



BARGE "HFL 222 SS"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-1/2	- 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 INNAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED INNAGE IS 4'-00 1/4"

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 INNAGE 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	81	0	8,433	0	17,635	0	26,949	0	36,331	0	45,714	0	55,096	0	64,472	0	73,856	0	83,239
1/4	130	1/4	8,629	1/4	17,824	1/4	27,144	1/4	36,527	1/4	45,909	1/4	55,292	1/4	64,667	1/4	74,051	1/4	83,435
1/2	179	1/2	8,825	1/2	18,012	1/2	27,340	1/2	36,722	1/2	46,105	1/2	55,487	1/2	64,863	1/2	74,247	1/2	83,630
3/4	228	3/4	9,021	3/4	18,201	3/4	27,535	3/4	36,918	3/4	46,300	3/4	55,683	3/4	65,058	3/4	74,442	3/4	83,826
1	277	1	9,217	1	18,390	1	27,731	1	37,113	1	46,496	1	55,878	1	65,253	1	74,638	1	84,021
1/4	391	1/4	9,413	1/4	18,579	1/4	27,926	1/4	37,308	1/4	46,691	1/4	56,074	1/4	65,448	1/4	74,834	1/4	84,217
1/2	506	1/2	9,609	1/2	18,768	1/2	28,121	1/2	37,504	1/2	46,887	1/2	56,269	1/2	65,644	1/2	75,029	1/2	84,412
3/4	620	3/4	9,805	3/4	18,957	3/4	28,317	3/4	37,699	3/4	47,082	3/4	56,465	3/4	65,839	3/4	75,225	3/4	84,608
2	734	2	10,002	2	19,146	2	28,512	2	37,895	2	47,277	2	56,660	2	66,034	2	75,420	2	84,803
1/4	905	1/4	10,198	1/4	19,337	1/4	28,708	1/4	38,090	1/4	47,473	1/4	56,856	1/4	66,229	1/4	75,616	1/4	84,999
1/2	1,076	1/2	10,394	1/2	19,528	1/2	28,903	1/2	38,286	1/2	47,668	1/2	57,051	1/2	66,425	1/2	75,811	1/2	85,194
3/4	1,245	3/4	10,590	3/4	19,719	3/4	29,099	3/4	38,481	3/4	47,864	3/4	57,247	3/4	66,620	3/4	76,007	3/4	85,390
3	1,415	3	10,786	3	19,910	3	29,294	3	38,677	3	48,059	3	57,442	3	66,815	3	76,203	3	85,585
1/4	1,608	1/4	10,982	1/4	20,106	1/4	29,490	1/4	38,872	1/4	48,255	1/4	57,637	1/4	67,011	1/4	76,398	1/4	85,781
1/2	1,800	1/2	11,178	1/2	20,302	1/2	29,685	1/2	39,068	1/2	48,450	1/2	57,833	1/2	67,206	1/2	76,594	1/2	85,976
3/4	1,992	3/4	11,374	3/4	20,498	3/4	29,881	3/4	39,263	3/4	48,646	3/4	58,028	3/4	67,402	3/4	76,789	3/4	86,172
4	2,185	4	11,570	4	20,694	4	30,076	4	39,459	4	48,841	4	58,224	4	67,598	4	76,985	4	86,367
1/4	2,379	1/4	11,765	1/4	20,889	1/4	30,272	1/4	39,654	1/4	49,037	1/4	58,419	1/4	67,793	1/4	77,180	1/4	86,563
1/2	2,572	1/2	11,959	1/2	21,085	1/2	30,467	1/2	39,850	1/2	49,232	1/2	58,615	1/2	67,989	1/2	77,376	1/2	86,759
3/4	2,766	3/4	12,154	3/4	21,280	3/4	30,662	3/4	40,045	3/4	49,428	3/4	58,810	3/4	68,184	3/4	77,572	3/4	86,954
5	2,960	5	12,348	5	21,476	5	30,858	5	40,241	5	49,623	5	59,006	5	68,380	5	77,767	5	87,150
1/4	3,155	1/4	12,538	1/4	21,671	1/4	31,053	1/4	40,436	1/4	49,819	1/4	59,201	1/4	68,576	1/4	77,963	1/4	87,345
1/2	3,350	1/2	12,727	1/2	21,867	1/2	31,249	1/2	40,631	1/2	50,014	1/2	59,396	1/2	68,771	1/2	78,158	1/2	87,541
3/4	3,545	3/4	12,917	3/4	22,062	3/4	31,444	3/4	40,827	3/4	50,210	3/4	59,591	3/4	68,967	3/4	78,354	3/4	87,736
6	3,740	6	13,106	6	22,257	6	31,640	6	41,022	6	50,405	6	59,786	6	69,162	6	78,549	6	87,932
1/4	3,936	1/4	13,295	1/4	22,453	1/4	31,835	1/4	41,218	1/4	50,600	1/4	59,982	1/4	69,358	1/4	78,745	1/4	88,127
1/2	4,132	1/2	13,484	1/2	22,648	1/2	32,031	1/2	41,413	1/2	50,796	1/2	60,177	1/2	69,553	1/2	78,941	1/2	88,323
3/4	4,327	3/4	13,672	3/4	22,844	3/4	32,226	3/4	41,609	3/4	50,991	3/4	60,372	3/4	69,749	3/4	79,136	3/4	88,518
7	4,523	7	13,861	7	23,039	7	32,422	7	41,804	7	51,187	7	60,567	7	69,944	7	79,332	7	88,714
1/4	4,718	1/4	14,050	1/4	23,235	1/4	32,617	1/4	42,000	1/4	51,382	1/4	60,763	1/4	70,140	1/4	79,527	1/4	88,909
1/2	4,914	1/2	14,238	1/2	23,430	1/2	32,813	1/2	42,195	1/2	51,578	1/2	60,958	1/2	70,335	1/2	79,722	1/2	89,105
3/4	5,110	3/4	14,427	3/4	23,626	3/4	33,008	3/4	42,391	3/4	51,773	3/4	61,153	3/4	70,531	3/4	79,918	3/4	89,301
8	5,306	8	14,616	8	23,821	8	33,204	8	42,586	8	51,969	8	61,348	8	70,727	8	80,113	8	89,496
1/4	5,500	1/4	14,804	1/4	24,017	1/4	33,399	1/4	42,782	1/4	52,164	1/4	61,544	1/4	70,922	1/4	80,309	1/4	89,692
1/2	5,694	1/2	14,993	1/2	24,212	1/2	33,595	1/2	42,977	1/2	52,360	1/2	61,739	1/2	71,118	1/2	80,504	1/2	89,887
3/4	5,889	3/4	15,182	3/4	24,408	3/4	33,790	3/4	43,173	3/4	52,555	3/4	61,934	3/4	71,313	3/4	80,699	3/4	90,083
9	6,084	9	15,370	9	24,603	9	33,985	9	43,368	9	52,751	9	62,129	9	71,509	9	80,895	9	90,278
1/4	6,279	1/4	15,559	1/4	24,799	1/4	34,181	1/4	43,564	1/4	52,946	1/4	62,325	1/4	71,704	1/4	81,090	1/4	90,474
1/2	6,474	1/2	15,748	1/2	24,994	1/2	34,376	1/2	43,759	1/2	53,142	1/2	62,520	1/2	71,900	1/2	81,285	1/2	90,669
3/4	6,669	3/4	15,937	3/4	25,189	3/4	34,572	3/4	43,954	3/4	53,337	3/4	62,715	3/4	72,096	3/4	81,481	3/4	90,865
10	6,864	10	16,125	10	25,385	10	34,767	10	44,150	10	53,533	10	62,910	10	72,291	10	81,676	10	91,060
1/4	7,060	1/4	16,314	1/4	25,580	1/4	34,963	1/4	44,345	1/4	53,728	1/4	63,105	1/4	72,487	1/4	81,872	1/4	91,256
1/2	7,256	1/2	16,503	1/2	25,776	1/2	35,158	1/2	44,541	1/2	53,924	1/2	63,301	1/2	72,682	1/2	82,067	1/2	91,451
3/4	7,452	3/4	16,691	3/4	25,971	3/4	35,354	3/4	44,736	3/4	54,119	3/4	63,496	3/4	72,878	3/4	82,262	3/4	91,647
11	7,648	11	16,880	11	26,167	11	35,549	11	44,932	11	54,314	11	63,691	11	73,073	11	82,458	11	91,843
1/4	7,844	1/4	17,069	1/4	26,362	1/4	35,745	1/4	45,127	1/4	54,510	1/4	63,886	1/4	73,269	1/4	82,653	1/4	92,038
1/2	8,040	1/2	17,258	1/2	26,558	1/2	35,940	1/2	45,323	1/2	54,705	1/2	64,082	1/2	73,465	1/2	82,849	1/2	92,234
3/4	8,237	3/4	17,446	3/4	26,753	3/4	36,136	3/4	45,518	3/4	54,901	3/4	64,277	3/4	73,660	3/4	83,044	3/4	92,429

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 17'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

1 CENTER INNAGE 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	92,626	0	101,896	0	109,964	0	118,013	0	126,071	0		0		0		0		0	
1/4	92,820	1/4	102,064	1/4	110,122	1/4	118,180	1/4	126,239	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	93,016	1/2	102,232	1/2	110,290	1/2	118,348	1/2	126,407	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	93,212	3/4	102,400	3/4	110,458	3/4	118,516	3/4	126,575	3/4		3/4	3/4	3/4		3/4		3/4	
1	93,407	1	102,567	1	110,626	1	118,684	1	126,742	1		1		1		1		1	
1/4	93,604	1/4	102,735	1/4	110,794	1/4	118,852	1/4	126,910	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	93,800	1/2	102,903	1/2	110,962	1/2	119,020	1/2	127,078	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	93,996	3/4	103,071	3/4	111,129	3/4	119,188	3/4	127,246	3/4		3/4	3/4	3/4		3/4		3/4	
2	94,192	2	103,239	2	111,297	2	119,356	2	127,414	2		2		2		2		2	
1/4	94,388	1/4	103,407	1/4	111,465	1/4	119,524	1/4	127,582	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	94,584	1/2	103,575	1/2	111,633	1/2	119,691	1/2	127,750	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	94,780	3/4	103,743	3/4	111,801	3/4	119,859	3/4	127,918	3/4		3/4	3/4	3/4		3/4		3/4	
3	94,976	3	103,911	3	111,969	3	120,027	3	128,086	3		3		3		3		3	
1/4	95,173	1/4	104,078	1/4	112,137	1/4	120,195	1/4	128,253	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	95,369	1/2	104,246	1/2	112,305	1/2	120,363	1/2	128,421	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	95,565	3/4	104,414	3/4	112,473	3/4	120,531	3/4	128,589	3/4		3/4	3/4	3/4		3/4		3/4	
4	95,761	4	104,582	4	112,640	4	120,699	4	128,757	4		4		4		4		4	
1/4	95,957	1/4	104,750	1/4	112,808	1/4	120,867	1/4	128,925	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	96,153	1/2	104,918	1/2	112,976	1/2	121,034	1/2	129,093	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	96,349	3/4	105,086	3/4	113,144	3/4	121,202	3/4	129,261	3/4		3/4	3/4	3/4		3/4		3/4	
5	96,546	5	105,254	5	113,312	5	121,370	5	129,429	5		5		5		5		5	
1/4	96,742	1/4	105,421	1/4	113,480	1/4	121,538	1/4	129,596	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	96,938	1/2	105,589	1/2	113,648	1/2	121,706	1/2	129,764	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	97,134	3/4	105,757	3/4	113,816	3/4	121,874	3/4	129,932	3/4		3/4	3/4	3/4		3/4		3/4	
6	97,330	6	105,925	6	113,983	6	122,042	6	130,100	6		6		6		6		6	
1/4	97,526	1/4	106,093	1/4	114,151	1/4	122,210	1/4	130,250	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	97,722	1/2	106,261	1/2	114,319	1/2	122,378	1/2	130,399	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	97,918	3/4	106,429	3/4	114,487	3/4	122,546	3/4	130,549	3/4		3/4	3/4	3/4		3/4		3/4	
7	98,115	7	106,597	7	114,655	7	122,713	7	130,698	7		7		7		7		7	
1/4	98,311	1/4	106,765	1/4	114,823	1/4	122,881	1/4	130,771	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	98,507	1/2	106,932	1/2	114,991	1/2	123,049	1/2	130,844	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	98,703	3/4	107,100	3/4	115,159	3/4	123,217	3/4	130,917	3/4		3/4	3/4	3/4		3/4		3/4	
8	98,899	8	107,268	8	115,326	8	123,385	8	130,990	8		8		8		8		8	
1/4	99,095	1/4	107,436	1/4	115,494	1/4	123,553	1/4	130,996	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	99,291	1/2	107,604	1/2	115,662	1/2	123,721	1/2	131,002	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	99,487	3/4	107,772	3/4	115,830	3/4	123,888	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
9	99,684	9	107,940	9	115,998	9	124,056	9		9		9		9		9		9	
1/4	99,880	1/4	108,108	1/4	116,166	1/4	124,224	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	100,076	1/2	108,275	1/2	116,334	1/2	124,392	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	100,272	3/4	108,443	3/4	116,502	3/4	124,560	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
10	100,468	10	108,611	10	116,670	10	124,728	10		10		10		10		10		10	
1/4	100,657	1/4	108,779	1/4	116,837	1/4	124,896	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	100,846	1/2	108,947	1/2	117,005	1/2	125,064	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	101,035	3/4	109,115	3/4	117,173	3/4	125,232	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
11	101,224	11	109,283	11	117,341	11	125,399	11		11		11		11		11		11	
1/4	101,392	1/4	109,451	1/4	117,509	1/4	125,567	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	101,560	1/2	109,619	1/2	117,677	1/2	125,735	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	101,728	3/4	109,786	3/4	117,845	3/4	125,903	3/4		3/4		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.
P.O. Box 2092
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BARGE "HFL 222 SS"

2 CENTER INNAGE 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	90	0	10,838	0	22,717	0	34,733	0	46,830	0	58,928	0	71,026	0	83,124	0	95,222	0	107,320
1/4	153	1/4	11,090	1/4	22,961	1/4	34,985	1/4	47,082	1/4	59,180	1/4	71,278	1/4	83,376	1/4	95,474	1/4	107,572
1/2	216	1/2	11,342	1/2	23,206	1/2	35,237	1/2	47,335	1/2	59,432	1/2	71,530	1/2	83,628	1/2	95,726	1/2	107,824
3/4	279	3/4	11,594	3/4	23,450	3/4	35,489	3/4	47,587	3/4	59,684	3/4	71,782	3/4	83,880	3/4	95,978	3/4	108,076
1	342	1	11,846	1	23,695	1	35,741	1	47,839	1	59,936	1	72,034	1	84,132	1	96,230	1	108,328
1/4	489	1/4	12,098	1/4	23,939	1/4	35,993	1/4	48,091	1/4	60,188	1/4	72,286	1/4	84,384	1/4	96,482	1/4	108,580
1/2	636	1/2	12,350	1/2	24,184	1/2	36,245	1/2	48,343	1/2	60,440	1/2	72,538	1/2	84,636	1/2	96,734	1/2	108,832
3/4	783	3/4	12,602	3/4	24,428	3/4	36,497	3/4	48,595	3/4	60,693	3/4	72,790	3/4	84,888	3/4	96,986	3/4	109,084
2	930	2	12,854	2	24,673	2	36,749	2	48,847	2	60,946	2	73,042	2	85,140	2	97,238	2	109,336
1/4	1,149	1/4	13,106	1/4	24,920	1/4	37,001	1/4	49,099	1/4	61,197	1/4	73,294	1/4	85,392	1/4	97,490	1/4	109,588
1/2	1,368	1/2	13,358	1/2	25,166	1/2	37,253	1/2	49,351	1/2	61,449	1/2	73,546	1/2	85,644	1/2	97,742	1/2	109,840
3/4	1,586	3/4	13,610	3/4	25,413	3/4	37,505	3/4	49,603	3/4	61,701	3/4	73,798	3/4	85,896	3/4	97,994	3/4	110,092
3	1,805	3	13,862	3	25,659	3	37,757	3	49,855	3	61,953	3	74,051	3	86,148	3	98,246	3	110,344
1/4	2,052	1/4	14,115	1/4	25,911	1/4	38,009	1/4	50,107	1/4	62,205	1/4	74,303	1/4	86,400	1/4	98,498	1/4	110,596
1/2	2,299	1/2	14,367	1/2	26,163	1/2	38,261	1/2	50,359	1/2	62,457	1/2	74,555	1/2	86,652	1/2	98,750	1/2	110,848
3/4	2,546	3/4	14,619	3/4	26,415	3/4	38,513	3/4	50,611	3/4	62,709	3/4	74,807	3/4	86,904	3/4	99,002	3/4	111,100
4	2,793	4	14,871	4	26,667	4	38,765	4	50,863	4	62,961	4	75,059	4	87,157	4	99,254	4	111,352
1/4	3,043	1/4	15,121	1/4	26,919	1/4	39,017	1/4	51,115	1/4	63,213	1/4	75,311	1/4	87,409	1/4	99,506	1/4	111,604
1/2	3,292	1/2	15,371	1/2	27,171	1/2	39,269	1/2	51,367	1/2	63,465	1/2	75,563	1/2	87,661	1/2	99,758	1/2	111,856
3/4	3,541	3/4	15,621	3/4	27,424	3/4	39,521	3/4	51,619	3/4	63,717	3/4	75,815	3/4	87,913	3/4	100,010	3/4	112,108
5	3,791	5	15,871	5	27,676	5	39,773	5	51,871	5	63,969	5	76,067	5	88,165	5	100,262	5	112,360
1/4	4,041	1/4	16,116	1/4	27,928	1/4	40,025	1/4	52,123	1/4	64,221	1/4	76,319	1/4	88,417	1/4	100,515	1/4	112,612
1/2	4,292	1/2	16,361	1/2	28,180	1/2	40,277	1/2	52,375	1/2	64,473	1/2	76,571	1/2	88,669	1/2	100,767	1/2	112,864
3/4	4,542	3/4	16,605	3/4	28,432	3/4	40,529	3/4	52,627	3/4	64,725	3/4	76,823	3/4	88,921	3/4	101,019	3/4	113,116
6	4,793	6	16,850	6	28,684	6	40,782	6	52,879	6	64,977	6	77,075	6	89,173	6	101,271	6	113,368
1/4	5,044	1/4	17,095	1/4	28,936	1/4	41,034	1/4	53,131	1/4	65,229	1/4	77,327	1/4	89,425	1/4	101,523	1/4	113,620
1/2	5,296	1/2	17,339	1/2	29,188	1/2	41,286	1/2	53,383	1/2	65,481	1/2	77,579	1/2	89,677	1/2	101,775	1/2	113,873
3/4	5,547	3/4	17,583	3/4	29,440	3/4	41,538	3/4	53,635	3/4	65,733	3/4	77,831	3/4	89,929	3/4	102,027	3/4	114,125
7	5,798	7	17,828	7	29,692	7	41,790	7	53,888	7	65,985	7	78,083	7	90,181	7	102,279	7	114,377
1/4	6,050	1/4	18,072	1/4	29,944	1/4	42,042	1/4	54,140	1/4	66,237	1/4	78,335	1/4	90,433	1/4	102,531	1/4	114,629
1/2	6,302	1/2	18,317	1/2	30,196	1/2	42,294	1/2	54,392	1/2	66,489	1/2	78,587	1/2	90,685	1/2	102,783	1/2	114,881
3/4	6,554	3/4	18,561	3/4	30,448	3/4	42,546	3/4	54,644	3/4	66,741	3/4	78,839	3/4	90,937	3/4	103,035	3/4	115,133
8	6,806	8	18,806	8	30,700	8	42,798	8	54,896	8	66,993	8	79,091	8	91,189	8	103,287	8	115,385
1/4	7,058	1/4	19,050	1/4	30,952	1/4	43,050	1/4	55,148	1/4	67,246	1/4	79,343	1/4	91,441	1/4	103,539	1/4	115,637
1/2	7,310	1/2	19,295	1/2	31,204	1/2	43,302	1/2	55,400	1/2	67,498	1/2	79,595	1/2	91,693	1/2	103,791	1/2	115,889
3/4	7,562	3/4	19,539	3/4	31,456	3/4	43,554	3/4	55,652	3/4	67,750	3/4	79,847	3/4	91,945	3/4	104,043	3/4	116,141
9	7,814	9	19,784	9	31,708	9	43,806	9	55,904	9	68,002	9	80,099	9	92,197	9	104,295	9	116,393
1/4	8,066	1/4	20,028	1/4	31,960	1/4	44,058	1/4	56,156	1/4	68,254	1/4	80,351	1/4	92,449	1/4	104,547	1/4	116,645
1/2	8,318	1/2	20,272	1/2	32,212	1/2	44,310	1/2	56,408	1/2	68,506	1/2	80,604	1/2	92,701	1/2	104,799	1/2	116,897
3/4	8,570	3/4	20,517	3/4	32,464	3/4	44,562	3/4	56,660	3/4	68,758	3/4	80,856	3/4	92,953	3/4	105,051	3/4	117,149
10	8,822	10	20,761	10	32,716	10	44,814	10	56,912	10	69,010	10	81,108	10	93,205	10	105,303	10	117,401
1/4	9,074	1/4	21,006	1/4	32,968	1/4	45,066	1/4	57,164	1/4	69,262	1/4	81,360	1/4	93,457	1/4	105,555	1/4	117,653
1/2	9,326	1/2	21,250	1/2	33,220	1/2	45,318	1/2	57,416	1/2	69,514	1/2	81,612	1/2	93,709	1/2	105,807	1/2	117,905
3/4	9,578	3/4	21,495	3/4	33,472	3/4	45,570	3/4	57,668	3/4	69,766	3/4	81,864	3/4	93,962	3/4	106,059	3/4	118,157
11	9,830	11	21,739	11	33,724	11	45,822	11	57,920	11	70,018	11	82,116	11	94,214	11	106,311	11	118,409
1/4	10,082	1/4	21,984	1/4	33,977	1/4	46,074	1/4	58,172	1/4	70,270	1/4	82,368	1/4	94,466	1/4	106,563	1/4	118,661
1/2	10,334	1/2	22,228	1/2	34,229	1/2	46,326	1/2	58,424	1/2	70,522	1/2	82,620	1/2	94,718	1/2	106,815	1/2	118,913
3/4	10,586	3/4	22,473	3/4	34,481	3/4	46,578	3/4	58,676	3/4	70,774	3/4	82,872	3/4	94,970	3/4	107,068	3/4	119,165

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF THREADS ON "MMC" VALVE.
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 222 SS"

2 CENTER INNAGE 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	119,417	0	131,515	0	143,613	0	155,711	0	167,809	0		0		0		0		0	
1/4	119,669	1/4	131,767	1/4	143,865	1/4	155,963	1/4	168,061	1/4		1/4		1/4		1/4		1/4	
1/2	119,921	1/2	132,019	1/2	144,117	1/2	156,215	1/2	168,313	1/2		1/2		1/2		1/2		1/2	
3/4	120,173	3/4	132,271	3/4	144,369	3/4	156,467	3/4	168,565	3/4		3/4		3/4		3/4		3/4	
1	120,426	1	132,523	1	144,621	1	156,719	1	168,817	1		1		1		1		1	
1/4	120,678	1/4	132,775	1/4	144,873	1/4	156,971	1/4	169,069	1/4		1/4		1/4		1/4		1/4	
1/2	120,930	1/2	133,027	1/2	145,125	1/2	157,223	1/2	169,321	1/2		1/2		1/2		1/2		1/2	
3/4	121,182	3/4	133,279	3/4	145,377	3/4	157,475	3/4	169,573	3/4		3/4		3/4		3/4		3/4	
2	121,434	2	133,531	2	145,629	2	157,727	2	169,825	2		2		2		2		2	
1/4	121,686	1/4	133,784	1/4	145,881	1/4	157,979	1/4	170,077	1/4		1/4		1/4		1/4		1/4	
1/2	121,938	1/2	134,036	1/2	146,133	1/2	158,231	1/2	170,329	1/2		1/2		1/2		1/2		1/2	
3/4	122,190	3/4	134,288	3/4	146,385	3/4	158,483	3/4	170,581	3/4		3/4		3/4		3/4		3/4	
3	122,442	3	134,540	3	146,637	3	158,735	3	170,833	3		3		3		3		3	
1/4	122,694	1/4	134,792	1/4	146,889	1/4	158,987	1/4	171,085	1/4		1/4		1/4		1/4		1/4	
1/2	122,946	1/2	135,044	1/2	147,142	1/2	159,239	1/2	171,337	1/2		1/2		1/2		1/2		1/2	
3/4	123,198	3/4	135,296	3/4	147,394	3/4	159,491	3/4	171,589	3/4		3/4		3/4		3/4		3/4	
4	123,450	4	135,548	4	147,646	4	159,743	4	171,841	4		4		4		4		4	
1/4	123,702	1/4	135,800	1/4	147,898	1/4	159,995	1/4	172,093	1/4		1/4		1/4		1/4		1/4	
1/2	123,954	1/2	136,052	1/2	148,150	1/2	160,247	1/2	172,345	1/2		1/2		1/2		1/2		1/2	
3/4	124,206	3/4	136,304	3/4	148,402	3/4	160,500	3/4	172,597	3/4		3/4		3/4		3/4		3/4	
5	124,458	5	136,556	5	148,654	5	160,752	5	172,849	5		5		5		5		5	
1/4	124,710	1/4	136,808	1/4	148,906	1/4	161,004	1/4	173,101	1/4		1/4		1/4		1/4		1/4	
1/2	124,962	1/2	137,060	1/2	149,158	1/2	161,256	1/2	173,353	1/2		1/2		1/2		1/2		1/2	
3/4	125,214	3/4	137,312	3/4	149,410	3/4	161,508	3/4	173,606	3/4		3/4		3/4		3/4		3/4	
6	125,466	6	137,564	6	149,662	6	161,760	6	173,858	6		6		6		6		6	
1/4	125,718	1/4	137,816	1/4	149,914	1/4	162,012	1/4	174,086	1/4		1/4		1/4		1/4		1/4	
1/2	125,970	1/2	138,068	1/2	150,166	1/2	162,264	1/2	174,314	1/2		1/2		1/2		1/2		1/2	
3/4	126,222	3/4	138,320	3/4	150,418	3/4	162,516	3/4	174,543	3/4		3/4		3/4		3/4		3/4	
7	126,474	7	138,572	7	150,670	7	162,768	7	174,771	7		7		7		7		7	
1/4	126,726	1/4	138,824	1/4	150,922	1/4	163,020	1/4	174,901	1/4		1/4		1/4		1/4		1/4	
1/2	126,978	1/2	139,076	1/2	151,174	1/2	163,272	1/2	175,031	1/2		1/2		1/2		1/2		1/2	
3/4	127,231	3/4	139,328	3/4	151,426	3/4	163,524	3/4	175,161	3/4		3/4		3/4		3/4		3/4	
8	127,483	8	139,580	8	151,678	8	163,776	8	175,291	8		8		8		8		8	
1/4	127,735	1/4	139,832	1/4	151,930	1/4	164,028	1/4	175,327	1/4		1/4		1/4		1/4		1/4	
1/2	127,987	1/2	140,084	1/2	152,182	1/2	164,280	1/2	175,362	1/2		1/2		1/2		1/2		1/2	
3/4	128,239	3/4	140,337	3/4	152,434	3/4	164,532	3/4		3/4		3/4		3/4		3/4		3/4	
9	128,491	9	140,589	9	152,686	9	164,784	9		9		9		9		9		9	
1/4	128,743	1/4	140,841	1/4	152,938	1/4	165,036	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	128,995	1/2	141,093	1/2	153,190	1/2	165,288	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	129,247	3/4	141,345	3/4	153,442	3/4	165,540	3/4		3/4		3/4		3/4		3/4		3/4	
10	129,499	10	141,597	10	153,695	10	165,792	10		10		10		10		10		10	
1/4	129,751	1/4	141,849	1/4	153,947	1/4	166,044	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	130,003	1/2	142,101	1/2	154,199	1/2	166,296	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	130,255	3/4	142,353	3/4	154,451	3/4	166,548	3/4		3/4		3/4		3/4		3/4		3/4	
11	130,507	11	142,605	11	154,703	11	166,800	11		11		11		11		11		11	
1/4	130,759	1/4	142,857	1/4	154,955	1/4	167,053	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	131,011	1/2	143,109	1/2	155,207	1/2	167,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	131,263	3/4	143,361	3/4	155,459	3/4	167,557	3/4		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.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HFL 222 SS"

3 CENTER INNAGE 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	86	0	9,679	0	20,463	0	31,256	0	42,054	0	52,853	0	63,651	0	74,450	0	85,248	0	96,046
1/4	142	1/4	9,904	1/4	20,687	1/4	31,481	1/4	42,279	1/4	53,078	1/4	63,876	1/4	74,675	1/4	85,473	1/4	96,271
1/2	198	1/2	10,129	1/2	20,912	1/2	31,706	1/2	42,504	1/2	53,303	1/2	64,101	1/2	74,900	1/2	85,698	1/2	96,496
3/4	254	3/4	10,354	3/4	21,136	3/4	31,931	3/4	42,729	3/4	53,528	3/4	64,326	3/4	75,124	3/4	85,923	3/4	96,721
1	311	1	10,579	1	21,361	1	32,156	1	42,954	1	53,753	1	64,551	1	75,349	1	86,148	1	96,946
1/4	442	1/4	10,804	1/4	21,585	1/4	32,381	1/4	43,179	1/4	53,978	1/4	64,776	1/4	75,574	1/4	86,373	1/4	97,171
1/2	573	1/2	11,029	1/2	21,810	1/2	32,606	1/2	43,404	1/2	54,203	1/2	65,001	1/2	75,799	1/2	86,598	1/2	97,396
3/4	704	3/4	11,254	3/4	22,034	3/4	32,831	3/4	43,629	3/4	54,427	3/4	65,226	3/4	76,024	3/4	86,823	3/4	97,621
2	835	2	11,479	2	22,259	2	33,056	2	43,854	2	54,652	2	65,451	2	76,249	2	87,048	2	97,846
1/4	1,030	1/4	11,704	1/4	22,483	1/4	33,281	1/4	44,079	1/4	54,877	1/4	65,676	1/4	76,474	1/4	87,273	1/4	98,071
1/2	1,226	1/2	11,929	1/2	22,708	1/2	33,506	1/2	44,304	1/2	55,102	1/2	65,901	1/2	76,699	1/2	87,498	1/2	98,296
3/4	1,421	3/4	12,154	3/4	22,932	3/4	33,730	3/4	44,529	3/4	55,327	3/4	66,126	3/4	76,924	3/4	87,723	3/4	98,521
3	1,616	3	12,379	3	23,157	3	33,955	3	44,754	3	55,552	3	66,351	3	77,149	3	87,948	3	98,746
1/4	1,837	1/4	12,604	1/4	23,382	1/4	34,180	1/4	44,979	1/4	55,777	1/4	66,576	1/4	77,374	1/4	88,173	1/4	98,971
1/2	2,058	1/2	12,829	1/2	23,607	1/2	34,405	1/2	45,204	1/2	56,002	1/2	66,801	1/2	77,599	1/2	88,398	1/2	99,196
3/4	2,278	3/4	13,054	3/4	23,832	3/4	34,630	3/4	45,429	3/4	56,227	3/4	67,026	3/4	77,824	3/4	88,623	3/4	99,421
4	2,499	4	13,279	4	24,057	4	34,855	4	45,654	4	56,452	4	67,251	4	78,049	4	88,848	4	99,646
1/4	2,721	1/4	13,503	1/4	24,282	1/4	35,080	1/4	45,879	1/4	56,677	1/4	67,476	1/4	78,274	1/4	89,072	1/4	99,871
1/2	2,944	1/2	13,728	1/2	24,507	1/2	35,305	1/2	46,104	1/2	56,902	1/2	67,701	1/2	78,499	1/2	89,297	1/2	100,096
3/4	3,166	3/4	13,953	3/4	24,732	3/4	35,530	3/4	46,329	3/4	57,127	3/4	67,926	3/4	78,724	3/4	89,522	3/4	100,321
5	3,389	5	14,178	5	24,957	5	35,755	5	46,554	5	57,352	5	68,150	5	78,949	5	89,747	5	100,546
1/4	3,612	1/4	14,402	1/4	25,182	1/4	35,980	1/4	46,779	1/4	57,577	1/4	68,375	1/4	79,174	1/4	89,972	1/4	100,771
1/2	3,836	1/2	14,627	1/2	25,407	1/2	36,205	1/2	47,004	1/2	57,802	1/2	68,600	1/2	79,399	1/2	90,197	1/2	100,996
3/4	4,060	3/4	14,851	3/4	25,632	3/4	36,430	3/4	47,229	3/4	58,027	3/4	68,825	3/4	79,624	3/4	90,422	3/4	101,221
6	4,283	6	15,076	6	25,857	6	36,655	6	47,453	6	58,252	6	69,050	6	79,849	6	90,647	6	101,446
1/4	4,508	1/4	15,300	1/4	26,082	1/4	36,880	1/4	47,678	1/4	58,477	1/4	69,275	1/4	80,074	1/4	90,872	1/4	101,671
1/2	4,732	1/2	15,525	1/2	26,307	1/2	37,105	1/2	47,903	1/2	58,702	1/2	69,500	1/2	80,299	1/2	91,097	1/2	101,896
3/4	4,956	3/4	15,749	3/4	26,532	3/4	37,330	3/4	48,128	3/4	58,927	3/4	69,725	3/4	80,524	3/4	91,322	3/4	102,121
7	5,181	7	15,974	7	26,756	7	37,555	7	48,353	7	59,152	7	69,950	7	80,749	7	91,547	7	102,346
1/4	5,405	1/4	16,198	1/4	26,981	1/4	37,780	1/4	48,578	1/4	59,377	1/4	70,175	1/4	80,974	1/4	91,772	1/4	102,571
1/2	5,630	1/2	16,423	1/2	27,206	1/2	38,005	1/2	48,803	1/2	59,602	1/2	70,400	1/2	81,199	1/2	91,997	1/2	102,795
3/4	5,855	3/4	16,647	3/4	27,431	3/4	38,230	3/4	49,028	3/4	59,827	3/4	70,625	3/4	81,424	3/4	92,222	3/4	103,020
8	6,080	8	16,871	8	27,656	8	38,455	8	49,253	8	60,052	8	70,850	8	81,649	8	92,447	8	103,245
1/4	6,305	1/4	17,096	1/4	27,881	1/4	38,680	1/4	49,478	1/4	60,277	1/4	71,075	1/4	81,874	1/4	92,672	1/4	103,470
1/2	6,530	1/2	17,320	1/2	28,106	1/2	38,905	1/2	49,703	1/2	60,502	1/2	71,300	1/2	82,098	1/2	92,897	1/2	103,695
3/4	6,755	3/4	17,545	3/4	28,331	3/4	39,130	3/4	49,928	3/4	60,727	3/4	71,525	3/4	82,323	3/4	93,122	3/4	103,920
9	6,980	9	17,769	9	28,556	9	39,355	9	50,153	9	60,952	9	71,750	9	82,548	9	93,347	9	104,145
1/4	7,205	1/4	17,994	1/4	28,781	1/4	39,580	1/4	50,378	1/4	61,177	1/4	71,975	1/4	82,773	1/4	93,572	1/4	104,370
1/2	7,430	1/2	18,218	1/2	29,006	1/2	39,805	1/2	50,603	1/2	61,401	1/2	72,200	1/2	82,998	1/2	93,797	1/2	104,595
3/4	7,655	3/4	18,443	3/4	29,231	3/4	40,030	3/4	50,828	3/4	61,626	3/4	72,425	3/4	83,223	3/4	94,022	3/4	104,820
10	7,880	10	18,667	10	29,456	10	40,255	10	51,053	10	61,851	10	72,650	10	83,448	10	94,247	10	105,045
1/4	8,104	1/4	18,892	1/4	29,681	1/4	40,479	1/4	51,278	1/4	62,076	1/4	72,875	1/4	83,673	1/4	94,472	1/4	105,270
1/2	8,329	1/2	19,116	1/2	29,906	1/2	40,704	1/2	51,503	1/2	62,301	1/2	73,100	1/2	83,898	1/2	94,697	1/2	105,495
3/4	8,554	3/4	19,341	3/4	30,131	3/4	40,929	3/4	51,728	3/4	62,526	3/4	73,325	3/4	84,123	3/4	94,922	3/4	105,720
11	8,779	11	19,565	11	30,356	11	41,154	11	51,953	11	62,751	11	73,550	11	84,348	11	95,147	11	105,945
1/4	9,004	1/4	19,789	1/4	30,581	1/4	41,379	1/4	52,178	1/4	62,976	1/4	73,775	1/4	84,573	1/4	95,372	1/4	106,170
1/2	9,229	1/2	20,014	1/2	30,806	1/2	41,604	1/2	52,403	1/2	63,201	1/2	74,000	1/2	84,798	1/2	95,597	1/2	106,395
3/4	9,454	3/4	20,238	3/4	31,031	3/4	41,829	3/4	52,628	3/4	63,426	3/4	74,225	3/4	85,023	3/4	95,821	3/4	106,620

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 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 77588

http://www.pmacorp.net



BARGE "HFL 222 SS"

3 CENTER INNAGE 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	106,845	0	117,643	0	128,442	0	139,240	0	150,039	0		0		0		0		0	
1/4	107,070	1/4	117,868	1/4	128,667	1/4	139,465	1/4	150,264	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	107,295	1/2	118,093	1/2	128,892	1/2	139,690	1/2	150,489	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	107,520	3/4	118,318	3/4	129,117	3/4	139,915	3/4	150,714	3/4		3/4	3/4	3/4		3/4		3/4	
1	107,745	1	118,543	1	129,342	1	140,140	1	150,939	1		1		1		1		1	
1/4	107,970	1/4	118,768	1/4	129,567	1/4	140,365	1/4	151,164	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	108,195	1/2	118,993	1/2	129,792	1/2	140,590	1/2	151,388	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	108,420	3/4	119,218	3/4	130,017	3/4	140,815	3/4	151,613	3/4		3/4	3/4	3/4		3/4		3/4	
2	108,645	2	119,443	2	130,242	2	141,040	2	151,838	2		2		2		2		2	
1/4	108,870	1/4	119,668	1/4	130,466	1/4	141,265	1/4	152,063	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	109,095	1/2	119,893	1/2	130,691	1/2	141,490	1/2	152,288	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	109,320	3/4	120,118	3/4	130,916	3/4	141,715	3/4	152,513	3/4		3/4	3/4	3/4		3/4		3/4	
3	109,545	3	120,343	3	131,141	3	141,940	3	152,738	3		3		3		3		3	
1/4	109,769	1/4	120,568	1/4	131,366	1/4	142,165	1/4	152,963	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	109,994	1/2	120,793	1/2	131,591	1/2	142,390	1/2	153,188	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	110,219	3/4	121,018	3/4	131,816	3/4	142,615	3/4	153,413	3/4		3/4	3/4	3/4		3/4		3/4	
4	110,444	4	121,243	4	132,041	4	142,840	4	153,638	4		4		4		4		4	
1/4	110,669	1/4	121,468	1/4	132,266	1/4	143,065	1/4	153,863	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	110,894	1/2	121,693	1/2	132,491	1/2	143,290	1/2	154,088	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	111,119	3/4	121,918	3/4	132,716	3/4	143,515	3/4	154,313	3/4		3/4	3/4	3/4		3/4		3/4	
5	111,344	5	122,143	5	132,941	5	143,740	5	154,538	5		5		5		5		5	
1/4	111,569	1/4	122,368	1/4	133,166	1/4	143,965	1/4	154,763	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	111,794	1/2	122,593	1/2	133,391	1/2	144,190	1/2	154,988	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	112,019	3/4	122,818	3/4	133,616	3/4	144,414	3/4	155,213	3/4		3/4	3/4	3/4		3/4		3/4	
6	112,244	6	123,043	6	133,841	6	144,639	6	155,438	6		6		6		6		6	
1/4	112,469	1/4	123,268	1/4	134,066	1/4	144,864	1/4	155,662	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	112,694	1/2	123,492	1/2	134,291	1/2	145,089	1/2	155,886	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	112,919	3/4	123,717	3/4	134,516	3/4	145,314	3/4	156,110	3/4		3/4	3/4	3/4		3/4		3/4	
7	113,144	7	123,942	7	134,741	7	145,539	7	156,253	7		7		7		7		7	
1/4	113,369	1/4	124,167	1/4	134,966	1/4	145,764	1/4	156,478	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	113,594	1/2	124,392	1/2	135,191	1/2	145,989	1/2	156,703	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	113,819	3/4	124,617	3/4	135,416	3/4	146,214	3/4	156,928	3/4		3/4	3/4	3/4		3/4		3/4	
8	114,044	8	124,842	8	135,641	8	146,439	8	157,153	8		8		8		8		8	
1/4	114,269	1/4	125,067	1/4	135,866	1/4	146,664	1/4	157,378	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	114,494	1/2	125,292	1/2	136,091	1/2	146,889	1/2	157,603	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	114,719	3/4	125,517	3/4	136,316	3/4	147,114	3/4	157,828	3/4		3/4	3/4	3/4		3/4		3/4	
9	114,944	9	125,742	9	136,541	9	147,339	9	158,053	9		9		9		9		9	
1/4	115,169	1/4	125,967	1/4	136,766	1/4	147,564	1/4	158,278	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	115,394	1/2	126,192	1/2	136,991	1/2	147,789	1/2	158,503	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	115,619	3/4	126,417	3/4	137,216	3/4	148,014	3/4	158,728	3/4		3/4	3/4	3/4		3/4		3/4	
10	115,844	10	126,642	10	137,440	10	148,239	10	158,953	10		10		10		10		10	
1/4	116,069	1/4	126,867	1/4	137,665	1/4	148,464	1/4	159,178	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	116,294	1/2	127,092	1/2	137,890	1/2	148,689	1/2	159,403	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	116,519	3/4	127,317	3/4	138,115	3/4	148,914	3/4	159,628	3/4		3/4	3/4	3/4		3/4		3/4	
11	116,743	11	127,542	11	138,340	11	149,139	11	159,853	11		11		11		11		11	
1/4	116,968	1/4	127,767	1/4	138,565	1/4	149,364	1/4	160,078	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	117,193	1/2	127,992	1/2	138,790	1/2	149,589	1/2	160,303	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	117,418	3/4	128,217	3/4	139,015	3/4	149,814	3/4	160,528	3/4		3/4	3/4	3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2014

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