



# BARGE "HSM 3060"

## INNAGE TRIM TABLE FORMERLY "HFL 435"

	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 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8
2 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	- 00-1/8	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	- 00-1/8	00-1/8
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 3 PORT IS - 00-0/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 4'-00"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 27, 2015

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

<http://www.pmacorp.net>



# BARGE "HSM 3060"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	386	0	13,259	0	28,193	0	43,224	0	58,194	0	73,182	0	88,214	0	103,245	0	118,272	0	133,297
1/4	563	1/4	13,560	1/4	28,507	1/4	43,538	1/4	58,505	1/4	73,496	1/4	88,527	1/4	103,558	1/4	118,585	1/4	133,610
1/2	740	1/2	13,862	1/2	28,820	1/2	43,851	1/2	58,815	1/2	73,809	1/2	88,840	1/2	103,872	1/2	118,898	1/2	133,923
3/4	917	3/4	14,164	3/4	29,133	3/4	44,164	3/4	59,126	3/4	74,122	3/4	89,153	3/4	104,185	3/4	119,211	3/4	134,236
1	1,094	1	14,465	1	29,446	1	44,477	1	59,437	1	74,435	1	89,466	1	104,498	1	119,524	1	134,549
1/4	1,332	1/4	14,771	1/4	29,759	1/4	44,790	1/4	59,748	1/4	74,748	1/4	89,780	1/4	104,811	1/4	119,837	1/4	134,862
1/2	1,571	1/2	15,076	1/2	30,072	1/2	45,103	1/2	60,058	1/2	75,061	1/2	90,093	1/2	105,124	1/2	120,150	1/2	135,175
3/4	1,810	3/4	15,381	3/4	30,385	3/4	45,416	3/4	60,369	3/4	75,374	3/4	90,406	3/4	105,437	3/4	120,463	3/4	135,488
2	2,049	2	15,687	2	30,699	2	45,730	2	60,680	2	75,688	2	90,719	2	105,750	2	120,776	2	135,801
1/4	2,311	1/4	15,996	1/4	31,012	1/4	46,043	1/4	60,991	1/4	76,001	1/4	91,032	1/4	106,064	1/4	121,089	1/4	136,114
1/2	2,573	1/2	16,306	1/2	31,325	1/2	46,356	1/2	61,302	1/2	76,314	1/2	91,345	1/2	106,377	1/2	121,402	1/2	136,427
3/4	2,835	3/4	16,615	3/4	31,638	3/4	46,669	3/4	61,613	3/4	76,627	3/4	91,659	3/4	106,690	3/4	121,715	3/4	136,740
3	3,097	3	16,924	3	31,951	3	46,982	3	61,923	3	76,940	3	91,972	3	107,003	3	122,028	3	137,053
1/4	3,364	1/4	17,236	1/4	32,264	1/4	47,295	1/4	62,234	1/4	77,253	1/4	92,285	1/4	107,316	1/4	122,341	1/4	137,366
1/2	3,630	1/2	17,548	1/2	32,577	1/2	47,608	1/2	62,545	1/2	77,567	1/2	92,598	1/2	107,629	1/2	122,654	1/2	137,679
3/4	3,897	3/4	17,861	3/4	32,891	3/4	47,922	3/4	62,856	3/4	77,880	3/4	92,911	3/4	107,942	3/4	122,967	3/4	137,992
4	4,164	4	18,173	4	33,204	4	48,235	4	63,167	4	78,193	4	93,224	4	108,255	4	123,280	4	138,305
1/4	4,434	1/4	18,486	1/4	33,517	1/4	48,547	1/4	63,479	1/4	78,506	1/4	93,537	1/4	108,568	1/4	123,593	1/4	138,618
1/2	4,705	1/2	18,799	1/2	33,830	1/2	48,860	1/2	63,791	1/2	78,819	1/2	93,851	1/2	108,881	1/2	123,906	1/2	138,931
3/4	4,976	3/4	19,112	3/4	34,143	3/4	49,172	3/4	64,103	3/4	79,132	3/4	94,164	3/4	109,195	3/4	124,219	3/4	139,244
5	5,246	5	19,425	5	34,456	5	49,484	5	64,415	5	79,445	5	94,477	5	109,508	5	124,532	5	139,557
1/4	5,521	1/4	19,739	1/4	34,770	1/4	49,796	1/4	64,728	1/4	79,759	1/4	94,790	1/4	109,821	1/4	124,845	1/4	139,870
1/2	5,796	1/2	20,052	1/2	35,083	1/2	50,108	1/2	65,041	1/2	80,072	1/2	95,103	1/2	110,134	1/2	125,158	1/2	140,183
3/4	6,070	3/4	20,365	3/4	35,396	3/4	50,420	3/4	65,354	3/4	80,385	3/4	95,416	3/4	110,447	3/4	125,472	3/4	140,496
6	6,345	6	20,678	6	35,709	6	50,731	6	65,667	6	80,698	6	95,730	6	110,760	6	125,785	6	140,809
1/4	6,623	1/4	20,991	1/4	36,022	1/4	51,043	1/4	65,980	1/4	81,011	1/4	96,043	1/4	111,073	1/4	126,098	1/4	141,122
1/2	6,902	1/2	21,304	1/2	36,335	1/2	51,354	1/2	66,293	1/2	81,324	1/2	96,356	1/2	111,386	1/2	126,411	1/2	141,435
3/4	7,180	3/4	21,617	3/4	36,648	3/4	51,666	3/4	66,606	3/4	81,638	3/4	96,669	3/4	111,699	3/4	126,724	3/4	141,748
7	7,459	7	21,931	7	36,962	7	51,977	7	66,919	7	81,951	7	96,982	7	112,012	7	127,037	7	142,062
1/4	7,741	1/4	22,244	1/4	37,275	1/4	52,288	1/4	67,232	1/4	82,264	1/4	97,295	1/4	112,325	1/4	127,350	1/4	142,375
1/2	8,023	1/2	22,557	1/2	37,588	1/2	52,599	1/2	67,546	1/2	82,577	1/2	97,608	1/2	112,638	1/2	127,663	1/2	142,688
3/4	8,305	3/4	22,870	3/4	37,901	3/4	52,910	3/4	67,859	3/4	82,890	3/4	97,922	3/4	112,951	3/4	127,976	3/4	143,001
8	8,588	8	23,183	8	38,214	8	53,221	8	68,172	8	83,203	8	98,235	8	113,264	8	128,289	8	143,314
1/4	8,874	1/4	23,496	1/4	38,527	1/4	53,532	1/4	68,485	1/4	83,517	1/4	98,548	1/4	113,577	1/4	128,602	1/4	143,627
1/2	9,160	1/2	23,809	1/2	38,840	1/2	53,843	1/2	68,798	1/2	83,830	1/2	98,861	1/2	113,890	1/2	128,915	1/2	143,940
3/4	9,446	3/4	24,123	3/4	39,154	3/4	54,154	3/4	69,111	3/4	84,143	3/4	99,174	3/4	114,203	3/4	129,228	3/4	144,253
9	9,732	9	24,436	9	39,467	9	54,464	9	69,425	9	84,456	9	99,487	9	114,516	9	129,541	9	144,566
1/4	10,022	1/4	24,749	1/4	39,780	1/4	54,775	1/4	69,738	1/4	84,769	1/4	99,801	1/4	114,829	1/4	129,854	1/4	144,879
1/2	10,312	1/2	25,062	1/2	40,093	1/2	55,086	1/2	70,051	1/2	85,082	1/2	100,114	1/2	115,142	1/2	130,167	1/2	145,192
3/4	10,602	3/4	25,375	3/4	40,406	3/4	55,397	3/4	70,364	3/4	85,395	3/4	100,427	3/4	115,455	3/4	130,480	3/4	145,505
10	10,892	10	25,688	10	40,719	10	55,707	10	70,677	10	85,709	10	100,740	10	115,768	10	130,793	10	145,818
1/4	11,186	1/4	26,001	1/4	41,032	1/4	56,018	1/4	70,990	1/4	86,022	1/4	101,053	1/4	116,081	1/4	131,106	1/4	146,131
1/2	11,480	1/2	26,315	1/2	41,346	1/2	56,329	1/2	71,303	1/2	86,335	1/2	101,366	1/2	116,394	1/2	131,419	1/2	146,444
3/4	11,774	3/4	26,628	3/4	41,659	3/4	56,640	3/4	71,617	3/4	86,648	3/4	101,679	3/4	116,707	3/4	131,732	3/4	146,757
11	12,068	11	26,941	11	41,972	11	56,951	11	71,930	11	86,961	11	101,993	11	117,020	11	132,045	11	147,070
1/4	12,366	1/4	27,254	1/4	42,285	1/4	57,261	1/4	72,243	1/4	87,274	1/4	102,306	1/4	117,333	1/4	132,358	1/4	147,383
1/2	12,663	1/2	27,567	1/2	42,598	1/2	57,572	1/2	72,556	1/2	87,588	1/2	102,619	1/2	117,646	1/2	132,671	1/2	147,696
3/4	12,961	3/4	27,880	3/4	42,911	3/4	57,883	3/4	72,869	3/4	87,901	3/4	102,932	3/4	117,959	3/4	132,984	3/4	148,009

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
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# BARGE "HSM 3060"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	148,322	0	163,347	0	178,363	0	193,344	0	208,252	0		0		0		0		0	
1/4	148,635	1/4	163,660	1/4	178,675	1/4	193,656	1/4	208,533	1/4		1/4		1/4		1/4		1/4	
1/2	148,948	1/2	163,973	1/2	178,987	1/2	193,968	1/2	208,813	1/2		1/2		1/2		1/2		1/2	
3/4	149,261	3/4	164,286	3/4	179,299	3/4	194,280	3/4	209,093	3/4		3/4		3/4		3/4		3/4	
1	149,574	1	164,599	1	179,611	1	194,592	1	209,373	1		1		1		1		1	
1/4	149,887	1/4	164,912	1/4	179,923	1/4	194,904	1/4	209,605	1/4		1/4		1/4		1/4		1/4	
1/2	150,200	1/2	165,225	1/2	180,235	1/2	195,216	1/2	209,837	1/2		1/2		1/2		1/2		1/2	
3/4	150,513	3/4	165,538	3/4	180,547	3/4	195,528	3/4	210,069	3/4		3/4		3/4		3/4		3/4	
2	150,826	2	165,851	2	180,859	2	195,841	2	210,301	2		2		2		2		2	
1/4	151,139	1/4	166,164	1/4	181,172	1/4	196,153	1/4	210,480	1/4		1/4		1/4		1/4		1/4	
1/2	151,452	1/2	166,477	1/2	181,484	1/2	196,465	1/2	210,660	1/2		1/2		1/2		1/2		1/2	
3/4	151,765	3/4	166,790	3/4	181,796	3/4	196,777	3/4	210,839	3/4		3/4		3/4		3/4		3/4	
3	152,078	3	167,103	3	182,108	3	197,089	3	211,019	3		3		3		3		3	
1/4	152,391	1/4	167,416	1/4	182,420	1/4	197,401	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,704	1/2	167,729	1/2	182,732	1/2	197,713	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,017	3/4	168,042	3/4	183,044	3/4	198,025	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,330	4	168,355	4	183,356	4	198,337	4		4		4		4		4		4	
1/4	153,643	1/4	168,668	1/4	183,668	1/4	198,649	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,956	1/2	168,981	1/2	183,981	1/2	198,962	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,269	3/4	169,294	3/4	184,293	3/4	199,274	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,582	5	169,607	5	184,605	5	199,586	5		5		5		5		5		5	
1/4	154,895	1/4	169,920	1/4	184,917	1/4	199,897	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,208	1/2	170,233	1/2	185,229	1/2	200,208	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,521	3/4	170,546	3/4	185,541	3/4	200,519	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,834	6	170,859	6	185,853	6	200,830	6		6		6		6		6		6	
1/4	156,147	1/4	171,172	1/4	186,165	1/4	201,140	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,460	1/2	171,485	1/2	186,477	1/2	201,450	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,773	3/4	171,798	3/4	186,789	3/4	201,760	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,086	7	172,111	7	187,102	7	202,070	7		7		7		7		7		7	
1/4	157,399	1/4	172,424	1/4	187,414	1/4	202,380	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,712	1/2	172,737	1/2	187,726	1/2	202,690	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,025	3/4	173,050	3/4	188,038	3/4	203,000	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,339	8	173,363	8	188,350	8	203,310	8		8		8		8		8		8	
1/4	158,652	1/4	173,676	1/4	188,662	1/4	203,620	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,965	1/2	173,989	1/2	188,974	1/2	203,930	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,278	3/4	174,302	3/4	189,286	3/4	204,240	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,591	9	174,615	9	189,598	9	204,550	9		9		9		9		9		9	
1/4	159,904	1/4	174,928	1/4	189,911	1/4	204,860	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,217	1/2	175,241	1/2	190,223	1/2	205,170	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,530	3/4	175,553	3/4	190,535	3/4	205,480	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,843	10	175,866	10	190,847	10	205,790	10		10		10		10		10		10	
1/4	161,156	1/4	176,178	1/4	191,159	1/4	206,100	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,469	1/2	176,490	1/2	191,471	1/2	206,410	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,782	3/4	176,802	3/4	191,783	3/4	206,719	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,095	11	177,114	11	192,095	11	207,029	11		11		11		11		11		11	
1/4	162,408	1/4	177,426	1/4	192,407	1/4	207,335	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,721	1/2	177,738	1/2	192,719	1/2	207,641	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,034	3/4	178,050	3/4	193,032	3/4	207,946	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

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



# BARGE "HSM 3060"

# 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	385	0	13,255	0	28,186	0	43,213	0	58,236	0	73,260	0	88,288	0	103,315	0	118,338	0	133,359
1/4	562	1/4	13,557	1/4	28,499	1/4	43,526	1/4	58,549	1/4	73,574	1/4	88,601	1/4	103,629	1/4	118,651	1/4	133,672
1/2	739	1/2	13,858	1/2	28,812	1/2	43,839	1/2	58,861	1/2	73,887	1/2	88,914	1/2	103,942	1/2	118,964	1/2	133,985
3/4	916	3/4	14,160	3/4	29,125	3/4	44,152	3/4	59,174	3/4	74,200	3/4	89,227	3/4	104,255	3/4	119,277	3/4	134,298
1	1,093	1	14,461	1	29,438	1	44,465	1	59,487	1	74,513	1	89,540	1	104,568	1	119,590	1	134,611
1/4	1,332	1/4	14,767	1/4	29,751	1/4	44,778	1/4	59,800	1/4	74,826	1/4	89,853	1/4	104,881	1/4	119,903	1/4	134,924
1/2	1,571	1/2	15,072	1/2	30,065	1/2	45,092	1/2	60,113	1/2	75,139	1/2	90,166	1/2	105,194	1/2	120,216	1/2	135,237
3/4	1,810	3/4	15,378	3/4	30,378	3/4	45,405	3/4	60,426	3/4	75,452	3/4	90,479	3/4	105,507	3/4	120,529	3/4	135,550
2	2,048	2	15,683	2	30,691	2	45,718	2	60,739	2	75,765	2	90,793	2	105,820	2	120,842	2	135,863
1/4	2,310	1/4	15,992	1/4	31,004	1/4	46,031	1/4	61,051	1/4	76,078	1/4	91,106	1/4	106,133	1/4	121,155	1/4	136,176
1/2	2,572	1/2	16,301	1/2	31,317	1/2	46,344	1/2	61,364	1/2	76,391	1/2	91,419	1/2	106,446	1/2	121,468	1/2	136,489
3/4	2,834	3/4	16,611	3/4	31,630	3/4	46,657	3/4	61,677	3/4	76,704	3/4	91,732	3/4	106,759	3/4	121,781	3/4	136,802
3	3,096	3	16,920	3	31,943	3	46,970	3	61,990	3	77,017	3	92,045	3	107,072	3	122,094	3	137,115
1/4	3,363	1/4	17,232	1/4	32,256	1/4	47,283	1/4	62,303	1/4	77,330	1/4	92,358	1/4	107,385	1/4	122,406	1/4	137,427
1/2	3,629	1/2	17,544	1/2	32,569	1/2	47,596	1/2	62,616	1/2	77,644	1/2	92,671	1/2	107,698	1/2	122,719	1/2	137,740
3/4	3,896	3/4	17,856	3/4	32,882	3/4	47,909	3/4	62,929	3/4	77,957	3/4	92,984	3/4	108,011	3/4	123,032	3/4	138,053
4	4,163	4	18,168	4	33,195	4	48,222	4	63,242	4	78,270	4	93,297	4	108,324	4	123,345	4	138,366
1/4	4,433	1/4	18,481	1/4	33,508	1/4	48,535	1/4	63,555	1/4	78,583	1/4	93,610	1/4	108,637	1/4	123,658	1/4	138,679
1/2	4,704	1/2	18,794	1/2	33,821	1/2	48,848	1/2	63,868	1/2	78,896	1/2	93,923	1/2	108,950	1/2	123,971	1/2	138,992
3/4	4,974	3/4	19,107	3/4	34,134	3/4	49,161	3/4	64,181	3/4	79,209	3/4	94,236	3/4	109,263	3/4	124,284	3/4	139,305
5	5,245	5	19,420	5	34,447	5	49,474	5	64,494	5	79,522	5	94,549	5	109,576	5	124,597	5	139,618
1/4	5,520	1/4	19,733	1/4	34,760	1/4	49,787	1/4	64,808	1/4	79,835	1/4	94,862	1/4	109,889	1/4	124,910	1/4	139,931
1/2	5,794	1/2	20,047	1/2	35,074	1/2	50,101	1/2	65,121	1/2	80,148	1/2	95,176	1/2	110,202	1/2	125,223	1/2	140,244
3/4	6,069	3/4	20,360	3/4	35,387	3/4	50,414	3/4	65,434	3/4	80,461	3/4	95,489	3/4	110,515	3/4	125,536	3/4	140,557
6	6,343	6	20,673	6	35,700	6	50,727	6	65,747	6	80,774	6	95,802	6	110,828	6	125,849	6	140,870
1/4	6,622	1/4	20,986	1/4	36,013	1/4	51,040	1/4	66,060	1/4	81,087	1/4	96,115	1/4	111,141	1/4	126,162	1/4	141,183
1/2	6,900	1/2	21,299	1/2	36,326	1/2	51,353	1/2	66,373	1/2	81,400	1/2	96,428	1/2	111,454	1/2	126,475	1/2	141,496
3/4	7,178	3/4	21,612	3/4	36,639	3/4	51,666	3/4	66,686	3/4	81,713	3/4	96,741	3/4	111,767	3/4	126,788	3/4	141,809
7	7,457	7	21,925	7	36,952	7	51,979	7	66,999	7	82,027	7	97,054	7	112,080	7	127,101	7	142,122
1/4	7,739	1/4	22,238	1/4	37,265	1/4	52,292	1/4	67,312	1/4	82,340	1/4	97,367	1/4	112,393	1/4	127,413	1/4	142,435
1/2	8,021	1/2	22,551	1/2	37,578	1/2	52,605	1/2	67,625	1/2	82,653	1/2	97,680	1/2	112,705	1/2	127,726	1/2	142,747
3/4	8,303	3/4	22,864	3/4	37,891	3/4	52,917	3/4	67,938	3/4	82,966	3/4	97,993	3/4	113,018	3/4	128,039	3/4	143,060
8	8,586	8	23,177	8	38,204	8	53,230	8	68,251	8	83,279	8	98,306	8	113,331	8	128,352	8	143,373
1/4	8,872	1/4	23,490	1/4	38,517	1/4	53,543	1/4	68,564	1/4	83,592	1/4	98,619	1/4	113,644	1/4	128,665	1/4	143,686
1/2	9,158	1/2	23,803	1/2	38,830	1/2	53,856	1/2	68,877	1/2	83,905	1/2	98,932	1/2	113,957	1/2	128,978	1/2	143,999
3/4	9,444	3/4	24,116	3/4	39,143	3/4	54,169	3/4	69,191	3/4	84,218	3/4	99,246	3/4	114,270	3/4	129,291	3/4	144,312
9	9,730	9	24,429	9	39,456	9	54,482	9	69,504	9	84,531	9	99,559	9	114,583	9	129,604	9	144,625
1/4	10,020	1/4	24,742	1/4	39,769	1/4	54,795	1/4	69,817	1/4	84,844	1/4	99,872	1/4	114,896	1/4	129,917	1/4	144,938
1/2	10,310	1/2	25,056	1/2	40,083	1/2	55,107	1/2	70,130	1/2	85,157	1/2	100,185	1/2	115,209	1/2	130,230	1/2	145,251
3/4	10,600	3/4	25,369	3/4	40,396	3/4	55,420	3/4	70,443	3/4	85,470	3/4	100,498	3/4	115,522	3/4	130,543	3/4	145,564
10	10,890	10	25,682	10	40,709	10	55,733	10	70,756	10	85,783	10	100,811	10	115,835	10	130,856	10	145,877
1/4	11,184	1/4	25,995	1/4	41,022	1/4	56,046	1/4	71,069	1/4	86,096	1/4	101,124	1/4	116,148	1/4	131,169	1/4	146,190
1/2	11,477	1/2	26,308	1/2	41,335	1/2	56,359	1/2	71,382	1/2	86,410	1/2	101,437	1/2	116,461	1/2	131,482	1/2	146,503
3/4	11,771	3/4	26,621	3/4	41,648	3/4	56,672	3/4	71,695	3/4	86,723	3/4	101,750	3/4	116,774	3/4	131,795	3/4	146,816
11	12,065	11	26,934	11	41,961	11	56,984	11	72,008	11	87,036	11	102,063	11	117,087	11	132,108	11	147,129
1/4	12,363	1/4	27,247	1/4	42,274	1/4	57,297	1/4	72,321	1/4	87,349	1/4	102,376	1/4	117,399	1/4	132,420	1/4	147,442
1/2	12,660	1/2	27,560	1/2	42,587	1/2	57,610	1/2	72,634	1/2	87,662	1/2	102,689	1/2	117,712	1/2	132,733	1/2	147,755
3/4	12,958	3/4	27,873	3/4	42,900	3/4	57,923	3/4	72,947	3/4	87,975	3/4	103,002	3/4	118,025	3/4	133,046	3/4	148,067

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HSM 3060"

**1 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,380	0	163,402	0	178,414	0	193,391	0	208,296	0		0		0		0		0	
1/4	148,693	1/4	163,715	1/4	178,726	1/4	193,703	1/4	208,576	1/4		1/4		1/4		1/4		1/4	
1/2	149,006	1/2	164,028	1/2	179,038	1/2	194,015	1/2	208,856	1/2		1/2		1/2		1/2		1/2	
3/4	149,319	3/4	164,340	3/4	179,350	3/4	194,327	3/4	209,137	3/4		3/4		3/4		3/4		3/4	
1	149,632	1	164,653	1	179,662	1	194,639	1	209,417	1		1		1		1		1	
1/4	149,945	1/4	164,966	1/4	179,974	1/4	194,951	1/4	209,649	1/4		1/4		1/4		1/4		1/4	
1/2	150,258	1/2	165,279	1/2	180,286	1/2	195,263	1/2	209,880	1/2		1/2		1/2		1/2		1/2	
3/4	150,571	3/4	165,592	3/4	180,598	3/4	195,575	3/4	210,112	3/4		3/4		3/4		3/4		3/4	
2	150,884	2	165,905	2	180,910	2	195,887	2	210,344	2		2		2		2		2	
1/4	151,197	1/4	166,218	1/4	181,222	1/4	196,199	1/4	210,523	1/4		1/4		1/4		1/4		1/4	
1/2	151,510	1/2	166,531	1/2	181,534	1/2	196,511	1/2	210,703	1/2		1/2		1/2		1/2		1/2	
3/4	151,823	3/4	166,844	3/4	181,846	3/4	196,823	3/4	210,883	3/4		3/4		3/4		3/4		3/4	
3	152,136	3	167,157	3	182,158	3	197,135	3	211,062	3		3		3		3		3	
1/4	152,449	1/4	167,470	1/4	182,470	1/4	197,448	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,762	1/2	167,783	1/2	182,782	1/2	197,760	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,075	3/4	168,096	3/4	183,094	3/4	198,072	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,388	4	168,409	4	183,406	4	198,384	4		4		4		4		4		4	
1/4	153,700	1/4	168,722	1/4	183,718	1/4	198,696	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,013	1/2	169,035	1/2	184,030	1/2	199,008	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,326	3/4	169,348	3/4	184,342	3/4	199,320	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,639	5	169,660	5	184,654	5	199,632	5		5		5		5		5		5	
1/4	154,952	1/4	169,973	1/4	184,966	1/4	199,943	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,265	1/2	170,286	1/2	185,278	1/2	200,254	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,578	3/4	170,599	3/4	185,590	3/4	200,565	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,891	6	170,912	6	185,902	6	200,876	6		6		6		6		6		6	
1/4	156,204	1/4	171,225	1/4	186,214	1/4	201,185	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,517	1/2	171,538	1/2	186,527	1/2	201,495	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,830	3/4	171,851	3/4	186,839	3/4	201,805	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,143	7	172,164	7	187,151	7	202,115	7		7		7		7		7		7	
1/4	157,456	1/4	172,477	1/4	187,463	1/4	202,425	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,769	1/2	172,790	1/2	187,775	1/2	202,735	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,082	3/4	173,103	3/4	188,087	3/4	203,045	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,395	8	173,416	8	188,399	8	203,355	8		8		8		8		8		8	
1/4	158,708	1/4	173,729	1/4	188,711	1/4	203,665	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,020	1/2	174,042	1/2	189,023	1/2	203,975	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,333	3/4	174,355	3/4	189,335	3/4	204,285	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,646	9	174,668	9	189,647	9	204,595	9		9		9		9		9		9	
1/4	159,959	1/4	174,980	1/4	189,959	1/4	204,905	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,272	1/2	175,293	1/2	190,271	1/2	205,215	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,585	3/4	175,605	3/4	190,583	3/4	205,525	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,898	10	175,918	10	190,895	10	205,835	10		10		10		10		10		10	
1/4	161,211	1/4	176,230	1/4	191,207	1/4	206,144	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,524	1/2	176,542	1/2	191,519	1/2	206,454	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,837	3/4	176,854	3/4	191,831	3/4	206,763	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,150	11	177,166	11	192,143	11	207,073	11		11		11		11		11		11	
1/4	162,463	1/4	177,478	1/4	192,455	1/4	207,379	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,776	1/2	177,790	1/2	192,767	1/2	207,685	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,089	3/4	178,102	3/4	193,079	3/4	207,990	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3060"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	1,032	0	15,698	0	30,764	0	45,457	0	59,945	0	74,801	0	89,869	0	104,937	0	120,000	0	135,060
1/4	1,267	1/4	16,012	1/4	31,077	1/4	45,759	1/4	60,248	1/4	75,115	1/4	90,183	1/4	105,251	1/4	120,313	1/4	135,374
1/2	1,503	1/2	16,326	1/2	31,391	1/2	46,060	1/2	60,550	1/2	75,429	1/2	90,497	1/2	105,565	1/2	120,627	1/2	135,688
3/4	1,738	3/4	16,640	3/4	31,705	3/4	46,361	3/4	60,852	3/4	75,743	3/4	90,811	3/4	105,879	3/4	120,941	3/4	136,001
1	1,973	1	16,954	1	32,019	1	46,662	1	61,154	1	76,057	1	91,125	1	106,193	1	121,255	1	136,315
1/4	2,267	1/4	17,268	1/4	32,333	1/4	46,963	1/4	61,456	1/4	76,371	1/4	91,439	1/4	106,507	1/4	121,568	1/4	136,629
1/2	2,560	1/2	17,582	1/2	32,647	1/2	47,265	1/2	61,758	1/2	76,685	1/2	91,753	1/2	106,821	1/2	121,882	1/2	136,943
3/4	2,854	3/4	17,896	3/4	32,961	3/4	47,566	3/4	62,060	3/4	76,999	3/4	92,067	3/4	107,135	3/4	122,196	3/4	137,256
2	3,147	2	18,210	2	33,275	2	47,867	2	62,363	2	77,313	2	92,381	2	107,448	2	122,510	2	137,570
1/4	3,460	1/4	18,524	1/4	33,589	1/4	48,168	1/4	62,665	1/4	77,627	1/4	92,695	1/4	107,762	1/4	122,823	1/4	137,884
1/2	3,773	1/2	18,837	1/2	33,903	1/2	48,470	1/2	62,967	1/2	77,941	1/2	93,008	1/2	108,076	1/2	123,137	1/2	138,198
3/4	4,086	3/4	19,151	3/4	34,216	3/4	48,771	3/4	63,269	3/4	78,254	3/4	93,322	3/4	108,390	3/4	123,451	3/4	138,511
3	4,399	3	19,465	3	34,530	3	49,072	3	63,571	3	78,568	3	93,636	3	108,704	3	123,765	3	138,825
1/4	4,713	1/4	19,779	1/4	34,844	1/4	49,374	1/4	63,873	1/4	78,882	1/4	93,950	1/4	109,018	1/4	124,079	1/4	139,139
1/2	5,026	1/2	20,093	1/2	35,158	1/2	49,675	1/2	64,175	1/2	79,196	1/2	94,264	1/2	109,332	1/2	124,392	1/2	139,453
3/4	5,340	3/4	20,407	3/4	35,472	3/4	49,977	3/4	64,478	3/4	79,510	3/4	94,578	3/4	109,646	3/4	124,706	3/4	139,766
4	5,654	4	20,721	4	35,786	4	50,278	4	64,780	4	79,824	4	94,892	4	109,959	4	125,020	4	140,080
1/4	5,967	1/4	21,035	1/4	36,094	1/4	50,580	1/4	65,088	1/4	80,138	1/4	95,206	1/4	110,273	1/4	125,334	1/4	140,394
1/2	6,281	1/2	21,349	1/2	36,402	1/2	50,882	1/2	65,396	1/2	80,452	1/2	95,520	1/2	110,587	1/2	125,647	1/2	140,708
3/4	6,595	3/4	21,663	3/4	36,710	3/4	51,184	3/4	65,704	3/4	80,766	3/4	95,834	3/4	110,901	3/4	125,961	3/4	141,021
5	6,909	5	21,976	5	37,018	5	51,485	5	66,012	5	81,080	5	96,148	5	111,215	5	126,275	5	141,335
1/4	7,223	1/4	22,290	1/4	37,320	1/4	51,787	1/4	66,326	1/4	81,394	1/4	96,461	1/4	111,528	1/4	126,589	1/4	141,649
1/2	7,537	1/2	22,604	1/2	37,622	1/2	52,090	1/2	66,640	1/2	81,708	1/2	96,775	1/2	111,842	1/2	126,902	1/2	141,963
3/4	7,851	3/4	22,918	3/4	37,924	3/4	52,392	3/4	66,954	3/4	82,021	3/4	97,089	3/4	112,156	3/4	127,216	3/4	142,276
6	8,165	6	23,232	6	38,227	6	52,694	6	67,268	6	82,335	6	97,403	6	112,470	6	127,530	6	142,590
1/4	8,479	1/4	23,546	1/4	38,528	1/4	52,996	1/4	67,581	1/4	82,649	1/4	97,717	1/4	112,783	1/4	127,844	1/4	142,904
1/2	8,792	1/2	23,860	1/2	38,830	1/2	53,298	1/2	67,895	1/2	82,963	1/2	98,031	1/2	113,097	1/2	128,157	1/2	143,218
3/4	9,106	3/4	24,174	3/4	39,132	3/4	53,600	3/4	68,209	3/4	83,277	3/4	98,345	3/4	113,411	3/4	128,471	3/4	143,531
7	9,420	7	24,488	7	39,433	7	53,902	7	68,523	7	83,591	7	98,659	7	113,725	7	128,785	7	143,845
1/4	9,734	1/4	24,802	1/4	39,734	1/4	54,205	1/4	68,837	1/4	83,905	1/4	98,973	1/4	114,038	1/4	129,099	1/4	144,159
1/2	10,048	1/2	25,116	1/2	40,036	1/2	54,507	1/2	69,151	1/2	84,219	1/2	99,287	1/2	114,352	1/2	129,412	1/2	144,473
3/4	10,362	3/4	25,429	3/4	40,337	3/4	54,809	3/4	69,465	3/4	84,533	3/4	99,601	3/4	114,666	3/4	129,726	3/4	144,786
8	10,676	8	25,743	8	40,638	8	55,111	8	69,779	8	84,847	8	99,915	8	114,980	8	130,040	8	145,100
1/4	10,990	1/4	26,057	1/4	40,939	1/4	55,413	1/4	70,093	1/4	85,161	1/4	100,228	1/4	115,293	1/4	130,354	1/4	145,414
1/2	11,304	1/2	26,371	1/2	41,241	1/2	55,715	1/2	70,407	1/2	85,475	1/2	100,542	1/2	115,607	1/2	130,667	1/2	145,728
3/4	11,618	3/4	26,685	3/4	41,542	3/4	56,018	3/4	70,721	3/4	85,788	3/4	100,856	3/4	115,921	3/4	130,981	3/4	146,041
9	11,932	9	26,999	9	41,843	9	56,320	9	71,034	9	86,102	9	101,170	9	116,235	9	131,295	9	146,355
1/4	12,245	1/4	27,312	1/4	42,144	1/4	56,622	1/4	71,348	1/4	86,416	1/4	101,484	1/4	116,548	1/4	131,609	1/4	146,669
1/2	12,559	1/2	27,626	1/2	42,445	1/2	56,924	1/2	71,662	1/2	86,730	1/2	101,798	1/2	116,862	1/2	131,922	1/2	146,983
3/4	12,873	3/4	27,940	3/4	42,747	3/4	57,226	3/4	71,976	3/4	87,044	3/4	102,112	3/4	117,176	3/4	132,236	3/4	147,296
10	13,187	10	28,253	10	43,048	10	57,528	10	72,290	10	87,358	10	102,426	10	117,490	10	132,550	10	147,610
1/4	13,501	1/4	28,567	1/4	43,349	1/4	57,830	1/4	72,604	1/4	87,672	1/4	102,740	1/4	117,803	1/4	132,864	1/4	147,924
1/2	13,815	1/2	28,881	1/2	43,650	1/2	58,133	1/2	72,918	1/2	87,986	1/2	103,054	1/2	118,117	1/2	133,177	1/2	148,238
3/4	14,129	3/4	29,194	3/4	43,951	3/4	58,435	3/4	73,232	3/4	88,300	3/4	103,368	3/4	118,431	3/4	133,491	3/4	148,552
11	14,443	11	29,508	11	44,253	11	58,737	11	73,546	11	88,614	11	103,682	11	118,745	11	133,805	11	148,865
1/4	14,757	1/4	29,822	1/4	44,554	1/4	59,039	1/4	73,860	1/4	88,928	1/4	103,995	1/4	119,058	1/4	134,119	1/4	149,179
1/2	15,071	1/2	30,136	1/2	44,855	1/2	59,341	1/2	74,174	1/2	89,241	1/2	104,309	1/2	119,372	1/2	134,432	1/2	149,493
3/4	15,384	3/4	30,450	3/4	45,156	3/4	59,643	3/4	74,488	3/4	89,555	3/4	104,623	3/4	119,686	3/4	134,746	3/4	149,807

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

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



# BARGE "HSM 3060"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	150,120	0	165,181	0	180,230	0	195,239	0	210,152	0		0		0		0		0	
1/4	150,434	1/4	165,494	1/4	180,543	1/4	195,552	1/4	210,432	1/4		1/4		1/4		1/4		1/4	
1/2	150,748	1/2	165,808	1/2	180,856	1/2	195,865	1/2	210,711	1/2		1/2		1/2		1/2		1/2	
3/4	151,062	3/4	166,122	3/4	181,168	3/4	196,178	3/4	210,991	3/4		3/4		3/4		3/4		3/4	
1	151,375	1	166,436	1	181,481	1	196,490	1	211,271	1		1		1		1		1	
1/4	151,689	1/4	166,749	1/4	181,794	1/4	196,803	1/4	211,502	1/4		1/4		1/4		1/4		1/4	
1/2	152,003	1/2	167,063	1/2	182,106	1/2	197,116	1/2	211,733	1/2		1/2		1/2		1/2		1/2	
3/4	152,317	3/4	167,377	3/4	182,419	3/4	197,428	3/4	211,965	3/4		3/4		3/4		3/4		3/4	
2	152,630	2	167,691	2	182,732	2	197,741	2	212,196	2		2		2		2		2	
1/4	152,944	1/4	168,004	1/4	183,044	1/4	198,054	1/4	212,375	1/4		1/4		1/4		1/4		1/4	
1/2	153,258	1/2	168,318	1/2	183,357	1/2	198,366	1/2	212,554	1/2		1/2		1/2		1/2		1/2	
3/4	153,572	3/4	168,632	3/4	183,670	3/4	198,679	3/4	212,733	3/4		3/4		3/4		3/4		3/4	
3	153,885	3	168,946	3	183,983	3	198,992	3	212,912	3		3		3		3		3	
1/4	154,199	1/4	169,259	1/4	184,295	1/4	199,304	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,513	1/2	169,573	1/2	184,608	1/2	199,617	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,827	3/4	169,887	3/4	184,921	3/4	199,930	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,140	4	170,201	4	185,233	4	200,242	4		4		4		4		4		4	
1/4	155,454	1/4	170,514	1/4	185,546	1/4	200,555	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,768	1/2	170,828	1/2	185,859	1/2	200,868	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,082	3/4	171,142	3/4	186,171	3/4	201,181	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,395	5	171,456	5	186,484	5	201,493	5		5		5		5		5		5	
1/4	156,709	1/4	171,769	1/4	186,797	1/4	201,804	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,023	1/2	172,083	1/2	187,109	1/2	202,116	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,337	3/4	172,397	3/4	187,422	3/4	202,427	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,650	6	172,711	6	187,735	6	202,738	6		6		6		6		6		6	
1/4	157,964	1/4	173,024	1/4	188,048	1/4	203,047	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,278	1/2	173,338	1/2	188,360	1/2	203,357	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,592	3/4	173,652	3/4	188,673	3/4	203,667	3/4		3/4		3/4		3/4		3/4		3/4	
7	158,905	7	173,966	7	188,986	7	203,976	7		7		7		7		7		7	
1/4	159,219	1/4	174,280	1/4	189,298	1/4	204,286	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,533	1/2	174,593	1/2	189,611	1/2	204,596	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,847	3/4	174,907	3/4	189,924	3/4	204,905	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,160	8	175,221	8	190,236	8	205,215	8		8		8		8		8		8	
1/4	160,474	1/4	175,535	1/4	190,549	1/4	205,525	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,788	1/2	175,848	1/2	190,862	1/2	205,834	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,102	3/4	176,162	3/4	191,174	3/4	206,144	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,416	9	176,476	9	191,487	9	206,454	9		9		9		9		9		9	
1/4	161,729	1/4	176,789	1/4	191,800	1/4	206,764	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,043	1/2	177,102	1/2	192,113	1/2	207,073	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,357	3/4	177,415	3/4	192,425	3/4	207,383	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,671	10	177,729	10	192,738	10	207,693	10		10		10		10		10		10	
1/4	162,984	1/4	178,041	1/4	193,051	1/4	208,002	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,298	1/2	178,354	1/2	193,363	1/2	208,311	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,612	3/4	178,667	3/4	193,676	3/4	208,620	3/4		3/4		3/4		3/4		3/4		3/4	
11	163,926	11	178,979	11	193,989	11	208,930	11		11		11		11		11		11	
1/4	164,239	1/4	179,292	1/4	194,301	1/4	209,235	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,553	1/2	179,605	1/2	194,614	1/2	209,541	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,867	3/4	179,918	3/4	194,927	3/4	209,846	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3060"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	1,032	0	15,699	0	30,765	0	45,812	0	60,865	0	75,933	0	91,001	0	106,068	0	121,131	0	136,191
1/4	1,267	1/4	16,013	1/4	31,078	1/4	46,125	1/4	61,179	1/4	76,247	1/4	91,314	1/4	106,382	1/4	121,445	1/4	136,505
1/2	1,503	1/2	16,327	1/2	31,392	1/2	46,438	1/2	61,493	1/2	76,561	1/2	91,628	1/2	106,696	1/2	121,758	1/2	136,819
3/4	1,738	3/4	16,641	3/4	31,706	3/4	46,751	3/4	61,807	3/4	76,874	3/4	91,942	3/4	107,010	3/4	122,072	3/4	137,133
1	1,974	1	16,955	1	32,020	1	47,064	1	62,120	1	77,188	1	92,256	1	107,324	1	122,386	1	137,446
1/4	2,267	1/4	17,269	1/4	32,334	1/4	47,377	1/4	62,434	1/4	77,502	1/4	92,570	1/4	107,638	1/4	122,700	1/4	137,760
1/2	2,561	1/2	17,582	1/2	32,648	1/2	47,690	1/2	62,748	1/2	77,816	1/2	92,884	1/2	107,952	1/2	123,013	1/2	138,074
3/4	2,854	3/4	17,896	3/4	32,962	3/4	48,003	3/4	63,062	3/4	78,130	3/4	93,198	3/4	108,266	3/4	123,327	3/4	138,388
2	3,148	2	18,210	2	33,276	2	48,316	2	63,376	2	78,444	2	93,512	2	108,580	2	123,641	2	138,701
1/4	3,460	1/4	18,524	1/4	33,590	1/4	48,629	1/4	63,690	1/4	78,758	1/4	93,826	1/4	108,894	1/4	123,955	1/4	139,015
1/2	3,773	1/2	18,838	1/2	33,904	1/2	48,942	1/2	64,004	1/2	79,072	1/2	94,140	1/2	109,208	1/2	124,269	1/2	139,329
3/4	4,086	3/4	19,152	3/4	34,218	3/4	49,255	3/4	64,318	3/4	79,386	3/4	94,454	3/4	109,521	3/4	124,582	3/4	139,643
3	4,399	3	19,466	3	34,531	3	49,568	3	64,632	3	79,700	3	94,768	3	109,835	3	124,896	3	139,956
1/4	4,713	1/4	19,780	1/4	34,845	1/4	49,881	1/4	64,946	1/4	80,014	1/4	95,081	1/4	110,149	1/4	125,210	1/4	140,270
1/2	5,027	1/2	20,094	1/2	35,159	1/2	50,195	1/2	65,260	1/2	80,327	1/2	95,395	1/2	110,463	1/2	125,524	1/2	140,584
3/4	5,340	3/4	20,408	3/4	35,473	3/4	50,508	3/4	65,574	3/4	80,641	3/4	95,709	3/4	110,777	3/4	125,837	3/4	140,898
4	5,654	4	20,722	4	35,787	4	50,821	4	65,887	4	80,955	4	96,023	4	111,091	4	126,151	4	141,211
1/4	5,968	1/4	21,036	1/4	36,101	1/4	51,135	1/4	66,201	1/4	81,269	1/4	96,337	1/4	111,404	1/4	126,465	1/4	141,525
1/2	6,282	1/2	21,349	1/2	36,415	1/2	51,448	1/2	66,515	1/2	81,583	1/2	96,651	1/2	111,718	1/2	126,779	1/2	141,839
3/4	6,596	3/4	21,663	3/4	36,729	3/4	51,762	3/4	66,829	3/4	81,897	3/4	96,965	3/4	112,032	3/4	127,092	3/4	142,153
5	6,909	5	21,977	5	37,043	5	52,075	5	67,143	5	82,211	5	97,279	5	112,346	5	127,406	5	142,466
1/4	7,223	1/4	22,291	1/4	37,357	1/4	52,389	1/4	67,457	1/4	82,525	1/4	97,593	1/4	112,660	1/4	127,720	1/4	142,780
1/2	7,537	1/2	22,605	1/2	37,671	1/2	52,703	1/2	67,771	1/2	82,839	1/2	97,907	1/2	112,973	1/2	128,034	1/2	143,094
3/4	7,851	3/4	22,919	3/4	37,985	3/4	53,017	3/4	68,085	3/4	83,153	3/4	98,221	3/4	113,287	3/4	128,347	3/4	143,408
6	8,165	6	23,233	6	38,298	6	53,331	6	68,399	6	83,467	6	98,534	6	113,601	6	128,661	6	143,721
1/4	8,479	1/4	23,547	1/4	38,612	1/4	53,645	1/4	68,713	1/4	83,781	1/4	98,848	1/4	113,915	1/4	128,975	1/4	144,035
1/2	8,793	1/2	23,861	1/2	38,925	1/2	53,959	1/2	69,027	1/2	84,094	1/2	99,162	1/2	114,228	1/2	129,289	1/2	144,349
3/4	9,107	3/4	24,175	3/4	39,239	3/4	54,273	3/4	69,341	3/4	84,408	3/4	99,476	3/4	114,542	3/4	129,602	3/4	144,663
7	9,421	7	24,489	7	39,552	7	54,587	7	69,654	7	84,722	7	99,790	7	114,856	7	129,916	7	144,976
1/4	9,735	1/4	24,802	1/4	39,865	1/4	54,900	1/4	69,968	1/4	85,036	1/4	100,104	1/4	115,170	1/4	130,230	1/4	145,290
1/2	10,049	1/2	25,116	1/2	40,178	1/2	55,214	1/2	70,282	1/2	85,350	1/2	100,418	1/2	115,483	1/2	130,544	1/2	145,604
3/4	10,362	3/4	25,430	3/4	40,491	3/4	55,528	3/4	70,596	3/4	85,664	3/4	100,732	3/4	115,797	3/4	130,857	3/4	145,918
8	10,676	8	25,744	8	40,804	8	55,842	8	70,910	8	85,978	8	101,046	8	116,111	8	131,171	8	146,231
1/4	10,990	1/4	26,058	1/4	41,117	1/4	56,156	1/4	71,224	1/4	86,292	1/4	101,360	1/4	116,425	1/4	131,485	1/4	146,545
1/2	11,304	1/2	26,372	1/2	41,430	1/2	56,470	1/2	71,538	1/2	86,606	1/2	101,674	1/2	116,738	1/2	131,799	1/2	146,859
3/4	11,618	3/4	26,686	3/4	41,743	3/4	56,784	3/4	71,852	3/4	86,920	3/4	101,988	3/4	117,052	3/4	132,112	3/4	147,173
9	11,932	9	27,000	9	42,056	9	57,098	9	72,166	9	87,234	9	102,301	9	117,366	9	132,426	9	147,486
1/4	12,246	1/4	27,313	1/4	42,369	1/4	57,412	1/4	72,480	1/4	87,548	1/4	102,615	1/4	117,680	1/4	132,740	1/4	147,800
1/2	12,560	1/2	27,627	1/2	42,682	1/2	57,726	1/2	72,794	1/2	87,861	1/2	102,929	1/2	117,993	1/2	133,054	1/2	148,114
3/4	12,874	3/4	27,941	3/4	42,995	3/4	58,040	3/4	73,107	3/4	88,175	3/4	103,243	3/4	118,307	3/4	133,367	3/4	148,428
10	13,188	10	28,254	10	43,308	10	58,354	10	73,421	10	88,489	10	103,557	10	118,621	10	133,681	10	148,742
1/4	13,502	1/4	28,568	1/4	43,621	1/4	58,667	1/4	73,735	1/4	88,803	1/4	103,871	1/4	118,935	1/4	133,995	1/4	149,055
1/2	13,816	1/2	28,882	1/2	43,934	1/2	58,981	1/2	74,049	1/2	89,117	1/2	104,185	1/2	119,248	1/2	134,309	1/2	149,369
3/4	14,129	3/4	29,195	3/4	44,247	3/4	59,295	3/4	74,363	3/4	89,431	3/4	104,499	3/4	119,562	3/4	134,622	3/4	149,683
11	14,443	11	29,509	11	44,560	11	59,609	11	74,677	11	89,745	11	104,813	11	119,876	11	134,936	11	149,997
1/4	14,757	1/4	29,823	1/4	44,873	1/4	59,923	1/4	74,991	1/4	90,059	1/4	105,127	1/4	120,190	1/4	135,250	1/4	150,310
1/2	15,071	1/2	30,137	1/2	45,186	1/2	60,237	1/2	75,305	1/2	90,373	1/2	105,441	1/2	120,503	1/2	135,564	1/2	150,624
3/4	15,385	3/4	30,451	3/4	45,499	3/4	60,551	3/4	75,619	3/4	90,687	3/4	105,755	3/4	120,817	3/4	135,877	3/4	150,938

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-3" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HSM 3060"

**2 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-10"

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	151,252	0	166,312	0	181,362	0	196,371	0	211,283	0		0		0		0		0	
1/4	151,565	1/4	166,626	1/4	181,674	1/4	196,683	1/4	211,563	1/4		1/4		1/4		1/4		1/4	
1/2	151,879	1/2	166,939	1/2	181,987	1/2	196,996	1/2	211,843	1/2		1/2		1/2		1/2		1/2	
3/4	152,193	3/4	167,253	3/4	182,300	3/4	197,309	3/4	212,123	3/4		3/4		3/4		3/4		3/4	
1	152,507	1	167,567	1	182,612	1	197,622	1	212,402	1		1		1		1		1	
1/4	152,820	1/4	167,881	1/4	182,925	1/4	197,934	1/4	212,634	1/4		1/4		1/4		1/4		1/4	
1/2	153,134	1/2	168,194	1/2	183,238	1/2	198,247	1/2	212,865	1/2		1/2		1/2		1/2		1/2	
3/4	153,448	3/4	168,508	3/4	183,550	3/4	198,560	3/4	213,096	3/4		3/4		3/4		3/4		3/4	
2	153,762	2	168,822	2	183,863	2	198,872	2	213,327	2		2		2		2		2	
1/4	154,075	1/4	169,136	1/4	184,176	1/4	199,185	1/4	213,506	1/4		1/4		1/4		1/4		1/4	
1/2	154,389	1/2	169,449	1/2	184,488	1/2	199,498	1/2	213,685	1/2		1/2		1/2		1/2		1/2	
3/4	154,703	3/4	169,763	3/4	184,801	3/4	199,810	3/4	213,864	3/4		3/4		3/4		3/4		3/4	
3	155,017	3	170,077	3	185,114	3	200,123	3	214,043	3		3		3		3		3	
1/4	155,330	1/4	170,391	1/4	185,427	1/4	200,436	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,644	1/2	170,704	1/2	185,739	1/2	200,748	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,958	3/4	171,018	3/4	186,052	3/4	201,061	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,272	4	171,332	4	186,365	4	201,374	4		4		4		4		4		4	
1/4	156,585	1/4	171,646	1/4	186,677	1/4	201,687	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,899	1/2	171,959	1/2	186,990	1/2	201,999	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,213	3/4	172,273	3/4	187,303	3/4	202,312	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,527	5	172,587	5	187,615	5	202,625	5		5		5		5		5		5	
1/4	157,840	1/4	172,901	1/4	187,928	1/4	202,936	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,154	1/2	173,215	1/2	188,241	1/2	203,247	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,468	3/4	173,528	3/4	188,553	3/4	203,558	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,782	6	173,842	6	188,866	6	203,869	6		6		6		6		6		6	
1/4	159,095	1/4	174,156	1/4	189,179	1/4	204,179	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,409	1/2	174,470	1/2	189,492	1/2	204,488	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,723	3/4	174,783	3/4	189,804	3/4	204,798	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,037	7	175,097	7	190,117	7	205,108	7		7		7		7		7		7	
1/4	160,351	1/4	175,411	1/4	190,430	1/4	205,417	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,664	1/2	175,725	1/2	190,742	1/2	205,727	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,978	3/4	176,038	3/4	191,055	3/4	206,037	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,292	8	176,352	8	191,368	8	206,346	8		8		8		8		8		8	
1/4	161,606	1/4	176,666	1/4	191,680	1/4	206,656	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,919	1/2	176,980	1/2	191,993	1/2	206,966	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,233	3/4	177,293	3/4	192,306	3/4	207,276	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,547	9	177,607	9	192,618	9	207,585	9		9		9		9		9		9	
1/4	162,861	1/4	177,920	1/4	192,931	1/4	207,895	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,174	1/2	178,234	1/2	193,244	1/2	208,205	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,488	3/4	178,547	3/4	193,557	3/4	208,514	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,802	10	178,860	10	193,869	10	208,824	10		10		10		10		10		10	
1/4	164,116	1/4	179,173	1/4	194,182	1/4	209,133	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,429	1/2	179,485	1/2	194,495	1/2	209,442	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,743	3/4	179,798	3/4	194,807	3/4	209,752	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,057	11	180,111	11	195,120	11	210,061	11		11		11		11		11		11	
1/4	165,371	1/4	180,423	1/4	195,433	1/4	210,366	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,684	1/2	180,736	1/2	195,745	1/2	210,672	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,998	3/4	181,049	3/4	196,058	3/4	210,978	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3060"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,025	0	15,580	0	30,518	0	45,227	0	59,735	0	74,594	0	89,509	0	104,436	0	119,353	0	134,267
1/4	1,258	1/4	15,891	1/4	30,829	1/4	45,528	1/4	60,046	1/4	74,903	1/4	89,820	1/4	104,747	1/4	119,664	1/4	134,577
1/2	1,492	1/2	16,202	1/2	31,140	1/2	45,829	1/2	60,356	1/2	75,212	1/2	90,131	1/2	105,058	1/2	119,974	1/2	134,888
3/4	1,726	3/4	16,514	3/4	31,451	3/4	46,129	3/4	60,667	3/4	75,521	3/4	90,441	3/4	105,369	3/4	120,285	3/4	135,199
1	1,960	1	16,825	1	31,762	1	46,430	1	60,978	1	75,831	1	90,752	1	105,680	1	120,596	1	135,509
1/4	2,251	1/4	17,136	1/4	32,074	1/4	46,731	1/4	61,289	1/4	76,140	1/4	91,063	1/4	105,991	1/4	120,906	1/4	135,820
1/2	2,543	1/2	17,447	1/2	32,385	1/2	47,032	1/2	61,600	1/2	76,449	1/2	91,374	1/2	106,302	1/2	121,217	1/2	136,131
3/4	2,834	3/4	17,759	3/4	32,696	3/4	47,333	3/4	61,911	3/4	76,758	3/4	91,685	3/4	106,613	3/4	121,528	3/4	136,441
2	3,126	2	18,070	2	33,007	2	47,634	2	62,222	2	77,068	2	91,996	2	106,924	2	121,839	2	136,752
1/4	3,436	1/4	18,381	1/4	33,319	1/4	47,935	1/4	62,532	1/4	77,378	1/4	92,307	1/4	107,235	1/4	122,149	1/4	137,063
1/2	3,747	1/2	18,692	1/2	33,630	1/2	48,237	1/2	62,842	1/2	77,688	1/2	92,618	1/2	107,546	1/2	122,460	1/2	137,374
3/4	4,058	3/4	19,004	3/4	33,941	3/4	48,538	3/4	63,152	3/4	77,998	3/4	92,928	3/4	107,857	3/4	122,771	3/4	137,684
3	4,369	3	19,315	3	34,252	3	48,840	3	63,462	3	78,308	3	93,239	3	108,167	3	123,081	3	137,995
1/4	4,680	1/4	19,626	1/4	34,563	1/4	49,141	1/4	63,771	1/4	78,620	1/4	93,550	1/4	108,478	1/4	123,392	1/4	138,306
1/2	4,991	1/2	19,937	1/2	34,874	1/2	49,442	1/2	64,080	1/2	78,931	1/2	93,861	1/2	108,789	1/2	123,703	1/2	138,616
3/4	5,303	3/4	20,249	3/4	35,185	3/4	49,744	3/4	64,389	3/4	79,242	3/4	94,172	3/4	109,100	3/4	124,013	3/4	138,927
4	5,614	4	20,560	4	35,495	4	50,045	4	64,699	4	79,553	4	94,483	4	109,411	4	124,324	4	139,238
1/4	5,926	1/4	20,871	1/4	35,802	1/4	50,347	1/4	65,008	1/4	79,864	1/4	94,794	1/4	109,721	1/4	124,635	1/4	139,548
1/2	6,237	1/2	21,182	1/2	36,109	1/2	50,648	1/2	65,317	1/2	80,175	1/2	95,104	1/2	110,032	1/2	124,946	1/2	139,859
3/4	6,548	3/4	21,493	3/4	36,417	3/4	50,949	3/4	65,626	3/4	80,487	3/4	95,415	3/4	110,343	3/4	125,256	3/4	140,170
5	6,860	5	21,805	5	36,724	5	51,251	5	65,936	5	80,798	5	95,726	5	110,653	5	125,567	5	140,480
1/4	7,171	1/4	22,116	1/4	37,028	1/4	51,552	1/4	66,245	1/4	81,109	1/4	96,037	1/4	110,964	1/4	125,878	1/4	140,791
1/2	7,483	1/2	22,427	1/2	37,331	1/2	51,854	1/2	66,554	1/2	81,420	1/2	96,348	1/2	111,275	1/2	126,188	1/2	141,101
3/4	7,794	3/4	22,738	3/4	37,635	3/4	52,155	3/4	66,863	3/4	81,731	3/4	96,659	3/4	111,585	3/4	126,499	3/4	141,412
6	8,106	6	23,050	6	37,939	6	52,456	6	67,172	6	82,042	6	96,970	6	111,896	6	126,810	6	141,722
1/4	8,417	1/4	23,361	1/4	38,243	1/4	52,758	1/4	67,482	1/4	82,354	1/4	97,281	1/4	112,207	1/4	127,120	1/4	142,028
1/2	8,729	1/2	23,672	1/2	38,547	1/2	53,059	1/2	67,791	1/2	82,665	1/2	97,592	1/2	112,518	1/2	127,431	1/2	142,334
3/4	9,041	3/4	23,983	3/4	38,851	3/4	53,361	3/4	68,100	3/4	82,976	3/4	97,903	3/4	112,828	3/4	127,742	3/4	142,640
7	9,352	7	24,295	7	39,155	7	53,662	7	68,409	7	83,287	7	98,214	7	113,139	7	128,053	7	142,946
1/4	9,664	1/4	24,606	1/4	39,459	1/4	53,964	1/4	68,719	1/4	83,598	1/4	98,525	1/4	113,450	1/4	128,363	1/4	143,240
1/2	9,976	1/2	24,917	1/2	39,763	1/2	54,265	1/2	69,028	1/2	83,910	1/2	98,836	1/2	113,760	1/2	128,674	1/2	143,533
3/4	10,287	3/4	25,228	3/4	40,067	3/4	54,566	3/4	69,337	3/4	84,221	3/4	99,147	3/4	114,071	3/4	128,985	3/4	143,827
8	10,599	8	25,540	8	40,371	8	54,868	8	69,646	8	84,532	8	99,458	8	114,382	8	129,295	8	144,121
1/4	10,911	1/4	25,851	1/4	40,675	1/4	55,169	1/4	69,955	1/4	84,843	1/4	99,769	1/4	114,692	1/4	129,606	1/4	144,398
1/2	11,222	1/2	26,162	1/2	40,979	1/2	55,471	1/2	70,265	1/2	85,154	1/2	100,080	1/2	115,003	1/2	129,917	1/2	144,676
3/4	11,534	3/4	26,473	3/4	41,283	3/4	55,772	3/4	70,574	3/4	85,465	3/4	100,391	3/4	115,314	3/4	130,227	3/4	144,953
9	11,845	9	26,784	9	41,587	9	56,073	9	70,883	9	85,777	9	100,703	9	115,625	9	130,538	9	145,231
1/4	12,156	1/4	27,095	1/4	41,891	1/4	56,376	1/4	71,192	1/4	86,088	1/4	101,014	1/4	115,935	1/4	130,849	1/4	145,493
1/2	12,467	1/2	27,406	1/2	42,195	1/2	56,679	1/2	71,502	1/2	86,399	1/2	101,325	1/2	116,246	1/2	131,160	1/2	145,755
3/4	12,779	3/4	27,718	3/4	42,498	3/4	56,982	3/4	71,811	3/4	86,710	3/4	101,636	3/4	116,557	3/4	131,470	3/4	146,017
10	13,090	10	28,029	10	42,802	10	57,285	10	72,120	10	87,021	10	101,947	10	116,867	10	131,781	10	146,279
1/4	13,401	1/4	28,340	1/4	43,106	1/4	57,590	1/4	72,429	1/4	87,332	1/4	102,258	1/4	117,178	1/4	132,092	1/4	146,525
1/2	13,712	1/2	28,651	1/2	43,410	1/2	57,895	1/2	72,738	1/2	87,643	1/2	102,569	1/2	117,489	1/2	132,402	1/2	146,772
3/4	14,024	3/4	28,962	3/4	43,714	3/4	58,199	3/4	73,048	3/4	87,954	3/4	102,880	3/4	117,799	3/4	132,713	3/4	147,018
11	14,335	11	29,273	11	44,018	11	58,504	11	73,357	11	88,265	11	103,191	11	118,110	11	133,024	11	147,265
1/4	14,646	1/4	29,584	1/4	44,320	1/4	58,811	1/4	73,666	1/4	88,576	1/4	103,503	1/4	118,421	1/4	133,334	1/4	147,495
1/2	14,957	1/2	29,895	1/2	44,623	1/2	59,119	1/2	73,975	1/2	88,887	1/2	103,814	1/2	118,732	1/2	133,645	1/2	147,725
3/4	15,269	3/4	30,206	3/4	44,925	3/4	59,427	3/4	74,285	3/4	89,198	3/4	104,125	3/4	119,042	3/4	133,956	3/4	147,955

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

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



# BARGE "HSM 3060"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	148,186	0	158,532	0	168,857	0	179,153	0	189,435	0		0		0		0		0	
1/4	148,404	1/4	158,747	1/4	169,072	1/4	179,368	1/4	189,627	1/4		1/4		1/4		1/4		1/4	
1/2	148,623	1/2	158,963	1/2	169,286	1/2	179,582	1/2	189,820	1/2		1/2		1/2		1/2		1/2	
3/4	148,842	3/4	159,178	3/4	169,501	3/4	179,797	3/4	190,012	3/4		3/4		3/4		3/4		3/4	
1	149,061	1	159,393	1	169,715	1	180,011	1	190,205	1		1		1		1		1	
1/4	149,276	1/4	159,609	1/4	169,930	1/4	180,226	1/4	190,364	1/4		1/4		1/4		1/4		1/4	
1/2	149,491	1/2	159,824	1/2	170,144	1/2	180,440	1/2	190,523	1/2		1/2		1/2		1/2		1/2	
3/4	149,707	3/4	160,039	3/4	170,359	3/4	180,655	3/4	190,682	3/4		3/4		3/4		3/4		3/4	
2	149,922	2	160,254	2	170,573	2	180,869	2	190,841	2		2		2		2		2	
1/4	150,137	1/4	160,470	1/4	170,788	1/4	181,084	1/4	190,964	1/4		1/4		1/4		1/4		1/4	
1/2	150,352	1/2	160,685	1/2	171,002	1/2	181,298	1/2	191,087	1/2		1/2		1/2		1/2		1/2	
3/4	150,568	3/4	160,900	3/4	171,217	3/4	181,513	3/4	191,211	3/4		3/4		3/4		3/4		3/4	
3	150,783	3	161,115	3	171,431	3	181,727	3	191,334	3		3		3		3		3	
1/4	150,998	1/4	161,331	1/4	171,646	1/4	181,942	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,213	1/2	161,546	1/2	171,860	1/2	182,156	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,429	3/4	161,761	3/4	172,075	3/4	182,371	3/4		3/4		3/4		3/4		3/4		3/4	
4	151,644	4	161,976	4	172,289	4	182,585	4		4		4		4		4		4	
1/4	151,859	1/4	162,192	1/4	172,504	1/4	182,800	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,074	1/2	162,407	1/2	172,718	1/2	183,014	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,290	3/4	162,622	3/4	172,933	3/4	183,229	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,505	5	162,837	5	173,147	5	183,443	5		5		5		5		5		5	
1/4	152,720	1/4	163,053	1/4	173,362	1/4	183,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,935	1/2	163,268	1/2	173,576	1/2	183,872	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,151	3/4	163,483	3/4	173,791	3/4	184,087	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,366	6	163,698	6	174,005	6	184,301	6		6		6		6		6		6	
1/4	153,581	1/4	163,914	1/4	174,220	1/4	184,516	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,797	1/2	164,129	1/2	174,434	1/2	184,730	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,012	3/4	164,344	3/4	174,649	3/4	184,945	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,227	7	164,560	7	174,863	7	185,159	7		7		7		7		7		7	
1/4	154,442	1/4	164,775	1/4	175,078	1/4	185,374	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,658	1/2	164,990	1/2	175,292	1/2	185,588	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,873	3/4	165,205	3/4	175,507	3/4	185,803	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,088	8	165,421	8	175,721	8	186,018	8		8		8		8		8		8	
1/4	155,303	1/4	165,636	1/4	175,936	1/4	186,232	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,519	1/2	165,851	1/2	176,150	1/2	186,447	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,734	3/4	166,066	3/4	176,365	3/4	186,661	3/4		3/4		3/4		3/4		3/4		3/4	
9	155,949	9	166,282	9	176,579	9	186,876	9		9		9		9		9		9	
1/4	156,164	1/4	166,496	1/4	176,794	1/4	187,091	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,380	1/2	166,711	1/2	177,008	1/2	187,305	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,595	3/4	166,926	3/4	177,223	3/4	187,520	3/4		3/4		3/4		3/4		3/4		3/4	
10	156,810	10	167,141	10	177,437	10	187,734	10		10		10		10		10		10	
1/4	157,025	1/4	167,356	1/4	177,652	1/4	187,948	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,241	1/2	167,570	1/2	177,866	1/2	188,163	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,456	3/4	167,785	3/4	178,081	3/4	188,377	3/4		3/4		3/4		3/4		3/4		3/4	
11	157,671	11	167,999	11	178,295	11	188,591	11		11		11		11		11		11	
1/4	157,886	1/4	168,214	1/4	178,510	1/4	188,802	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,102	1/2	168,428	1/2	178,724	1/2	189,013	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,317	3/4	168,643	3/4	178,939	3/4	189,224	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3060"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-09 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	1,025	0	15,599	0	30,571	0	45,526	0	60,497	0	75,469	0	90,442	0	105,414	0	120,370	0	135,322
1/4	1,259	1/4	15,911	1/4	30,883	1/4	45,838	1/4	60,809	1/4	75,781	1/4	90,754	1/4	105,726	1/4	120,681	1/4	135,633
1/2	1,493	1/2	16,223	1/2	31,195	1/2	46,150	1/2	61,121	1/2	76,093	1/2	91,065	1/2	106,038	1/2	120,993	1/2	135,945
3/4	1,727	3/4	16,535	3/4	31,506	3/4	46,461	3/4	61,433	3/4	76,405	3/4	91,377	3/4	106,350	3/4	121,304	3/4	136,256
1	1,961	1	16,847	1	31,818	1	46,773	1	61,745	1	76,717	1	91,689	1	106,662	1	121,616	1	136,568
1/4	2,253	1/4	17,158	1/4	32,130	1/4	47,085	1/4	62,057	1/4	77,029	1/4	92,001	1/4	106,973	1/4	121,927	1/4	136,879
1/2	2,544	1/2	17,470	1/2	32,442	1/2	47,397	1/2	62,369	1/2	77,341	1/2	92,313	1/2	107,285	1/2	122,239	1/2	137,191
3/4	2,836	3/4	17,782	3/4	32,754	3/4	47,708	3/4	62,681	3/4	77,653	3/4	92,625	3/4	107,597	3/4	122,550	3/4	137,502
2	3,127	2	18,094	2	33,066	2	48,020	2	62,992	2	77,965	2	92,937	2	107,909	2	122,862	2	137,814
1/4	3,438	1/4	18,406	1/4	33,378	1/4	48,332	1/4	63,304	1/4	78,277	1/4	93,249	1/4	108,220	1/4	123,173	1/4	138,125
1/2	3,749	1/2	18,718	1/2	33,690	1/2	48,644	1/2	63,616	1/2	78,589	1/2	93,561	1/2	108,532	1/2	123,485	1/2	138,437
3/4	4,060	3/4	19,030	3/4	34,002	3/4	48,956	3/4	63,928	3/4	78,901	3/4	93,873	3/4	108,843	3/4	123,796	3/4	138,748
3	4,371	3	19,342	3	34,314	3	49,268	3	64,240	3	79,212	3	94,185	3	109,155	3	124,108	3	139,060
1/4	4,683	1/4	19,654	1/4	34,625	1/4	49,580	1/4	64,552	1/4	79,524	1/4	94,497	1/4	109,467	1/4	124,419	1/4	139,371
1/2	4,994	1/2	19,966	1/2	34,937	1/2	49,892	1/2	64,864	1/2	79,836	1/2	94,809	1/2	109,778	1/2	124,731	1/2	139,683
3/4	5,306	3/4	20,278	3/4	35,249	3/4	50,204	3/4	65,176	3/4	80,148	3/4	95,120	3/4	110,090	3/4	125,042	3/4	139,994
4	5,618	4	20,590	4	35,560	4	50,516	4	65,488	4	80,460	4	95,432	4	110,401	4	125,354	4	140,306
1/4	5,930	1/4	20,901	1/4	35,872	1/4	50,828	1/4	65,800	1/4	80,772	1/4	95,744	1/4	110,713	1/4	125,665	1/4	140,617
1/2	6,242	1/2	21,213	1/2	36,183	1/2	51,139	1/2	66,112	1/2	81,084	1/2	96,056	1/2	111,024	1/2	125,977	1/2	140,929
3/4	6,553	3/4	21,525	3/4	36,495	3/4	51,451	3/4	66,424	3/4	81,396	3/4	96,368	3/4	111,336	3/4	126,288	3/4	141,240
5	6,865	5	21,837	5	36,806	5	51,763	5	66,736	5	81,708	5	96,680	5	111,647	5	126,600	5	141,552
1/4	7,177	1/4	22,149	1/4	37,117	1/4	52,075	1/4	67,047	1/4	82,020	1/4	96,992	1/4	111,959	1/4	126,911	1/4	141,863
1/2	7,489	1/2	22,461	1/2	37,429	1/2	52,387	1/2	67,359	1/2	82,332	1/2	97,304	1/2	112,270	1/2	127,223	1/2	142,174
3/4	7,801	3/4	22,773	3/4	37,740	3/4	52,699	3/4	67,671	3/4	82,644	3/4	97,616	3/4	112,582	3/4	127,534	3/4	142,485
6	8,113	6	23,085	6	38,052	6	53,011	6	67,983	6	82,955	6	97,928	6	112,893	6	127,846	6	142,797
1/4	8,425	1/4	23,397	1/4	38,363	1/4	53,323	1/4	68,295	1/4	83,267	1/4	98,240	1/4	113,205	1/4	128,157	1/4	143,103
1/2	8,737	1/2	23,709	1/2	38,675	1/2	53,635	1/2	68,607	1/2	83,579	1/2	98,552	1/2	113,516	1/2	128,469	1/2	143,410
3/4	9,049	3/4	24,021	3/4	38,986	3/4	53,947	3/4	68,919	3/4	83,891	3/4	98,863	3/4	113,828	3/4	128,780	3/4	143,717
7	9,361	7	24,332	7	39,297	7	54,259	7	69,231	7	84,203	7	99,175	7	114,139	7	129,092	7	144,024
1/4	9,673	1/4	24,644	1/4	39,609	1/4	54,571	1/4	69,543	1/4	84,515	1/4	99,487	1/4	114,451	1/4	129,403	1/4	144,318
1/2	9,984	1/2	24,956	1/2	39,920	1/2	54,883	1/2	69,855	1/2	84,827	1/2	99,799	1/2	114,762	1/2	129,715	1/2	144,613
3/4	10,296	3/4	25,268	3/4	40,232	3/4	55,194	3/4	70,167	3/4	85,139	3/4	100,111	3/4	115,074	3/4	130,026	3/4	144,907
8	10,608	8	25,580	8	40,543	8	55,506	8	70,479	8	85,451	8	100,423	8	115,385	8	130,338	8	145,201
1/4	10,920	1/4	25,892	1/4	40,855	1/4	55,818	1/4	70,791	1/4	85,763	1/4	100,735	1/4	115,697	1/4	130,649	1/4	145,480
1/2	11,232	1/2	26,204	1/2	41,166	1/2	56,130	1/2	71,102	1/2	86,075	1/2	101,047	1/2	116,008	1/2	130,961	1/2	145,758
3/4	11,544	3/4	26,516	3/4	41,477	3/4	56,442	3/4	71,414	3/4	86,387	3/4	101,359	3/4	116,320	3/4	131,272	3/4	146,037
9	11,856	9	26,828	9	41,789	9	56,754	9	71,726	9	86,699	9	101,671	9	116,631	9	131,584	9	146,315
1/4	12,168	1/4	27,140	1/4	42,100	1/4	57,066	1/4	72,038	1/4	87,010	1/4	101,983	1/4	116,943	1/4	131,895	1/4	146,578
1/2	12,480	1/2	27,452	1/2	42,412	1/2	57,378	1/2	72,350	1/2	87,322	1/2	102,295	1/2	117,254	1/2	132,207	1/2	146,840
3/4	12,792	3/4	27,763	3/4	42,723	3/4	57,690	3/4	72,662	3/4	87,634	3/4	102,607	3/4	117,566	3/4	132,518	3/4	147,103
10	13,104	10	28,075	10	43,035	10	58,002	10	72,974	10	87,946	10	102,918	10	117,877	10	132,830	10	147,365
1/4	13,416	1/4	28,387	1/4	43,346	1/4	58,314	1/4	73,286	1/4	88,258	1/4	103,230	1/4	118,189	1/4	133,141	1/4	147,612
1/2	13,727	1/2	28,699	1/2	43,657	1/2	58,626	1/2	73,598	1/2	88,570	1/2	103,542	1/2	118,500	1/2	133,453	1/2	147,858
3/4	14,039	3/4	29,011	3/4	43,969	3/4	58,938	3/4	73,910	3/4	88,882	3/4	103,854	3/4	118,812	3/4	133,764	3/4	148,105
11	14,351	11	29,323	11	44,280	11	59,249	11	74,222	11	89,194	11	104,166	11	119,123	11	134,076	11	148,351
1/4	14,663	1/4	29,635	1/4	44,592	1/4	59,561	1/4	74,534	1/4	89,506	1/4	104,478	1/4	119,435	1/4	134,387	1/4	148,582
1/2	14,975	1/2	29,947	1/2	44,903	1/2	59,873	1/2	74,846	1/2	89,818	1/2	104,790	1/2	119,747	1/2	134,699	1/2	148,812
3/4	15,287	3/4	30,259	3/4	45,215	3/4	60,185	3/4	75,157	3/4	90,130	3/4	105,102	3/4	120,058	3/4	135,010	3/4	149,043

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 LIP OF 2" "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED 10'-09" OFF CENTERLINE AND 43'-0" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HSM 3060"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 15'-09 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	149,273	0	159,624	0	169,953	0	180,253	0	190,539	0		0		0		0		0	
1/4	149,492	1/4	159,839	1/4	170,167	1/4	180,468	1/4	190,731	1/4		1/4		1/4		1/4		1/4	
1/2	149,711	1/2	160,055	1/2	170,382	1/2	180,682	1/2	190,924	1/2		1/2		1/2		1/2		1/2	
3/4	149,930	3/4	160,270	3/4	170,597	3/4	180,897	3/4	191,116	3/4		3/4		3/4		3/4		3/4	
1	150,149	1	160,485	1	170,811	1	181,111	1	191,309	1		1		1		1		1	
1/4	150,364	1/4	160,701	1/4	171,026	1/4	181,326	1/4	191,468	1/4		1/4		1/4		1/4		1/4	
1/2	150,579	1/2	160,916	1/2	171,240	1/2	181,541	1/2	191,627	1/2		1/2		1/2		1/2		1/2	
3/4	150,795	3/4	161,131	3/4	171,455	3/4	181,755	3/4	191,786	3/4		3/4		3/4		3/4		3/4	
2	151,010	2	161,347	2	171,670	2	181,970	2	191,945	2		2		2		2		2	
1/4	151,225	1/4	161,562	1/4	171,884	1/4	182,184	1/4	192,069	1/4		1/4		1/4		1/4		1/4	
1/2	151,441	1/2	161,777	1/2	172,099	1/2	182,399	1/2	192,192	1/2		1/2		1/2		1/2		1/2	
3/4	151,656	3/4	161,993	3/4	172,313	3/4	182,613	3/4	192,315	3/4		3/4		3/4		3/4		3/4	
3	151,871	3	162,208	3	172,528	3	182,828	3	192,438	3		3		3		3		3	
1/4	152,087	1/4	162,423	1/4	172,742	1/4	183,043	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,302	1/2	162,639	1/2	172,957	1/2	183,257	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,517	3/4	162,854	3/4	173,172	3/4	183,472	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,733	4	163,069	4	173,386	4	183,686	4		4		4		4		4		4	
1/4	152,948	1/4	163,285	1/4	173,601	1/4	183,901	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,163	1/2	163,500	1/2	173,815	1/2	184,116	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,379	3/4	163,715	3/4	174,030	3/4	184,330	3/4		3/4		3/4		3/4		3/4		3/4	
5	153,594	5	163,931	5	174,245	5	184,545	5		5		5		5		5		5	
1/4	153,809	1/4	164,146	1/4	174,459	1/4	184,759	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,025	1/2	164,361	1/2	174,674	1/2	184,974	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,240	3/4	164,577	3/4	174,888	3/4	185,188	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,456	6	164,792	6	175,103	6	185,403	6		6		6		6		6		6	
1/4	154,671	1/4	165,007	1/4	175,317	1/4	185,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,886	1/2	165,223	1/2	175,532	1/2	185,832	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,102	3/4	165,438	3/4	175,747	3/4	186,047	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,317	7	165,653	7	175,961	7	186,261	7		7		7		7		7		7	
1/4	155,532	1/4	165,869	1/4	176,176	1/4	186,476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,748	1/2	166,084	1/2	176,390	1/2	186,691	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,963	3/4	166,300	3/4	176,605	3/4	186,905	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,178	8	166,515	8	176,820	8	187,120	8		8		8		8		8		8	
1/4	156,394	1/4	166,730	1/4	177,034	1/4	187,335	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,609	1/2	166,946	1/2	177,249	1/2	187,549	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,824	3/4	167,161	3/4	177,463	3/4	187,764	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,040	9	167,376	9	177,678	9	187,979	9		9		9		9		9		9	
1/4	157,255	1/4	167,591	1/4	177,893	1/4	188,193	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,470	1/2	167,806	1/2	178,107	1/2	188,408	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,686	3/4	168,021	3/4	178,322	3/4	188,623	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,901	10	168,236	10	178,536	10	188,837	10		10		10		10		10		10	
1/4	158,116	1/4	168,451	1/4	178,751	1/4	189,052	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,332	1/2	168,665	1/2	178,965	1/2	189,266	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,547	3/4	168,880	3/4	179,180	3/4	189,480	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,762	11	169,094	11	179,395	11	189,695	11		11		11		11		11		11	
1/4	158,978	1/4	169,309	1/4	179,609	1/4	189,906	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,193	1/2	169,524	1/2	179,824	1/2	190,117	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,408	3/4	169,738	3/4	180,038	3/4	190,328	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

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# BARGE "HSM 3060"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 4'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	101	0	258	0	414	0	515	0		0		0		0		0	
1/4	1	1/4	104	1/4	261	1/4	417	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1	1/2	107	1/2	264	1/2	420	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2	3/4	110	3/4	268	3/4	423	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	113	1	271	1	426	1		1		1		1	1	1	1	1	1
1/4	4	1/4	116	1/4	275	1/4	429	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	5	1/2	119	1/2	278	1/2	432	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	6	3/4	122	3/4	281	3/4	434	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	7	2	125	2	285	2	437	2		2		2		2	2	2	2	2	2
1/4	9	1/4	128	1/4	288	1/4	440	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	10	1/2	131	1/2	292	1/2	443	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	12	3/4	134	3/4	295	3/4	445	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	13	3	138	3	298	3	448	3		3		3		3	3	3	3	3	3
1/4	15	1/4	141	1/4	302	1/4	451	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	17	1/2	144	1/2	305	1/2	453	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	19	3/4	147	3/4	309	3/4	456	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	21	4	150	4	312	4	459	4		4		4		4	4	4	4	4	4
1/4	22	1/4	154	1/4	315	1/4	461	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	24	1/2	157	1/2	319	1/2	464	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	26	3/4	160	3/4	322	3/4	466	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	28	5	163	5	325	5	469	5		5		5		5	5	5	5	5	5
1/4	31	1/4	167	1/4	329	1/4	471	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	33	1/2	170	1/2	332	1/2	473	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	35	3/4	173	3/4	335	3/4	476	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	37	6	176	6	339	6	478	6		6		6		6	6	6	6	6	6
1/4	39	1/4	180	1/4	342	1/4	480	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	42	1/2	183	1/2	345	1/2	482	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	44	3/4	186	3/4	349	3/4	484	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	47	7	190	7	352	7	487	7		7		7		7	7	7	7	7	7
1/4	49	1/4	193	1/4	355	1/4	489	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	51	1/2	196	1/2	358	1/2	491	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	54	3/4	200	3/4	362	3/4	493	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	56	8	203	8	365	8	495	8		8		8		8	8	8	8	8	8
1/4	59	1/4	207	1/4	368	1/4	496	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	62	1/2	210	1/2	371	1/2	498	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	64	3/4	213	3/4	374	3/4	500	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	67	9	217	9	378	9	502	9		9		9		9	9	9	9	9	9
1/4	70	1/4	220	1/4	381	1/4	503	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	72	1/2	223	1/2	384	1/2	505	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	75	3/4	227	3/4	387	3/4	506	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	78	10	230	10	390	10	508	10		10		10		10	10	10	10	10	10
1/4	81	1/4	234	1/4	393	1/4	509	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	83	1/2	237	1/2	396	1/2	510	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	86	3/4	240	3/4	399	3/4	511	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	89	11	244	11	402	11	512	11		11		11		11	11	11	11	11	11
1/4	92	1/4	247	1/4	405	1/4	513	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	95	1/2	251	1/2	408	1/2	514	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	98	3/4	254	3/4	411	3/4	514	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER PIPE

STRAPPED: 10/27/2015 CL  
CALCULATED: 10/27/2015 CL  
PRINTED: 10/27/2015 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HSM 3060"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 5'-11"

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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1	1	1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2	2	2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3	3	3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4	4	4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5	5	5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6	6	6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7	7	7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8	8	8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9	9	9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10	10	10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11	11	11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 10/2015

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





# BARGE "HSM 3060"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

FORMERLY "HFL 435"

GAUGE HEIGHT 5'-11"

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	96	0	1,251	0	2,406	0	3,560	0	4,715	0		0		0		0		0	
1/4	120	1/4	1,275	1/4	2,430	1/4	3,584	1/4	4,739	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	144	1/2	1,299	1/2	2,454	1/2	3,608	1/2	4,762	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	168	3/4	1,323	3/4	2,478	3/4	3,632	3/4	4,786	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
1	193	1	1,347	1	2,502	1	3,656	1	4,810	1		1		1	1	1	1	1	1
1/4	217	1/4	1,371	1/4	2,526	1/4	3,680	1/4	4,833	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	241	1/2	1,395	1/2	2,550	1/2	3,704	1/2	4,857	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	265	3/4	1,419	3/4	2,574	3/4	3,728	3/4	4,881	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
2	289	2	1,444	2	2,597	2	3,752	2	4,904	2		2		2	2	2	2	2	2
1/4	313	1/4	1,468	1/4	2,622	1/4	3,776	1/4	4,928	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	337	1/2	1,492	1/2	2,646	1/2	3,800	1/2	4,952	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	361	3/4	1,516	3/4	2,670	3/4	3,825	3/4	4,975	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
3	385	3	1,540	3	2,694	3	3,849	3	4,999	3		3		3	3	3	3	3	3
1/4	409	1/4	1,564	1/4	2,718	1/4	3,873	1/4	5,023	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	433	1/2	1,588	1/2	2,742	1/2	3,897	1/2	5,046	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	457	3/4	1,612	3/4	2,766	3/4	3,921	3/4	5,070	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
4	481	4	1,636	4	2,790	4	3,945	4	5,093	4		4		4	4	4	4	4	4
1/4	505	1/4	1,660	1/4	2,814	1/4	3,969	1/4	5,105	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	529	1/2	1,684	1/2	2,838	1/2	3,993	1/2	5,117	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	553	3/4	1,708	3/4	2,862	3/4	4,017	3/4	5,128	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	578	5	1,732	5	2,886	5	4,041	5	5,140	5		5		5	5	5	5	5	5
1/4	602	1/4	1,756	1/4	2,910	1/4	4,065	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	626	1/2	1,780	1/2	2,934	1/2	4,089	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	650	3/4	1,805	3/4	2,958	3/4	4,113	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	674	6	1,829	6	2,982	6	4,137	6		6		6		6	6	6	6	6	6
1/4	698	1/4	1,853	1/4	3,006	1/4	4,161	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	722	1/2	1,877	1/2	3,030	1/2	4,185	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	746	3/4	1,901	3/4	3,054	3/4	4,210	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	770	7	1,925	7	3,079	7	4,234	7		7		7		7	7	7	7	7	7
1/4	794	1/4	1,949	1/4	3,103	1/4	4,258	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	818	1/2	1,973	1/2	3,127	1/2	4,282	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	842	3/4	1,997	3/4	3,151	3/4	4,306	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	866	8	2,021	8	3,175	8	4,330	8		8		8		8	8	8	8	8	8
1/4	890	1/4	2,045	1/4	3,199	1/4	4,354	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	914	1/2	2,069	1/2	3,223	1/2	4,378	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	938	3/4	2,093	3/4	3,247	3/4	4,402	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	963	9	2,117	9	3,271	9	4,426	9		9		9		9	9	9	9	9	9
1/4	987	1/4	2,141	1/4	3,295	1/4	4,450	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,011	1/2	2,165	1/2	3,319	1/2	4,474	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,035	3/4	2,190	3/4	3,343	3/4	4,498	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,059	10	2,214	10	3,367	10	4,522	10		10		10		10	10	10	10	10	10
1/4	1,083	1/4	2,238	1/4	3,391	1/4	4,546	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,107	1/2	2,262	1/2	3,415	1/2	4,570	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,131	3/4	2,286	3/4	3,440	3/4	4,595	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,155	11	2,310	11	3,464	11	4,619	11		11		11		11	11	11	11	11	11
1/4	1,179	1/4	2,334	1/4	3,488	1/4	4,643	1/4		1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,203	1/2	2,358	1/2	3,512	1/2	4,667	1/2		1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,227	3/4	2,382	3/4	3,536	3/4	4,691	3/4		3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4

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