



BARGE "HSM 3034"

INNAGE TRIM TABLE 8" GAUGE HATCH

	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 PORT	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8

(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 - 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

January 9, 2020

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

<http://www.pmacorp.net>



BARGE "HSM 3034"

INNAGE TRIM TABLE "MMC" GAUGE

	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	00-1/8	- 00-1/8	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	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
3 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8

(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 - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

January 9, 2020

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BARGE "HSM 3034"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	386	0	13,269	0	28,215	0	43,258	0	58,238	0	73,239	0	88,282	0	103,325	0	118,363	0	133,399
1/4	563	1/4	13,571	1/4	28,529	1/4	43,571	1/4	58,549	1/4	73,552	1/4	88,595	1/4	103,638	1/4	118,676	1/4	133,713
1/2	740	1/2	13,873	1/2	28,842	1/2	43,884	1/2	58,860	1/2	73,865	1/2	88,908	1/2	103,951	1/2	118,989	1/2	134,026
3/4	917	3/4	14,174	3/4	29,155	3/4	44,198	3/4	59,172	3/4	74,179	3/4	89,222	3/4	104,265	3/4	119,303	3/4	134,339
1	1,094	1	14,476	1	29,469	1	44,511	1	59,483	1	74,492	1	89,535	1	104,578	1	119,616	1	134,652
1/4	1,333	1/4	14,782	1/4	29,782	1/4	44,825	1/4	59,794	1/4	74,806	1/4	89,849	1/4	104,892	1/4	119,929	1/4	134,966
1/2	1,572	1/2	15,088	1/2	30,095	1/2	45,138	1/2	60,105	1/2	75,119	1/2	90,162	1/2	105,205	1/2	120,242	1/2	135,279
3/4	1,811	3/4	15,393	3/4	30,409	3/4	45,451	3/4	60,416	3/4	75,432	3/4	90,475	3/4	105,518	3/4	120,556	3/4	135,592
2	2,050	2	15,699	2	30,722	2	45,765	2	60,727	2	75,746	2	90,789	2	105,832	2	120,869	2	135,905
1/4	2,313	1/4	16,009	1/4	31,036	1/4	46,078	1/4	61,038	1/4	76,059	1/4	91,102	1/4	106,145	1/4	121,182	1/4	136,219
1/2	2,575	1/2	16,318	1/2	31,349	1/2	46,391	1/2	61,349	1/2	76,373	1/2	91,416	1/2	106,459	1/2	121,496	1/2	136,532
3/4	2,837	3/4	16,628	3/4	31,662	3/4	46,705	3/4	61,660	3/4	76,686	3/4	91,729	3/4	106,772	3/4	121,809	3/4	136,845
3	3,099	3	16,937	3	31,976	3	47,018	3	61,971	3	76,999	3	92,042	3	107,085	3	122,122	3	137,159
1/4	3,366	1/4	17,250	1/4	32,289	1/4	47,332	1/4	62,282	1/4	77,313	1/4	92,356	1/4	107,399	1/4	122,435	1/4	137,472
1/2	3,633	1/2	17,562	1/2	32,603	1/2	47,645	1/2	62,593	1/2	77,626	1/2	92,669	1/2	107,712	1/2	122,749	1/2	137,785
3/4	3,900	3/4	17,874	3/4	32,916	3/4	47,958	3/4	62,905	3/4	77,940	3/4	92,983	3/4	108,025	3/4	123,062	3/4	138,098
4	4,167	4	18,187	4	33,229	4	48,272	4	63,216	4	78,253	4	93,296	4	108,339	4	123,375	4	138,412
1/4	4,438	1/4	18,500	1/4	33,543	1/4	48,584	1/4	63,528	1/4	78,566	1/4	93,609	1/4	108,652	1/4	123,688	1/4	138,725
1/2	4,709	1/2	18,814	1/2	33,856	1/2	48,897	1/2	63,840	1/2	78,880	1/2	93,923	1/2	108,965	1/2	124,002	1/2	139,038
3/4	4,979	3/4	19,127	3/4	34,169	3/4	49,210	3/4	64,152	3/4	79,193	3/4	94,236	3/4	109,278	3/4	124,315	3/4	139,351
5	5,250	5	19,440	5	34,483	5	49,522	5	64,464	5	79,507	5	94,549	5	109,592	5	124,628	5	139,665
1/4	5,525	1/4	19,754	1/4	34,796	1/4	49,834	1/4	64,777	1/4	79,820	1/4	94,863	1/4	109,905	1/4	124,941	1/4	139,978
1/2	5,800	1/2	20,067	1/2	35,110	1/2	50,146	1/2	65,091	1/2	80,133	1/2	95,176	1/2	110,218	1/2	125,255	1/2	140,291
3/4	6,075	3/4	20,380	3/4	35,423	3/4	50,458	3/4	65,404	3/4	80,447	3/4	95,490	3/4	110,531	3/4	125,568	3/4	140,604
6	6,350	6	20,694	6	35,736	6	50,770	6	65,717	6	80,760	6	95,803	6	110,845	6	125,881	6	140,918
1/4	6,628	1/4	21,007	1/4	36,050	1/4	51,082	1/4	66,031	1/4	81,074	1/4	96,116	1/4	111,158	1/4	126,194	1/4	141,231
1/2	6,907	1/2	21,321	1/2	36,363	1/2	51,394	1/2	66,344	1/2	81,387	1/2	96,430	1/2	111,471	1/2	126,508	1/2	141,544
3/4	7,186	3/4	21,634	3/4	36,677	3/4	51,705	3/4	66,657	3/4	81,700	3/4	96,743	3/4	111,784	3/4	126,821	3/4	141,857
7	7,464	7	21,947	7	36,990	7	52,017	7	66,971	7	82,014	7	97,057	7	112,098	7	127,134	7	142,171
1/4	7,747	1/4	22,261	1/4	37,303	1/4	52,328	1/4	67,284	1/4	82,327	1/4	97,370	1/4	112,411	1/4	127,447	1/4	142,484
1/2	8,029	1/2	22,574	1/2	37,617	1/2	52,640	1/2	67,598	1/2	82,640	1/2	97,683	1/2	112,724	1/2	127,761	1/2	142,797
3/4	8,312	3/4	22,888	3/4	37,930	3/4	52,951	3/4	67,911	3/4	82,954	3/4	97,997	3/4	113,038	3/4	128,074	3/4	143,110
8	8,594	8	23,201	8	38,243	8	53,262	8	68,224	8	83,267	8	98,310	8	113,351	8	128,387	8	143,424
1/4	8,881	1/4	23,514	1/4	38,557	1/4	53,573	1/4	68,538	1/4	83,581	1/4	98,624	1/4	113,664	1/4	128,700	1/4	143,737
1/2	9,167	1/2	23,828	1/2	38,870	1/2	53,884	1/2	68,851	1/2	83,894	1/2	98,937	1/2	113,977	1/2	129,014	1/2	144,050
3/4	9,454	3/4	24,141	3/4	39,184	3/4	54,195	3/4	69,164	3/4	84,207	3/4	99,250	3/4	114,291	3/4	129,327	3/4	144,363
9	9,740	9	24,454	9	39,497	9	54,506	9	69,478	9	84,521	9	99,564	9	114,604	9	129,640	9	144,677
1/4	10,030	1/4	24,768	1/4	39,810	1/4	54,817	1/4	69,791	1/4	84,834	1/4	99,877	1/4	114,917	1/4	129,954	1/4	144,990
1/2	10,320	1/2	25,081	1/2	40,124	1/2	55,128	1/2	70,105	1/2	85,148	1/2	100,191	1/2	115,230	1/2	130,267	1/2	145,303
3/4	10,611	3/4	25,395	3/4	40,437	3/4	55,439	3/4	70,418	3/4	85,461	3/4	100,504	3/4	115,544	3/4	130,580	3/4	145,617
10	10,901	10	25,708	10	40,751	10	55,750	10	70,731	10	85,774	10	100,817	10	115,857	10	130,893	10	145,930
1/4	11,195	1/4	26,021	1/4	41,064	1/4	56,061	1/4	71,045	1/4	86,088	1/4	101,131	1/4	116,170	1/4	131,207	1/4	146,243
1/2	11,489	1/2	26,335	1/2	41,377	1/2	56,372	1/2	71,358	1/2	86,401	1/2	101,444	1/2	116,483	1/2	131,520	1/2	146,556
3/4	11,783	3/4	26,648	3/4	41,691	3/4	56,683	3/4	71,672	3/4	86,715	3/4	101,758	3/4	116,797	3/4	131,833	3/4	146,870
11	12,077	11	26,962	11	42,004	11	56,994	11	71,985	11	87,028	11	102,071	11	117,110	11	132,146	11	147,183
1/4	12,375	1/4	27,275	1/4	42,317	1/4	57,305	1/4	72,298	1/4	87,341	1/4	102,384	1/4	117,423	1/4	132,460	1/4	147,496
1/2	12,673	1/2	27,588	1/2	42,631	1/2	57,616	1/2	72,612	1/2	87,655	1/2	102,698	1/2	117,736	1/2	132,773	1/2	147,809
3/4	12,971	3/4	27,902	3/4	42,944	3/4	57,927	3/4	72,925	3/4	87,968	3/4	103,011	3/4	118,050	3/4	133,086	3/4	148,123

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

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1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	148,436	0	163,472	0	178,500	0	193,492	0	208,412	0		0		0		0		0	
1/4	148,749	1/4	163,786	1/4	178,812	1/4	193,805	1/4	208,693	1/4		1/4		1/4		1/4		1/4	
1/2	149,062	1/2	164,099	1/2	179,124	1/2	194,117	1/2	208,973	1/2		1/2		1/2		1/2		1/2	
3/4	149,376	3/4	164,412	3/4	179,437	3/4	194,429	3/4	209,254	3/4		3/4		3/4		3/4		3/4	
1	149,689	1	164,725	1	179,749	1	194,742	1	209,534	1		1		1		1		1	
1/4	150,002	1/4	165,039	1/4	180,061	1/4	195,054	1/4	209,766	1/4		1/4		1/4		1/4		1/4	
1/2	150,315	1/2	165,352	1/2	180,374	1/2	195,366	1/2	209,998	1/2		1/2		1/2		1/2		1/2	
3/4	150,629	3/4	165,665	3/4	180,686	3/4	195,679	3/4	210,230	3/4		3/4		3/4		3/4		3/4	
2	150,942	2	165,978	2	180,998	2	195,991	2	210,462	2		2		2		2		2	
1/4	151,255	1/4	166,292	1/4	181,311	1/4	196,303	1/4	210,642	1/4		1/4		1/4		1/4		1/4	
1/2	151,568	1/2	166,605	1/2	181,623	1/2	196,616	1/2	210,822	1/2		1/2		1/2		1/2		1/2	
3/4	151,882	3/4	166,918	3/4	181,935	3/4	196,928	3/4	211,001	3/4		3/4		3/4		3/4		3/4	
3	152,195	3	167,231	3	182,248	3	197,240	3	211,181	3		3		3		3		3	
1/4	152,508	1/4	167,545	1/4	182,560	1/4	197,553	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,821	1/2	167,858	1/2	182,872	1/2	197,865	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,135	3/4	168,171	3/4	183,185	3/4	198,177	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,448	4	168,484	4	183,497	4	198,490	4		4		4		4		4		4	
1/4	153,761	1/4	168,798	1/4	183,810	1/4	198,802	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,075	1/2	169,111	1/2	184,122	1/2	199,114	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,388	3/4	169,424	3/4	184,434	3/4	199,427	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,701	5	169,737	5	184,747	5	199,739	5		5		5		5		5		5	
1/4	155,014	1/4	170,051	1/4	185,059	1/4	200,050	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,328	1/2	170,364	1/2	185,371	1/2	200,362	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,641	3/4	170,677	3/4	185,684	3/4	200,673	3/4		3/4		3/4		3/4		3/4		3/4	
6	155,954	6	170,991	6	185,996	6	200,984	6		6		6		6		6		6	
1/4	156,267	1/4	171,304	1/4	186,308	1/4	201,294	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,581	1/2	171,617	1/2	186,621	1/2	201,605	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,894	3/4	171,930	3/4	186,933	3/4	201,915	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,207	7	172,244	7	187,245	7	202,225	7		7		7		7		7		7	
1/4	157,520	1/4	172,557	1/4	187,558	1/4	202,535	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,834	1/2	172,870	1/2	187,870	1/2	202,846	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,147	3/4	173,183	3/4	188,182	3/4	203,156	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,460	8	173,497	8	188,495	8	203,466	8		8		8		8		8		8	
1/4	158,773	1/4	173,810	1/4	188,807	1/4	203,776	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,087	1/2	174,123	1/2	189,119	1/2	204,087	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,400	3/4	174,436	3/4	189,432	3/4	204,397	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,713	9	174,750	9	189,744	9	204,707	9		9		9		9		9		9	
1/4	160,026	1/4	175,062	1/4	190,056	1/4	205,018	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,340	1/2	175,375	1/2	190,369	1/2	205,328	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,653	3/4	175,688	3/4	190,681	3/4	205,638	3/4		3/4		3/4		3/4		3/4		3/4	
10	160,966	10	176,001	10	190,993	10	205,948	10		10		10		10		10		10	
1/4	161,279	1/4	176,313	1/4	191,306	1/4	206,258	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,593	1/2	176,626	1/2	191,618	1/2	206,568	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,906	3/4	176,938	3/4	191,930	3/4	206,878	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,219	11	177,250	11	192,243	11	207,188	11		11		11		11		11		11	
1/4	162,533	1/4	177,563	1/4	192,555	1/4	207,494	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,846	1/2	177,875	1/2	192,868	1/2	207,800	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,159	3/4	178,187	3/4	193,180	3/4	208,106	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

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



BARGE "HSM 3034"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	386	0	13,274	0	28,225	0	43,273	0	58,316	0	73,361	0	88,409	0	103,458	0	118,501	0	133,543
1/4	563	1/4	13,576	1/4	28,538	1/4	43,586	1/4	58,629	1/4	73,675	1/4	88,723	1/4	103,771	1/4	118,814	1/4	133,856
1/2	740	1/2	13,878	1/2	28,852	1/2	43,900	1/2	58,942	1/2	73,988	1/2	89,036	1/2	104,085	1/2	119,128	1/2	134,169
3/4	918	3/4	14,179	3/4	29,165	3/4	44,213	3/4	59,256	3/4	74,302	3/4	89,350	3/4	104,398	3/4	119,441	3/4	134,483
1	1,095	1	14,481	1	29,479	1	44,527	1	59,569	1	74,615	1	89,663	1	104,712	1	119,755	1	134,796
1/4	1,334	1/4	14,787	1/4	29,792	1/4	44,840	1/4	59,882	1/4	74,929	1/4	89,977	1/4	105,025	1/4	120,068	1/4	135,110
1/2	1,573	1/2	15,093	1/2	30,106	1/2	45,154	1/2	60,196	1/2	75,242	1/2	90,290	1/2	105,339	1/2	120,381	1/2	135,423
3/4	1,812	3/4	15,399	3/4	30,419	3/4	45,467	3/4	60,509	3/4	75,556	3/4	90,604	3/4	105,652	3/4	120,695	3/4	135,736
2	2,051	2	15,704	2	30,733	2	45,781	2	60,822	2	75,869	2	90,917	2	105,966	2	121,008	2	136,050
1/4	2,313	1/4	16,014	1/4	31,046	1/4	46,094	1/4	61,135	1/4	76,183	1/4	91,231	1/4	106,279	1/4	121,321	1/4	136,363
1/2	2,576	1/2	16,324	1/2	31,360	1/2	46,408	1/2	61,449	1/2	76,496	1/2	91,544	1/2	106,593	1/2	121,635	1/2	136,676
3/4	2,838	3/4	16,633	3/4	31,673	3/4	46,721	3/4	61,762	3/4	76,810	3/4	91,858	3/4	106,906	3/4	121,948	3/4	136,990
3	3,101	3	16,943	3	31,987	3	47,035	3	62,075	3	77,123	3	92,171	3	107,220	3	122,262	3	137,303
1/4	3,367	1/4	17,256	1/4	32,300	1/4	47,348	1/4	62,389	1/4	77,437	1/4	92,485	1/4	107,533	1/4	122,575	1/4	137,617
1/2	3,634	1/2	17,568	1/2	32,614	1/2	47,662	1/2	62,702	1/2	77,750	1/2	92,798	1/2	107,846	1/2	122,888	1/2	137,930
3/4	3,901	3/4	17,881	3/4	32,927	3/4	47,975	3/4	63,016	3/4	78,064	3/4	93,112	3/4	108,160	3/4	123,202	3/4	138,243
4	4,168	4	18,193	4	33,241	4	48,289	4	63,329	4	78,377	4	93,425	4	108,473	4	123,515	4	138,557
1/4	4,439	1/4	18,507	1/4	33,554	1/4	48,602	1/4	63,643	1/4	78,691	1/4	93,739	1/4	108,787	1/4	123,828	1/4	138,870
1/2	4,710	1/2	18,820	1/2	33,868	1/2	48,916	1/2	63,956	1/2	79,004	1/2	94,052	1/2	109,100	1/2	124,142	1/2	139,183
3/4	4,981	3/4	19,134	3/4	34,181	3/4	49,229	3/4	64,270	3/4	79,318	3/4	94,366	3/4	109,413	3/4	124,455	3/4	139,497
5	5,252	5	19,447	5	34,495	5	49,543	5	64,583	5	79,631	5	94,679	5	109,727	5	124,768	5	139,810
1/4	5,527	1/4	19,761	1/4	34,808	1/4	49,856	1/4	64,897	1/4	79,945	1/4	94,993	1/4	110,040	1/4	125,082	1/4	140,124
1/2	5,802	1/2	20,074	1/2	35,122	1/2	50,169	1/2	65,210	1/2	80,258	1/2	95,307	1/2	110,354	1/2	125,395	1/2	140,437
3/4	6,077	3/4	20,388	3/4	35,435	3/4	50,483	3/4	65,524	3/4	80,572	3/4	95,620	3/4	110,667	3/4	125,709	3/4	140,750
6	6,352	6	20,701	6	35,749	6	50,796	6	65,837	6	80,885	6	95,934	6	110,980	6	126,022	6	141,064
1/4	6,631	1/4	21,015	1/4	36,062	1/4	51,110	1/4	66,151	1/4	81,199	1/4	96,247	1/4	111,294	1/4	126,335	1/4	141,377
1/2	6,909	1/2	21,328	1/2	36,376	1/2	51,423	1/2	66,464	1/2	81,512	1/2	96,561	1/2	111,607	1/2	126,649	1/2	141,690
3/4	7,188	3/4	21,642	3/4	36,689	3/4	51,737	3/4	66,778	3/4	81,826	3/4	96,874	3/4	111,920	3/4	126,962	3/4	142,004
7	7,467	7	21,955	7	37,003	7	52,050	7	67,091	7	82,139	7	97,188	7	112,234	7	127,275	7	142,317
1/4	7,750	1/4	22,269	1/4	37,316	1/4	52,364	1/4	67,405	1/4	82,453	1/4	97,501	1/4	112,547	1/4	127,589	1/4	142,630
1/2	8,032	1/2	22,582	1/2	37,630	1/2	52,677	1/2	67,718	1/2	82,766	1/2	97,815	1/2	112,860	1/2	127,902	1/2	142,944
3/4	8,315	3/4	22,896	3/4	37,943	3/4	52,990	3/4	68,032	3/4	83,080	3/4	98,128	3/4	113,174	3/4	128,215	3/4	143,257
8	8,597	8	23,209	8	38,257	8	53,304	8	68,345	8	83,393	8	98,442	8	113,487	8	128,529	8	143,571
1/4	8,884	1/4	23,523	1/4	38,570	1/4	53,617	1/4	68,659	1/4	83,707	1/4	98,755	1/4	113,801	1/4	128,842	1/4	143,884
1/2	9,170	1/2	23,836	1/2	38,884	1/2	53,930	1/2	68,972	1/2	84,020	1/2	99,069	1/2	114,114	1/2	129,156	1/2	144,197
3/4	9,457	3/4	24,150	3/4	39,197	3/4	54,243	3/4	69,286	3/4	84,334	3/4	99,382	3/4	114,427	3/4	129,469	3/4	144,511
9	9,743	9	24,463	9	39,511	9	54,557	9	69,599	9	84,647	9	99,696	9	114,741	9	129,782	9	144,824
1/4	10,034	1/4	24,777	1/4	39,824	1/4	54,870	1/4	69,913	1/4	84,961	1/4	100,009	1/4	115,054	1/4	130,096	1/4	145,137
1/2	10,324	1/2	25,090	1/2	40,138	1/2	55,183	1/2	70,226	1/2	85,274	1/2	100,323	1/2	115,367	1/2	130,409	1/2	145,451
3/4	10,614	3/4	25,403	3/4	40,451	3/4	55,496	3/4	70,540	3/4	85,588	3/4	100,636	3/4	115,681	3/4	130,722	3/4	145,764
10	10,905	10	25,717	10	40,765	10	55,810	10	70,853	10	85,901	10	100,950	10	115,994	10	131,036	10	146,078
1/4	11,199	1/4	26,030	1/4	41,078	1/4	56,123	1/4	71,167	1/4	86,215	1/4	101,263	1/4	116,308	1/4	131,349	1/4	146,391
1/2	11,493	1/2	26,344	1/2	41,392	1/2	56,436	1/2	71,480	1/2	86,528	1/2	101,577	1/2	116,621	1/2	131,663	1/2	146,704
3/4	11,787	3/4	26,657	3/4	41,705	3/4	56,750	3/4	71,794	3/4	86,842	3/4	101,890	3/4	116,934	3/4	131,976	3/4	147,018
11	12,082	11	26,971	11	42,019	11	57,063	11	72,107	11	87,155	11	102,204	11	117,248	11	132,289	11	147,331
1/4	12,380	1/4	27,284	1/4	42,332	1/4	57,376	1/4	72,421	1/4	87,469	1/4	102,517	1/4	117,561	1/4	132,603	1/4	147,644
1/2	12,678	1/2	27,598	1/2	42,646	1/2	57,689	1/2	72,734	1/2	87,782	1/2	102,831	1/2	117,874	1/2	132,916	1/2	147,958
3/4	12,976	3/4	27,911	3/4	42,959	3/4	58,003	3/4	73,048	3/4	88,096	3/4	103,144	3/4	118,188	3/4	133,229	3/4	148,271

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD

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



BARGE "HSM 3034"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	148,585	0	163,626	0	178,659	0	193,657	0	208,583	0		0		0		0		0	
1/4	148,898	1/4	163,940	1/4	178,972	1/4	193,970	1/4	208,863	1/4		1/4		1/4		1/4		1/4	
1/2	149,211	1/2	164,253	1/2	179,284	1/2	194,282	1/2	209,144	1/2		1/2		1/2		1/2		1/2	
3/4	149,525	3/4	164,567	3/4	179,597	3/4	194,595	3/4	209,424	3/4		3/4		3/4		3/4		3/4	
1	149,838	1	164,880	1	179,909	1	194,907	1	209,705	1		1		1		1		1	
1/4	150,151	1/4	165,193	1/4	180,221	1/4	195,220	1/4	209,937	1/4		1/4		1/4		1/4		1/4	
1/2	150,465	1/2	165,507	1/2	180,534	1/2	195,532	1/2	210,169	1/2		1/2		1/2		1/2		1/2	
3/4	150,778	3/4	165,820	3/4	180,846	3/4	195,844	3/4	210,401	3/4		3/4		3/4		3/4		3/4	
2	151,092	2	166,133	2	181,159	2	196,157	2	210,633	2		2		2		2		2	
1/4	151,405	1/4	166,447	1/4	181,471	1/4	196,469	1/4	210,813	1/4		1/4		1/4		1/4		1/4	
1/2	151,718	1/2	166,760	1/2	181,784	1/2	196,782	1/2	210,993	1/2		1/2		1/2		1/2		1/2	
3/4	152,032	3/4	167,074	3/4	182,096	3/4	197,094	3/4	211,173	3/4		3/4		3/4		3/4		3/4	
3	152,345	3	167,387	3	182,409	3	197,407	3	211,352	3		3		3		3		3	
1/4	152,658	1/4	167,700	1/4	182,721	1/4	197,719	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,972	1/2	168,014	1/2	183,034	1/2	198,032	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,285	3/4	168,327	3/4	183,346	3/4	198,344	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,599	4	168,640	4	183,659	4	198,657	4		4		4		4		4		4	
1/4	153,912	1/4	168,954	1/4	183,971	1/4	198,969	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,225	1/2	169,267	1/2	184,283	1/2	199,281	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,539	3/4	169,581	3/4	184,596	3/4	199,594	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,852	5	169,894	5	184,908	5	199,906	5		5		5		5		5		5	
1/4	155,165	1/4	170,207	1/4	185,221	1/4	200,218	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,479	1/2	170,521	1/2	185,533	1/2	200,529	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,792	3/4	170,834	3/4	185,846	3/4	200,841	3/4		3/4		3/4		3/4		3/4		3/4	
6	156,106	6	171,147	6	186,158	6	201,152	6		6		6		6		6		6	
1/4	156,419	1/4	171,461	1/4	186,471	1/4	201,462	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,732	1/2	171,774	1/2	186,783	1/2	201,773	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,046	3/4	172,088	3/4	187,096	3/4	202,083	3/4		3/4		3/4		3/4		3/4		3/4	
7	157,359	7	172,401	7	187,408	7	202,393	7		7		7		7		7		7	
1/4	157,672	1/4	172,714	1/4	187,720	1/4	202,704	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,986	1/2	173,028	1/2	188,033	1/2	203,014	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,299	3/4	173,341	3/4	188,345	3/4	203,324	3/4		3/4		3/4		3/4		3/4		3/4	
8	158,612	8	173,654	8	188,658	8	203,635	8		8		8		8		8		8	
1/4	158,926	1/4	173,968	1/4	188,970	1/4	203,945	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,239	1/2	174,281	1/2	189,283	1/2	204,256	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,553	3/4	174,594	3/4	189,595	3/4	204,566	3/4		3/4		3/4		3/4		3/4		3/4	
9	159,866	9	174,908	9	189,908	9	204,877	9		9		9		9		9		9	
1/4	160,179	1/4	175,221	1/4	190,220	1/4	205,187	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,493	1/2	175,534	1/2	190,533	1/2	205,497	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,806	3/4	175,847	3/4	190,845	3/4	205,808	3/4		3/4		3/4		3/4		3/4		3/4	
10	161,119	10	176,160	10	191,158	10	206,118	10		10		10		10		10		10	
1/4	161,433	1/4	176,472	1/4	191,470	1/4	206,428	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,746	1/2	176,784	1/2	191,782	1/2	206,738	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,060	3/4	177,097	3/4	192,095	3/4	207,048	3/4		3/4		3/4		3/4		3/4		3/4	
11	162,373	11	177,409	11	192,407	11	207,358	11		11		11		11		11		11	
1/4	162,686	1/4	177,722	1/4	192,720	1/4	207,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,000	1/2	178,034	1/2	193,032	1/2	207,970	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,313	3/4	178,347	3/4	193,345	3/4	208,276	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
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BARGE "HSM 3034"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	1,033	0	15,716	0	30,798	0	45,509	0	60,013	0	74,886	0	89,971	0	105,056	0	120,136	0	135,213
1/4	1,269	1/4	16,030	1/4	31,113	1/4	45,810	1/4	60,316	1/4	75,200	1/4	90,285	1/4	105,370	1/4	120,450	1/4	135,527
1/2	1,504	1/2	16,345	1/2	31,427	1/2	46,112	1/2	60,618	1/2	75,515	1/2	90,600	1/2	105,685	1/2	120,764	1/2	135,841
3/4	1,740	3/4	16,659	3/4	31,741	3/4	46,414	3/4	60,921	3/4	75,829	3/4	90,914	3/4	105,999	3/4	121,078	3/4	136,155
1	1,976	1	16,973	1	32,055	1	46,715	1	61,223	1	76,143	1	91,228	1	106,313	1	121,392	1	136,469
1/4	2,269	1/4	17,287	1/4	32,370	1/4	47,017	1/4	61,526	1/4	76,457	1/4	91,542	1/4	106,627	1/4	121,706	1/4	136,783
1/2	2,563	1/2	17,602	1/2	32,684	1/2	47,318	1/2	61,828	1/2	76,772	1/2	91,857	1/2	106,942	1/2	122,020	1/2	137,098
3/4	2,857	3/4	17,916	3/4	32,998	3/4	47,620	3/4	62,131	3/4	77,086	3/4	92,171	3/4	107,256	3/4	122,334	3/4	137,412
2	3,151	2	18,230	2	33,312	2	47,921	2	62,433	2	77,400	2	92,485	2	107,570	2	122,648	2	137,726
1/4	3,464	1/4	18,545	1/4	33,627	1/4	48,223	1/4	62,736	1/4	77,715	1/4	92,799	1/4	107,884	1/4	122,963	1/4	138,040
1/2	3,777	1/2	18,859	1/2	33,941	1/2	48,525	1/2	63,038	1/2	78,029	1/2	93,114	1/2	108,199	1/2	123,277	1/2	138,354
3/4	4,091	3/4	19,173	3/4	34,255	3/4	48,826	3/4	63,341	3/4	78,343	3/4	93,428	3/4	108,513	3/4	123,591	3/4	138,668
3	4,404	3	19,487	3	34,569	3	49,128	3	63,643	3	78,657	3	93,742	3	108,827	3	123,905	3	138,982
1/4	4,718	1/4	19,802	1/4	34,884	1/4	49,430	1/4	63,946	1/4	78,972	1/4	94,057	1/4	109,141	1/4	124,219	1/4	139,296
1/2	5,032	1/2	20,116	1/2	35,198	1/2	49,732	1/2	64,248	1/2	79,286	1/2	94,371	1/2	109,456	1/2	124,533	1/2	139,610
3/4	5,346	3/4	20,430	3/4	35,512	3/4	50,033	3/4	64,551	3/4	79,600	3/4	94,685	3/4	109,770	3/4	124,847	3/4	139,925
4	5,660	4	20,744	4	35,826	4	50,335	4	64,853	4	79,914	4	94,999	4	110,084	4	125,161	4	140,239
1/4	5,974	1/4	21,059	1/4	36,135	1/4	50,637	1/4	65,161	1/4	80,229	1/4	95,314	1/4	110,398	1/4	125,475	1/4	140,553
1/2	6,288	1/2	21,373	1/2	36,443	1/2	50,939	1/2	65,470	1/2	80,543	1/2	95,628	1/2	110,712	1/2	125,790	1/2	140,867
3/4	6,603	3/4	21,687	3/4	36,752	3/4	51,241	3/4	65,778	3/4	80,857	3/4	95,942	3/4	111,026	3/4	126,104	3/4	141,181
5	6,917	5	22,001	5	37,060	5	51,544	5	66,087	5	81,172	5	96,256	5	111,340	5	126,418	5	141,495
1/4	7,231	1/4	22,316	1/4	37,362	1/4	51,846	1/4	66,401	1/4	81,486	1/4	96,571	1/4	111,655	1/4	126,732	1/4	141,809
1/2	7,545	1/2	22,630	1/2	37,665	1/2	52,149	1/2	66,715	1/2	81,800	1/2	96,885	1/2	111,969	1/2	127,046	1/2	142,123
3/4	7,860	3/4	22,944	3/4	37,967	3/4	52,451	3/4	67,029	3/4	82,114	3/4	97,199	3/4	112,283	3/4	127,360	3/4	142,437
6	8,174	6	23,258	6	38,270	6	52,754	6	67,344	6	82,429	6	97,514	6	112,597	6	127,674	6	142,752
1/4	8,488	1/4	23,573	1/4	38,572	1/4	53,056	1/4	67,658	1/4	82,743	1/4	97,828	1/4	112,911	1/4	127,988	1/4	143,066
1/2	8,802	1/2	23,887	1/2	38,874	1/2	53,359	1/2	67,972	1/2	83,057	1/2	98,142	1/2	113,225	1/2	128,302	1/2	143,380
3/4	9,117	3/4	24,201	3/4	39,176	3/4	53,661	3/4	68,286	3/4	83,371	3/4	98,456	3/4	113,539	3/4	128,617	3/4	143,694
7	9,431	7	24,515	7	39,478	7	53,964	7	68,601	7	83,686	7	98,771	7	113,853	7	128,931	7	144,008
1/4	9,745	1/4	24,830	1/4	39,779	1/4	54,266	1/4	68,915	1/4	84,000	1/4	99,085	1/4	114,167	1/4	129,245	1/4	144,322
1/2	10,059	1/2	25,144	1/2	40,081	1/2	54,568	1/2	69,229	1/2	84,314	1/2	99,399	1/2	114,482	1/2	129,559	1/2	144,636
3/4	10,374	3/4	25,458	3/4	40,383	3/4	54,871	3/4	69,544	3/4	84,628	3/4	99,713	3/4	114,796	3/4	129,873	3/4	144,950
8	10,688	8	25,772	8	40,684	8	55,173	8	69,858	8	84,943	8	100,028	8	115,110	8	130,187	8	145,264
1/4	11,002	1/4	26,087	1/4	40,986	1/4	55,476	1/4	70,172	1/4	85,257	1/4	100,342	1/4	115,424	1/4	130,501	1/4	145,579
1/2	11,317	1/2	26,401	1/2	41,287	1/2	55,778	1/2	70,486	1/2	85,571	1/2	100,656	1/2	115,738	1/2	130,815	1/2	145,893
3/4	11,631	3/4	26,715	3/4	41,589	3/4	56,081	3/4	70,801	3/4	85,886	3/4	100,970	3/4	116,052	3/4	131,129	3/4	146,207
9	11,945	9	27,029	9	41,890	9	56,383	9	71,115	9	86,200	9	101,285	9	116,366	9	131,444	9	146,521
1/4	12,259	1/4	27,343	1/4	42,192	1/4	56,686	1/4	71,429	1/4	86,514	1/4	101,599	1/4	116,680	1/4	131,758	1/4	146,835
1/2	12,574	1/2	27,657	1/2	42,493	1/2	56,988	1/2	71,743	1/2	86,828	1/2	101,913	1/2	116,994	1/2	132,072	1/2	147,149
3/4	12,888	3/4	27,971	3/4	42,795	3/4	57,291	3/4	72,058	3/4	87,143	3/4	102,228	3/4	117,309	3/4	132,386	3/4	147,463
10	13,202	10	28,285	10	43,097	10	57,593	10	72,372	10	87,457	10	102,542	10	117,623	10	132,700	10	147,777
1/4	13,516	1/4	28,599	1/4	43,398	1/4	57,896	1/4	72,686	1/4	87,771	1/4	102,856	1/4	117,937	1/4	133,014	1/4	148,091
1/2	13,831	1/2	28,913	1/2	43,700	1/2	58,198	1/2	73,001	1/2	88,085	1/2	103,170	1/2	118,251	1/2	133,328	1/2	148,406
3/4	14,145	3/4	29,228	3/4	44,001	3/4	58,501	3/4	73,315	3/4	88,400	3/4	103,485	3/4	118,565	3/4	133,642	3/4	148,720
11	14,459	11	29,542	11	44,303	11	58,803	11	73,629	11	88,714	11	103,799	11	118,879	11	133,956	11	149,034
1/4	14,773	1/4	29,856	1/4	44,604	1/4	59,106	1/4	73,943	1/4	89,028	1/4	104,113	1/4	119,193	1/4	134,271	1/4	149,348
1/2	15,088	1/2	30,170	1/2	44,906	1/2	59,408	1/2	74,258	1/2	89,343	1/2	104,427	1/2	119,507	1/2	134,585	1/2	149,662
3/4	15,402	3/4	30,484	3/4	45,207	3/4	59,711	3/4	74,572	3/4	89,657	3/4	104,742	3/4	119,821	3/4	134,899	3/4	149,976

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 3034"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	150,290	0	165,368	0	180,434	0	195,460	0	210,390	0		0		0		0		0	
1/4	150,604	1/4	165,682	1/4	180,747	1/4	195,774	1/4	210,670	1/4		1/4		1/4		1/4		1/4	
1/2	150,918	1/2	165,996	1/2	181,060	1/2	196,087	1/2	210,950	1/2		1/2		1/2		1/2		1/2	
3/4	151,233	3/4	166,310	3/4	181,373	3/4	196,400	3/4	211,230	3/4		3/4		3/4		3/4		3/4	
1	151,547	1	166,624	1	181,686	1	196,713	1	211,510	1		1		1		1		1	
1/4	151,861	1/4	166,938	1/4	182,000	1/4	197,026	1/4	211,742	1/4		1/4		1/4		1/4		1/4	
1/2	152,175	1/2	167,252	1/2	182,313	1/2	197,339	1/2	211,973	1/2		1/2		1/2		1/2		1/2	
3/4	152,489	3/4	167,566	3/4	182,626	3/4	197,652	3/4	212,205	3/4		3/4		3/4		3/4		3/4	
2	152,803	2	167,880	2	182,939	2	197,965	2	212,436	2		2		2		2		2	
1/4	153,117	1/4	168,195	1/4	183,252	1/4	198,278	1/4	212,615	1/4		1/4		1/4		1/4		1/4	
1/2	153,431	1/2	168,509	1/2	183,565	1/2	198,591	1/2	212,795	1/2		1/2		1/2		1/2		1/2	
3/4	153,745	3/4	168,823	3/4	183,878	3/4	198,904	3/4	212,974	3/4		3/4		3/4		3/4		3/4	
3	154,060	3	169,137	3	184,191	3	199,217	3	213,153	3		3		3		3		3	
1/4	154,374	1/4	169,451	1/4	184,504	1/4	199,530	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,688	1/2	169,765	1/2	184,817	1/2	199,843	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,002	3/4	170,079	3/4	185,130	3/4	200,156	3/4		3/4		3/4		3/4		3/4		3/4	
4	155,316	4	170,393	4	185,443	4	200,469	4		4		4		4		4		4	
1/4	155,630	1/4	170,707	1/4	185,756	1/4	200,782	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,944	1/2	171,022	1/2	186,069	1/2	201,095	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,258	3/4	171,336	3/4	186,382	3/4	201,408	3/4		3/4		3/4		3/4		3/4		3/4	
5	156,572	5	171,650	5	186,695	5	201,721	5		5		5		5		5		5	
1/4	156,887	1/4	171,964	1/4	187,008	1/4	202,033	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,201	1/2	172,278	1/2	187,321	1/2	202,344	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,515	3/4	172,592	3/4	187,634	3/4	202,656	3/4		3/4		3/4		3/4		3/4		3/4	
6	157,829	6	172,906	6	187,947	6	202,967	6		6		6		6		6		6	
1/4	158,143	1/4	173,220	1/4	188,260	1/4	203,277	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,457	1/2	173,534	1/2	188,573	1/2	203,587	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,771	3/4	173,849	3/4	188,887	3/4	203,897	3/4		3/4		3/4		3/4		3/4		3/4	
7	159,085	7	174,163	7	189,200	7	204,207	7		7		7		7		7		7	
1/4	159,399	1/4	174,477	1/4	189,513	1/4	204,517	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,714	1/2	174,791	1/2	189,826	1/2	204,827	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	160,028	3/4	175,105	3/4	190,139	3/4	205,137	3/4		3/4		3/4		3/4		3/4		3/4	
8	160,342	8	175,419	8	190,452	8	205,447	8		8		8		8		8		8	
1/4	160,656	1/4	175,733	1/4	190,765	1/4	205,757	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,970	1/2	176,047	1/2	191,078	1/2	206,067	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,284	3/4	176,362	3/4	191,391	3/4	206,378	3/4		3/4		3/4		3/4		3/4		3/4	
9	161,598	9	176,676	9	191,704	9	206,688	9		9		9		9		9		9	
1/4	161,912	1/4	176,989	1/4	192,017	1/4	206,998	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	162,226	1/2	177,303	1/2	192,330	1/2	207,308	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,541	3/4	177,616	3/4	192,643	3/4	207,618	3/4		3/4		3/4		3/4		3/4		3/4	
10	162,855	10	177,930	10	192,956	10	207,928	10		10		10		10		10		10	
1/4	163,169	1/4	178,243	1/4	193,269	1/4	208,237	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,483	1/2	178,556	1/2	193,582	1/2	208,547	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,797	3/4	178,869	3/4	193,895	3/4	208,856	3/4		3/4		3/4		3/4		3/4		3/4	
11	164,111	11	179,182	11	194,208	11	209,166	11		11		11		11		11		11	
1/4	164,425	1/4	179,495	1/4	194,521	1/4	209,472	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,739	1/2	179,808	1/2	194,834	1/2	209,778	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	165,053	3/4	180,121	3/4	195,147	3/4	210,084	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3034"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	15,705	0	30,777	0	45,830	0	60,889	0	75,963	0	91,037	0	106,111	0	121,180	0	136,246
1/4	1,268	1/4	16,019	1/4	31,091	1/4	46,144	1/4	61,204	1/4	76,277	1/4	91,351	1/4	106,425	1/4	121,494	1/4	136,560
1/2	1,503	1/2	16,333	1/2	31,405	1/2	46,457	1/2	61,518	1/2	76,592	1/2	91,665	1/2	106,739	1/2	121,808	1/2	136,874
3/4	1,739	3/4	16,647	3/4	31,719	3/4	46,770	3/4	61,832	3/4	76,906	3/4	91,980	3/4	107,054	3/4	122,122	3/4	137,188
1	1,974	1	16,962	1	32,033	1	47,083	1	62,146	1	77,220	1	92,294	1	107,368	1	122,436	1	137,502
1/4	2,268	1/4	17,276	1/4	32,347	1/4	47,396	1/4	62,460	1/4	77,534	1/4	92,608	1/4	107,682	1/4	122,749	1/4	137,816
1/2	2,562	1/2	17,590	1/2	32,661	1/2	47,709	1/2	62,774	1/2	77,848	1/2	92,922	1/2	107,996	1/2	123,063	1/2	138,130
3/4	2,855	3/4	17,904	3/4	32,975	3/4	48,022	3/4	63,088	3/4	78,162	3/4	93,236	3/4	108,310	3/4	123,377	3/4	138,444
2	3,149	2	18,218	2	33,289	2	48,335	2	63,402	2	78,476	2	93,550	2	108,624	2	123,691	2	138,757
1/4	3,462	1/4	18,532	1/4	33,603	1/4	48,649	1/4	63,716	1/4	78,790	1/4	93,864	1/4	108,938	1/4	124,005	1/4	139,071
1/2	3,775	1/2	18,846	1/2	33,917	1/2	48,962	1/2	64,030	1/2	79,104	1/2	94,178	1/2	109,252	1/2	124,319	1/2	139,385
3/4	4,088	3/4	19,160	3/4	34,231	3/4	49,275	3/4	64,344	3/4	79,418	3/4	94,492	3/4	109,566	3/4	124,633	3/4	139,699
3	4,401	3	19,474	3	34,545	3	49,588	3	64,658	3	79,732	3	94,806	3	109,880	3	124,947	3	140,013
1/4	4,715	1/4	19,788	1/4	34,859	1/4	49,902	1/4	64,972	1/4	80,046	1/4	95,120	1/4	110,194	1/4	125,260	1/4	140,327
1/2	5,029	1/2	20,102	1/2	35,174	1/2	50,215	1/2	65,286	1/2	80,360	1/2	95,434	1/2	110,508	1/2	125,574	1/2	140,641
3/4	5,342	3/4	20,416	3/4	35,488	3/4	50,528	3/4	65,600	3/4	80,674	3/4	95,748	3/4	110,822	3/4	125,888	3/4	140,955
4	5,656	4	20,730	4	35,802	4	50,842	4	65,914	4	80,988	4	96,062	4	111,136	4	126,202	4	141,269
1/4	5,970	1/4	21,044	1/4	36,116	1/4	51,155	1/4	66,228	1/4	81,302	1/4	96,376	1/4	111,450	1/4	126,516	1/4	141,582
1/2	6,284	1/2	21,358	1/2	36,430	1/2	51,469	1/2	66,542	1/2	81,616	1/2	96,690	1/2	111,763	1/2	126,830	1/2	141,896
3/4	6,598	3/4	21,672	3/4	36,744	3/4	51,783	3/4	66,856	3/4	81,930	3/4	97,004	3/4	112,077	3/4	127,144	3/4	142,210
5	6,912	5	21,986	5	37,058	5	52,096	5	67,170	5	82,244	5	97,318	5	112,391	5	127,458	5	142,524
1/4	7,226	1/4	22,300	1/4	37,372	1/4	52,410	1/4	67,484	1/4	82,558	1/4	97,632	1/4	112,705	1/4	127,772	1/4	142,838
1/2	7,540	1/2	22,614	1/2	37,686	1/2	52,724	1/2	67,798	1/2	82,872	1/2	97,946	1/2	113,019	1/2	128,085	1/2	143,152
3/4	7,854	3/4	22,928	3/4	38,000	3/4	53,038	3/4	68,112	3/4	83,186	3/4	98,260	3/4	113,333	3/4	128,399	3/4	143,466
6	8,168	6	23,242	6	38,314	6	53,352	6	68,426	6	83,500	6	98,574	6	113,647	6	128,713	6	143,780
1/4	8,482	1/4	23,556	1/4	38,627	1/4	53,667	1/4	68,740	1/4	83,814	1/4	98,888	1/4	113,961	1/4	129,027	1/4	144,093
1/2	8,796	1/2	23,870	1/2	38,941	1/2	53,981	1/2	69,055	1/2	84,129	1/2	99,202	1/2	114,275	1/2	129,341	1/2	144,407
3/4	9,111	3/4	24,184	3/4	39,255	3/4	54,295	3/4	69,369	3/4	84,443	3/4	99,517	3/4	114,588	3/4	129,655	3/4	144,721
7	9,425	7	24,498	7	39,568	7	54,609	7	69,683	7	84,757	7	99,831	7	114,902	7	129,969	7	145,035
1/4	9,739	1/4	24,813	1/4	39,881	1/4	54,923	1/4	69,997	1/4	85,071	1/4	100,145	1/4	115,216	1/4	130,283	1/4	145,349
1/2	10,053	1/2	25,127	1/2	40,194	1/2	55,237	1/2	70,311	1/2	85,385	1/2	100,459	1/2	115,530	1/2	130,596	1/2	145,663
3/4	10,367	3/4	25,441	3/4	40,508	3/4	55,551	3/4	70,625	3/4	85,699	3/4	100,773	3/4	115,844	3/4	130,910	3/4	145,977
8	10,681	8	25,755	8	40,821	8	55,865	8	70,939	8	86,013	8	101,087	8	116,158	8	131,224	8	146,291
1/4	10,995	1/4	26,069	1/4	41,134	1/4	56,179	1/4	71,253	1/4	86,327	1/4	101,401	1/4	116,472	1/4	131,538	1/4	146,605
1/2	11,309	1/2	26,383	1/2	41,447	1/2	56,493	1/2	71,567	1/2	86,641	1/2	101,715	1/2	116,786	1/2	131,852	1/2	146,918
3/4	11,623	3/4	26,697	3/4	41,760	3/4	56,807	3/4	71,881	3/4	86,955	3/4	102,029	3/4	117,100	3/4	132,166	3/4	147,232
9	11,937	9	27,010	9	42,073	9	57,121	9	72,195	9	87,269	9	102,343	9	117,413	9	132,480	9	147,546
1/4	12,251	1/4	27,324	1/4	42,386	1/4	57,435	1/4	72,509	1/4	87,583	1/4	102,657	1/4	117,727	1/4	132,794	1/4	147,860
1/2	12,565	1/2	27,638	1/2	42,699	1/2	57,749	1/2	72,823	1/2	87,897	1/2	102,971	1/2	118,041	1/2	133,108	1/2	148,174
3/4	12,879	3/4	27,952	3/4	43,012	3/4	58,063	3/4	73,137	3/4	88,211	3/4	103,285	3/4	118,355	3/4	133,421	3/4	148,488
10	13,193	10	28,266	10	43,326	10	58,377	10	73,451	10	88,525	10	103,599	10	118,669	10	133,735	10	148,802
1/4	13,507	1/4	28,580	1/4	43,639	1/4	58,691	1/4	73,765	1/4	88,839	1/4	103,913	1/4	118,983	1/4	134,049	1/4	149,116
1/2	13,821	1/2	28,893	1/2	43,952	1/2	59,005	1/2	74,079	1/2	89,153	1/2	104,227	1/2	119,297	1/2	134,363	1/2	149,430
3/4	14,135	3/4	29,207	3/4	44,265	3/4	59,319	3/4	74,393	3/4	89,467	3/4	104,541	3/4	119,611	3/4	134,677	3/4	149,743
11	14,449	11	29,521	11	44,578	11	59,633	11	74,707	11	89,781	11	104,855	11	119,924	11	134,991	11	150,057
1/4	14,763	1/4	29,835	1/4	44,891	1/4	59,947	1/4	75,021	1/4	90,095	1/4	105,169	1/4	120,238	1/4	135,305	1/4	150,371
1/2	15,077	1/2	30,149	1/2	45,204	1/2	60,261	1/2	75,335	1/2	90,409	1/2	105,483	1/2	120,552	1/2	135,619	1/2	150,685
3/4	15,391	3/4	30,463	3/4	45,517	3/4	60,575	3/4	75,649	3/4	90,723	3/4	105,797	3/4	120,866	3/4	135,933	3/4	150,999

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3034"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	151,313	0	166,379	0	181,435	0	196,450	0	211,369	0		0		0		0		0	
1/4	151,627	1/4	166,693	1/4	181,748	1/4	196,763	1/4	211,649	1/4		1/4		1/4		1/4		1/4	
1/2	151,941	1/2	167,007	1/2	182,061	1/2	197,076	1/2	211,929	1/2		1/2		1/2		1/2		1/2	
3/4	152,254	3/4	167,321	3/4	182,373	3/4	197,389	3/4	212,208	3/4		3/4		3/4		3/4		3/4	
1	152,568	1	167,635	1	182,686	1	197,702	1	212,488	1		1		1		1		1	
1/4	152,882	1/4	167,949	1/4	182,999	1/4	198,014	1/4	212,720	1/4		1/4		1/4		1/4		1/4	
1/2	153,196	1/2	168,263	1/2	183,312	1/2	198,327	1/2	212,951	1/2		1/2		1/2		1/2		1/2	
3/4	153,510	3/4	168,576	3/4	183,625	3/4	198,640	3/4	213,182	3/4		3/4		3/4		3/4		3/4	
2	153,824	2	168,890	2	183,938	2	198,953	2	213,414	2		2		2		2		2	
1/4	154,138	1/4	169,204	1/4	184,250	1/4	199,266	1/4	213,593	1/4		1/4		1/4		1/4		1/4	
1/2	154,452	1/2	169,518	1/2	184,563	1/2	199,578	1/2	213,772	1/2		1/2		1/2		1/2		1/2	
3/4	154,766	3/4	169,832	3/4	184,876	3/4	199,891	3/4	213,951	3/4		3/4		3/4		3/4		3/4	
3	155,079	3	170,146	3	185,189	3	200,204	3	214,130	3		3		3		3		3	
1/4	155,393	1/4	170,460	1/4	185,502	1/4	200,517	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,707	1/2	170,774	1/2	185,814	1/2	200,830	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,021	3/4	171,087	3/4	186,127	3/4	201,143	3/4		3/4		3/4		3/4		3/4		3/4	
4	156,335	4	171,401	4	186,440	4	201,455	4		4		4		4		4		4	
1/4	156,649	1/4	171,715	1/4	186,753	1/4	201,768	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,963	1/2	172,029	1/2	187,066	1/2	202,081	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,277	3/4	172,343	3/4	187,379	3/4	202,394	3/4		3/4		3/4		3/4		3/4		3/4	
5	157,590	5	172,657	5	187,691	5	202,707	5		5		5		5		5		5	
1/4	157,904	1/4	172,971	1/4	188,004	1/4	203,018	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,218	1/2	173,285	1/2	188,317	1/2	203,329	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,532	3/4	173,599	3/4	188,630	3/4	203,640	3/4		3/4		3/4		3/4		3/4		3/4	
6	158,846	6	173,912	6	188,943	6	203,952	6		6		6		6		6		6	
1/4	159,160	1/4	174,226	1/4	189,255	1/4	204,261	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,474	1/2	174,540	1/2	189,568	1/2	204,571	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,788	3/4	174,854	3/4	189,881	3/4	204,881	3/4		3/4		3/4		3/4		3/4		3/4	
7	160,102	7	175,168	7	190,194	7	205,191	7		7		7		7		7		7	
1/4	160,415	1/4	175,482	1/4	190,507	1/4	205,500	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	160,729	1/2	175,796	1/2	190,820	1/2	205,810	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	161,043	3/4	176,110	3/4	191,132	3/4	206,120	3/4		3/4		3/4		3/4		3/4		3/4	
8	161,357	8	176,423	8	191,445	8	206,430	8		8		8		8		8		8	
1/4	161,671	1/4	176,737	1/4	191,758	1/4	206,740	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	161,985	1/2	177,051	1/2	192,071	1/2	207,050	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	162,299	3/4	177,365	3/4	192,384	3/4	207,359	3/4		3/4		3/4		3/4		3/4		3/4	
9	162,613	9	177,679	9	192,696	9	207,669	9		9		9		9		9		9	
1/4	162,926	1/4	177,992	1/4	193,009	1/4	207,979	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	163,240	1/2	178,306	1/2	193,322	1/2	208,289	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	163,554	3/4	178,619	3/4	193,635	3/4	208,599	3/4		3/4		3/4		3/4		3/4		3/4	
10	163,868	10	178,932	10	193,948	10	208,908	10		10		10		10		10		10	
1/4	164,182	1/4	179,245	1/4	194,261	1/4	209,218	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	164,496	1/2	179,558	1/2	194,573	1/2	209,527	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	164,810	3/4	179,871	3/4	194,886	3/4	209,837	3/4		3/4		3/4		3/4		3/4		3/4	
11	165,124	11	180,184	11	195,199	11	210,146	11		11		11		11		11		11	
1/4	165,438	1/4	180,497	1/4	195,512	1/4	210,452	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	165,751	1/2	180,809	1/2	195,825	1/2	210,757	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	166,065	3/4	181,122	3/4	196,137	3/4	211,063	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3034"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	1,028	0	15,630	0	30,615	0	45,371	0	59,925	0	74,831	0	89,794	0	104,769	0	119,733	0	134,694
1/4	1,262	1/4	15,942	1/4	30,927	1/4	45,673	1/4	60,237	1/4	75,142	1/4	90,106	1/4	105,081	1/4	120,045	1/4	135,006
1/2	1,497	1/2	16,254	1/2	31,239	1/2	45,975	1/2	60,549	1/2	75,452	1/2	90,418	1/2	105,393	1/2	120,357	1/2	135,318
3/4	1,731	3/4	16,566	3/4	31,551	3/4	46,276	3/4	60,861	3/4	75,762	3/4	90,730	3/4	105,705	3/4	120,668	3/4	135,629
1	1,966	1	16,878	1	31,864	1	46,578	1	61,172	1	76,072	1	91,042	1	106,017	1	120,980	1	135,941
1/4	2,258	1/4	17,191	1/4	32,176	1/4	46,880	1/4	61,484	1/4	76,382	1/4	91,353	1/4	106,329	1/4	121,292	1/4	136,253
1/2	2,551	1/2	17,503	1/2	32,488	1/2	47,182	1/2	61,796	1/2	76,693	1/2	91,665	1/2	106,641	1/2	121,603	1/2	136,565
3/4	2,843	3/4	17,815	3/4	32,800	3/4	47,484	3/4	62,108	3/4	77,003	3/4	91,977	3/4	106,953	3/4	121,915	3/4	136,876
2	3,135	2	18,127	2	33,113	2	47,786	2	62,420	2	77,313	2	92,289	2	107,265	2	122,227	2	137,188
1/4	3,447	1/4	18,440	1/4	33,425	1/4	48,088	1/4	62,731	1/4	77,624	1/4	92,601	1/4	107,577	1/4	122,538	1/4	137,500
1/2	3,759	1/2	18,752	1/2	33,737	1/2	48,390	1/2	63,042	1/2	77,935	1/2	92,913	1/2	107,889	1/2	122,850	1/2	137,811
3/4	4,071	3/4	19,064	3/4	34,049	3/4	48,693	3/4	63,353	3/4	78,247	3/4	93,224	3/4	108,200	3/4	123,162	3/4	138,123
3	4,382	3	19,376	3	34,361	3	48,995	3	63,664	3	78,558	3	93,536	3	108,512	3	123,473	3	138,435
1/4	4,695	1/4	19,689	1/4	34,673	1/4	49,298	1/4	63,974	1/4	78,870	1/4	93,848	1/4	108,824	1/4	123,785	1/4	138,746
1/2	5,007	1/2	20,001	1/2	34,985	1/2	49,600	1/2	64,284	1/2	79,182	1/2	94,160	1/2	109,136	1/2	124,097	1/2	139,058
3/4	5,320	3/4	20,313	3/4	35,297	3/4	49,902	3/4	64,595	3/4	79,494	3/4	94,472	3/4	109,447	3/4	124,409	3/4	139,370
4	5,632	4	20,625	4	35,608	4	50,205	4	64,905	4	79,807	4	94,784	4	109,759	4	124,720	4	139,681
1/4	5,944	1/4	20,938	1/4	35,916	1/4	50,507	1/4	65,215	1/4	80,119	1/4	95,096	1/4	110,071	1/4	125,032	1/4	139,993
1/2	6,257	1/2	21,250	1/2	36,224	1/2	50,809	1/2	65,525	1/2	80,431	1/2	95,407	1/2	110,382	1/2	125,344	1/2	140,305
3/4	6,569	3/4	21,562	3/4	36,533	3/4	51,112	3/4	65,835	3/4	80,743	3/4	95,719	3/4	110,694	3/4	125,655	3/4	140,616
5	6,882	5	21,874	5	36,841	5	51,414	5	66,146	5	81,055	5	96,031	5	111,006	5	125,967	5	140,928
1/4	7,194	1/4	22,186	1/4	37,146	1/4	51,716	1/4	66,456	1/4	81,367	1/4	96,343	1/4	111,318	1/4	126,279	1/4	141,239
1/2	7,507	1/2	22,499	1/2	37,450	1/2	52,019	1/2	66,766	1/2	81,680	1/2	96,655	1/2	111,629	1/2	126,590	1/2	141,551
3/4	7,819	3/4	22,811	3/4	37,755	3/4	52,321	3/4	67,076	3/4	81,992	3/4	96,967	3/4	111,941	3/4	126,902	3/4	141,862
6	8,131	6	23,123	6	38,060	6	52,624	6	67,386	6	82,304	6	97,279	6	112,253	6	127,214	6	142,173
1/4	8,444	1/4	23,435	1/4	38,365	1/4	52,926	1/4	67,697	1/4	82,616	1/4	97,591	1/4	112,564	1/4	127,525	1/4	142,480
1/2	8,757	1/2	23,748	1/2	38,670	1/2	53,228	1/2	68,007	1/2	82,928	1/2	97,903	1/2	112,876	1/2	127,837	1/2	142,787
3/4	9,069	3/4	24,060	3/4	38,975	3/4	53,531	3/4	68,317	3/4	83,240	3/4	98,215	3/4	113,188	3/4	128,149	3/4	143,094
7	9,382	7	24,372	7	39,280	7	53,833	7	68,627	7	83,553	7	98,527	7	113,499	7	128,461	7	143,401
1/4	9,695	1/4	24,684	1/4	39,585	1/4	54,135	1/4	68,938	1/4	83,865	1/4	98,839	1/4	113,811	1/4	128,772	1/4	143,696
1/2	10,007	1/2	24,997	1/2	39,890	1/2	54,438	1/2	69,248	1/2	84,177	1/2	99,151	1/2	114,123	1/2	129,084	1/2	143,991
3/4	10,320	3/4	25,309	3/4	40,195	3/4	54,740	3/4	69,558	3/4	84,489	3/4	99,463	3/4	114,434	3/4	129,396	3/4	144,285
8	10,633	8	25,621	8	40,499	8	55,043	8	69,868	8	84,801	8	99,775	8	114,746	8	129,707	8	144,580
1/4	10,945	1/4	25,933	1/4	40,804	1/4	55,345	1/4	70,178	1/4	85,113	1/4	100,087	1/4	115,058	1/4	130,019	1/4	144,858
1/2	11,258	1/2	26,245	1/2	41,109	1/2	55,647	1/2	70,489	1/2	85,426	1/2	100,399	1/2	115,370	1/2	130,331	1/2	145,137
3/4	11,570	3/4	26,558	3/4	41,414	3/4	55,950	3/4	70,799	3/4	85,738	3/4	100,711	3/4	115,681	3/4	130,642	3/4	145,415
9	11,883	9	26,870	9	41,719	9	56,252	9	71,109	9	86,050	9	101,023	9	115,993	9	130,954	9	145,694
1/4	12,195	1/4	27,182	1/4	42,024	1/4	56,556	1/4	71,419	1/4	86,362	1/4	101,335	1/4	116,305	1/4	131,266	1/4	145,957
1/2	12,507	1/2	27,494	1/2	42,329	1/2	56,860	1/2	71,729	1/2	86,674	1/2	101,648	1/2	116,616	1/2	131,577	1/2	146,219
3/4	12,819	3/4	27,806	3/4	42,634	3/4	57,164	3/4	72,040	3/4	86,986	3/4	101,960	3/4	116,928	3/4	131,889	3/4	146,482
10	13,132	10	28,118	10	42,939	10	57,468	10	72,350	10	87,299	10	102,272	10	117,240	10	132,201	10	146,745
1/4	13,444	1/4	28,430	1/4	43,244	1/4	57,773	1/4	72,660	1/4	87,611	1/4	102,584	1/4	117,551	1/4	132,513	1/4	146,992
1/2	13,756	1/2	28,742	1/2	43,549	1/2	58,079	1/2	72,970	1/2	87,923	1/2	102,896	1/2	117,863	1/2	132,824	1/2	147,239
3/4	14,068	3/4	29,054	3/4	43,853	3/4	58,385	3/4	73,280	3/4	88,235	3/4	103,208	3/4	118,175	3/4	133,136	3/4	147,487
11	14,381	11	29,366	11	44,158	11	58,690	11	73,591	11	88,547	11	103,520	11	118,486	11	133,448	11	147,734
1/4	14,693	1/4	29,678	1/4	44,462	1/4	58,999	1/4	73,901	1/4	88,859	1/4	103,832	1/4	118,798	1/4	133,759	1/4	147,965
1/2	15,005	1/2	29,990	1/2	44,765	1/2	59,308	1/2	74,211	1/2	89,170	1/2	104,144	1/2	119,110	1/2	134,071	1/2	148,196
3/4	15,317	3/4	30,303	3/4	45,068	3/4	59,616	3/4	74,521	3/4	89,482	3/4	104,457	3/4	119,422	3/4	134,383	3/4	148,427

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 3034"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05 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	148,658	0	159,037	0	169,395	0	179,724	0	190,038	0		0		0		0		0	
1/4	148,877	1/4	159,253	1/4	169,610	1/4	179,939	1/4	190,232	1/4		1/4		1/4		1/4		1/4	
1/2	149,097	1/2	159,469	1/2	169,826	1/2	180,154	1/2	190,425	1/2		1/2		1/2		1/2		1/2	
3/4	149,316	3/4	159,685	3/4	170,041	3/4	180,370	3/4	190,618	3/4		3/4		3/4		3/4		3/4	
1	149,536	1	159,901	1	170,256	1	180,585	1	190,811	1		1		1		1		1	
1/4	149,752	1/4	160,117	1/4	170,471	1/4	180,800	1/4	190,970	1/4		1/4		1/4		1/4		1/4	
1/2	149,968	1/2	160,333	1/2	170,686	1/2	181,015	1/2	191,130	1/2		1/2		1/2		1/2		1/2	
3/4	150,184	3/4	160,549	3/4	170,901	3/4	181,230	3/4	191,289	3/4		3/4		3/4		3/4		3/4	
2	150,400	2	160,765	2	171,117	2	181,446	2	191,449	2		2		2		2		2	
1/4	150,615	1/4	160,981	1/4	171,332	1/4	181,661	1/4	191,573	1/4		1/4		1/4		1/4		1/4	
1/2	150,831	1/2	161,197	1/2	171,547	1/2	181,876	1/2	191,696	1/2		1/2		1/2		1/2		1/2	
3/4	151,047	3/4	161,413	3/4	171,762	3/4	182,091	3/4	191,820	3/4		3/4		3/4		3/4		3/4	
3	151,263	3	161,629	3	171,977	3	182,306	3	191,943	3		3		3		3		3	
1/4	151,479	1/4	161,845	1/4	172,193	1/4	182,521	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	151,695	1/2	162,061	1/2	172,408	1/2	182,737	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	151,911	3/4	162,277	3/4	172,623	3/4	182,952	3/4		3/4		3/4		3/4		3/4		3/4	
4	152,127	4	162,492	4	172,838	4	183,167	4		4		4		4		4		4	
1/4	152,343	1/4	162,708	1/4	173,053	1/4	183,382	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,559	1/2	162,924	1/2	173,268	1/2	183,597	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	152,775	3/4	163,140	3/4	173,484	3/4	183,813	3/4		3/4		3/4		3/4		3/4		3/4	
5	152,991	5	163,356	5	173,699	5	184,028	5		5		5		5		5		5	
1/4	153,207	1/4	163,572	1/4	173,914	1/4	184,243	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,423	1/2	163,788	1/2	174,129	1/2	184,458	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,639	3/4	164,004	3/4	174,344	3/4	184,673	3/4		3/4		3/4		3/4		3/4		3/4	
6	153,855	6	164,220	6	174,560	6	184,889	6		6		6		6		6		6	
1/4	154,071	1/4	164,436	1/4	174,775	1/4	185,104	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,287	1/2	164,652	1/2	174,990	1/2	185,319	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,502	3/4	164,868	3/4	175,205	3/4	185,534	3/4		3/4		3/4		3/4		3/4		3/4	
7	154,718	7	165,084	7	175,420	7	185,749	7		7		7		7		7		7	
1/4	154,934	1/4	165,300	1/4	175,636	1/4	185,965	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,150	1/2	165,516	1/2	175,851	1/2	186,180	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,366	3/4	165,732	3/4	176,066	3/4	186,395	3/4		3/4		3/4		3/4		3/4		3/4	
8	155,582	8	165,948	8	176,281	8	186,610	8		8		8		8		8		8	
1/4	155,798	1/4	166,164	1/4	176,496	1/4	186,826	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,014	1/2	166,380	1/2	176,711	1/2	187,041	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,230	3/4	166,595	3/4	176,927	3/4	187,256	3/4		3/4		3/4		3/4		3/4		3/4	
9	156,446	9	166,811	9	177,142	9	187,471	9		9		9		9		9		9	
1/4	156,662	1/4	167,027	1/4	177,357	1/4	187,687	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,878	1/2	167,243	1/2	177,572	1/2	187,902	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,094	3/4	167,458	3/4	177,787	3/4	188,117	3/4		3/4		3/4		3/4		3/4		3/4	
10	157,310	10	167,674	10	178,003	10	188,332	10		10		10		10		10		10	
1/4	157,526	1/4	167,889	1/4	178,218	1/4	188,547	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,742	1/2	168,104	1/2	178,433	1/2	188,762	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,958	3/4	168,319	3/4	178,648	3/4	188,977	3/4		3/4		3/4		3/4		3/4		3/4	
11	158,174	11	168,534	11	178,863	11	189,192	11		11		11		11		11		11	
1/4	158,390	1/4	168,750	1/4	179,079	1/4	189,404	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,605	1/2	168,965	1/2	179,294	1/2	189,615	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,821	3/4	169,180	3/4	179,509	3/4	189,827	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3034"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	1,029	0	15,651	0	30,673	0	45,680	0	60,700	0	75,723	0	90,746	0	105,768	0	120,774	0	135,777
1/4	1,263	1/4	15,964	1/4	30,986	1/4	45,992	1/4	61,013	1/4	76,036	1/4	91,059	1/4	106,081	1/4	121,087	1/4	136,089
1/2	1,498	1/2	16,277	1/2	31,299	1/2	46,305	1/2	61,326	1/2	76,349	1/2	91,372	1/2	106,394	1/2	121,399	1/2	136,402
3/4	1,733	3/4	16,590	3/4	31,612	3/4	46,618	3/4	61,639	3/4	76,662	3/4	91,685	3/4	106,707	3/4	121,712	3/4	136,714
1	1,967	1	16,903	1	31,925	1	46,930	1	61,952	1	76,975	1	91,998	1	107,020	1	122,024	1	137,027
1/4	2,260	1/4	17,216	1/4	32,238	1/4	47,243	1/4	62,265	1/4	77,288	1/4	92,311	1/4	107,333	1/4	122,337	1/4	137,340
1/2	2,553	1/2	17,529	1/2	32,551	1/2	47,556	1/2	62,578	1/2	77,601	1/2	92,623	1/2	107,646	1/2	122,650	1/2	137,652
3/4	2,845	3/4	17,842	3/4	32,864	3/4	47,869	3/4	62,891	3/4	77,914	3/4	92,936	3/4	107,959	3/4	122,962	3/4	137,965
2	3,138	2	18,155	2	33,177	2	48,182	2	63,204	2	78,227	2	93,249	2	108,271	2	123,275	2	138,277
1/4	3,450	1/4	18,468	1/4	33,490	1/4	48,495	1/4	63,517	1/4	78,540	1/4	93,562	1/4	108,584	1/4	123,587	1/4	138,590
1/2	3,762	1/2	18,781	1/2	33,803	1/2	48,808	1/2	63,830	1/2	78,853	1/2	93,875	1/2	108,897	1/2	123,900	1/2	138,902
3/4	4,074	3/4	19,094	3/4	34,116	3/4	49,121	3/4	64,143	3/4	79,166	3/4	94,188	3/4	109,209	3/4	124,212	3/4	139,215
3	4,386	3	19,407	3	34,429	3	49,434	3	64,456	3	79,479	3	94,501	3	109,522	3	124,525	3	139,527
1/4	4,699	1/4	19,720	1/4	34,742	1/4	49,747	1/4	64,769	1/4	79,792	1/4	94,814	1/4	109,835	1/4	124,837	1/4	139,840
1/2	5,011	1/2	20,033	1/2	35,054	1/2	50,060	1/2	65,082	1/2	80,105	1/2	95,127	1/2	110,147	1/2	125,150	1/2	140,152
3/4	5,324	3/4	20,346	3/4	35,367	3/4	50,372	3/4	65,395	3/4	80,418	3/4	95,440	3/4	110,460	3/4	125,462	3/4	140,465
4	5,637	4	20,659	4	35,680	4	50,685	4	65,708	4	80,731	4	95,753	4	110,772	4	125,775	4	140,778
1/4	5,950	1/4	20,972	1/4	35,992	1/4	50,998	1/4	66,021	1/4	81,044	1/4	96,066	1/4	111,085	1/4	126,088	1/4	141,090
1/2	6,263	1/2	21,285	1/2	36,305	1/2	51,311	1/2	66,334	1/2	81,357	1/2	96,379	1/2	111,398	1/2	126,400	1/2	141,403
3/4	6,576	3/4	21,598	3/4	36,617	3/4	51,624	3/4	66,647	3/4	81,670	3/4	96,692	3/4	111,710	3/4	126,713	3/4	141,715
5	6,888	5	21,911	5	36,930	5	51,937	5	66,960	5	81,982	5	97,005	5	112,023	5	127,025	5	142,028
1/4	7,201	1/4	22,224	1/4	37,242	1/4	52,250	1/4	67,273	1/4	82,295	1/4	97,318	1/4	112,335	1/4	127,338	1/4	142,340
1/2	7,514	1/2	22,536	1/2	37,555	1/2	52,563	1/2	67,586	1/2	82,608	1/2	97,631	1/2	112,648	1/2	127,650	1/2	142,652
3/4	7,827	3/4	22,849	3/4	37,867	3/4	52,876	3/4	67,899	3/4	82,921	3/4	97,944	3/4	112,960	3/4	127,963	3/4	142,964
6	8,140	6	23,162	6	38,180	6	53,189	6	68,212	6	83,234	6	98,257	6	113,273	6	128,275	6	143,277
1/4	8,453	1/4	23,475	1/4	38,492	1/4	53,502	1/4	68,525	1/4	83,547	1/4	98,570	1/4	113,585	1/4	128,588	1/4	143,584
1/2	8,766	1/2	23,788	1/2	38,805	1/2	53,815	1/2	68,838	1/2	83,860	1/2	98,883	1/2	113,898	1/2	128,901	1/2	143,892
3/4	9,079	3/4	24,101	3/4	39,117	3/4	54,128	3/4	69,151	3/4	84,173	3/4	99,196	3/4	114,211	3/4	129,213	3/4	144,200
7	9,392	7	24,414	7	39,430	7	54,441	7	69,464	7	84,486	7	99,509	7	114,523	7	129,526	7	144,508
1/4	9,705	1/4	24,727	1/4	39,742	1/4	54,754	1/4	69,777	1/4	84,799	1/4	99,822	1/4	114,836	1/4	129,838	1/4	144,803
1/2	10,018	1/2	25,040	1/2	40,055	1/2	55,067	1/2	70,090	1/2	85,112	1/2	100,135	1/2	115,148	1/2	130,151	1/2	145,099
3/4	10,331	3/4	25,353	3/4	40,367	3/4	55,380	3/4	70,403	3/4	85,425	3/4	100,448	3/4	115,461	3/4	130,463	3/4	145,394
8	10,644	8	25,666	8	40,679	8	55,693	8	70,716	8	85,738	8	100,761	8	115,773	8	130,776	8	145,690
1/4	10,957	1/4	25,979	1/4	40,992	1/4	56,006	1/4	71,029	1/4	86,051	1/4	101,074	1/4	116,086	1/4	131,088	1/4	145,969
1/2	11,270	1/2	26,292	1/2	41,304	1/2	56,319	1/2	71,341	1/2	86,364	1/2	101,387	1/2	116,398	1/2	131,401	1/2	146,248
3/4	11,583	3/4	26,605	3/4	41,617	3/4	56,632	3/4	71,654	3/4	86,677	3/4	101,700	3/4	116,711	3/4	131,714	3/4	146,528
9	11,896	9	26,918	9	41,929	9	56,945	9	71,967	9	86,990	9	102,013	9	117,024	9	132,026	9	146,807
1/4	12,209	1/4	27,231	1/4	42,242	1/4	57,258	1/4	72,280	1/4	87,303	1/4	102,326	1/4	117,336	1/4	132,339	1/4	147,070
1/2	12,522	1/2	27,544	1/2	42,554	1/2	57,571	1/2	72,593	1/2	87,616	1/2	102,639	1/2	117,649	1/2	132,651	1/2	147,334
3/4	12,835	3/4	27,857	3/4	42,867	3/4	57,884	3/4	72,906	3/4	87,929	3/4	102,952	3/4	117,961	3/4	132,964	3/4	147,597
10	13,148	10	28,170	10	43,179	10	58,197	10	73,219	10	88,242	10	103,264	10	118,274	10	133,276	10	147,860
1/4	13,461	1/4	28,483	1/4	43,492	1/4	58,510	1/4	73,532	1/4	88,555	1/4	103,577	1/4	118,586	1/4	133,589	1/4	148,108
1/2	13,774	1/2	28,796	1/2	43,804	1/2	58,823	1/2	73,845	1/2	88,868	1/2	103,890	1/2	118,899	1/2	133,901	1/2	148,355
3/4	14,087	3/4	29,109	3/4	44,117	3/4	59,136	3/4	74,158	3/4	89,181	3/4	104,203	3/4	119,211	3/4	134,214	3/4	148,603
11	14,400	11	29,422	11	44,429	11	59,449	11	74,471	11	89,494	11	104,516	11	119,524	11	134,527	11	148,850
1/4	14,712	1/4	29,735	1/4	44,742	1/4	59,762	1/4	74,784	1/4	89,807	1/4	104,829	1/4	119,837	1/4	134,839	1/4	149,081
1/2	15,025	1/2	30,048	1/2	45,054	1/2	60,075	1/2	75,097	1/2	90,120	1/2	105,142	1/2	120,149	1/2	135,152	1/2	149,312
3/4	15,338	3/4	30,361	3/4	45,367	3/4	60,388	3/4	75,410	3/4	90,433	3/4	105,455	3/4	120,462	3/4	135,464	3/4	149,544

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 THREADS ON "MMC" VALVE OR 8" HATCH
 GAUGE POINT: (MMC) LOCATED 10'-06" OFF CENTERLINE AND 41'-09" FORWARD OF AFT BULKHEAD
 GAUGE POINT: (8") LOCATED 10'-06" OFF CENTERLINE AND 40'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HSM 3034"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-05"

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	149,775	0	160,160	0	170,524	0	180,859	0	191,179	0		0		0		0		0	
1/4	149,995	1/4	160,377	1/4	170,739	1/4	181,074	1/4	191,372	1/4		1/4		1/4		1/4		1/4	
1/2	150,214	1/2	160,593	1/2	170,955	1/2	181,290	1/2	191,566	1/2		1/2		1/2		1/2		1/2	
3/4	150,434	3/4	160,809	3/4	171,170	3/4	181,505	3/4	191,759	3/4		3/4		3/4		3/4		3/4	
1	150,653	1	161,025	1	171,385	1	181,720	1	191,952	1		1		1		1		1	
1/4	150,869	1/4	161,241	1/4	171,601	1/4	181,936	1/4	192,111	1/4		1/4		1/4		1/4		1/4	
1/2	151,086	1/2	161,457	1/2	171,816	1/2	182,151	1/2	192,271	1/2		1/2		1/2		1/2		1/2	
3/4	151,302	3/4	161,673	3/4	172,031	3/4	182,366	3/4	192,431	3/4		3/4		3/4		3/4		3/4	
2	151,518	2	161,889	2	172,247	2	182,581	2	192,591	2		2		2		2		2	
1/4	151,734	1/4	162,105	1/4	172,462	1/4	182,797	1/4	192,714	1/4		1/4		1/4		1/4		1/4	
1/2	151,950	1/2	162,321	1/2	172,677	1/2	183,012	1/2	192,838	1/2		1/2		1/2		1/2		1/2	
3/4	152,166	3/4	162,537	3/4	172,893	3/4	183,227	3/4	192,962	3/4		3/4		3/4		3/4		3/4	
3	152,382	3	162,753	3	173,108	3	183,443	3	193,085	3		3		3		3		3	
1/4	152,598	1/4	162,969	1/4	173,323	1/4	183,658	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	152,814	1/2	163,185	1/2	173,538	1/2	183,873	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,030	3/4	163,401	3/4	173,754	3/4	184,089	3/4		3/4		3/4		3/4		3/4		3/4	
4	153,246	4	163,618	4	173,969	4	184,304	4		4		4		4		4		4	
1/4	153,462	1/4	163,834	1/4	174,184	1/4	184,519	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	153,678	1/2	164,050	1/2	174,400	1/2	184,735	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	153,894	3/4	164,266	3/4	174,615	3/4	184,950	3/4		3/4		3/4		3/4		3/4		3/4	
5	154,111	5	164,482	5	174,830	5	185,165	5		5		5		5		5		5	
1/4	154,327	1/4	164,698	1/4	175,046	1/4	185,380	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	154,543	1/2	164,914	1/2	175,261	1/2	185,596	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	154,759	3/4	165,130	3/4	175,476	3/4	185,811	3/4		3/4		3/4		3/4		3/4		3/4	
6	154,975	6	165,346	6	175,692	6	186,026	6		6		6		6		6		6	
1/4	155,191	1/4	165,562	1/4	175,907	1/4	186,242	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	155,407	1/2	165,778	1/2	176,122	1/2	186,457	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	155,623	3/4	165,994	3/4	176,337	3/4	186,672	3/4		3/4		3/4		3/4		3/4		3/4	
7	155,839	7	166,210	7	176,553	7	186,888	7		7		7		7		7		7	
1/4	156,055	1/4	166,426	1/4	176,768	1/4	187,103	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	156,271	1/2	166,643	1/2	176,983	1/2	187,318	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	156,487	3/4	166,859	3/4	177,199	3/4	187,534	3/4		3/4		3/4		3/4		3/4		3/4	
8	156,703	8	167,075	8	177,414	8	187,749	8		8		8		8		8		8	
1/4	156,919	1/4	167,291	1/4	177,629	1/4	187,964	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	157,135	1/2	167,507	1/2	177,845	1/2	188,180	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	157,352	3/4	167,723	3/4	178,060	3/4	188,395	3/4		3/4		3/4		3/4		3/4		3/4	
9	157,568	9	167,939	9	178,275	9	188,611	9		9		9		9		9		9	
1/4	157,784	1/4	168,155	1/4	178,491	1/4	188,826	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,000	1/2	168,370	1/2	178,706	1/2	189,041	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	158,216	3/4	168,586	3/4	178,921	3/4	189,257	3/4		3/4		3/4		3/4		3/4		3/4	
10	158,432	10	168,802	10	179,137	10	189,472	10		10		10		10		10		10	
1/4	158,648	1/4	169,017	1/4	179,352	1/4	189,687	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	158,864	1/2	169,232	1/2	179,567	1/2	189,902	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,080	3/4	169,448	3/4	179,782	3/4	190,117	3/4		3/4		3/4		3/4		3/4		3/4	
11	159,296	11	169,663	11	179,998	11	190,332	11		11		11		11		11		11	
1/4	159,512	1/4	169,878	1/4	180,213	1/4	190,544	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	159,728	1/2	170,094	1/2	180,428	1/2	190,756	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	159,944	3/4	170,309	3/4	180,644	3/4	190,968	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "HSM 3034"

PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 5'-07"

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 AT GAUGE POINT

STRAPPED: 01/08/2020 CL
CALCULATED: 01/09/2020 CL
PRINTED: 01/09/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 01/2020

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



BARGE "HSM 3034"

STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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	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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PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "HSM 3034"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 4'-06"

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	99	0	254	0	406	0		0		0		0		0		0	
1/4	1	1/4	102	1/4	257	1/4	409	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	105	1/2	260	1/2	411	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	108	3/4	264	3/4	414	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	111	1	267	1	417	1		1		1		1		1		1	
1/4	4	1/4	114	1/4	270	1/4	420	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	117	1/2	274	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	120	3/4	277	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	123	2	280	2	428	2		2		2		2		2		2	
1/4	9	1/4	126	1/4	284	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	130	1/2	287	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	133	3/4	290	3/4	435	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	136	3	294	3	438	3		3		3		3		3		3	
1/4	15	1/4	139	1/4	297	1/4	441	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	142	1/2	300	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	145	3/4	303	3/4	445	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	148	4	307	4	448	4		4		4		4		4		4	
1/4	22	1/4	152	1/4	310	1/4	450	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	155	1/2	313	1/2	452	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	158	3/4	317	3/4	455	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	161	5	320	5	457	5		5		5		5		5		5	
1/4	30	1/4	164	1/4	323	1/4	459	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	32	1/2	168	1/2	326	1/2	461	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	171	3/4	330	3/4	464	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	174	6	333	6	466	6		6		6		6		6		6	
1/4	39	1/4	177	1/4	336	1/4	468	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	181	1/2	339	1/2	470	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	184	3/4	342	3/4	472	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	187	7	346	7	474	7		7		7		7		7		7	
1/4	48	1/4	190	1/4	349	1/4	475	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	194	1/2	352	1/2	477	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	197	3/4	355	3/4	479	3/4		3/4		3/4		3/4		3/4		3/4	
8	56	8	200	8	358	8	481	8		8		8		8		8		8	
1/4	58	1/4	204	1/4	361	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	61	1/2	207	1/2	364	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	210	3/4	367	3/4	485	3/4		3/4		3/4		3/4		3/4		3/4	
9	66	9	214	9	370	9	487	9		9		9		9		9		9	
1/4	69	1/4	217	1/4	373	1/4	488	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	220	1/2	376	1/2	489	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	224	3/4	380	3/4	490	3/4		3/4		3/4		3/4		3/4		3/4	
10	77	10	227	10	383	10	491	10		10		10		10		10		10	
1/4	80	1/4	230	1/4	386	1/4	492	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	234	1/2	388	1/2	493	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	85	3/4	237	3/4	391	3/4	493	3/4		3/4		3/4		3/4		3/4		3/4	
11	88	11	240	11	394	11	494	11		11		11		11		11		11	
1/4	91	1/4	244	1/4	397	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	247	1/2	400	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	97	3/4	250	3/4	403	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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