	1/2	27,340	1/2	18,012	1/2	8,825	1/2	179	1/2		1/2		1/2	
3/4	55,292	3/4	45,909	3/4	36,527	3/4	27,144	3/4	17,824	3/4	8,629	3/4	130	3/4		3/4		3/4	
1	55,096	1	45,714	1	36,331	1	26,949	1	17,635	1	8,433	1	81	1		1		1	
1/4	54,901	1/4	45,518	1/4	36,136	1/4	26,753	1/4	17,446	1/4	8,237	1/4		1/4		1/4		1/4	
1/2	54,705	1/2	45,323	1/2	35,940	1/2	26,558	1/2	17,257	1/2	8,040	1/2		1/2		1/2		1/2	
3/4	54,510	3/4	45,127	3/4	35,745	3/4	26,362	3/4	17,069	3/4	7,844	3/4		3/4		3/4		3/4	
2	54,314	2	44,932	2	35,549	2	26,167	2	16,880	2	7,648	2		2		2		2	
1/4	54,119	1/4	44,736	1/4	35,354	1/4	25,971	1/4	16,691	1/4	7,452	1/4		1/4		1/4		1/4	
1/2	53,923	1/2	44,541	1/2	35,158	1/2	25,776	1/2	16,503	1/2	7,256	1/2		1/2		1/2		1/2	
3/4	53,728	3/4	44,346	3/4	34,963	3/4	25,580	3/4	16,314	3/4	7,060	3/4		3/4		3/4		3/4	
3	53,533	3	44,150	3	34,767	3	25,385	3	16,125	3	6,864	3		3		3		3	
1/4	53,337	1/4	43,954	1/4	34,572	1/4	25,189	1/4	15,937	1/4	6,669	1/4		1/4		1/4		1/4	
1/2	53,142	1/2	43,759	1/2	34,376	1/2	24,994	1/2	15,748	1/2	6,474	1/2		1/2		1/2		1/2	
3/4	52,946	3/4	43,564	3/4	34,181	3/4	24,799	3/4	15,559	3/4	6,279	3/4		3/4		3/4		3/4	
4	52,751	4	43,368	4	33,985	4	24,603	4	15,370	4	6,084	4		4		4		4	
1/4	52,555	1/4	43,173	1/4	33,790	1/4	24,408	1/4	15,182	1/4	5,889	1/4		1/4		1/4		1/4	
1/2	52,360	1/2	42,977	1/2	33,595	1/2	24,212	1/2	14,993	1/2	5,694	1/2		1/2		1/2		1/2	
3/4	52,164	3/4	42,782	3/4	33,399	3/4	24,017	3/4	14,804	3/4	5,500	3/4		3/4		3/4		3/4	
5	51,969	5	42,586	5	33,204	5	23,821	5	14,616	5	5,305	5		5		5		5	
1/4	51,773	1/4	42,391	1/4	33,008	1/4	23,626	1/4	14,427	1/4	5,110	1/4		1/4		1/4		1/4	
1/2	51,578	1/2	42,195	1/2	32,813	1/2	23,430	1/2	14,238	1/2	4,914	1/2		1/2		1/2		1/2	
3/4	51,382	3/4	42,000	3/4	32,617	3/4	23,235	3/4	14,050	3/4	4,718	3/4		3/4		3/4		3/4	
6	51,187	6	41,804	6	32,422	6	23,039	6	13,861	6	4,523	6		6		6		6	
1/4	50,991	1/4	41,609	1/4	32,226	1/4	22,844	1/4	13,672	1/4	4,327	1/4		1/4		1/4		1/4	
1/2	50,796	1/2	41,413	1/2	32,031	1/2	22,648	1/2	13,484	1/2	4,132	1/2		1/2		1/2		1/2	
3/4	50,600	3/4	41,218	3/4	31,835	3/4	22,453	3/4	13,295	3/4	3,936	3/4		3/4		3/4		3/4	
7	50,405	7	41,022	7	31,640	7	22,257	7	13,106	7	3,740	7		7		7		7	
1/4	50,210	1/4	40,827	1/4	31,444	1/4	22,062	1/4	12,917	1/4	3,545	1/4		1/4		1/4		1/4	
1/2	50,014	1/2	40,631	1/2	31,249	1/2	21,867	1/2	12,727	1/2	3,350	1/2		1/2		1/2		1/2	
3/4	49,819	3/4	40,436	3/4	31,053	3/4	21,671	3/4	12,538	3/4	3,155	3/4		3/4		3/4		3/4	
8	49,623	8	40,241	8	30,858	8	21,476	8	12,348	8	2,960	8		8		8		8	
1/4	49,428	1/4	40,045	1/4	30,662	1/4	21,280	1/4	12,154	1/4	2,766	1/4		1/4		1/4		1/4	
1/2	49,232	1/2	39,850	1/2	30,467	1/2	21,085	1/2	11,959	1/2	2,572	1/2		1/2		1/2		1/2	
3/4	49,037	3/4	39,654	3/4	30,272	3/4	20,889	3/4	11,765	3/4	2,379	3/4		3/4		3/4		3/4	
9	48,841	9	39,459	9	30,076	9	20,694	9	11,570	9	2,185	9		9		9		9	
1/4	48,646	1/4	39,263	1/4	29,881	1/4	20,498	1/4	11,374	1/4	1,992	1/4		1/4		1/4		1/4	
1/2	48,450	1/2	39,068	1/2	29,685	1/2	20,302	1/2	11,178	1/2	1,800	1/2		1/2		1/2		1/2	
3/4	48,255	3/4	38,872	3/4	29,490	3/4	20,106	3/4	10,982	3/4	1,608	3/4		3/4		3/4		3/4	
10	48,059	10	38,677	10	29,294	10	19,910	10	10,786	10	1,415	10		10		10		10	
1/4	47,864	1/4	38,481	1/4	29,099	1/4	19,719	1/4	10,590	1/4	1,245	1/4		1/4		1/4		1/4	
1/2	47,668	1/2	38,286	1/2	28,903	1/2	19,528	1/2	10,394	1/2	1,075	1/2		1/2		1/2		1/2	
3/4	47,473	3/4	38,090	3/4	28,708	3/4	19,337	3/4	10,198	3/4	905	3/4		3/4		3/4		3/4	
11	47,277	11	37,895	11	28,512	11	19,146	11	10,002	11	734	11		11		11		11	
1/4	47,082	1/4	37,699	1/4	28,317	1/4	18,957	1/4	9,805	1/4	620	1/4		1/4		1/4		1/4	
1/2	46,887	1/2	37,504	1/2	28,121	1/2	18,768	1/2	9,609	1/2	506	1/2		1/2		1/2		1/2	
3/4	46,691	3/4	37,308	3/4	27,926	3/4	18,579	3/4	9,413	3/4	391	3/4		3/4		3/4		3/4	

STRAPPED: 08/16/2014 SW
CALCULATED: 08/16/2014 CL
PRINTED: 08/16/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HFL 222 SS"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	168,817	0	156,719	0	144,621	0	132,523	0	120,426	0	108,328	0	96,230	0	84,132
1/4		1/4		1/4	168,565	1/4	156,467	1/4	144,369	1/4	132,271	1/4	120,173	1/4	108,076	1/4	95,978	1/4	83,880
1/2		1/2		1/2	168,313	1/2	156,215	1/2	144,117	1/2	132,019	1/2	119,921	1/2	107,824	1/2	95,726	1/2	83,628
3/4		3/4		3/4	168,061	3/4	155,963	3/4	143,865	3/4	131,767	3/4	119,669	3/4	107,572	3/4	95,474	3/4	83,376
1		1		1	167,809	1	155,711	1	143,613	1	131,515	1	119,417	1	107,320	1	95,222	1	83,124
1/4		1/4		1/4	167,557	1/4	155,459	1/4	143,361	1/4	131,263	1/4	119,165	1/4	107,067	1/4	94,970	1/4	82,872
1/2		1/2		1/2	167,305	1/2	155,207	1/2	143,109	1/2	131,011	1/2	118,913	1/2	106,815	1/2	94,718	1/2	82,620
3/4		3/4		3/4	167,053	3/4	154,955	3/4	142,857	3/4	130,759	3/4	118,661	3/4	106,563	3/4	94,466	3/4	82,368
2		2		2	166,800	2	154,703	2	142,606	2	130,507	2	118,409	2	106,311	2	94,214	2	82,116
1/4		1/4		1/4	166,548	1/4	154,451	1/4	142,353	1/4	130,255	1/4	118,157	1/4	106,059	1/4	93,962	1/4	81,864
1/2		1/2		1/2	166,296	1/2	154,199	1/2	142,101	1/2	130,003	1/2	117,905	1/2	105,807	1/2	93,709	1/2	81,612
3/4		3/4		3/4	166,044	3/4	153,947	3/4	141,849	3/4	129,751	3/4	117,653	3/4	105,555	3/4	93,457	3/4	81,360
3		3		3	165,792	3	153,695	3	141,597	3	129,499	3	117,401	3	105,303	3	93,205	3	81,108
1/4		1/4		1/4	165,540	1/4	153,442	1/4	141,345	1/4	129,247	1/4	117,149	1/4	105,051	1/4	92,953	1/4	80,856
1/2		1/2		1/2	165,288	1/2	153,190	1/2	141,093	1/2	128,995	1/2	116,897	1/2	104,799	1/2	92,701	1/2	80,604
3/4		3/4		3/4	165,036	3/4	152,938	3/4	140,841	3/4	128,743	3/4	116,645	3/4	104,547	3/4	92,449	3/4	80,351
4		4		4	164,784	4	152,686	4	140,589	4	128,491	4	116,393	4	104,295	4	92,197	4	80,099
1/4		1/4		1/4	164,532	1/4	152,434	1/4	140,336	1/4	128,239	1/4	116,141	1/4	104,043	1/4	91,945	1/4	79,847
1/2		1/2		1/2	175,362	1/2	164,280	1/2	152,182	1/2	127,987	1/2	115,889	1/2	103,791	1/2	91,693	1/2	79,595
3/4		3/4		3/4	175,327	3/4	164,028	3/4	151,930	3/4	127,735	3/4	115,637	3/4	103,539	3/4	91,441	3/4	79,343
5		5		5	175,291	5	163,776	5	151,678	5	127,483	5	115,385	5	103,287	5	91,189	5	79,091
1/4		1/4		1/4	175,161	1/4	163,624	1/4	151,426	1/4	127,231	1/4	115,133	1/4	103,035	1/4	90,937	1/4	78,839
1/2		1/2		1/2	175,031	1/2	163,272	1/2	151,174	1/2	126,978	1/2	114,881	1/2	102,783	1/2	90,685	1/2	78,587
3/4		3/4		3/4	174,901	3/4	163,020	3/4	150,922	3/4	126,726	3/4	114,629	3/4	102,531	3/4	90,433	3/4	78,335
6		6		6	174,771	6	162,768	6	150,670	6	126,474	6	114,377	6	102,279	6	90,181	6	78,083
1/4		1/4		1/4	174,543	1/4	162,516	1/4	150,418	1/4	126,222	1/4	114,125	1/4	102,027	1/4	89,929	1/4	77,831
1/2		1/2		1/2	174,314	1/2	162,264	1/2	150,166	1/2	125,970	1/2	113,873	1/2	101,775	1/2	89,677	1/2	77,579
3/4		3/4		3/4	174,086	3/4	162,012	3/4	149,914	3/4	125,718	3/4	113,620	3/4	101,523	3/4	89,425	3/4	77,327
7		7		7	173,858	7	161,760	7	149,662	7	125,466	7	113,368	7	101,271	7	89,173	7	77,075
1/4		1/4		1/4	173,606	1/4	161,508	1/4	149,410	1/4	125,214	1/4	113,116	1/4	101,019	1/4	88,921	1/4	76,823
1/2		1/2		1/2	173,353	1/2	161,256	1/2	149,158	1/2	124,962	1/2	112,864	1/2	100,767	1/2	88,669	1/2	76,571
3/4		3/4		3/4	173,101	3/4	161,004	3/4	148,906	3/4	124,710	3/4	112,612	3/4	100,515	3/4	88,417	3/4	76,319
8		8		8	172,849	8	160,752	8	148,654	8	124,458	8	112,360	8	100,262	8	88,165	8	76,067
1/4		1/4		1/4	172,597	1/4	160,500	1/4	148,402	1/4	124,206	1/4	112,108	1/4	100,010	1/4	87,913	1/4	75,815
1/2		1/2		1/2	172,345	1/2	160,247	1/2	148,150	1/2	123,954	1/2	111,856	1/2	99,758	1/2	87,661	1/2	75,563
3/4		3/4		3/4	172,093	3/4	159,995	3/4	147,898	3/4	123,702	3/4	111,604	3/4	99,506	3/4	87,409	3/4	75,311
9		9		9	171,841	9	159,743	9	147,646	9	123,450	9	111,352	9	99,254	9	87,157	9	75,059
1/4		1/4		1/4	171,589	1/4	159,491	1/4	147,394	1/4	123,198	1/4	111,100	1/4	99,002	1/4	86,904	1/4	74,807
1/2		1/2		1/2	171,337	1/2	159,239	1/2	147,142	1/2	122,946	1/2	110,848	1/2	98,750	1/2	86,652	1/2	74,555
3/4		3/4		3/4	171,085	3/4	158,987	3/4	146,889	3/4	122,694	3/4	110,596	3/4	98,498	3/4	86,400	3/4	74,303
10		10		10	170,833	10	158,735	10	146,637	10	122,442	10	110,344	10	98,246	10	86,148	10	74,051
1/4		1/4		1/4	170,581	1/4	158,483	1/4	146,385	1/4	122,190	1/4	110,092	1/4	97,994	1/4	85,896	1/4	73,798
1/2		1/2		1/2	170,329	1/2	158,231	1/2	146,133	1/2	121,938	1/2	109,840	1/2	97,742	1/2	85,644	1/2	73,546
3/4		3/4		3/4	170,077	3/4	157,979	3/4	145,881	3/4	121,686	3/4	109,588	3/4	97,490	3/4	85,392	3/4	73,294
11		11		11	169,825	11	157,727	11	145,629	11	121,434	11	109,336	11	97,238	11	85,140	11	73,042
1/4		1/4		1/4	169,573	1/4	157,475	1/4	145,377	1/4	121,182	1/4	109,084	1/4	96,986	1/4	84,888	1/4	72,790
1/2		1/2		1/2	169,321	1/2	157,223	1/2	145,125	1/2	120,930	1/2	108,832	1/2	96,734	1/2	84,636	1/2	72,538
3/4		3/4		3/4	169,069	3/4	156,971	3/4	144,873	3/4	120,678	3/4	108,580	3/4	96,482	3/4	84,384	3/4	72,286

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HFL 222 SS"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	72,034	0	59,936	0	47,839	0	35,741	0	23,695	0	11,846	0	342	0		0		0	
1/4	71,782	1/4	59,684	1/4	47,587	1/4	35,489	1/4	23,460	1/4	11,594	1/4	279	1/4	1/4	1/4		1/4	
1/2	71,530	1/2	59,432	1/2	47,335	1/2	35,237	1/2	23,206	1/2	11,342	1/2	216	1/2	1/2	1/2		1/2	
3/4	71,278	3/4	59,180	3/4	47,082	3/4	34,985	3/4	22,961	3/4	11,090	3/4	153	3/4	3/4	3/4		3/4	
1	71,026	1	58,928	1	46,830	1	34,733	1	22,717	1	10,838	1	90	1	1	1		1	
1/4	70,774	1/4	58,676	1/4	46,578	1/4	34,481	1/4	22,473	1/4	10,586	1/4		1/4	1/4	1/4		1/4	
1/2	70,522	1/2	58,424	1/2	46,326	1/2	34,229	1/2	22,228	1/2	10,334	1/2		1/2	1/2	1/2		1/2	
3/4	70,270	3/4	58,172	3/4	46,074	3/4	33,977	3/4	21,984	3/4	10,082	3/4		3/4	3/4	3/4		3/4	
2	70,018	2	57,920	2	45,822	2	33,724	2	21,739	2	9,830	2		2	2	2		2	
1/4	69,766	1/4	57,668	1/4	45,570	1/4	33,472	1/4	21,495	1/4	9,578	1/4		1/4	1/4	1/4		1/4	
1/2	69,514	1/2	57,416	1/2	45,318	1/2	33,220	1/2	21,250	1/2	9,326	1/2		1/2	1/2	1/2		1/2	
3/4	69,262	3/4	57,164	3/4	45,066	3/4	32,968	3/4	21,006	3/4	9,074	3/4		3/4	3/4	3/4		3/4	
3	69,010	3	56,912	3	44,814	3	32,716	3	20,761	3	8,822	3		3	3	3		3	
1/4	68,758	1/4	56,660	1/4	44,562	1/4	32,464	1/4	20,517	1/4	8,570	1/4		1/4	1/4	1/4		1/4	
1/2	68,506	1/2	56,408	1/2	44,310	1/2	32,212	1/2	20,272	1/2	8,318	1/2		1/2	1/2	1/2		1/2	
3/4	68,254	3/4	56,156	3/4	44,058	3/4	31,960	3/4	20,028	3/4	8,066	3/4		3/4	3/4	3/4		3/4	
4	68,002	4	55,904	4	43,806	4	31,708	4	19,784	4	7,814	4		4	4	4		4	
1/4	67,750	1/4	55,652	1/4	43,554	1/4	31,456	1/4	19,539	1/4	7,562	1/4		1/4	1/4	1/4		1/4	
1/2	67,498	1/2	55,400	1/2	43,302	1/2	31,204	1/2	19,295	1/2	7,310	1/2		1/2	1/2	1/2		1/2	
3/4	67,246	3/4	55,148	3/4	43,050	3/4	30,952	3/4	19,050	3/4	7,058	3/4		3/4	3/4	3/4		3/4	
5	66,993	5	54,896	5	42,798	5	30,700	5	18,806	5	6,806	5		5	5	5		5	
1/4	66,741	1/4	54,644	1/4	42,546	1/4	30,448	1/4	18,561	1/4	6,554	1/4		1/4	1/4	1/4		1/4	
1/2	66,489	1/2	54,392	1/2	42,294	1/2	30,196	1/2	18,317	1/2	6,302	1/2		1/2	1/2	1/2		1/2	
3/4	66,237	3/4	54,140	3/4	42,042	3/4	29,944	3/4	18,072	3/4	6,050	3/4		3/4	3/4	3/4		3/4	
6	65,985	6	53,887	6	41,790	6	29,692	6	17,828	6	5,798	6		6	6	6		6	
1/4	65,733	1/4	53,635	1/4	41,538	1/4	29,440	1/4	17,583	1/4	5,547	1/4		1/4	1/4	1/4		1/4	
1/2	65,481	1/2	53,383	1/2	41,286	1/2	29,188	1/2	17,339	1/2	5,296	1/2		1/2	1/2	1/2		1/2	
3/4	65,229	3/4	53,131	3/4	41,034	3/4	28,936	3/4	17,095	3/4	5,044	3/4		3/4	3/4	3/4		3/4	
7	64,977	7	52,879	7	40,782	7	28,684	7	16,850	7	4,793	7		7	7	7		7	
1/4	64,725	1/4	52,627	1/4	40,529	1/4	28,432	1/4	16,605	1/4	4,542	1/4		1/4	1/4	1/4		1/4	
1/2	64,473	1/2	52,375	1/2	40,277	1/2	28,180	1/2	16,361	1/2	4,292	1/2		1/2	1/2	1/2		1/2	
3/4	64,221	3/4	52,123	3/4	40,025	3/4	27,928	3/4	16,116	3/4	4,041	3/4		3/4	3/4	3/4		3/4	
8	63,969	8	51,871	8	39,773	8	27,676	8	15,871	8	3,791	8		8	8	8		8	
1/4	63,717	1/4	51,619	1/4	39,521	1/4	27,424	1/4	15,621	1/4	3,541	1/4		1/4	1/4	1/4		1/4	
1/2	63,465	1/2	51,367	1/2	39,269	1/2	27,171	1/2	15,371	1/2	3,292	1/2		1/2	1/2	1/2		1/2	
3/4	63,213	3/4	51,115	3/4	39,017	3/4	26,919	3/4	15,121	3/4	3,043	3/4		3/4	3/4	3/4		3/4	
9	62,961	9	50,863	9	38,765	9	26,667	9	14,871	9	2,793	9		9	9	9		9	
1/4	62,709	1/4	50,611	1/4	38,513	1/4	26,415	1/4	14,619	1/4	2,546	1/4		1/4	1/4	1/4		1/4	
1/2	62,457	1/2	50,359	1/2	38,261	1/2	26,163	1/2	14,367	1/2	2,299	1/2		1/2	1/2	1/2		1/2	
3/4	62,205	3/4	50,107	3/4	38,009	3/4	25,911	3/4	14,115	3/4	2,052	3/4		3/4	3/4	3/4		3/4	
10	61,953	10	49,855	10	37,757	10	25,659	10	13,862	10	1,805	10		10	10	10		10	
1/4	61,701	1/4	49,603	1/4	37,505	1/4	25,413	1/4	13,610	1/4	1,586	1/4		1/4	1/4	1/4		1/4	
1/2	61,449	1/2	49,351	1/2	37,253	1/2	25,166	1/2	13,368	1/2	1,367	1/2		1/2	1/2	1/2		1/2	
3/4	61,197	3/4	49,099	3/4	37,001	3/4	24,920	3/4	13,106	3/4	1,149	3/4		3/4	3/4	3/4		3/4	
11	60,945	11	48,847	11	36,749	11	24,673	11	12,854	11	930	11		11	11	11		11	
1/4	60,693	1/4	48,595	1/4	36,497	1/4	24,428	1/4	12,602	1/4	783	1/4		1/4	1/4	1/4		1/4	
1/2	60,440	1/2	48,343	1/2	36,245	1/2	24,184	1/2	12,350	1/2	636	1/2		1/2	1/2	1/2		1/2	
3/4	60,188	3/4	48,091	3/4	35,993	3/4	23,939	3/4	12,098	3/4	489	3/4		3/4	3/4	3/4		3/4	

STRAPPED: 08/16/2014 SW
CALCULATED: 08/16/2014 CL
PRINTED: 08/16/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
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BARGE "HFL 222 SS"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	150,939	0	140,140	0	129,342	0	118,543	0	107,745	0	96,946	0	86,148	0	75,349
1/4		1/4		1/4	150,714	1/4	139,915	1/4	129,117	1/4	118,318	1/4	107,520	1/4	96,721	1/4	85,923	1/4	75,124
1/2		1/2		1/2	150,489	1/2	139,690	1/2	128,892	1/2	118,093	1/2	107,295	1/2	96,496	1/2	85,698	1/2	74,900
3/4		3/4		3/4	150,264	3/4	139,465	3/4	128,667	3/4	117,868	3/4	107,070	3/4	96,271	3/4	85,473	3/4	74,675
1		1		1	150,039	1	139,240	1	128,442	1	117,643	1	106,845	1	96,046	1	85,248	1	74,450
1/4		1/4		1/4	149,814	1/4	139,015	1/4	128,217	1/4	117,418	1/4	106,620	1/4	95,821	1/4	85,023	1/4	74,225
1/2		1/2		1/2	149,589	1/2	138,790	1/2	127,992	1/2	117,193	1/2	106,395	1/2	95,597	1/2	84,798	1/2	74,000
3/4		3/4		3/4	149,364	3/4	138,565	3/4	127,767	3/4	116,968	3/4	106,170	3/4	95,372	3/4	84,573	3/4	73,775
2		2		2	149,139	2	138,340	2	127,542	2	116,743	2	105,945	2	95,147	2	84,348	2	73,550
1/4		1/4		1/4	148,914	1/4	138,115	1/4	127,317	1/4	116,519	1/4	105,720	1/4	94,922	1/4	84,123	1/4	73,325
1/2		1/2		1/2	148,689	1/2	137,890	1/2	127,092	1/2	116,294	1/2	105,495	1/2	94,697	1/2	83,898	1/2	73,100
3/4		3/4		3/4	148,464	3/4	137,665	3/4	126,867	3/4	116,069	3/4	105,270	3/4	94,472	3/4	83,673	3/4	72,875
3		3		3	148,239	3	137,440	3	126,642	3	115,844	3	105,045	3	94,247	3	83,448	3	72,650
1/4		1/4		1/4	148,014	1/4	137,216	1/4	126,417	1/4	115,619	1/4	104,820	1/4	94,022	1/4	83,223	1/4	72,425
1/2		1/2		1/2	147,789	1/2	136,991	1/2	126,192	1/2	115,394	1/2	104,595	1/2	93,797	1/2	82,998	1/2	72,200
3/4		3/4		3/4	147,564	3/4	136,766	3/4	125,967	3/4	115,169	3/4	104,370	3/4	93,572	3/4	82,773	3/4	71,975
4		4		4	147,339	4	136,541	4	125,742	4	114,944	4	104,145	4	93,347	4	82,548	4	71,750
1/4		1/4		1/4	147,114	1/4	136,316	1/4	125,517	1/4	114,719	1/4	103,920	1/4	93,122	1/4	82,323	1/4	71,525
1/2		1/2	156,781	1/2	146,889	1/2	136,091	1/2	125,292	1/2	114,494	1/2	103,695	1/2	92,897	1/2	82,098	1/2	71,300
3/4		3/4	156,749	3/4	146,664	3/4	135,866	3/4	125,067	3/4	114,269	3/4	103,470	3/4	92,672	3/4	81,874	3/4	71,075
5		5	156,717	5	146,439	5	135,641	5	124,842	5	114,044	5	103,245	5	92,447	5	81,649	5	70,850
1/4		1/4	156,601	1/4	146,214	1/4	135,416	1/4	124,617	1/4	113,819	1/4	103,020	1/4	92,222	1/4	81,424	1/4	70,625
1/2		1/2	156,485	1/2	145,989	1/2	135,191	1/2	124,392	1/2	113,594	1/2	102,795	1/2	91,997	1/2	81,199	1/2	70,400
3/4		3/4	156,369	3/4	145,764	3/4	134,966	3/4	124,167	3/4	113,369	3/4	102,571	3/4	91,772	3/4	80,974	3/4	70,175
6		6	156,253	6	145,539	6	134,741	6	123,942	6	113,144	6	102,346	6	91,547	6	80,749	6	69,950
1/4		1/4	156,050	1/4	145,314	1/4	134,516	1/4	123,717	1/4	112,919	1/4	102,121	1/4	91,322	1/4	80,524	1/4	69,725
1/2		1/2	155,846	1/2	145,089	1/2	134,291	1/2	123,493	1/2	112,694	1/2	101,896	1/2	91,097	1/2	80,299	1/2	69,500
3/4		3/4	155,642	3/4	144,864	3/4	134,066	3/4	123,268	3/4	112,469	3/4	101,671	3/4	90,872	3/4	80,074	3/4	69,275
7		7	155,438	7	144,639	7	133,841	7	123,043	7	112,244	7	101,446	7	90,647	7	79,849	7	69,050
1/4		1/4	155,213	1/4	144,414	1/4	133,616	1/4	122,818	1/4	112,019	1/4	101,221	1/4	90,422	1/4	79,624	1/4	68,825
1/2		1/2	154,988	1/2	144,190	1/2	133,391	1/2	122,593	1/2	111,794	1/2	100,996	1/2	90,197	1/2	79,399	1/2	68,600
3/4		3/4	154,763	3/4	143,965	3/4	133,166	3/4	122,368	3/4	111,569	3/4	100,771	3/4	89,972	3/4	79,174	3/4	68,375
8		8	154,538	8	143,740	8	132,941	8	122,143	8	111,344	8	100,546	8	89,747	8	78,949	8	68,150
1/4		1/4	154,313	1/4	143,515	1/4	132,716	1/4	121,918	1/4	111,119	1/4	100,321	1/4	89,522	1/4	78,724	1/4	67,926
1/2		1/2	154,088	1/2	143,290	1/2	132,491	1/2	121,693	1/2	110,894	1/2	100,096	1/2	89,297	1/2	78,499	1/2	67,701
3/4		3/4	153,863	3/4	143,065	3/4	132,266	3/4	121,468	3/4	110,669	3/4	99,871	3/4	89,072	3/4	78,274	3/4	67,476
9		9	153,638	9	142,840	9	132,041	9	121,243	9	110,444	9	99,646	9	88,848	9	78,049	9	67,251
1/4		1/4	153,413	1/4	142,615	1/4	131,816	1/4	121,018	1/4	110,219	1/4	99,421	1/4	88,623	1/4	77,824	1/4	67,026
1/2		1/2	153,188	1/2	142,390	1/2	131,591	1/2	120,793	1/2	109,994	1/2	99,196	1/2	88,398	1/2	77,599	1/2	66,801
3/4		3/4	152,963	3/4	142,165	3/4	131,366	3/4	120,568	3/4	109,769	3/4	98,971	3/4	88,173	3/4	77,374	3/4	66,576
10		10	152,738	10	141,940	10	131,141	10	120,343	10	109,545	10	98,746	10	87,948	10	77,149	10	66,351
1/4		1/4	152,513	1/4	141,715	1/4	130,916	1/4	120,118	1/4	109,320	1/4	98,521	1/4	87,723	1/4	76,924	1/4	66,126
1/2		1/2	152,288	1/2	141,490	1/2	130,691	1/2	119,893	1/2	109,095	1/2	98,296	1/2	87,498	1/2	76,699	1/2	65,901
3/4		3/4	152,063	3/4	141,265	3/4	130,466	3/4	119,668	3/4	108,870	3/4	98,071	3/4	87,273	3/4	76,474	3/4	65,676
11		11	151,838	11	141,040	11	130,242	11	119,443	11	108,645	11	97,846	11	87,048	11	76,249	11	65,451
1/4		1/4	151,613	1/4	140,815	1/4	130,017	1/4	119,218	1/4	108,420	1/4	97,621	1/4	86,823	1/4	76,024	1/4	65,226
1/2		1/2	151,388	1/2	140,590	1/2	129,792	1/2	118,993	1/2	108,195	1/2	97,396	1/2	86,598	1/2	75,799	1/2	65,001
3/4		3/4	151,164	3/4	140,365	3/4	129,567	3/4	118,768	3/4	107,970	3/4	97,171	3/4	86,373	3/4	75,574	3/4	64,776

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77568
<http://www.pmacorp.net>



BARGE "HFL 222 SS"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-1"

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	64,551	0	53,753	0	42,954	0	32,156	0	21,361	0	10,579	0	311	0		0		0	
1/4	64,326	1/4	53,528	1/4	42,729	1/4	31,931	1/4	21,136	1/4	10,354	1/4	254	1/4		1/4		1/4	
1/2	64,101	1/2	53,303	1/2	42,504	1/2	31,706	1/2	20,912	1/2	10,129	1/2	198	1/2		1/2		1/2	
3/4	63,876	3/4	53,078	3/4	42,279	3/4	31,481	3/4	20,687	3/4	9,904	3/4	142	3/4		3/4		3/4	
1	63,651	1	52,853	1	42,054	1	31,256	1	20,463	1	9,679	1	86	1		1		1	
1/4	63,426	1/4	52,628	1/4	41,829	1/4	31,031	1/4	20,238	1/4	9,454	1/4		1/4		1/4		1/4	
1/2	63,201	1/2	52,403	1/2	41,604	1/2	30,806	1/2	20,014	1/2	9,229	1/2		1/2		1/2		1/2	
3/4	62,976	3/4	52,178	3/4	41,379	3/4	30,581	3/4	19,789	3/4	9,004	3/4		3/4		3/4		3/4	
2	62,751	2	51,953	2	41,154	2	30,356	2	19,565	2	8,779	2		2		2		2	
1/4	62,526	1/4	51,728	1/4	40,929	1/4	30,131	1/4	19,341	1/4	8,554	1/4		1/4		1/4		1/4	
1/2	62,301	1/2	51,503	1/2	40,704	1/2	29,906	1/2	19,116	1/2	8,329	1/2		1/2		1/2		1/2	
3/4	62,076	3/4	51,278	3/4	40,479	3/4	29,681	3/4	18,892	3/4	8,104	3/4		3/4		3/4		3/4	
3	61,851	3	51,053	3	40,255	3	29,456	3	18,667	3	7,880	3		3		3		3	
1/4	61,626	1/4	50,828	1/4	40,030	1/4	29,231	1/4	18,443	1/4	7,655	1/4		1/4		1/4		1/4	
1/2	61,401	1/2	50,603	1/2	39,805	1/2	29,006	1/2	18,218	1/2	7,430	1/2		1/2		1/2		1/2	
3/4	61,177	3/4	50,378	3/4	39,580	3/4	28,781	3/4	17,994	3/4	7,205	3/4		3/4		3/4		3/4	
4	60,952	4	50,153	4	39,355	4	28,556	4	17,769	4	6,980	4		4		4		4	
1/4	60,727	1/4	49,928	1/4	39,130	1/4	28,331	1/4	17,545	1/4	6,755	1/4		1/4		1/4		1/4	
1/2	60,502	1/2	49,703	1/2	38,905	1/2	28,106	1/2	17,320	1/2	6,530	1/2		1/2		1/2		1/2	
3/4	60,277	3/4	49,478	3/4	38,680	3/4	27,881	3/4	17,096	3/4	6,305	3/4		3/4		3/4		3/4	
5	60,052	5	49,253	5	38,455	5	27,656	5	16,871	5	6,080	5		5		5		5	
1/4	59,827	1/4	49,028	1/4	38,230	1/4	27,431	1/4	16,647	1/4	5,855	1/4		1/4		1/4		1/4	
1/2	59,602	1/2	48,803	1/2	38,005	1/2	27,206	1/2	16,423	1/2	5,630	1/2		1/2		1/2		1/2	
3/4	59,377	3/4	48,578	3/4	37,780	3/4	26,981	3/4	16,198	3/4	5,405	3/4		3/4		3/4		3/4	
6	59,152	6	48,353	6	37,555	6	26,756	6	15,974	6	5,181	6		6		6		6	
1/4	58,927	1/4	48,128	1/4	37,330	1/4	26,532	1/4	15,749	1/4	4,956	1/4		1/4		1/4		1/4	
1/2	58,702	1/2	47,903	1/2	37,105	1/2	26,307	1/2	15,525	1/2	4,732	1/2		1/2		1/2		1/2	
3/4	58,477	3/4	47,678	3/4	36,880	3/4	26,082	3/4	15,300	3/4	4,508	3/4		3/4		3/4		3/4	
7	58,252	7	47,453	7	36,655	7	25,857	7	15,076	7	4,283	7		7		7		7	
1/4	58,027	1/4	47,229	1/4	36,430	1/4	25,632	1/4	14,851	1/4	4,060	1/4		1/4		1/4		1/4	
1/2	57,802	1/2	47,004	1/2	36,205	1/2	25,407	1/2	14,627	1/2	3,836	1/2		1/2		1/2		1/2	
3/4	57,577	3/4	46,779	3/4	35,980	3/4	25,182	3/4	14,402	3/4	3,612	3/4		3/4		3/4		3/4	
8	57,352	8	46,554	8	35,755	8	24,957	8	14,178	8	3,389	8		8		8		8	
1/4	57,127	1/4	46,329	1/4	35,530	1/4	24,732	1/4	13,953	1/4	3,166	1/4		1/4		1/4		1/4	
1/2	56,902	1/2	46,104	1/2	35,305	1/2	24,507	1/2	13,728	1/2	2,944	1/2		1/2		1/2		1/2	
3/4	56,677	3/4	45,879	3/4	35,080	3/4	24,282	3/4	13,503	3/4	2,721	3/4		3/4		3/4		3/4	
9	56,452	9	45,654	9	34,855	9	24,057	9	13,279	9	2,499	9		9		9		9	
1/4	56,227	1/4	45,429	1/4	34,630	1/4	23,832	1/4	13,054	1/4	2,278	1/4		1/4		1/4		1/4	
1/2	56,002	1/2	45,204	1/2	34,405	1/2	23,607	1/2	12,829	1/2	2,058	1/2		1/2		1/2		1/2	
3/4	55,777	3/4	44,979	3/4	34,180	3/4	23,382	3/4	12,604	3/4	1,837	3/4		3/4		3/4		3/4	
10	55,552	10	44,754	10	33,955	10	23,157	10	12,379	10	1,616	10		10		10		10	
1/4	55,327	1/4	44,529	1/4	33,730	1/4	22,932	1/4	12,154	1/4	1,421	1/4		1/4		1/4		1/4	
1/2	55,102	1/2	44,304	1/2	33,506	1/2	22,708	1/2	11,929	1/2	1,226	1/2		1/2		1/2		1/2	
3/4	54,877	3/4	44,079	3/4	33,281	3/4	22,483	3/4	11,704	3/4	1,030	3/4		3/4		3/4		3/4	
11	54,652	11	43,854	11	33,056	11	22,259	11	11,479	11	835	11		11		11		11	
1/4	54,427	1/4	43,629	1/4	32,831	1/4	22,034	1/4	11,254	1/4	704	1/4		1/4		1/4		1/4	
1/2	54,203	1/2	43,404	1/2	32,606	1/2	21,810	1/2	11,029	1/2	573	1/2		1/2		1/2		1/2	
3/4	53,978	3/4	43,179	3/4	32,381	3/4	21,585	3/4	10,804	3/4	442	3/4		3/4		3/4		3/4	

STRAPPED: 08/16/2014 SW
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PRINTED: 08/16/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2014

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