



BARGE "KIRBY 29160"

ULLAGE TRIM TABLE

FORMERLY "SMI 30024"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 6'-00"
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-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"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

November 29, 2021

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29160"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

FORMERLY "SMI 30024"

GAUGE HEIGHT 17'-04 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.						
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8					
	1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4					
	1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2					
	3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4					
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9					
	1/4		1/4		1/4	5,106.01		1/4	4,836.98		1/4	4,478.14		1/4	4,119.29		1/4	3,401.59		1/4	3,042.74		1/4	2,683.90
	1/2		1/2		1/2	5,105.39		1/2	4,829.50		1/2	4,470.66		1/2	4,111.81		1/2	3,394.11		1/2	3,035.26		1/2	2,676.42
	3/4		3/4		3/4	5,104.77		3/4	4,822.03		3/4	4,463.18		3/4	4,104.33		3/4	3,386.64		3/4	3,027.79		3/4	2,668.94
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
	1/4		1/4		1/4	5,103.52		1/4	4,807.08		1/4	4,448.23		1/4	4,089.38		1/4	3,370.54		1/4	3,017.69		1/4	2,653.99
	1/2		1/2		1/2	5,101.65		1/2	4,799.60		1/2	4,440.75		1/2	4,081.90		1/2	3,364.21		1/2	3,005.36		1/2	2,646.51
	3/4		3/4		3/4	5,099.79		3/4	4,792.13		3/4	4,433.28		3/4	4,074.43		3/4	3,356.73		3/4	2,997.89		3/4	2,639.04
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11					
	1/4		1/4		1/4	5,096.05		1/4	4,777.18		1/4	4,418.33		1/4	4,059.48		1/4	3,341.78		1/4	2,982.94		1/4	2,624.09
	1/2		1/2		1/2	5,092.94		1/2	4,769.70		1/2	4,410.85		1/2	4,052.00		1/2	3,334.30		1/2	2,975.46		1/2	2,616.61
	3/4		3/4		3/4	5,089.83		3/4	4,762.22		3/4	4,403.37		3/4	4,044.53		3/4	3,326.83		3/4	2,967.98		3/4	2,609.13

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 29160"

SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	415	0	983	0	1,583	0	2,129	0		0		0		0		0	
1/4	5	1/4	426	1/4	996	1/4	1,595	1/4	2,139	1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	437	1/2	1,008	1/2	1,608	1/2	2,149	1/2		1/2		1/2		1/2		1/2	
3/4	15	3/4	448	3/4	1,021	3/4	1,620	3/4	2,159	3/4		3/4		3/4		3/4		3/4	
1	20	1	459	1	1,033	1	1,632	1	2,169	1		1		1		1		1	
1/4	26	1/4	470	1/4	1,046	1/4	1,644	1/4	2,179	1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	481	1/2	1,058	1/2	1,656	1/2	2,188	1/2		1/2		1/2		1/2		1/2	
3/4	39	3/4	492	3/4	1,071	3/4	1,668	3/4	2,198	3/4		3/4		3/4		3/4		3/4	
2	45	2	503	2	1,083	2	1,680	2	2,207	2		2		2		2		2	
1/4	52	1/4	515	1/4	1,096	1/4	1,692	1/4	2,217	1/4		1/4		1/4		1/4		1/4	
1/2	60	1/2	526	1/2	1,108	1/2	1,704	1/2	2,226	1/2		1/2		1/2		1/2		1/2	
3/4	67	3/4	538	3/4	1,121	3/4	1,716	3/4	2,235	3/4		3/4		3/4		3/4		3/4	
3	74	3	549	3	1,134	3	1,728	3	2,244	3		3		3		3		3	
1/4	82	1/4	561	1/4	1,146	1/4	1,740	1/4	2,253	1/4		1/4		1/4		1/4		1/4	
1/2	89	1/2	572	1/2	1,159	1/2	1,752	1/2	2,262	1/2		1/2		1/2		1/2		1/2	
3/4	97	3/4	584	3/4	1,171	3/4	1,764	3/4	2,271	3/4		3/4		3/4		3/4		3/4	
4	105	4	595	4	1,184	4	1,776	4	2,280	4		4		4		4		4	
1/4	113	1/4	607	1/4	1,196	1/4	1,788	1/4	2,288	1/4		1/4		1/4		1/4		1/4	
1/2	122	1/2	619	1/2	1,209	1/2	1,799	1/2	2,296	1/2		1/2		1/2		1/2		1/2	
3/4	130	3/4	630	3/4	1,222	3/4	1,811	3/4	2,305	3/4		3/4		3/4		3/4		3/4	
5	138	5	642	5	1,234	5	1,823	5	2,313	5		5		5		5		5	
1/4	147	1/4	654	1/4	1,247	1/4	1,834	1/4	2,321	1/4		1/4		1/4		1/4		1/4	
1/2	156	1/2	666	1/2	1,259	1/2	1,846	1/2	2,329	1/2		1/2		1/2		1/2		1/2	
3/4	165	3/4	678	3/4	1,272	3/4	1,857	3/4	2,336	3/4		3/4		3/4		3/4		3/4	
6	174	6	690	6	1,284	6	1,869	6	2,344	6		6		6		6		6	
1/4	183	1/4	702	1/4	1,297	1/4	1,880	1/4	2,351	1/4		1/4		1/4		1/4		1/4	
1/2	192	1/2	714	1/2	1,310	1/2	1,892	1/2	2,358	1/2		1/2		1/2		1/2		1/2	
3/4	201	3/4	726	3/4	1,322	3/4	1,903	3/4	2,366	3/4		3/4		3/4		3/4		3/4	
7	211	7	738	7	1,335	7	1,915	7	2,373	7		7		7		7		7	
1/4	220	1/4	750	1/4	1,347	1/4	1,926	1/4	2,379	1/4		1/4		1/4		1/4		1/4	
1/2	230	1/2	762	1/2	1,360	1/2	1,937	1/2	2,385	1/2		1/2		1/2		1/2		1/2	
3/4	239	3/4	774	3/4	1,372	3/4	1,948	3/4	2,392	3/4		3/4		3/4		3/4		3/4	
8	249	8	786	8	1,385	8	1,959	8	2,398	8		8		8		8		8	
1/4	259	1/4	798	1/4	1,397	1/4	1,970	1/4	2,403	1/4		1/4		1/4		1/4		1/4	
1/2	269	1/2	810	1/2	1,410	1/2	1,981	1/2	2,408	1/2		1/2		1/2		1/2		1/2	
3/4	279	3/4	823	3/4	1,422	3/4	1,992	3/4	2,413	3/4		3/4		3/4		3/4		3/4	
9	289	9	835	9	1,435	9	2,003	9	2,418	9		9		9		9		9	
1/4	299	1/4	847	1/4	1,447	1/4	2,014	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	309	1/2	859	1/2	1,460	1/2	2,025	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	319	3/4	872	3/4	1,472	3/4	2,036	3/4		3/4		3/4		3/4		3/4		3/4	
10	330	10	884	10	1,484	10	2,046	10		10		10		10		10		10	
1/4	340	1/4	896	1/4	1,497	1/4	2,057	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	351	1/2	909	1/2	1,509	1/2	2,067	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	361	3/4	921	3/4	1,522	3/4	2,078	3/4		3/4		3/4		3/4		3/4		3/4	
11	372	11	934	11	1,534	11	2,088	11		11		11		11		11		11	
1/4	382	1/4	946	1/4	1,546	1/4	2,099	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	958	1/2	1,559	1/2	2,109	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	404	3/4	971	3/4	1,571	3/4	2,119	3/4		3/4		3/4		3/4		3/4		3/4	

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 AT "MMC" VALVE

STRAPPED: 10/13/2021 JS
 COMPUTED: 10/13/2021 CL
 PRINTED: 10/13/2021 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 29160"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 4'-05 1/2"

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

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

STRAPPED: 10/13/2021 JS
COMPUTED: 10/13/2021 CL
PRINTED: 10/13/2021 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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