BARGE: HFL 3013

ULLAGE TRIM TABLE
MMC

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**	**BOW**	**STERN**
1 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
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	- 00-0/8	00-0/8
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	00-0/8	- 00-0/8
3 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
3 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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

LENGTH BETWEEN DRAFT MARKS: 235'-06"

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

December 28, 2016

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

BARGE: HFL 3013

JEFFBOAT 16-2307

1 PORT

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 5/8"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	199,048	0	184,581	0	170,113	0	155,645	0	141,178	0	126,710	0	112,242	0	97,774	0	83,306	0	68,838	0	54,373	0	39,909	0	25,441	0	11,433	0	
1/4		1/4	198,747	1/4	184,280	1/4	169,812	1/4	155,344	1/4	140,876	1/4	126,408	1/4	111,940	1/4	97,472	1/4	83,004	1/4	68,536	1/4	54,072	1/4	39,608	1/4	25,140	1/4	11,163	1/4	
1/2		1/2	198,446	1/2	183,979	1/2	169,511	1/2	155,043	1/2	140,575	1/2	126,107	1/2	111,639	1/2	97,171	1/2	82,703	1/2	68,235	1/2	53,771	1/2	39,306	1/2	24,838	1/2	10,893	1/2	
3/4		3/4	198,145	3/4	183,677	3/4	169,209	3/4	154,741	3/4	140,273	3/4	125,805	3/4	111,337	3/4	96,869	3/4	82,401	3/4	67,934	3/4	53,470	3/4	39,005	3/4	24,537	3/4	10,625	3/4	
1		1	197,844	1	183,376	1	168,908	1	154,440	1	139,972	1	125,504	1	111,036	1	96,568	1	82,100	1	67,632	1	53,168	1	38,703	1	24,235	1	10,359	1	
1/4		1/4	197,542	1/4	183,074	1/4	168,606	1/4	154,138	1/4	139,670	1/4	125,202	1/4	110,734	1/4	96,266	1/4	81,798	1/4	67,331	1/4	52,867	1/4	38,402	1/4	23,934	1/4	10,094	1/4	
1/2		1/2	197,241	1/2	182,773	1/2	168,305	1/2	153,837	1/2	139,369	1/2	124,901	1/2	110,433	1/2	95,965	1/2	81,497	1/2	67,029	1/2	52,566	1/2	38,100	1/2	23,632	1/2	9,828	1/2	
3/4		3/4	196,940	3/4	182,472	3/4	168,004	3/4	153,536	3/4	139,068	3/4	124,600	3/4	110,132	3/4	95,664	3/4	81,196	3/4	66,728	3/4	52,265	3/4	37,799	3/4	23,331	3/4	9,565	3/4	
2		2	196,638	2	182,170	2	167,702	2	153,234	2	138,766	2	124,298	2	109,830	2	95,362	2	80,894	2	66,427	2	51,963	2	37,498	2	23,030	2	9,303	2	
1/4		1/4	196,337	1/4	181,869	1/4	167,401	1/4	152,933	1/4	138,465	1/4	123,997	1/4	109,529	1/4	95,061	1/4	80,593	1/4	66,125	1/4	51,662	1/4	37,196	1/4	22,728	1/4	9,042	1/4	
1/2		1/2	196,035	1/2	181,567	1/2	167,099	1/2	152,631	1/2	138,163	1/2	123,695	1/2	109,227	1/2	94,759	1/2	80,291	1/2	65,824	1/2	51,361	1/2	36,895	1/2	22,427	1/2	8,780	1/2	
3/4		3/4	195,734	3/4	181,266	3/4	166,798	3/4	152,330	3/4	137,862	3/4	123,394	3/4	108,926	3/4	94,458	3/4	79,990	3/4	65,522	3/4	51,060	3/4	36,593	3/4	22,125	3/4	8,521	3/4	
3		3	195,432	3	180,964	3	166,496	3	152,028	3	137,561	3	123,093	3	108,625	3	94,157	3	79,689	3	65,221	3	50,759	3	36,292	3	21,824	3	8,264	3	
1/4		1/4	195,131	1/4	180,663	1/4	166,195	1/4	151,727	1/4	137,259	1/4	122,791	1/4	108,323	1/4	93,855	1/4	79,387	1/4	64,919	1/4	50,457	1/4	35,991	1/4	21,523	1/4	8,006	1/4	
1/2		1/2	194,830	1/2	180,362	1/2	165,894	1/2	151,426	1/2	136,958	1/2	122,490	1/2	108,022	1/2	93,554	1/2	79,086	1/2	64,618	1/2	50,156	1/2	35,689	1/2	21,221	1/2	7,749	1/2	
3/4		3/4	194,528	3/4	180,060	3/4	165,592	3/4	151,124	3/4	136,656	3/4	122,188	3/4	107,720	3/4	93,252	3/4	78,784	3/4	64,317	3/4	49,855	3/4	35,388	3/4	20,920	3/4	7,494	3/4	
4		4	194,227	4	179,759	4	165,291	4	150,823	4	136,355	4	121,887	4	107,419	4	92,951	4	78,483	4	64,015	4	49,554	4	35,086	4	20,618	4	7,241	4	
1/4		1/4	193,925	1/4	179,457	1/4	164,989	1/4	150,521	1/4	136,053	1/4	121,585	1/4	107,117	1/4	92,649	1/4	78,181	1/4	63,714	1/4	49,253	1/4	34,785	1/4	20,317	1/4	6,988	1/4	
1/2		1/2	193,624	1/2	179,156	1/2	164,688	1/2	150,220	1/2	135,752	1/2	121,284	1/2	106,816	1/2	92,348	1/2	77,880	1/2	63,412	1/2	48,951	1/2	34,483	1/2	20,015	1/2	6,735	1/2	
3/4		3/4	193,323	3/4	178,855	3/4	164,387	3/4	149,919	3/4	135,451	3/4	120,983	3/4	106,515	3/4	92,047	3/4	77,579	3/4	63,111	3/4	48,650	3/4	34,182	3/4	19,715	3/4	6,484	3/4	
5		5	193,021	5	178,553	5	164,085	5	149,617	5	135,149	5	120,681	5	106,213	5	91,745	5	77,277	5	62,810	5	48,349	5	33,881	5	19,416	5	6,235	5	
1/4		1/4	192,720	1/4	178,252	1/4	163,784	1/4	149,316	1/4	134,848	1/4	120,380	1/4	105,912	1/4	91,444	1/4	76,976	1/4	62,508	1/4	48,047	1/4	33,579	1/4	19,116	1/4	5,987	1/4	
1/2		1/2	192,418	1/2	177,950	1/2	163,482	1/2	149,014	1/2	134,546	1/2	120,078	1/2	105,610	1/2	91,142	1/2	76,674	1/2	62,207	1/2	47,746	1/2	33,278	1/2	18,817	1/2	5,738	1/2	
3/4		3/4	192,117	3/4	177,649	3/4	163,181	3/4	148,713	3/4	134,245	3/4	119,777	3/4	105,309	3/4	90,841	3/4	76,373	3/4	61,905	3/4	47,444	3/4	32,976	3/4	18,520	3/4	5,492	3/4	
6		6	191,815	6	177,347	6	162,879	6	148,412	6	133,944	6	119,476	6	105,008	6	90,540	6	76,072	6	61,604	6	47,143	6	32,675	6	18,225	6	5,248	6	
1/4		1/4	191,514	1/4	177,046	1/4	162,578	1/4	148,110	1/4	133,642	1/4	119,174	1/4	104,706	1/4	90,238	1/4	75,770	1/4	61,303	1/4	46,842	1/4	32,374	1/4	17,930	1/4	5,004	1/4	
1/2		1/2	191,213	1/2	176,745	1/2	162,277	1/2	147,809	1/2	133,341	1/2	118,873	1/2	104,405	1/2	89,937	1/2	75,469	1/2	61,001	1/2	46,540	1/2	32,072	1/2	17,635	1/2	4,760	1/2	
3/4		3/4	190,911	3/4	176,443	3/4	161,975	3/4	147,507	3/4	133,039	3/4	118,571	3/4	104,103	3/4	89,635	3/4	75,167	3/4	60,700	3/4	46,239	3/4	31,771	3/4	17,342	3/4	4,518	3/4	
7		7	190,610	7	176,142	7	161,674	7	147,206	7	132,738	7	118,270	7	103,802	7	89,334	7	74,866	7	60,398	7	45,937	7	31,469	7	17,051	7	4,279	7	
1/4		1/4	190,308	1/4	175,840	1/4	161,372	1/4	146,904	1/4	132,436	1/4	117,968	1/4	103,500	1/4	89,032	1/4	74,565	1/4	60,097	1/4	45,636	1/4	31,168	1/4	16,760	1/4	4,039	1/4	
5/8	203,412	1/2	190,007	1/2	175,539	1/2	161,071	1/2	146,603	1/2	132,135	1/2	117,667	1/2	103,199	1/2	88,731	1/2	74,263	1/2	59,796	1/2	45,334	1/2	30,866	1/2	16,469	1/2	3,800	1/2	
3/4	203,324	3/4	189,706	3/4	175,238	3/4	160,770	3/4	146,302	3/4	131,834	3/4	117,366	3/4	102,898	3/4	88,430	3/4	73,962	3/4	59,494	3/4	45,033	3/4	30,565	3/4	16,180	3/4	3,563	3/4	
8	203,148	8	189,404	8	174,936	8	160,468	8	146,000	8	131,532	8	117,064	8	102,596	8	88,128	8	73,660	8	59,193	8	44,732	8	30,264	8	15,893	8	3,329	8	
1/4	202,973	1/4	189,103	1/4	174,635	1/4	160,167	1/4	145,699	1/4	131,231	1/4	116,763	1/4	102,295	1/4	87,827	1/4	73,359	1/4	58,892	1/4	44,430	1/4	29,962	1/4	15,607	1/4	3,095	1/4	
1/2	202,797	1/2	188,801	1/2	174,333	1/2	159,865	1/2	145,397	1/2	130,929	1/2	116,461	1/2	101,993	1/2	87,525	1/2	73,057	1/2	58,590	1/2	44,129	1/2	29,661	1/2	15,320	1/2	2,861	1/2	
3/4	202,596	3/4	188,500	3/4	174,032	3/4	159,564	3/4	145,096	3/4	130,628	3/4	116,160	3/4	101,692	3/4	87,224	3/4	72,756	3/4	58,289	3/4	43,827	3/4	29,359	3/4	15,035	3/4	2,630	3/4	
9	202,370	9	188,198	9	173,730	9	159,262	9	144,795	9	130,327	9	115,859	9	101,391	9	86,923	9	72,455	9	57,988	9	43,526	9	29,058	9	14,753	9	2,402	9	
1/4	202,144	1/4	187,897	1/4	173,429	1/4	158,961	1/4	144,493	1/4	130,025	1/4	115,557	1/4	101,089	1/4	86,621	1/4	72,153	1/4	57,687	1/4	43,225	1/4	28,757	1/4	14,470	1/4	2,174	1/4	
1/2	201,918	1/2	187,596	1/2	173,128	1/2	158,660	1/2	144,192	1/2	129,724	1/2	115,256	1/2	100,788	1/2	86,320	1/2	71,852	1/2	57,385	1/2	42,923	1/2	28,455	1/2	14,188	1/2	1,945	1/2	
3/4	201,667	3/4	187,294	3/4	172,826	3/4	158,358	3/4	143,890	3/4	129,422	3/4	114,954	3/4	100,486	3/4	86,018	3/4	71,550	3/4	57,084	3/4	42,622	3/4	28,154	3/4	13,908	3/4	1,736	3/4	
10	201,390	10	186,993	10	172,525	10	158,057	10	143,589	10	129,121	10	114,653	10	100,185	10	85,717	10	71,249	10	56,783	10	42,320	10	27,852	10	13,629	10	1,546	10	
1/4	201,114	1/4	186,691	1/4	172,223	1/4	157,755	1/4	143,287	1/4	128,819	1/4	114,351	1/4	99,883	1/4	85,415	1/4	70,948	1/4	56,482	1/4	42,019	1/4	27,551	1/4	13,351	1/4	1,356	1/4	
1/2	200,838	1/2	186,390	1/2	171,922	1/2	157,454	1/2	142,986	1/2	128,518	1/2	114,050	1/2	99,582	1/2	85,114	1/2	70,646	1/2	56,180	1/2	41,717	1/2	27,249	1/2	13,073	1/2	1,167	1/2	
3/4	200,550	3/4	186,089	3/4	171,621	3/4	157,153	3/4	142,685	3/4	128,217	3/4	113,749	3/4	99,281	3/4	84,813	3/4	70,345	3/4	55,879	3/4	41,416	3/4	26,948	3/4	12,797	3/4	1,016	3/4	
11	200,250	11	185,787	11	171,319	11	156,851	11	142,383	11	127,915	11	113,447	11	98,979	11	84,511	11	70,043	11	55,578	11	41,115	11	26,647	11	12,523	11	906	11	
1/4	199,950	1/4	185,486	1/4	171,018	1/4	156,550	1/4	142,082	1/4	127,614	1/4	113,146	1/4	98,678	1/4	84,210	1/4	69,742	1/4	55,277	1/4	40,813	1/4	26,345	1/4	12,248	1/4	795	1/4	
1/2	199,650	1/2	185,184	1/2	170,716	1/2	156,248	1/2	141,780	1/2	127,312	1/2	112,844	1/2	98,376	1/2	83,908	1/2	69,441	1/2	54,976	1/2	40,512	1/2	26,044	1/2	11,974	1/2	685	1/2	
3/4	199,349	3/4	184,883	3/4	170,415	3/4	155,947	3/4	141,479	3/4	127,011	3/4	112,543	3/4	98,075	3/4	83,607	3/4	69,139	3/4	54,674	3/4	40,210	3/4	25,742	3/4	11,702	5/8	629	3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

BARGE: HFL 3013

JEFFBOAT 16-2307

1 STBD

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 5/8"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	198,406	0	183,985	0	169,563	0	155,141	0	140,719	0	126,297	0	111,874	0	97,452	0	83,030	0	68,608	0	54,192	0	39,783	0	25,360	0	11,396	0	
1/4		1/4	198,106	1/4	183,685	1/4	169,263	1/4	154,840	1/4	140,418	1/4	125,996	1/4	111,574	1/4	97,152	1/4	82,730	1/4	68,308	1/4	53,892	1/4	39,482	1/4	25,060	1/4	11,127	1/4	
1/2		1/2	197,806	1/2	183,384	1/2	168,962	1/2	154,540	1/2	140,118	1/2	125,696	1/2	111,273	1/2	96,851	1/2	82,429	1/2	68,007	1/2	53,592	1/2	39,182	1/2	24,759	1/2	10,858	1/2	
3/4		3/4	197,506	3/4	183,084	3/4	168,662	3/4	154,239	3/4	139,817	3/4	125,395	3/4	110,973	3/4	96,551	3/4	82,129	3/4	67,707	3/4	53,292	3/4	38,881	3/4	24,459	3/4	10,591	3/4	
1		1	197,205	1	182,783	1	168,361	1	153,939	1	139,517	1	125,095	1	110,672	1	96,250	1	81,828	1	67,406	1	52,992	1	38,581	1	24,159	1	10,327	1	
1/4		1/4	196,905	1/4	182,483	1/4	168,061	1/4	153,639	1/4	139,216	1/4	124,794	1/4	110,372	1/4	95,950	1/4	81,528	1/4	67,106	1/4	52,692	1/4	38,280	1/4	23,858	1/4	10,062	1/4	
1/2		1/2	196,605	1/2	182,182	1/2	167,760	1/2	153,338	1/2	138,916	1/2	124,494	1/2	110,072	1/2	95,649	1/2	81,227	1/2	66,805	1/2	52,392	1/2	37,980	1/2	23,558	1/2	9,797	1/2	
3/4		3/4	196,304	3/4	181,882	3/4	167,460	3/4	153,038	3/4	138,615	3/4	124,193	3/4	109,771	3/4	95,349	3/4	80,927	3/4	66,505	3/4	52,092	3/4	37,679	3/4	23,257	3/4	9,534	3/4	
2		2	196,004	2	181,582	2	167,159	2	152,737	2	138,315	2	123,893	2	109,471	2	95,048	2	80,626	2	66,204	2	51,792	2	37,379	2	22,957	2	9,274	2	
1/4		1/4	195,703	1/4	181,281	1/4	166,859	1/4	152,437	1/4	138,015	1/4	123,592	1/4	109,170	1/4	94,748	1/4	80,326	1/4	65,904	1/4	51,492	1/4	37,078	1/4	22,656	1/4	9,013	1/4	
1/2		1/2	195,403	1/2	180,981	1/2	166,558	1/2	152,136	1/2	137,714	1/2	123,292	1/2	108,870	1/2	94,448	1/2	80,025	1/2	65,604	1/2	51,192	1/2	36,778	1/2	22,356	1/2	8,752	1/2	
3/4		3/4	195,102	3/4	180,680	3/4	166,258	3/4	151,836	3/4	137,414	3/4	122,991	3/4	108,569	3/4	94,147	3/4	79,725	3/4	65,303	3/4	50,892	3/4	36,477	3/4	22,055	3/4	8,494	3/4	
3		3	194,802	3	180,380	3	165,957	3	151,535	3	137,113	3	122,691	3	108,269	3	93,847	3	79,424	3	65,003	3	50,592	3	36,177	3	21,755	3	8,237	3	
1/4		1/4	194,501	1/4	180,079	1/4	165,657	1/4	151,235	1/4	136,813	1/4	122,391	1/4	107,968	1/4	93,546	1/4	79,124	1/4	64,702	1/4	50,292	1/4	35,877	1/4	21,454	1/4	7,981	1/4	
1/2		1/2	194,201	1/2	179,779	1/2	165,357	1/2	150,934	1/2	136,512	1/2	122,090	1/2	107,668	1/2	93,246	1/2	78,824	1/2	64,402	1/2	49,992	1/2	35,576	1/2	21,154	1/2	7,725	1/2	
3/4		3/4	193,900	3/4	179,478	3/4	165,056	3/4	150,634	3/4	136,212	3/4	121,790	3/4	107,367	3/4	92,945	3/4	78,523	3/4	64,101	3/4	49,692	3/4	35,276	3/4	20,853	3/4	7,470	3/4	
4		4	193,600	4	179,178	4	164,756	4	150,333	4	135,911	4	121,489	4	107,067	4	92,645	4	78,223	4	63,801	4	49,392	4	34,975	4	20,553	4	7,218	4	
1/4		1/4	193,300	1/4	178,877	1/4	164,455	1/4	150,033	1/4	135,611	1/4	121,189	1/4	106,766	1/4	92,344	1/4	77,922	1/4	63,500	1/4	49,092	1/4	34,675	1/4	20,253	1/4	6,966	1/4	
1/2		1/2	192,999	1/2	178,577	1/2	164,155	1/2	149,733	1/2	135,310	1/2	120,888	1/2	106,466	1/2	92,044	1/2	77,622	1/2	63,200	1/2	48,792	1/2	34,374	1/2	19,952	1/2	6,714	1/2	
3/4		3/4	192,699	3/4	178,276	3/4	163,854	3/4	149,432	3/4	135,010	3/4	120,588	3/4	106,166	3/4	91,743	3/4	77,321	3/4	62,899	3/4	48,492	3/4	34,074	3/4	19,653	3/4	6,464	3/4	
5		5	192,398	5	177,976	5	163,554	5	149,132	5	134,709	5	120,287	5	105,865	5	91,443	5	77,021	5	62,599	5	48,192	5	33,773	5	19,354	5	6,216	5	
1/4		1/4	192,098	1/4	177,676	1/4	163,253	1/4	148,831	1/4	134,409	1/4	119,987	1/4	105,565	1/4	91,142	1/4	76,720	1/4	62,299	1/4	47,892	1/4	33,473	1/4	19,056	1/4	5,968	1/4	
1/2		1/2	191,797	1/2	177,375	1/2	162,953	1/2	148,531	1/2	134,109	1/2	119,686	1/2	105,264	1/2	90,842	1/2	76,420	1/2	61,998	1/2	47,593	1/2	33,172	1/2	18,758	1/2	5,720	1/2	
3/4		3/4	191,497	3/4	177,075	3/4	162,652	3/4	148,230	3/4	133,808	3/4	119,386	3/4	104,964	3/4	90,542	3/4	76,119	3/4	61,698	3/4	47,293	3/4	32,872	3/4	18,461	3/4	5,474	3/4	
6		6	191,196	6	176,774	6	162,352	6	147,930	6	133,508	6	119,085	6	104,663	6	90,241	6	75,819	6	61,397	6	46,993	6	32,571	6	18,167	6	5,231	6	
1/4		1/4	190,896	1/4	176,474	1/4	162,051	1/4	147,629	1/4	133,207	1/4	118,785	1/4	104,363	1/4	89,941	1/4	75,518	1/4	61,097	1/4	46,693	1/4	32,271	1/4	17,873	1/4	4,988	1/4	
1/2		1/2	190,595	1/2	176,173	1/2	161,751	1/2	147,329	1/2	132,907	1/2	118,484	1/2	104,062	1/2	89,640	1/2	75,218	1/2	60,796	1/2	46,393	1/2	31,971	1/2	17,579	1/2	4,745	1/2	
3/4		3/4	190,295	3/4	175,873	3/4	161,451	3/4	147,028	3/4	132,606	3/4	118,184	3/4	103,762	3/4	89,340	3/4	74,918	3/4	60,496	3/4	46,092	3/4	31,670	3/4	17,287	3/4	4,504	3/4	
7		7	189,994	7	175,572	7	161,150	7	146,728	7	132,306	7	117,884	7	103,461	7	89,039	7	74,617	7	60,196	7	45,792	7	31,370	7	16,997	7	4,265	7	
1/4		1/4	189,694	1/4	175,272	1/4	160,850	1/4	146,427	1/4	132,005	1/4	117,583	1/4	103,161	1/4	88,739	1/4	74,317	1/4	59,895	1/4	45,491	1/4	31,069	1/4	16,707	1/4	4,027	1/4	
5/8	202,756	1/2	189,394	1/2	174,971	1/2	160,549	1/2	146,127	1/2	131,705	1/2	117,283	1/2	102,860	1/2	88,438	1/2	74,016	1/2	59,595	1/2	45,191	1/2	30,769	1/2	16,417	1/2	3,788	1/2	
3/4	202,669	3/4	189,093	3/4	174,671	3/4	160,249	3/4	145,827	3/4	131,404	3/4	116,982	3/4	102,560	3/4	88,138	3/4	73,716	3/4	59,295	3/4	44,890	3/4	30,468	3/4	16,129	3/4	3,552	3/4	
8	202,493	8	188,793	8	174,370	8	159,948	8	145,526	8	131,104	8	116,682	8	102,260	8	87,837	8	73,415	8	58,994	8	44,590	8	30,168	8	15,843	8	3,319	8	
1/4	202,318	1/4	188,492	1/4	174,070	1/4	159,648	1/4	145,226	1/4	130,803	1/4	116,381	1/4	101,959	1/4	87,537	1/4	73,115	1/4	58,694	1/4	44,289	1/4	29,867	1/4	15,557	1/4	3,085	1/4	
1/2	202,143	1/2	188,192	1/2	173,770	1/2	159,347	1/2	144,925	1/2	130,503	1/2	116,081	1/2	101,659	1/2	87,236	1/2	72,814	1/2	58,394	1/2	43,989	1/2	29,567	1/2	15,272	1/2	2,852	1/2	
3/4	201,942	3/4	187,891	3/4	173,469	3/4	159,047	3/4	144,625	3/4	130,203	3/4	115,780	3/4	101,358	3/4	86,936	3/4	72,514	3/4	58,093	3/4	43,689	3/4	29,266	3/4	14,988	3/4	2,622	3/4	
9	201,717	9	187,591	9	173,169	9	158,746	9	144,324	9	129,902	9	115,480	9	101,058	9	86,636	9	72,213	9	57,793	9	43,388	9	28,966	9	14,706	9	2,394	9	
1/4	201,492	1/4	187,290	1/4	172,868	1/4	158,446	1/4	144,024	1/4	129,602	1/4	115,179	1/4	100,757	1/4	86,335	1/4	71,913	1/4	57,493	1/4	43,088	1/4	28,665	1/4	14,425	1/4	2,167	1/4	
1/2	201,266	1/2	186,990	1/2	172,568	1/2	158,145	1/2	143,723	1/2	129,301	1/2	114,879	1/2	100,457	1/2	86,035	1/2	71,613	1/2	57,193	1/2	42,787	1/2	28,365	1/2	14,143	1/2	1,939	1/2	
3/4	201,016	3/4	186,689	3/4	172,267	3/4	157,845	3/4	143,423	3/4	129,001	3/4	114,578	3/4	100,156	3/4	85,734	3/4	71,312	3/4	56,893	3/4	42,487	3/4	28,065	3/4	13,864	3/4	1,731	3/4	
10	200,741	10	186,389	10	171,967	10	157,545	10	143,122	10	128,700	10	114,278	10	99,856	10	85,434	10	71,012	10	56,593	10	42,186	10	27,764	10	13,586	10	1,541	10	
1/4	200,465	1/4	186,088	1/4	171,666	1/4	157,244	1/4	142,822	1/4	128,400	1/4	113,978	1/4	99,555	1/4	85,133	1/4	70,711	1/4	56,293	1/4	41,886	1/4	27,464	1/4	13,309	1/4	1,352	1/4	
1/2	200,190	1/2	185,788	1/2	171,366	1/2	156,944	1/2	142,521	1/2	128,099	1/2	113,677	1/2	99,255	1/2	84,833	1/2	70,411	1/2	55,992	1/2	41,585	1/2	27,163	1/2	13,031	1/2	1,163	1/2	
3/4	199,903	3/4	185,488	3/4	171,065	3/4	156,643	3/4	142,221	3/4	127,799	3/4	113,377	3/4	98,954	3/4	84,532	3/4	70,110	3/4	55,692	3/4	41,285	3/4	26,863	3/4	12,756	3/4	1,013	3/4	
11	199,604	11	185,187	11	170,765	11	156,343	11	141,921	11	127,498	11	113,076	11	98,654	11	84,232	11	69,810	11	55,392	11	40,984	11	26,562	11	12,483	11	903	11	
1/4	199,305	1/4	184,887	1/4	170,464	1/4	156,042	1/4	141,620	1/4	127,198	1/4	112,776	1/4	98,354	1/4	83,931	1/4	69,509	1/4	55,092	1/4	40,684	1/4	26,262	1/4	12,210	1/4	793	1/4	
1/2	199,006	1/2	184,586	1/2	170,164	1/2	155,742	1/2	141,320	1/2	126,897	1/2	112,475	1/2	98,053	1/2	83,631	1/2	69,209	1/2	54,792	1/2	40,383	1/2	25,961	1/2	11,936	1/2	682	1/2	
3/4	198,706	3/4	184,286	3/4	169,863	3/4	155,441	3/4	141,019	3/4	126,597	3/4	112,175	3/4	97,753	3/4	83,330	3/4	68,908	3/4	54,492	3/4	40,083	3/4	25,661	3/4	11,665	5/8	627	3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

BARGE: HFL 3013

JEFFBOAT 16-2307

2 PORT

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 3/8"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	214,556	0	199,173	0	183,789	0	168,405	0	153,022	0	137,638	0	122,254	0	106,870	0	91,487	0	76,103	0	60,719	0	45,338	0	29,959	0	14,575	0	
1/4		1/4	214,236	1/4	198,852	1/4	183,469	1/4	168,085	1/4	152,701	1/4	137,317	1/4	121,934	1/4	106,550	1/4	91,166	1/4	75,782	1/4	60,399	1/4	45,017	1/4	29,638	1/4	14,254	1/4	
1/2		1/2	213,915	1/2	198,532	1/2	183,148	1/2	167,764	1/2	152,381	1/2	136,997	1/2	121,613	1/2	106,229	1/2	90,846	1/2	75,462	1/2	60,078	1/2	44,697	1/2	29,318	1/2	13,934	1/2	
3/4		3/4	213,595	3/4	198,211	3/4	182,828	3/4	167,444	3/4	152,060	3/4	136,676	3/4	121,293	3/4	105,909	3/4	90,525	3/4	75,141	3/4	59,758	3/4	44,377	3/4	28,997	3/4	13,613	3/4	
1		1	213,275	1	197,891	1	182,507	1	167,123	1	151,740	1	136,356	1	120,972	1	105,588	1	90,205	1	74,821	1	59,437	1	44,056	1	28,677	1	13,293	1	
1/4		1/4	212,954	1/4	197,570	1/4	182,187	1/4	166,803	1/4	151,419	1/4	136,035	1/4	120,652	1/4	105,268	1/4	89,884	1/4	74,500	1/4	59,117	1/4	43,736	1/4	28,356	1/4	12,972	1/4	
1/2		1/2	212,634	1/2	197,250	1/2	181,866	1/2	166,482	1/2	151,099	1/2	135,715	1/2	120,331	1/2	104,947	1/2	89,564	1/2	74,180	1/2	58,796	1/2	43,416	1/2	28,036	1/2	12,652	1/2	
3/4		3/4	212,313	3/4	196,929	3/4	181,546	3/4	166,162	3/4	150,778	3/4	135,394	3/4	120,011	3/4	104,627	3/4	89,243	3/4	73,860	3/4	58,476	3/4	43,095	3/4	27,715	3/4	12,331	3/4	
2		2	211,993	2	196,609	2	181,225	2	165,841	2	150,458	2	135,074	2	119,690	2	104,306	2	88,923	2	73,539	2	58,156	2	42,775	2	27,395	2	12,011	2	
1/4		1/4	211,672	1/4	196,288	1/4	180,905	1/4	165,521	1/4	150,137	1/4	134,753	1/4	119,370	1/4	103,986	1/4	88,602	1/4	73,219	1/4	57,835	1/4	42,455	1/4	27,074	1/4	11,690	1/4	
1/2		1/2	211,352	1/2	195,968	1/2	180,584	1/2	165,200	1/2	149,817	1/2	134,433	1/2	119,049	1/2	103,665	1/2	88,282	1/2	72,898	1/2	57,515	1/2	42,135	1/2	26,754	1/2	11,370	1/2	
3/4		3/4	211,031	3/4	195,647	3/4	180,264	3/4	164,880	3/4	149,496	3/4	134,112	3/4	118,729	3/4	103,345	3/4	87,961	3/4	72,578	3/4	57,194	3/4	41,814	3/4	26,433	3/4	11,049	3/4	
3		3	210,711	3	195,327	3	179,943	3	164,559	3	149,176	3	133,792	3	118,408	3	103,025	3	87,641	3	72,257	3	56,874	3	41,494	3	26,113	3	10,729	3	
1/4		1/4	210,390	1/4	195,006	1/4	179,623	1/4	164,239	1/4	148,855	1/4	133,471	1/4	118,088	1/4	102,704	1/4	87,320	1/4	71,937	1/4	56,553	1/4	41,174	1/4	25,792	1/4	10,408	1/4	
1/2		1/2	210,070	1/2	194,686	1/2	179,302	1/2	163,918	1/2	148,535	1/2	133,151	1/2	117,767	1/2	102,384	1/2	87,000	1/2	71,616	1/2	56,233	1/2	40,853	1/2	25,472	1/2	10,088	1/2	
3/4		3/4	209,749	3/4	194,365	3/4	178,982	3/4	163,598	3/4	148,214	3/4	132,831	3/4	117,447	3/4	102,063	3/4	86,679	3/4	71,296	3/4	55,912	3/4	40,533	3/4	25,151	3/4	9,768	3/4	
4		4	209,429	4	194,045	4	178,661	4	163,277	4	147,894	4	132,510	4	117,126	4	101,743	4	86,359	4	70,975	4	55,592	4	40,213	4	24,831	4	9,447	4	
1/4		1/4	209,108	1/4	193,724	1/4	178,341	1/4	162,957	1/4	147,573	1/4	132,190	1/4	116,806	1/4	101,422	1/4	86,038	1/4	70,655	1/4	55,271	1/4	39,892	1/4	24,510	1/4	9,127	1/4	
1/2		1/2	208,788	1/2	193,404	1/2	178,020	1/2	162,637	1/2	147,253	1/2	131,869	1/2	116,485	1/2	101,102	1/2	85,718	1/2	70,334	1/2	54,951	1/2	39,572	1/2	24,190	1/2	8,806	1/2	
3/4		3/4	208,467	3/4	193,083	3/4	177,700	3/4	162,316	3/4	146,932	3/4	131,549	3/4	116,165	3/4	100,781	3/4	85,397	3/4	70,014	3/4	54,630	3/4	39,252	3/4	23,869	3/4	8,486	3/4	
5		5	208,147	5	192,763	5	177,379	5	161,996	5	146,612	5	131,228	5	115,844	5	100,461	5	85,077	5	69,693	5	54,310	5	38,931	5	23,549	5	8,166	5	
1/4		1/4	207,826	1/4	192,443	1/4	177,059	1/4	161,675	1/4	146,291	1/4	130,908	1/4	115,524	1/4	100,140	1/4	84,756	1/4	69,373	1/4	53,989	1/4	38,611	1/4	23,228	1/4	7,845	1/4	
1/2		1/2	207,506	1/2	192,122	1/2	176,738	1/2	161,355	1/2	145,971	1/2	130,587	1/2	115,203	1/2	99,820	1/2	84,436	1/2	69,052	1/2	53,669	1/2	38,291	1/2	22,908	1/2	7,525	1/2	
3/4		3/4	207,185	3/4	191,802	3/4	176,418	3/4	161,034	3/4	145,650	3/4	130,267	3/4	114,883	3/4	99,499	3/4	84,115	3/4	68,732	3/4	53,348	3/4	37,971	3/4	22,587	3/4	7,205	3/4	
6		6	206,865	6	191,481	6	176,097	6	160,714	6	145,330	6	129,946	6	114,562	6	99,179	6	83,795	6	68,411	6	53,028	6	37,650	6	22,267	6	6,885	6	
1/4		1/4	206,544	1/4	191,161	1/4	175,777	1/4	160,393	1/4	145,009	1/4	129,626	1/4	114,242	1/4	98,858	1/4	83,474	1/4	68,091	1/4	52,707	1/4	37,330	1/4	21,946	1/4	6,566	1/4	
1/2		1/2	206,224	1/2	190,840	1/2	175,456	1/2	160,073	1/2	144,689	1/2	129,305	1/2	113,921	1/2	98,538	1/2	83,154	1/2	67,770	1/2	52,387	1/2	37,009	1/2	21,626	1/2	6,246	1/2	
3/4		3/4	205,903	3/4	190,520	3/4	175,136	3/4	159,752	3/4	144,368	3/4	128,985	3/4	113,601	3/4	98,217	3/4	82,833	3/4	67,450	3/4	52,066	3/4	36,689	3/4	21,305	3/4	5,927	3/4	
7		7	205,583	7	190,199	7	174,815	7	159,432	7	144,048	7	128,664	7	113,280	7	97,897	7	82,513	7	67,129	7	51,746	7	36,369	7	20,985	7	5,607	7	
3/8	219,516	1/4	205,262	1/4	189,879	1/4	174,495	1/4	159,111	1/4	143,727	1/4	128,344	1/4	112,960	1/4	97,576	1/4	82,192	1/4	66,809	1/4	51,425	1/4	36,048	1/4	20,664	1/4	5,288	1/4	
1/2	219,422	1/2	204,942	1/2	189,558	1/2	174,174	1/2	158,791	1/2	143,407	1/2	128,023	1/2	112,639	1/2	97,256	1/2	81,872	1/2	66,488	1/2	51,105	1/2	35,728	1/2	20,344	1/2	4,969	1/2	
3/4	219,235	3/4	204,621	3/4	189,238	3/4	173,854	3/4	158,470	3/4	143,086	3/4	127,703	3/4	112,319	3/4	96,935	3/4	81,551	3/4	66,168	3/4	50,784	3/4	35,407	3/4	20,023	3/4	4,651	3/4	
8	219,049	8	204,301	8	188,917	8	173,533	8	158,150	8	142,766	8	127,382	8	111,998	8	96,615	8	81,231	8	65,847	8	50,464	8	35,087	8	19,703	8	4,333	8	
1/4	218,862	1/4	203,980	1/4	188,597	1/4	173,213	1/4	157,829	1/4	142,445	1/4	127,062	1/4	111,678	1/4	96,294	1/4	80,910	1/4	65,527	1/4	50,143	1/4	34,766	1/4	19,382	1/4	4,015	1/4	
1/2	218,648	1/2	203,660	1/2	188,276	1/2	172,892	1/2	157,509	1/2	142,125	1/2	126,741	1/2	111,357	1/2	95,974	1/2	80,590	1/2	65,206	1/2	49,823	1/2	34,446	1/2	19,062	1/2	3,697	1/2	
3/4	218,408	3/4	203,339	3/4	187,956	3/4	172,572	3/4	157,188	3/4	141,804	3/4	126,421	3/4	111,037	3/4	95,653	3/4	80,269	3/4	64,886	3/4	49,502	3/4	34,125	3/4	18,741	3/4	3,381	3/4	
9	218,167	9	203,019	9	187,635	9	172,251	9	156,868	9	141,484	9	126,100	9	110,716	9	95,333	9	79,949	9	64,565	9	49,182	9	33,805	9	18,421	9	3,064	9	
1/4	217,927	1/4	202,698	1/4	187,315	1/4	171,931	1/4	156,547	1/4	141,163	1/4	125,780	1/4	110,396	1/4	95,012	1/4	79,628	1/4	64,245	1/4	48,862	1/4	33,484	1/4	18,100	1/4	2,748	1/4	
1/2	217,660	1/2	202,378	1/2	186,994	1/2	171,610	1/2	156,227	1/2	140,843	1/2	125,459	1/2	110,075	1/2	94,692	1/2	79,308	1/2	63,924	1/2	48,541	1/2	33,164	1/2	17,780	1/2	2,449	1/2	
3/4	217,366	3/4	202,057	3/4	186,674	3/4	171,290	3/4	155,906	3/4	140,522	3/4	125,139	3/4	109,755	3/4	94,371	3/4	78,987	3/4	63,604	3/4	48,221	3/4	32,843	3/4	17,459	3/4	2,169	3/4	
10	217,072	10	201,737	10	186,353	10	170,969	10	155,586	10	140,202	10	124,818	10	109,434	10	94,051	10	78,667	10	63,283	10	47,900	10	32,523	10	17,139	10	1,889	10	
1/4	216,779	1/4	201,416	1/4	186,033	1/4	170,649	1/4	155,265	1/4	139,881	1/4	124,498	1/4	109,114	1/4	93,730	1/4	78,346	1/4	62,963	1/4	47,580	1/4	32,202	1/4	16,818	1/4	1,609	1/4	
1/2	216,472	1/2	201,096	1/2	185,712	1/2	170,328	1/2	154,945	1/2	139,561	1/2	124,177	1/2	108,793	1/2	93,410	1/2	78,026	1/2	62,642	1/2	47,259	1/2	31,882	1/2	16,498	1/2	1,369	1/2	
3/4	216,153	3/4	200,775	3/4	185,392	3/4	170,008	3/4	154,624	3/4	139,240	3/4	123,857	3/4	108,473	3/4	93,089	3/4	77,705	3/4	62,322	3/4	46,939	3/4	31,561	3/4	16,177	3/4	1,168	3/4	
11	215,834	11	200,455	11	185,071	11	169,687	11	154,304	11	138,920	11	123,536	11	108,152	11	92,769	11	77,385	11	62,001	11	46,619	11	31,241	11	15,857	11	968	11	
1/4	215,515	1/4	200,134	1/4	184,751	1/4	169,367	1/4	153,983	1/4	138,599	1/4	123,216	1/4	107,832	1/4	92,448	1/4	77,064	1/4	61,681	1/4	46,298	1/4	30,920	1/4	15,536	1/4	768	1/4	
1/2	215,196	1/2	199,814	1/2	184,430	1/2	169,046	1/2	153,663	1/2	138,279	1/2	122,895	1/2	107,511	1/2	92,128	1/2	76,744	1/2	61,360	1/2	45,978	1/2	30,600	1/2	15,216	3/8	667	1/2	
3/4	214,876	3/4	199,493	3/4	184,110	3/4	168,726	3/4	153,342	3/4	137,958	3/4	122,575	3/4	107,191	3/4	91,807	3/4	76,423	3/4	61,040	3/4	45,658	3/4	30,279	3/4	14,895	3/4		3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

BARGE: HFL 3013

JEFFBOAT 16-2307

2 STBD

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 5/8"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	214,413	0	199,062	0	183,709	0	168,356	0	153,004	0	137,651	0	122,298	0	106,945	0	91,593	0	76,240	0	60,890	0	45,549	0	30,218	0	14,865	0	
1/4		1/4	214,094	1/4	198,742	1/4	183,389	1/4	168,037	1/4	152,684	1/4	137,331	1/4	121,978	1/4	106,625	1/4	91,273	1/4	75,920	1/4	60,570	1/4	45,230	1/4	29,898	1/4	14,546	1/4	
1/2		1/2	213,775	1/2	198,422	1/2	183,069	1/2	167,717	1/2	152,364	1/2	137,011	1/2	121,658	1/2	106,306	1/2	90,953	1/2	75,600	1/2	60,251	1/2	44,911	1/2	29,578	1/2	14,226	1/2	
3/4		3/4	213,455	3/4	198,102	3/4	182,750	3/4	167,397	3/4	152,044	3/4	136,691	3/4	121,339	3/4	105,986	3/4	90,633	3/4	75,280	3/4	59,931	3/4	44,592	3/4	29,259	3/4	13,906	3/4	
1		1	213,135	1	197,783	1	182,430	1	167,077	1	151,724	1	136,371	1	121,019	1	105,666	1	90,313	1	74,961	1	59,611	1	44,272	1	28,939	1	13,586	1	
1/4		1/4	212,815	1/4	197,463	1/4	182,110	1/4	166,757	1/4	151,404	1/4	136,052	1/4	120,699	1/4	105,346	1/4	89,993	1/4	74,641	1/4	59,291	1/4	43,953	1/4	28,619	1/4	13,266	1/4	
1/2		1/2	212,496	1/2	197,143	1/2	181,790	1/2	166,437	1/2	151,085	1/2	135,732	1/2	120,379	1/2	105,026	1/2	89,673	1/2	74,321	1/2	58,972	1/2	43,634	1/2	28,299	1/2	12,946	1/2	
3/4		3/4	212,176	3/4	196,823	3/4	181,470	3/4	166,117	3/4	150,765	3/4	135,412	3/4	120,059	3/4	104,706	3/4	89,354	3/4	74,001	3/4	58,652	3/4	43,315	3/4	27,979	3/4	12,626	3/4	
2		2	211,856	2	196,503	2	181,150	2	165,798	2	150,445	2	135,092	2	119,739	2	104,387	2	89,034	2	73,681	2	58,332	2	42,996	2	27,659	2	12,307	2	
1/4		1/4	211,536	1/4	196,183	1/4	180,831	1/4	165,478	1/4	150,125	1/4	134,772	1/4	119,419	1/4	104,067	1/4	88,714	1/4	73,362	1/4	58,012	1/4	42,677	1/4	27,340	1/4	11,987	1/4	
1/2		1/2	211,216	1/2	195,863	1/2	180,511	1/2	165,158	1/2	149,805	1/2	134,452	1/2	119,100	1/2	103,747	1/2	88,394	1/2	73,042	1/2	57,693	1/2	42,357	1/2	27,020	1/2	11,667	1/2	
3/4		3/4	210,896	3/4	195,544	3/4	180,191	3/4	164,838	3/4	149,485	3/4	134,133	3/4	118,780	3/4	103,427	3/4	88,074	3/4	72,722	3/4	57,373	3/4	42,038	3/4	26,700	3/4	11,347	3/4	
3		3	210,576	3	195,224	3	179,871	3	164,518	3	149,165	3	133,813	3	118,460	3	103,107	3	87,754	3	72,402	3	57,053	3	41,719	3	26,380	3	11,027	3	
1/4		1/4	210,257	1/4	194,904	1/4	179,551	1/4	164,198	1/4	148,846	1/4	133,493	1/4	118,140	1/4	102,787	1/4	87,435	1/4	72,082	1/4	56,733	1/4	41,400	1/4	26,060	1/4	10,707	1/4	
1/2		1/2	209,937	1/2	194,584	1/2	179,231	1/2	163,879	1/2	148,526	1/2	133,173	1/2	117,820	1/2	102,467	1/2	87,115	1/2	71,763	1/2	56,414	1/2	41,081	1/2	25,740	1/2	10,388	1/2	
3/4		3/4	209,617	3/4	194,264	3/4	178,911	3/4	163,559	3/4	148,206	3/4	132,853	3/4	117,500	3/4	102,148	3/4	86,795	3/4	71,443	3/4	56,094	3/4	40,762	3/4	25,420	3/4	10,068	3/4	
4		4	209,297	4	193,944	4	178,592	4	163,239	4	147,886	4	132,533	4	117,181	4	101,828	4	86,475	4	71,123	4	55,774	4	40,442	4	25,101	4	9,748	4	
1/4		1/4	208,977	1/4	193,624	1/4	178,272	1/4	162,919	1/4	147,566	1/4	132,213	1/4	116,861	1/4	101,508	1/4	86,155	1/4	70,803	1/4	55,454	1/4	40,123	1/4	24,781	1/4	9,428	1/4	
1/2		1/2	208,657	1/2	193,305	1/2	177,952	1/2	162,599	1/2	147,246	1/2	131,894	1/2	116,541	1/2	101,188	1/2	85,835	1/2	70,483	1/2	55,134	1/2	39,804	1/2	24,461	1/2	9,108	1/2	
3/4		3/4	208,338	3/4	192,985	3/4	177,632	3/4	162,279	3/4	146,926	3/4	131,574	3/4	116,221	3/4	100,868	3/4	85,515	3/4	70,164	3/4	54,815	3/4	39,485	3/4	24,141	3/4	8,788	3/4	
5		5	208,018	5	192,665	5	177,312	5	161,959	5	146,607	5	131,254	5	115,901	5	100,548	5	85,196	5	69,844	5	54,495	5	39,166	5	23,821	5	8,469	5	
1/4		1/4	207,698	1/4	192,345	1/4	176,992	1/4	161,640	1/4	146,287	1/4	130,934	1/4	115,581	1/4	100,229	1/4	84,876	1/4	69,524	1/4	54,175	1/4	38,847	1/4	23,501	1/4	8,149	1/4	
1/2		1/2	207,378	1/2	192,025	1/2	176,672	1/2	161,320	1/2	145,967	1/2	130,614	1/2	115,261	1/2	99,909	1/2	84,556	1/2	69,204	1/2	53,855	1/2	38,527	1/2	23,181	1/2	7,830	1/2	
3/4		3/4	207,058	3/4	191,705	3/4	176,353	3/4	161,000	3/4	145,647	3/4	130,294	3/4	114,942	3/4	99,589	3/4	84,236	3/4	68,884	3/4	53,536	3/4	38,208	3/4	22,862	3/4	7,510	3/4	
6		6	206,738	6	191,386	6	176,033	6	160,680	6	145,327	6	129,974	6	114,622	6	99,269	6	83,916	6	68,565	6	53,216	6	37,889	6	22,542	6	7,191	6	
1/4		1/4	206,418	1/4	191,066	1/4	175,713	1/4	160,360	1/4	145,007	1/4	129,655	1/4	114,302	1/4	98,949	1/4	83,596	1/4	68,245	1/4	52,896	1/4	37,570	1/4	22,222	1/4	6,872	1/4	
1/2		1/2	206,099	1/2	190,746	1/2	175,393	1/2	160,040	1/2	144,688	1/2	129,335	1/2	113,982	1/2	98,629	1/2	83,277	1/2	67,925	1/2	52,576	1/2	37,251	1/2	21,902	1/2	6,552	1/2	
3/4		3/4	205,779	3/4	190,426	3/4	175,073	3/4	159,720	3/4	144,368	3/4	129,015	3/4	113,662	3/4	98,309	3/4	82,957	3/4	67,605	3/4	52,257	3/4	36,932	3/4	21,582	3/4	6,233	3/4	
7		7	205,459	7	190,106	7	174,753	7	159,401	7	144,048	7	128,695	7	113,342	7	97,990	7	82,637	7	67,286	7	51,937	7	36,612	7	21,262	7	5,915	7	
1/4		1/4	205,139	1/4	189,786	1/4	174,434	1/4	159,081	1/4	143,728	1/4	128,375	1/4	113,022	1/4	97,670	1/4	82,317	1/4	66,966	1/4	51,617	1/4	36,293	1/4	20,943	1/4	5,596	1/4	
5/8	219,044	1/2	204,819	1/2	189,466	1/2	174,114	1/2	158,761	1/2	143,408	1/2	128,055	1/2	112,703	1/2	97,350	1/2	81,997	1/2	66,646	1/2	51,298	1/2	35,974	1/2	20,623	1/2	5,277	1/2	
3/4	218,951	3/4	204,499	3/4	189,147	3/4	173,794	3/4	158,441	3/4	143,088	3/4	127,736	3/4	112,383	3/4	97,030	3/4	81,677	3/4	66,326	3/4	50,978	3/4	35,654	3/4	20,303	3/4	4,959	3/4	
8	218,764	8	204,180	8	188,827	8	173,474	8	158,121	8	142,768	8	127,416	8	112,063	8	96,710	8	81,357	8	66,007	8	50,658	8	35,335	8	19,983	8	4,642	8	
1/4	218,578	1/4	203,860	1/4	188,507	1/4	173,154	1/4	157,801	1/4	142,449	1/4	127,096	1/4	111,743	1/4	96,390	1/4	81,038	1/4	65,687	1/4	50,339	1/4	35,015	1/4	19,663	1/4	4,324	1/4	
1/2	218,391	1/2	203,540	1/2	188,187	1/2	172,834	1/2	157,482	1/2	142,129	1/2	126,776	1/2	111,423	1/2	96,070	1/2	80,718	1/2	65,367	1/2	50,019	1/2	34,696	1/2	19,343	1/2	4,007	1/2	
3/4	218,178	3/4	203,220	3/4	187,867	3/4	172,514	3/4	157,162	3/4	141,809	3/4	126,456	3/4	111,103	3/4	95,751	3/4	80,398	3/4	65,047	3/4	49,700	3/4	34,376	3/4	19,023	3/4	3,690	3/4	
9	217,938	9	202,900	9	187,547	9	172,195	9	156,842	9	141,489	9	126,136	9	110,784	9	95,431	9	80,078	9	64,727	9	49,380	9	34,056	9	18,704	9	3,374	9	
1/4	217,698	1/4	202,580	1/4	187,227	1/4	171,875	1/4	156,522	1/4	141,169	1/4	125,816	1/4	110,464	1/4	95,111	1/4	79,758	1/4	64,408	1/4	49,061	1/4	33,736	1/4	18,384	1/4	3,058	1/4	
1/2	217,458	1/2	202,260	1/2	186,908	1/2	171,555	1/2	156,202	1/2	140,849	1/2	125,497	1/2	110,144	1/2	94,791	1/2	79,438	1/2	64,088	1/2	48,741	1/2	33,417	1/2	18,064	1/2	2,742	1/2	
3/4	217,192	3/4	201,941	3/4	186,588	3/4	171,235	3/4	155,882	3/4	140,530	3/4	125,177	3/4	109,824	3/4	94,471	3/4	79,118	3/4	63,768	3/4	48,422	3/4	33,097	3/4	17,744	3/4	2,444	3/4	
10	216,899	10	201,621	10	186,268	10	170,915	10	155,562	10	140,210	10	124,857	10	109,504	10	94,151	10	78,799	10	63,448	10	48,103	10	32,777	10	17,424	10	2,165	10	
1/4	216,605	1/4	201,301	1/4	185,948	1/4	170,595	1/4	155,243	1/4	139,890	1/4	124,537	1/4	109,184	1/4	93,832	1/4	78,479	1/4	63,129	1/4	47,784	1/4	32,457	1/4	17,104	1/4	1,885	1/4	
1/2	216,312	1/2	200,981	1/2	185,628	1/2	170,275	1/2	154,923	1/2	139,570	1/2	124,217	1/2	108,864	1/2	93,512	1/2	78,159	1/2	62,809	1/2	47,464	1/2	32,137	1/2	16,784	1/2	1,606	1/2	
3/4	216,007	3/4	200,661	3/4	185,308	3/4	169,956	3/4	154,603	3/4	139,250	3/4	123,897	3/4	108,545	3/4	93,192	3/4	77,839	3/4	62,489	3/4	47,145	3/4	31,817	3/4	16,465	3/4	1,366	3/4	
11	215,688	11	200,341	11	184,989	11	169,636	11	154,283	11	138,930	11	123,578	11	108,225	11	92,872	11	77,519	11	62,169	11	46,826	11	31,498	11	16,145	11	1,166	11	
1/4	215,370	1/4	200,021	1/4	184,669	1/4	169,316	1/4	153,963	1/4	138,610	1/4	123,258	1/4	107,905	1/4	92,552	1/4	77,199	1/4	61,850	1/4	46,507	1/4	31,178	1/4	15,825	1/4	966	1/4	
1/2	215,052	1/2	199,702	1/2	184,349	1/2	168,996	1/2	153,643	1/2	138,291	1/2	122,938	1/2	107,585	1/2	92,232	1/2	76,880	1/2	61,530	1/2	46,187	1/2	30,858	1/2	15,505	1/2	766	1/2	
3/4	214,733	3/4	199,382	3/4	184,029	3/4	168,676	3/4	153,323	3/4	137,971	3/4	122,618	3/4	107,265	3/4	91,912	3/4	76,560	3/4	61,210	3/4	45,868	3/4	30,538	3/4	15,185	5/8	666	3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

BARGE: HFL 3013

JEFFBOAT 16-2307

3 PORT

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 1/4"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	194,696	0	184,065	0	173,433	0	162,801	0	152,169	0	137,299	0	121,935	0	106,571	0	91,207	0	75,844	0	60,480	0	45,117	0	29,756	0	14,396	0	
1/4		1/4	194,475	1/4	183,844	1/4	173,212	1/4	162,580	1/4	151,948	1/4	136,979	1/4	121,615	1/4	106,251	1/4	90,887	1/4	75,524	1/4	60,160	1/4	44,797	1/4	29,436	1/4	14,076	1/4	
1/2		1/2	194,254	1/2	183,622	1/2	172,990	1/2	162,358	1/2	151,726	1/2	136,658	1/2	121,295	1/2	105,931	1/2	90,567	1/2	75,204	1/2	59,840	1/2	44,477	1/2	29,116	1/2	13,756	1/2	
3/4		3/4	194,032	3/4	183,401	3/4	172,769	3/4	162,137	3/4	151,505	3/4	136,338	3/4	120,975	3/4	105,611	3/4	90,247	3/4	74,884	3/4	59,520	3/4	44,157	3/4	28,796	3/4	13,436	3/4	
1		1	193,811	1	183,179	1	172,547	1	161,915	1	151,283	1	136,018	1	120,655	1	105,291	1	89,927	1	74,563	1	59,200	1	43,837	1	28,476	1	13,116	1	
1/4		1/4	193,590	1/4	182,958	1/4	172,326	1/4	161,694	1/4	151,062	1/4	135,698	1/4	120,334	1/4	104,971	1/4	89,607	1/4	74,243	1/4	58,880	1/4	43,517	1/4	28,156	1/4	12,795	1/4	
1/2		1/2	193,368	1/2	182,736	1/2	172,104	1/2	161,472	1/2	150,742	1/2	135,378	1/2	120,014	1/2	104,651	1/2	89,287	1/2	73,923	1/2	58,560	1/2	43,196	1/2	27,837	1/2	12,475	1/2	
3/4		3/4	193,147	3/4	182,515	3/4	171,883	3/4	161,251	3/4	150,422	3/4	135,058	3/4	119,694	3/4	104,331	3/4	88,967	3/4	73,603	3/4	58,240	3/4	42,876	3/4	27,517	3/4	12,155	3/4	
2		2	192,925	2	182,293	2	171,661	2	161,029	2	150,102	2	134,738	2	119,374	2	104,011	2	88,647	2	73,283	2	57,919	2	42,556	2	27,197	2	11,835	2	
1/4		1/4	192,704	1/4	182,072	1/4	171,440	1/4	160,808	1/4	149,782	1/4	134,418	1/4	119,054	1/4	103,690	1/4	88,327	1/4	72,963	1/4	57,599	1/4	42,236	1/4	26,877	1/4	11,515	1/4	
1/2		1/2	192,482	1/2	181,850	1/2	171,218	1/2	160,586	1/2	149,462	1/2	134,098	1/2	118,734	1/2	103,370	1/2	88,007	1/2	72,643	1/2	57,279	1/2	41,916	1/2	26,557	1/2	11,195	1/2	
3/4		3/4	192,261	3/4	181,629	3/4	170,997	3/4	160,365	3/4	149,141	3/4	133,778	3/4	118,414	3/4	103,050	3/4	87,687	3/4	72,323	3/4	56,959	3/4	41,596	3/4	26,237	3/4	10,875	3/4	
3		3	192,039	3	181,407	3	170,775	3	160,143	3	148,821	3	133,458	3	118,094	3	102,730	3	87,367	3	72,003	3	56,639	3	41,276	3	25,917	3	10,555	3	
1/4		1/4	191,818	1/4	181,186	1/4	170,554	1/4	159,922	1/4	148,501	1/4	133,138	1/4	117,774	1/4	102,410	1/4	87,046	1/4	71,683	1/4	56,319	1/4	40,956	1/4	25,597	1/4	10,235	1/4	
1/2		1/2	191,596	1/2	180,964	1/2	170,332	1/2	159,700	1/2	148,181	1/2	132,818	1/2	117,454	1/2	102,090	1/2	86,726	1/2	71,363	1/2	55,999	1/2	40,636	1/2	25,277	1/2	9,915	1/2	
3/4		3/4	191,375	3/4	180,743	3/4	170,111	3/4	159,479	3/4	147,861	3/4	132,497	3/4	117,134	3/4	101,770	3/4	86,406	3/4	71,043	3/4	55,679	3/4	40,316	3/4	24,957	3/4	9,595	3/4	
4		4	191,153	4	180,521	4	169,889	4	159,257	4	147,541	4	132,177	4	116,814	4	101,450	4	86,086	4	70,723	4	55,359	4	39,996	4	24,637	4	9,275	4	
1/4		1/4	190,932	1/4	180,300	1/4	169,668	1/4	159,036	1/4	147,221	1/4	131,857	1/4	116,494	1/4	101,130	1/4	85,766	1/4	70,402	1/4	55,039	1/4	39,676	1/4	24,317	1/4	8,955	1/4	
1/2		1/2	190,710	1/2	180,078	1/2	169,446	1/2	158,814	1/2	146,901	1/2	131,537	1/2	116,173	1/2	100,810	1/2	85,446	1/2	70,082	1/2	54,719	1/2	39,356	1/2	23,997	1/2	8,635	1/2	
3/4		3/4	190,489	3/4	179,857	3/4	169,225	3/4	158,593	3/4	146,581	3/4	131,217	3/4	115,853	3/4	100,490	3/4	85,126	3/4	69,762	3/4	54,399	3/4	39,036	3/4	23,677	3/4	8,315	3/4	
5		5	190,267	5	179,635	5	169,003	5	158,371	5	146,261	5	130,897	5	115,533	5	100,170	5	84,806	5	69,442	5	54,078	5	38,716	5	23,357	5	7,995	5	
1/4		1/4	190,046	1/4	179,414	1/4	168,782	1/4	158,150	1/4	145,941	1/4	130,577	1/4	115,213	1/4	99,850	1/4	84,486	1/4	69,122	1/4	53,758	1/4	38,396	1/4	23,037	1/4	7,675	1/4	
1/2		1/2	189,824	1/2	179,192	1/2	168,560	1/2	157,928	1/2	145,621	1/2	130,257	1/2	114,893	1/2	99,529	1/2	84,166	1/2	68,802	1/2	53,438	1/2	38,076	1/2	22,717	1/2	7,356	1/2	
3/4		3/4	189,603	3/4	178,971	3/4	168,339	3/4	157,707	3/4	145,301	3/4	129,937	3/4	114,573	3/4	99,209	3/4	83,846	3/4	68,482	3/4	53,118	3/4	37,756	3/4	22,398	3/4	7,036	3/4	
6		6	189,381	6	178,749	6	168,117	6	157,485	6	144,980	6	129,617	6	114,253	6	98,889	6	83,526	6	68,162	6	52,798	6	37,436	6	22,078	6	6,717	6	
1/4		1/4	189,160	1/4	178,528	1/4	167,896	1/4	157,264	1/4	144,660	1/4	129,297	1/4	113,933	1/4	98,569	1/4	83,206	1/4	67,842	1/4	52,478	1/4	37,116	1/4	21,758	1/4	6,397	1/4	
1/2		1/2	188,938	1/2	178,306	1/2	167,674	1/2	157,042	1/2	144,340	1/2	128,977	1/2	113,613	1/2	98,249	1/2	82,885	1/2	67,522	1/2	52,158	1/2	36,796	1/2	21,438	1/2	6,078	1/2	
3/4		3/4	188,717	3/4	178,085	3/4	167,453	3/4	156,821	3/4	144,020	3/4	128,657	3/4	113,293	3/4	97,929	3/4	82,565	3/4	67,202	3/4	51,838	3/4	36,476	3/4	21,117	3/4	5,760	3/4	
7		7	188,495	7	177,863	7	167,231	7	156,599	7	143,700	7	128,336	7	112,973	7	97,609	7	82,245	7	66,882	7	51,518	7	36,156	7	20,797	7	5,441	7	
1/4	197,937	1/4	188,274	1/4	177,642	1/4	167,010	1/4	156,378	1/4	143,380	1/4	128,016	1/4	112,653	1/4	97,289	1/4	81,925	1/4	66,562	1/4	51,198	1/4	35,836	1/4	20,477	1/4	5,122	1/4	
1/2	197,849	1/2	188,052	1/2	177,420	1/2	166,788	1/2	156,156	1/2	143,060	1/2	127,696	1/2	112,333	1/2	96,969	1/2	81,605	1/2	66,241	1/2	50,878	1/2	35,516	1/2	20,157	1/2	4,804	1/2	
3/4	197,761	3/4	187,831	3/4	177,199	3/4	166,567	3/4	155,935	3/4	142,740	3/4	127,376	3/4	112,012	3/4	96,649	3/4	81,285	3/4	65,921	3/4	50,558	3/4	35,196	3/4	19,837	3/4	4,486	3/4	
8	197,672	8	187,609	8	176,977	8	166,345	8	155,713	8	142,420	8	127,056	8	111,692	8	96,329	8	80,965	8	65,601	8	50,238	8	34,876	8	19,517	8	4,168	8	
1/4	197,584	1/4	187,388	1/4	176,756	1/4	166,124	1/4	155,492	1/4	142,100	1/4	126,736	1/4	111,372	1/4	96,009	1/4	80,645	1/4	65,281	1/4	49,918	1/4	34,556	1/4	19,197	1/4	3,850	1/4	
1/2	197,443	1/2	187,166	1/2	176,534	1/2	165,902	1/2	155,270	1/2	141,780	1/2	126,416	1/2	111,052	1/2	95,689	1/2	80,325	1/2	64,961	1/2	49,597	1/2	34,236	1/2	18,877	1/2	3,534	1/2	
3/4	197,301	3/4	186,945	3/4	176,313	3/4	165,681	3/4	155,049	3/4	141,460	3/4	126,096	3/4	110,732	3/4	95,368	3/4	80,005	3/4	64,641	3/4	49,277	3/4	33,916	3/4	18,557	3/4	3,218	3/4	
9	197,160	9	186,723	9	176,091	9	165,459	9	154,827	9	141,140	9	125,776	9	110,412	9	95,048	9	79,685	9	64,321	9	48,957	9	33,596	9	18,237	9	2,902	9	
1/4	197,018	1/4	186,502	1/4	175,870	1/4	165,238	1/4	154,606	1/4	140,819	1/4	125,456	1/4	110,092	1/4	94,728	1/4	79,365	1/4	64,001	1/4	48,637	1/4	33,276	1/4	17,917	1/4	2,586	1/4	
1/2	196,824	1/2	186,280	1/2	175,648	1/2	165,016	1/2	154,384	1/2	140,499	1/2	125,136	1/2	109,772	1/2	94,408	1/2	79,045	1/2	63,681	1/2	48,317	1/2	32,956	1/2	17,597	1/2	2,306	1/2	
3/4	196,629	3/4	186,059	3/4	175,427	3/4	164,795	3/4	154,163	3/4	140,179	3/4	124,816	3/4	109,452	3/4	94,088	3/4	78,724	3/4	63,361	3/4	47,997	3/4	32,636	3/4	17,277	3/4	2,026	3/4	
10	196,434	10	185,837	10	175,205	10	164,573	10	153,941	10	139,859	10	124,496	10	109,132	10	93,768	10	78,404	10	63,041	10	47,677	10	32,316	10	16,957	10	1,747	10	
1/4	196,239	1/4	185,616	1/4	174,984	1/4	164,352	1/4	153,720	1/4	139,539	1/4	124,175	1/4	108,812	1/4	93,448	1/4	78,084	1/4	62,721	1/4	47,357	1/4	31,996	1/4	16,636	1/4	1,467	1/4	
1/2	196,019	1/2	185,394	1/2	174,762	1/2	164,130	1/2	153,498	1/2	139,219	1/2	123,855	1/2	108,492	1/2	93,128	1/2	77,764	1/2	62,401	1/2	47,037	1/2	31,676	1/2	16,316	1/2	1,267	1/2	
3/4	195,800	3/4	185,173	3/4	174,541	3/4	163,909	3/4	153,277	3/4	138,899	3/4	123,535	3/4	108,172	3/4	92,808	3/4	77,444	3/4	62,080	3/4	46,717	3/4	31,356	3/4	15,996	3/4	1,067	3/4	
11	195,580	11	184,951	11	174,319	11	163,687	11	153,055	11	138,579	11	123,215	11	107,851	11	92,488	11	77,124	11	61,760	11	46,397	11	31,036	11	15,676	11	867	11	
1/4	195,360	1/4	184,730	1/4	174,098	1/4	163,466	1/4	152,834	1/4	138,259	1/4	122,895	1/4	107,531	1/4	92,168	1/4	76,804	1/4	61,440	1/4	46,077	1/4	30,716	1/4	15,356	1/4	667	1/4	
1/2	195,138	1/2	184,508	1/2	173,876	1/2	163,244	1/2	152,612	1/2	137,939	1/2	122,575	1/2	107,211	1/2	91,848	1/2	76,484	1/2	61,120	1/2	45,757	1/2	30,396	1/2	15,036	1/2		1/2	
3/4	194,917	3/4	184,287	3/4	173,655	3/4	163,023	3/4	152,391	3/4	137,619	3/4	122,255	3/4	106,891	3/4	91,528	3/4	76,164	3/4	60,800	3/4	45,437	3/4	30,076	3/4	14,716	3/4		3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

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BARGE: HFL 3013

JEFFBOAT 16-2307

3 STBD

ULLAGE TABLE

MMC

CAPACITIES GIVEN IN WHOLE GALLONS

FOR MANUAL GAUGING AT 2" BALL VALVE LOCATED NEAR GEOMETRIC CENTER OF TANK

REFERENCE GAUGE HEIGHT: 15'-11 3/4"

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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	194,857	0	184,224	0	173,590	0	162,955	0	152,321	0	137,664	0	122,320	0	106,976	0	91,635	0	76,296	0	60,988	0	45,659	0	30,365	0	15,024	0	
1/4		1/4	194,636	1/4	184,002	1/4	173,368	1/4	162,734	1/4	152,099	1/4	137,344	1/4	122,000	1/4	106,657	1/4	91,315	1/4	75,977	1/4	60,669	1/4	45,340	1/4	30,046	1/4	14,705	1/4	
1/2		1/2	194,415	1/2	183,781	1/2	173,146	1/2	162,512	1/2	151,878	1/2	137,024	1/2	121,681	1/2	106,337	1/2	90,995	1/2	75,658	1/2	60,350	1/2	45,022	1/2	29,726	1/2	14,385	1/2	
3/4		3/4	194,193	3/4	183,559	3/4	172,925	3/4	162,291	3/4	151,656	3/4	136,705	3/4	121,361	3/4	106,017	3/4	90,676	3/4	75,338	3/4	60,031	3/4	44,703	3/4	29,406	3/4	14,065	3/4	
1		1	193,972	1	183,338	1	172,703	1	162,069	1	151,435	1	136,385	1	121,041	1	105,698	1	90,356	1	75,019	1	59,713	1	44,385	1	29,087	1	13,746	1	
1/4		1/4	193,750	1/4	183,116	1/4	172,482	1/4	161,847	1/4	151,213	1/4	136,065	1/4	120,722	1/4	105,378	1/4	90,036	1/4	74,700	1/4	59,394	1/4	44,066	1/4	28,767	1/4	13,426	1/4	
1/2		1/2	193,529	1/2	182,895	1/2	172,260	1/2	161,626	1/2	150,992	1/2	135,746	1/2	120,402	1/2	105,058	1/2	89,717	1/2	74,380	1/2	59,075	1/2	43,747	1/2	28,448	1/2	13,106	1/2	
3/4		3/4	193,307	3/4	182,673	3/4	172,039	3/4	161,404	3/4	150,770	3/4	135,426	3/4	120,082	3/4	104,739	3/4	89,397	3/4	74,061	3/4	58,756	3/4	43,429	3/4	28,128	3/4	12,787	3/4	
2		2	193,086	2	182,452	2	171,817	2	161,183	2	150,450	2	135,107	2	119,763	2	104,419	2	89,078	2	73,742	2	58,437	2	43,110	2	27,809	2	12,467	2	
1/4		1/4	192,864	1/4	182,230	1/4	171,596	1/4	160,961	1/4	150,131	1/4	134,787	1/4	119,443	1/4	104,099	1/4	88,758	1/4	73,423	1/4	58,118	1/4	42,792	1/4	27,489	1/4	12,147	1/4	
1/2		1/2	192,643	1/2	182,008	1/2	171,374	1/2	160,740	1/2	149,811	1/2	134,467	1/2	119,123	1/2	103,780	1/2	88,438	1/2	73,103	1/2	57,799	1/2	42,473	1/2	27,170	1/2	11,828	1/2	
3/4		3/4	192,421	3/4	181,787	3/4	171,152	3/4	160,518	3/4	149,491	3/4	134,148	3/4	118,804	3/4	103,460	3/4	88,119	3/4	72,784	3/4	57,480	3/4	42,155	3/4	26,850	3/4	11,508	3/4	
3		3	192,200	3	181,565	3	170,931	3	160,297	3	149,172	3	133,828	3	118,484	3	103,141	3	87,799	3	72,465	3	57,160	3	41,836	3	26,531	3	11,188	3	
1/4		1/4	191,978	1/4	181,344	1/4	170,709	1/4	160,075	1/4	148,852	1/4	133,508	1/4	118,164	1/4	102,821	1/4	87,480	1/4	72,145	1/4	56,841	1/4	41,518	1/4	26,211	1/4	10,869	1/4	
1/2		1/2	191,757	1/2	181,122	1/2	170,488	1/2	159,853	1/2	148,532	1/2	133,189	1/2	117,845	1/2	102,501	1/2	87,160	1/2	71,826	1/2	56,521	1/2	41,199	1/2	25,892	1/2	10,549	1/2	
3/4		3/4	191,535	3/4	180,901	3/4	170,266	3/4	159,632	3/4	148,213	3/4	132,869	3/4	117,525	3/4	102,182	3/4	86,840	3/4	71,507	3/4	56,201	3/4	40,881	3/4	25,572	3/4	10,229	3/4	
4		4	191,313	4	180,679	4	170,045	4	159,410	4	147,893	4	132,549	4	117,205	4	101,862	4	86,521	4	71,188	4	55,882	4	40,562	4	25,253	4	9,910	4	
1/4		1/4	191,092	1/4	180,458	1/4	169,823	1/4	159,189	1/4	147,573	1/4	132,230	1/4	116,886	1/4	101,542	1/4	86,201	1/4	70,868	1/4	55,562	1/4	40,244	1/4	24,933	1/4	9,590	1/4	
1/2		1/2	190,870	1/2	180,236	1/2	169,602	1/2	158,967	1/2	147,254	1/2	131,910	1/2	116,566	1/2	101,223	1/2	85,882	1/2	70,549	1/2	55,242	1/2	39,925	1/2	24,613	1/2	9,271	1/2	
3/4		3/4	190,649	3/4	180,014	3/4	169,380	3/4	158,746	3/4	146,934	3/4	131,590	3/4	116,246	3/4	100,903	3/4	85,562	3/4	70,230	3/4	54,923	3/4	39,607	3/4	24,294	3/4	8,951	3/4	
5		5	190,427	5	179,793	5	169,159	5	158,524	5	146,614	5	131,271	5	115,927	5	100,584	5	85,242	5	69,911	5	54,603	5	39,288	5	23,974	5	8,631	5	
1/4		1/4	190,206	1/4	179,571	1/4	168,937	1/4	158,303	1/4	146,295	1/4	130,951	1/4	115,607	1/4	100,264	1/4	84,923	1/4	69,592	1/4	54,284	1/4	38,970	1/4	23,655	1/4	8,312	1/4	
1/2		1/2	189,984	1/2	179,350	1/2	168,715	1/2	158,081	1/2	145,975	1/2	130,631	1/2	115,287	1/2	99,944	1/2	84,603	1/2	69,274	1/2	53,964	1/2	38,651	1/2	23,335	1/2	7,992	1/2	
3/4		3/4	189,763	3/4	179,128	3/4	168,494	3/4	157,860	3/4	145,655	3/4	130,312	3/4	114,968	3/4	99,625	3/4	84,283	3/4	68,955	3/4	53,644	3/4	38,333	3/4	23,016	3/4	7,673	3/4	
6		6	189,541	6	178,907	6	168,272	6	157,638	6	145,336	6	129,992	6	114,648	6	99,305	6	83,964	6	68,636	6	53,325	6	38,014	6	22,696	6	7,354	6	
1/4		1/4	189,320	1/4	178,685	1/4	168,051	1/4	157,416	1/4	145,016	1/4	129,672	1/4	114,328	1/4	98,986	1/4	83,644	1/4	68,318	1/4	53,005	1/4	37,696	1/4	22,377	1/4	7,035	1/4	
1/2		1/2	189,098	1/2	178,464	1/2	167,829	1/2	157,195	1/2	144,696	1/2	129,353	1/2	114,009	1/2	98,666	1/2	83,325	1/2	67,999	1/2	52,685	1/2	37,377	1/2	22,057	1/2	6,716	1/2	
3/4		3/4	188,876	3/4	178,242	3/4	167,608	3/4	156,973	3/4	144,377	3/4	129,033	3/4	113,689	3/4	98,346	3/4	83,005	3/4	67,680	3/4	52,366	3/4	37,059	3/4	21,737	3/4	6,397	3/4	
7		7	188,655	7	178,021	7	167,386	7	156,752	7	144,057	7	128,713	7	113,369	7	98,027	7	82,685	7	67,362	7	52,046	7	36,740	7	21,418	7	6,078	7	
1/4		1/4	188,433	1/4	177,799	1/4	167,165	1/4	156,530	1/4	143,737	1/4	128,394	1/4	113,050	1/4	97,707	1/4	82,366	1/4	67,043	1/4	51,726	1/4	36,422	1/4	21,098	1/4	5,760	1/4	
1/2		1/2	188,212	1/2	177,577	1/2	166,943	1/2	156,309	1/2	143,418	1/2	128,074	1/2	112,730	1/2	97,388	1/2	82,046	1/2	66,724	1/2	51,407	1/2	36,103	1/2	20,778	1/2	5,441	1/2	
3/4	197,656	3/4	187,990	3/4	177,356	3/4	166,722	3/4	156,087	3/4	143,098	3/4	127,754	3/4	112,410	3/4	97,068	3/4	81,727	3/4	66,406	3/4	51,087	3/4	35,785	3/4	20,459	3/4	5,123	3/4	
8	197,568	8	187,769	8	177,134	8	166,500	8	155,866	8	142,778	8	127,435	8	112,091	8	96,748	8	81,407	8	66,087	8	50,768	8	35,466	8	20,139	8	4,805	8	
1/4	197,480	1/4	187,547	1/4	176,913	1/4	166,278	1/4	155,644	1/4	142,459	1/4	127,115	1/4	111,771	1/4	96,429	1/4	81,087	1/4	65,769	1/4	50,448	1/4	35,148	1/4	19,819	1/4	4,487	1/4	
1/2	197,391	1/2	187,326	1/2	176,691	1/2	166,057	1/2	155,422	1/2	142,139	1/2	126,795	1/2	111,452	1/2	96,109	1/2	80,768	1/2	65,450	1/2	50,128	1/2	34,829	1/2	19,500	1/2	4,169	1/2	
3/4	197,303	3/4	187,104	3/4	176,470	3/4	165,835	3/4	155,201	3/4	141,819	3/4	126,476	3/4	111,132	3/4	95,789	3/4	80,448	3/4	65,132	3/4	49,809	3/4	34,511	3/4	19,180	3/4	3,851	3/4	
9	197,162	9	186,883	9	176,248	9	165,614	9	154,979	9	141,500	9	126,156	9	110,812	9	95,470	9	80,129	9	64,813	9	49,489	9	34,192	9	18,860	9	3,535	9	
1/4	197,020	1/4	186,661	1/4	176,027	1/4	165,392	1/4	154,758	1/4	141,180	1/4	125,836	1/4	110,493	1/4	95,150	1/4	79,809	1/4	64,495	1/4	49,169	1/4	33,874	1/4	18,541	1/4	3,219	1/4	
1/2	196,879	1/2	186,439	1/2	175,805	1/2	165,171	1/2	154,536	1/2	140,860	1/2	125,517	1/2	110,173	1/2	94,831	1/2	79,489	1/2	64,176	1/2	48,850	1/2	33,555	1/2	18,221	1/2	2,903	1/2	
3/4	196,737	3/4	186,218	3/4	175,583	3/4	164,949	3/4	154,315	3/4	140,541	3/4	125,197	3/4	109,853	3/4	94,511	3/4	79,170	3/4	63,858	3/4	48,530	3/4	33,237	3/4	17,901	3/4	2,587	3/4	
10	196,542	10	185,996	10	175,362	10	164,728	10	154,093	10	140,221	10	124,877	10	109,534	10	94,191	10	78,850	10	63,539	10	48,211	10	32,918	10	17,582	10	2,307	10	
1/4	196,348	1/4	185,775	1/4	175,140	1/4	164,506	1/4	153,872	1/4	139,901	1/4	124,558	1/4	109,214	1/4	93,872	1/4	78,531	1/4	63,220	1/4	47,891	1/4	32,600	1/4	17,262	1/4	2,027	1/4	
1/2	196,153	1/2	185,553	1/2	174,919	1/2	164,284	1/2	153,650	1/2	139,582	1/2	124,238	1/2	108,894	1/2	93,552	1/2	78,212	1/2	62,901	1/2	47,571	1/2	32,281	1/2	16,942	1/2	1,747	1/2	
3/4	195,958	3/4	185,332	3/4	174,697	3/4	164,063	3/4	153,429	3/4	139,262	3/4	123,918	3/4	108,575	3/4	93,233	3/4	77,893	3/4	62,582	3/4	47,252	3/4	31,963	3/4	16,623	3/4	1,467	3/4	
11	195,738	11	185,110	11	174,476	11	163,841	11	153,207	11	138,942	11	123,599	11	108,255	11	92,913	11	77,573	11	62,264	11	46,933	11	31,643	11	16,303	11	1,267	11	
1/4	195,518	1/4	184,889	1/4	174,254	1/4	163,620	1/4	152,985	1/4	138,623	1/4	123,279	1/4	107,935	1/4	92,593	1/4	77,254	1/4	61,945	1/4	46,614	1/4	31,324	1/4	15,983	1/4	1,067	1/4	
1/2	195,298	1/2	184,667	1/2	174,033	1/2	163,398	1/2	152,764	1/2	138,303	1/2	122,959	1/2	107,616	1/2	92,274	1/2	76,935	1/2	61,626	1/2	46,296	1/2	31,004	1/2	15,664	1/2	867	1/2	
3/4	195,078	3/4	184,445	3/4	173,811	3/4	163,177	3/4	152,542	3/4	137,983	3/4	122,640	3/4	107,296	3/4	91,954	3/4	76,615	3/4	61,307	3/4	45,977	3/4	30,685	3/4	15,344	3/4	667	3/4	

NOTE: GAUGE POINT: TO TOP LIP OF BALL VALVE, ON 18" DECK PIPE.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

DATE STRAPPED: 12/18/2016 BY: JM
DATE COMPUTED: 12/28/2016 BY: CL
DATE ISSUED: 12/28/2016

THIS CHART IS CERTIFIED FOR THE ABOVE NAMED TANK ONLY. NO CHANGES OF ANY KIND CAN BE MADE WITHOUT THE WRITTEN CONSENT OF OUR COMPANY.

BARGE: HFL 3013

JEFFBOAT 16-2307

PORT SLOP

ULLAGE TABLE

8" HATCH

CAPACITIES GIVEN IN GALLONS

REFERENCE GAUGE HEIGHT: 6'-01 7/8"

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.	IN	10 FT.	IN	11 FT.
0		0		0	5,015	0	3,808	0	2,602	0	1,395	0	189	0		0		0		0		0	
1/4		1/4		1/4	4,990	1/4	3,783	1/4	2,576	1/4	1,370	1/4	163	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,964	1/2	3,758	1/2	2,551	1/2	1,345	1/2	138	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,939	3/4	3,733	3/4	2,526	3/4	1,320	3/4	113	3/4		3/4		3/4		3/4		3/4	
1		1		1	4,914	1	3,708	1	2,501	1	1,295	1	88	1		1		1		1		1	
1/4		1/4		1/4	4,889	1/4	3,682	1/4	2,476	1/4	1,269	1/4	63	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,864	1/2	3,657	1/2	2,451	1/2	1,244	1/2	38	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,839	3/4	3,632	3/4	2,426	3/4	1,219	3/4	13	3/4		3/4		3/4		3/4		3/4	
2		2		2	4,814	2	3,607	2	2,401	2	1,194	7/8	0	2		2		2		2		2	
1/4		1/4		1/4	4,789	1/4	3,582	1/4	2,375	1/4	1,169	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,763	1/2	3,557	1/2	2,350	1/2	1,144	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,738	3/4	3,532	3/4	2,325	3/4	1,119	3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3	4,713	3	3,507	3	2,300	3	1,093	3		3		3		3		3		3	
1/4		1/4		1/4	4,688	1/4	3,481	1/4	2,275	1/4	1,068	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,663	1/2	3,456	1/2	2,250	1/2	1,043	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,638	3/4	3,431	3/4	2,225	3/4	1,018	3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4	4,613	4	3,406	4	2,199	4	993	4		4		4		4		4		4	
1/4		1/4		1/4	4,587	1/4	3,381	1/4	2,174	1/4	968	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,562	1/2	3,356	1/2	2,149	1/2	943	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,537	3/4	3,331	3/4	2,124	3/4	917	3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5	4,512	5	3,305	5	2,099	5	892	5		5		5		5		5		5	
1/4		1/4		1/4	4,487	1/4	3,280	1/4	2,074	1/4	867	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,462	1/2	3,255	1/2	2,049	1/2	842	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,437	3/4	3,230	3/4	2,023	3/4	817	3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6	4,411	6	3,205	6	1,998	6	792	6		6		6		6		6		6	
1/4		1/4		1/4	4,386	1/4	3,180	1/4	1,973	1/4	767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,361	1/2	3,155	1/2	1,948	1/2	742	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,336	3/4	3,129	3/4	1,923	3/4	716	3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7	4,311	7	3,104	7	1,898	7	691	7		7		7		7		7		7	
1/4		3/8	5,480	1/4	4,286	1/4	3,079	1/4	1,873	1/4	666	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,467	1/2	4,261	1/2	3,054	1/2	1,848	1/2	641	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,442	3/4	4,236	3/4	3,029	3/4	1,822	3/4	616	3/4		3/4		3/4		3/4		3/4		3/4	
8		8	5,417	8	4,210	8	3,004	8	1,797	8	591	8		8		8		8		8		8	
1/4		1/4	5,392	1/4	4,185	1/4	2,979	1/4	1,772	1/4	566	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,367	1/2	4,160	1/2	2,954	1/2	1,747	1/2	540	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,342	3/4	4,135	3/4	2,928	3/4	1,722	3/4	515	3/4		3/4		3/4		3/4		3/4		3/4	
9		9	5,316	9	4,110	9	2,903	9	1,697	9	490	9		9		9		9		9		9	
1/4		1/4	5,291	1/4	4,085	1/4	2,878	1/4	1,672	1/4	465	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,266	1/2	4,060	1/2	2,853	1/2	1,646	1/2	440	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,241	3/4	4,034	3/4	2,828	3/4	1,621	3/4	415	3/4		3/4		3/4		3/4		3/4		3/4	
10		10	5,216	10	4,009	10	2,803	10	1,596	10	390	10		10		10		10		10		10	
1/4		1/4	5,191	1/4	3,984	1/4	2,778	1/4	1,571	1/4	364	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,166	1/2	3,959	1/2	2,752	1/2	1,546	1/2	339	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,140	3/4	3,934	3/4	2,727	3/4	1,521	3/4	314	3/4		3/4		3/4		3/4		3/4		3/4	
11		11	5,115	11	3,909	11	2,702	11	1,496	11	289	11		11		11		11		11		11	
1/4		1/4	5,090	1/4	3,884	1/4	2,677	1/4	1,470	1/4	264	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,065	1/2	3,858	1/2	2,652	1/2	1,445	1/2	239	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,040	3/4	3,833	3/4	2,627	3/4	1,420	3/4	214	3/4		3/4		3/4		3/4		3/4		3/4	

NOTE: GAUGE POINT: TO TOP LIP OF 8" HATCH.
NOTE: GAUGE POINT LOCATED NEAR GEOMETRIC CENTER OF TANK
NOTE: FOR GREATER ACCURACY, BARGE SHOULD BE UPRIGHT AND ON EVEN KEEL
NOTE: MEASURED AND COMPUTED IN ACCORDANCE WITH API MPMS 2.7

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DATE COMPUTED: 01/20/2017 BY: CL
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BARGE: HFL 3013

JEFFBOAT 16-2307

STBD SLOP

ULLAGE TABLE

8" HATCH

CAPACITIES GIVEN IN GALLONS

REFERENCE GAUGE HEIGHT: 6'-02 1/8"

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.	IN	10 FT.	IN	11 FT.
0		0		0	4,804	0	3,654	0	2,504	0	1,354	0	204	0		0		0		0		0	
1/4		1/4		1/4	4,780	1/4	3,630	1/4	2,480	1/4	1,330	1/4	180	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,756	1/2	3,606	1/2	2,456	1/2	1,306	1/2	156	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,732	3/4	3,582	3/4	2,432	3/4	1,282	3/4	132	3/4		3/4		3/4		3/4		3/4	
1		1		1	4,708	1	3,558	1	2,408	1	1,258	1	108	1		1		1		1		1	
1/4		1/4		1/4	4,684	1/4	3,534	1/4	2,384	1/4	1,234	1/4	84	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,660	1/2	3,510	1/2	2,360	1/2	1,210	1/2	60	1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,636	3/4	3,486	3/4	2,336	3/4	1,186	3/4	36	3/4		3/4		3/4		3/4		3/4	
2		2		2	4,612	2	3,462	2	2,312	2	1,162	2	12	2		2		2		2		2	
1/4		1/4		1/4	4,588	1/4	3,438	1/4	2,288	1/4	1,138	1/8	0	1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,564	1/2	3,414	1/2	2,264	1/2	1,114	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,540	3/4	3,390	3/4	2,240	3/4	1,090	3/4		3/4		3/4		3/4		3/4		3/4	
3		3		3	4,516	3	3,366	3	2,216	3	1,066	3		3		3		3		3		3	
1/4		1/4		1/4	4,493	1/4	3,342	1/4	2,192	1/4	1,042	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,469	1/2	3,318	1/2	2,168	1/2	1,018	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,445	3/4	3,295	3/4	2,144	3/4	994	3/4		3/4		3/4		3/4		3/4		3/4	
4		4		4	4,421	4	3,271	4	2,120	4	970	4		4		4		4		4		4	
1/4		1/4		1/4	4,397	1/4	3,247	1/4	2,097	1/4	946	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,373	1/2	3,223	1/2	2,073	1/2	922	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,349	3/4	3,199	3/4	2,049	3/4	899	3/4		3/4		3/4		3/4		3/4		3/4	
5		5		5	4,325	5	3,175	5	2,025	5	875	5		5		5		5		5		5	
1/4		1/4		1/4	4,301	1/4	3,151	1/4	2,001	1/4	851	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,277	1/2	3,127	1/2	1,977	1/2	827	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,253	3/4	3,103	3/4	1,953	3/4	803	3/4		3/4		3/4		3/4		3/4		3/4	
6		6		6	4,229	6	3,079	6	1,929	6	779	6		6		6		6		6		6	
1/4		1/4		1/4	4,205	1/4	3,055	1/4	1,905	1/4	755	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2		1/2	4,181	1/2	3,031	1/2	1,881	1/2	731	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4		3/4	4,157	3/4	3,007	3/4	1,857	3/4	707	3/4		3/4		3/4		3/4		3/4		3/4	
7		7		7	4,133	7	2,983	7	1,833	7	683	7		7		7		7		7		7	
1/4		3/8	5,247	1/4	4,109	1/4	2,959	1/4	1,809	1/4	659	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,235	1/2	4,085	1/2	2,935	1/2	1,785	1/2	635	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,211	3/4	4,061	3/4	2,911	3/4	1,761	3/4	611	3/4		3/4		3/4		3/4		3/4		3/4	
8		8	5,187	8	4,037	8	2,887	8	1,737	8	587	8		8		8		8		8		8	
1/4		1/4	5,163	1/4	4,013	1/4	2,863	1/4	1,713	1/4	563	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,139	1/2	3,989	1/2	2,839	1/2	1,689	1/2	539	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,116	3/4	3,965	3/4	2,815	3/4	1,665	3/4	515	3/4		3/4		3/4		3/4		3/4		3/4	
9		9	5,092	9	3,941	9	2,791	9	1,641	9	491	9		9		9		9		9		9	
1/4		1/4	5,068	1/4	3,917	1/4	2,767	1/4	1,617	1/4	467	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	5,044	1/2	3,894	1/2	2,743	1/2	1,593	1/2	443	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	5,020	3/4	3,870	3/4	2,719	3/4	1,569	3/4	419	3/4		3/4		3/4		3/4		3/4		3/4	
10		10	4,996	10	3,846	10	2,696	10	1,545	10	395	10		10		10		10		10		10	
1/4		1/4	4,972	1/4	3,822	1/4	2,672	1/4	1,521	1/4	371	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,948	1/2	3,798	1/2	2,648	1/2	1,498	1/2	347	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,924	3/4	3,774	3/4	2,624	3/4	1,474	3/4	323	3/4		3/4		3/4		3/4		3/4		3/4	
11		11	4,900	11	3,750	11	2,600	11	1,450	11	300	11		11		11		11		11		11	
1/4		1/4	4,876	1/4	3,726	1/4	2,576	1/4	1,426	1/4	276	1/4		1/4		1/4		1/4		1/4		1/4	
1/2		1/2	4,852	1/2	3,702	1/2	2,552	1/2	1,402	1/2	252	1/2		1/2		1/2		1/2		1/2		1/2	
3/4		3/4	4,828	3/4	3,678	3/4	2,528	3/4	1,378	3/4	228	3/4		3/4		3/4		3/4		3/4		3/4	

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