



BARGE "EMS 518"

INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 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
1 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
2 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
2 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
3 PORT	- 00-5/8	00-5/8	- 01-1/4	01-1/4	- 01-7/8	01-7/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8	- 03-5/8	03-5/8
3 STBD	- 00-5/8	00-5/8	- 01-1/4	01-1/4	- 01-7/8	01-7/8	- 02-1/2	02-1/2	- 03-0/8	03-0/8	- 03-5/8	03-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-00"

June 4, 2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 518"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,555.60	0	3,918.79	0	4,281.31	0	4,630.35	0	4,961.05	0		0		0		0		0	
1/4	3,563.17	1/4	3,926.36	1/4	4,288.76	1/4	4,637.42	1/4	4,968.46	1/4		1/4		1/4		1/4		1/4	
1/2	3,570.74	1/2	3,933.93	1/2	4,296.20	1/2	4,644.48	1/2	4,975.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,578.30	3/4	3,941.49	3/4	4,303.65	3/4	4,651.55	3/4	4,983.29	3/4		3/4		3/4		3/4		3/4	
1	3,585.87	1	3,949.06	1	4,311.09	1	4,658.61	1	4,990.71	1		1		1		1		1	
1/4	3,593.43	1/4	3,956.63	1/4	4,318.51	1/4	4,665.62	1/4	4,998.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.00	1/2	3,964.19	1/2	4,325.92	1/2	4,672.62	1/2	5,005.64	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.57	3/4	3,971.76	3/4	4,333.34	3/4	4,679.63	3/4	5,013.11	3/4		3/4		3/4		3/4		3/4	
2	3,616.13	2	3,979.33	2	4,340.76	2	4,686.63	2	5,020.58	2		2		2		2		2	
1/4	3,623.70	1/4	3,986.89	1/4	4,348.14	1/4	4,693.60	1/4	5,028.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,631.27	1/2	3,994.46	1/2	4,355.53	1/2	4,700.58	1/2	5,035.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,638.83	3/4	4,002.03	3/4	4,362.91	3/4	4,707.55	3/4	5,042.99	3/4		3/4		3/4		3/4		3/4	
3	3,646.40	3	4,009.59	3	4,370.30	3	4,714.52	3	5,050.45	3		3		3		3		3	
1/4	3,653.97	1/4	4,017.16	1/4	4,377.65	1/4	4,721.46	1/4	5,057.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.53	1/2	4,024.73	1/2	4,385.00	1/2	4,728.40	1/2	5,065.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,669.10	3/4	4,032.29	3/4	4,392.35	3/4	4,735.34	3/4	5,072.86	3/4		3/4		3/4		3/4		3/4	
4	3,676.67	4	4,039.86	4	4,399.71	4	4,742.28	4	5,080.33	4		4		4		4		4	
1/4	3,684.23	1/4	4,047.42	1/4	4,407.02	1/4	4,749.19	1/4	5,087.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,691.80	1/2	4,054.99	1/2	4,414.34	1/2	4,756.10	1/2	5,095.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.37	3/4	4,062.56	3/4	4,421.66	3/4	4,763.00	3/4	5,102.73	3/4		3/4		3/4		3/4		3/4	
5	3,706.93	5	4,070.12	5	4,428.98	5	4,769.91	5	5,110.20	5		5		5		5		5	
1/4	3,714.50	1/4	4,077.69	1/4	4,436.26	1/4	4,776.78	1/4	5,117.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,722.07	1/2	4,085.26	1/2	4,443.55	1/2	4,783.66	1/2	5,124.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,729.63	3/4	4,092.82	3/4	4,450.84	3/4	4,790.53	3/4	5,132.19	3/4		3/4		3/4		3/4		3/4	
6	3,737.20	6	4,100.39	6	4,458.13	6	4,797.40	6	5,139.52	6		6		6		6		6	
1/4	3,744.76	1/4	4,107.96	1/4	4,465.38	1/4	4,804.25	1/4	5,145.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,752.33	1/2	4,115.52	1/2	4,472.64	1/2	4,811.09	1/2	5,152.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,759.90	3/4	4,123.09	3/4	4,479.90	3/4	4,817.93	3/4	5,158.56	3/4		3/4		3/4		3/4		3/4	
7	3,767.46	7	4,130.66	7	4,487.15	7	4,824.77	7	5,164.90	7		7		7		7		7	
1/4	3,775.03	1/4	4,138.22	1/4	4,494.38	1/4	4,831.59	1/4	5,170.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,782.60	1/2	4,145.79	1/2	4,501.60	1/2	4,838.40	1/2	5,175.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,790.16	3/4	4,153.36	3/4	4,508.83	3/4	4,845.21	3/4	5,180.28	3/4		3/4		3/4		3/4		3/4	
8	3,797.73	8	4,160.92	8	4,516.05	8	4,852.02	8	5,185.41	8		8		8		8		8	
1/4	3,805.30	1/4	4,168.49	1/4	4,523.24	1/4	4,858.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,812.86	1/2	4,176.06	1/2	4,530.43	1/2	4,865.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,820.43	3/4	4,183.62	3/4	4,537.62	3/4	4,872.37	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,828.00	9	4,191.19	9	4,544.81	9	4,879.15	9		9		9		9		9		9	
1/4	3,835.56	1/4	4,198.73	1/4	4,551.97	1/4	4,885.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,843.13	1/2	4,206.27	1/2	4,559.13	1/2	4,892.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,850.70	3/4	4,213.82	3/4	4,566.28	3/4	4,899.41	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,858.26	10	4,221.36	10	4,573.44	10	4,906.16	10		10		10		10		10		10	
1/4	3,865.83	1/4	4,228.87	1/4	4,580.57	1/4	4,912.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,873.40	1/2	4,236.38	1/2	4,587.70	1/2	4,919.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,880.96	3/4	4,243.89	3/4	4,594.83	3/4	4,926.31	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,888.53	11	4,251.40	11	4,601.96	11	4,933.03	11		11		11		11		11		11	
1/4	3,896.09	1/4	4,258.88	1/4	4,609.06	1/4	4,940.03	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,903.66	1/2	4,266.36	1/2	4,616.16	1/2	4,947.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,911.23	3/4	4,273.83	3/4	4,623.25	3/4	4,954.04	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,549.31	0	3,912.07	0	4,274.12	0	4,622.75	0	4,953.08	0		0		0		0		0	
1/4	3,556.86	1/4	3,919.62	1/4	4,281.55	1/4	4,629.81	1/4	4,960.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.42	1/2	3,927.18	1/2	4,288.99	1/2	4,636.87	1/2	4,967.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,571.98	3/4	3,934.74	3/4	4,296.43	3/4	4,643.92	3/4	4,975.30	3/4		3/4		3/4		3/4		3/4	
1	3,579.54	1	3,942.30	1	4,303.87	1	4,650.98	1	4,982.71	1		1		1		1		1	
1/4	3,587.09	1/4	3,949.85	1/4	4,311.27	1/4	4,657.98	1/4	4,990.17	1/4		1/4		1/4		1/4		1/4	
1/2	3,594.65	1/2	3,957.41	1/2	4,318.68	1/2	4,664.98	1/2	4,997.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.21	3/4	3,964.97	3/4	4,326.09	3/4	4,671.97	3/4	5,005.09	3/4		3/4		3/4		3/4		3/4	
2	3,609.77	2	3,972.53	2	4,333.49	2	4,678.97	2	5,012.55	2		2		2		2		2	
1/4	3,617.32	1/4	3,980.08	1/4	4,340.87	1/4	4,685.93	1/4	5,020.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.88	1/2	3,987.64	1/2	4,348.25	1/2	4,692.90	1/2	5,027.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.44	3/4	3,995.20	3/4	4,355.62	3/4	4,699.86	3/4	5,034.93	3/4		3/4		3/4		3/4		3/4	
3	3,640.00	3	4,002.76	3	4,363.00	3	4,706.82	3	5,042.38	3		3		3		3		3	
1/4	3,647.55	1/4	4,010.31	1/4	4,370.34	1/4	4,713.76	1/4	5,049.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.11	1/2	4,017.87	1/2	4,377.69	1/2	4,720.69	1/2	5,057.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,662.67	3/4	4,025.43	3/4	4,385.03	3/4	4,727.62	3/4	5,064.76	3/4		3/4		3/4		3/4		3/4	
4	3,670.23	4	4,032.99	4	4,392.37	4	4,734.56	4	5,072.22	4		4		4		4		4	
1/4	3,677.78	1/4	4,040.54	1/4	4,399.68	1/4	4,741.46	1/4	5,079.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,685.34	1/2	4,048.10	1/2	4,406.99	1/2	4,748.36	1/2	5,087.14	1/2		1/2		1/2		1/2		1/2	
3/4	3,692.90	3/4	4,055.66	3/4	4,414.30	3/4	4,755.26	3/4	5,094.60	3/4		3/4		3/4		3/4		3/4	
5	3,700.46	5	4,063.22	5	4,421.61	5	4,762.16	5	5,102.06	5		5		5		5		5	
1/4	3,708.01	1/4	4,070.77	1/4	4,428.89	1/4	4,769.02	1/4	5,109.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,715.57	1/2	4,078.33	1/2	4,436.17	1/2	4,775.89	1/2	5,116.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,723.13	3/4	4,085.89	3/4	4,443.45	3/4	4,782.75	3/4	5,124.03	3/4		3/4		3/4		3/4		3/4	
6	3,730.69	6	4,093.45	6	4,450.73	6	4,789.62	6	5,131.35	6		6		6		6		6	
1/4	3,738.24	1/4	4,101.00	1/4	4,457.97	1/4	4,796.46	1/4	5,137.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,745.80	1/2	4,108.56	1/2	4,465.22	1/2	4,803.29	1/2	5,144.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,753.36	3/4	4,116.12	3/4	4,472.47	3/4	4,810.13	3/4	5,150.36	3/4		3/4		3/4		3/4		3/4	
7	3,760.92	7	4,123.68	7	4,479.72	7	4,816.96	7	5,156.70	7		7		7		7		7	
1/4	3,768.47	1/4	4,131.23	1/4	4,486.94	1/4	4,823.77	1/4	5,161.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,776.03	1/2	4,138.79	1/2	4,494.15	1/2	4,830.57	1/2	5,166.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,783.59	3/4	4,146.35	3/4	4,501.37	3/4	4,837.38	3/4	5,172.06	3/4		3/4		3/4		3/4		3/4	
8	3,791.15	8	4,153.91	8	4,508.58	8	4,844.18	8	5,177.18	8		8		8		8		8	
1/4	3,798.70	1/4	4,161.46	1/4	4,515.76	1/4	4,850.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,806.26	1/2	4,169.01	1/2	4,522.94	1/2	4,857.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,813.82	3/4	4,176.56	3/4	4,530.13	3/4	4,864.51	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,821.38	9	4,184.10	9	4,537.31	9	4,871.28	9		9		9		9		9		9	
1/4	3,828.93	1/4	4,191.64	1/4	4,544.46	1/4	4,878.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,836.49	1/2	4,199.17	1/2	4,551.61	1/2	4,884.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,844.05	3/4	4,206.71	3/4	4,558.76	3/4	4,891.51	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,851.61	10	4,214.24	10	4,565.91	10	4,898.25	10		10		10		10		10		10	
1/4	3,859.16	1/4	4,221.74	1/4	4,573.03	1/4	4,904.96	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,866.72	1/2	4,229.24	1/2	4,580.15	1/2	4,911.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,874.28	3/4	4,236.74	3/4	4,587.27	3/4	4,918.38	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,881.84	11	4,244.25	11	4,594.39	11	4,925.09	11		11		11		11		11		11	
1/4	3,889.39	1/4	4,251.71	1/4	4,601.48	1/4	4,932.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,896.95	1/2	4,259.18	1/2	4,608.57	1/2	4,939.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,904.51	3/4	4,266.65	3/4	4,615.66	3/4	4,946.09	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRINTED: 06/05/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	3,614.10	0	3,976.32	0	4,337.85	0	4,685.96	0	5,015.78	0		0		0		0		0	
1/4	3,621.64	1/4	3,983.86	1/4	4,345.27	1/4	4,693.01	1/4	5,023.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,629.19	1/2	3,991.41	1/2	4,352.70	1/2	4,700.06	1/2	5,030.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,636.73	3/4	3,998.96	3/4	4,360.13	3/4	4,707.10	3/4	5,037.97	3/4		3/4		3/4		3/4		3/4	
1	3,644.28	1	4,006.50	1	4,367.55	1	4,714.15	1	5,045.36	1		1		1		1		1	
1/4	3,651.83	1/4	4,014.05	1/4	4,374.95	1/4	4,721.13	1/4	5,052.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,659.37	1/2	4,021.60	1/2	4,382.34	1/2	4,728.12	1/2	5,060.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,666.92	3/4	4,029.14	3/4	4,389.74	3/4	4,735.11	3/4	5,067.71	3/4		3/4		3/4		3/4		3/4	
2	3,674.47	2	4,036.69	2	4,397.14	2	4,742.09	2	5,075.15	2		2		2		2		2	
1/4	3,682.01	1/4	4,044.23	1/4	4,404.50	1/4	4,749.05	1/4	5,082.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,689.56	1/2	4,051.78	1/2	4,411.87	1/2	4,756.00	1/2	5,090.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,697.10	3/4	4,059.33	3/4	4,419.23	3/4	4,762.95	3/4	5,097.50	3/4		3/4		3/4		3/4		3/4	
3	3,704.65	3	4,066.87	3	4,426.60	3	4,769.91	3	5,104.95	3		3		3		3		3	
1/4	3,712.20	1/4	4,074.42	1/4	4,433.93	1/4	4,776.83	1/4	5,112.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,719.74	1/2	4,081.97	1/2	4,441.26	1/2	4,783.75	1/2	5,119.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,727.29	3/4	4,089.51	3/4	4,448.60	3/4	4,790.67	3/4	5,127.29	3/4		3/4		3/4		3/4		3/4	
4	3,734.84	4	4,097.06	4	4,455.93	4	4,797.60	4	5,134.74	4		4		4		4		4	
1/4	3,742.38	1/4	4,104.61	1/4	4,463.23	1/4	4,804.48	1/4	5,142.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,749.93	1/2	4,112.15	1/2	4,470.53	1/2	4,811.37	1/2	5,149.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,757.48	3/4	4,119.70	3/4	4,477.82	3/4	4,818.26	3/4	5,157.08	3/4		3/4		3/4		3/4		3/4	
5	3,765.02	5	4,127.24	5	4,485.12	5	4,825.15	5	5,164.53	5		5		5		5		5	
1/4	3,772.57	1/4	4,134.79	1/4	4,492.39	1/4	4,832.01	1/4	5,171.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,780.11	1/2	4,142.34	1/2	4,499.66	1/2	4,838.86	1/2	5,179.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,787.66	3/4	4,149.88	3/4	4,506.93	3/4	4,845.72	3/4	5,186.46	3/4		3/4		3/4		3/4		3/4	
6	3,795.21	6	4,157.43	6	4,514.19	6	4,852.57	6	5,193.77	6		6		6		6		6	
1/4	3,802.75	1/4	4,164.98	1/4	4,521.43	1/4	4,859.40	1/4	5,200.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,810.30	1/2	4,172.52	1/2	4,528.67	1/2	4,866.22	1/2	5,206.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,817.85	3/4	4,180.07	3/4	4,535.91	3/4	4,873.05	3/4	5,212.75	3/4		3/4		3/4		3/4		3/4	
7	3,825.39	7	4,187.61	7	4,543.15	7	4,879.87	7	5,219.08	7		7		7		7		7	
1/4	3,832.94	1/4	4,195.16	1/4	4,550.35	1/4	4,886.67	1/4	5,224.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,840.48	1/2	4,202.71	1/2	4,557.55	1/2	4,893.46	1/2	5,229.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,848.03	3/4	4,210.25	3/4	4,564.76	3/4	4,900.25	3/4	5,234.42	3/4		3/4		3/4		3/4		3/4	
8	3,855.58	8	4,217.80	8	4,571.96	8	4,907.05	8	5,239.53	8		8		8		8		8	
1/4	3,863.12	1/4	4,225.34	1/4	4,579.13	1/4	4,913.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,870.67	1/2	4,232.88	1/2	4,586.30	1/2	4,920.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,878.22	3/4	4,240.43	3/4	4,593.48	3/4	4,927.34	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,885.76	9	4,247.97	9	4,600.65	9	4,934.11	9		9		9		9		9		9	
1/4	3,893.31	1/4	4,255.49	1/4	4,607.79	1/4	4,940.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,900.85	1/2	4,263.01	1/2	4,614.93	1/2	4,947.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,908.40	3/4	4,270.54	3/4	4,622.07	3/4	4,954.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,915.95	10	4,278.06	10	4,629.21	10	4,961.04	10		10		10		10		10		10	
1/4	3,923.49	1/4	4,285.55	1/4	4,636.31	1/4	4,967.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,931.04	1/2	4,293.04	1/2	4,643.42	1/2	4,974.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,938.59	3/4	4,300.53	3/4	4,650.53	3/4	4,981.14	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,946.13	11	4,308.02	11	4,657.64	11	4,987.84	11		11		11		11		11		11	
1/4	3,953.68	1/4	4,315.48	1/4	4,664.72	1/4	4,994.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,961.23	1/2	4,322.94	1/2	4,671.80	1/2	5,001.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,968.77	3/4	4,330.39	3/4	4,678.88	3/4	5,008.80	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	21.32	0	354.24	0	714.53	0	1,068.06	0	1,421.26	0	1,782.81	0	2,144.37	0	2,505.92	0	2,865.67	0	3,227.09
1/4	25.55	1/4	361.63	1/4	722.06	1/4	1,075.25	1/4	1,428.79	1/4	1,790.34	1/4	2,151.90	1/4	2,513.45	1/4	2,873.20	1/4	3,234.62
1/2	29.77	1/2	369.01	1/2	729.59	1/2	1,082.44	1/2	1,436.32	1/2	1,797.88	1/2	2,159.43	1/2	2,520.99	1/2	2,880.73	1/2	3,242.15
3/4	33.99	3/4	376.40	3/4	737.12	3/4	1,089.63	3/4	1,443.85	3/4	1,805.41	3/4	2,166.96	3/4	2,528.52	3/4	2,888.26	3/4	3,249.68
1	38.21	1	383.78	1	744.66	1	1,096.82	1	1,451.38	1	1,812.94	1	2,174.50	1	2,536.05	1	2,895.79	1	3,257.21
1/4	43.69	1/4	391.16	1/4	752.19	1/4	1,104.00	1/4	1,458.92	1/4	1,820.47	1/4	2,182.03	1/4	2,543.58	1/4	2,903.32	1/4	3,264.74
1/2	49.17	1/2	398.55	1/2	759.72	1/2	1,111.19	1/2	1,466.45	1/2	1,828.00	1/2	2,189.56	1/2	2,551.12	1/2	2,910.85	1/2	3,272.27
3/4	54.64	3/4	405.93	3/4	767.25	3/4	1,118.38	3/4	1,473.98	3/4	1,835.54	3/4	2,197.09	3/4	2,558.65	3/4	2,918.38	3/4	3,279.80
2	60.12	2	413.32	2	774.78	2	1,125.57	2	1,481.51	2	1,843.07	2	2,204.62	2	2,566.18	2	2,925.91	2	3,287.33
1/4	66.85	1/4	420.83	1/4	782.32	1/4	1,132.76	1/4	1,489.05	1/4	1,850.60	1/4	2,212.16	1/4	2,573.71	1/4	2,933.44	1/4	3,294.86
1/2	73.59	1/2	428.34	1/2	789.85	1/2	1,139.95	1/2	1,496.58	1/2	1,858.13	1/2	2,219.69	1/2	2,581.24	1/2	2,940.97	1/2	3,302.39
3/4	80.32	3/4	435.86	3/4	797.38	3/4	1,147.14	3/4	1,504.11	3/4	1,865.67	3/4	2,227.22	3/4	2,588.78	3/4	2,948.50	3/4	3,309.92
3	87.05	3	443.37	3	804.91	3	1,154.33	3	1,511.64	3	1,873.20	3	2,234.75	3	2,596.31	3	2,956.03	3	3,317.45
1/4	94.49	1/4	450.90	1/4	812.44	1/4	1,161.52	1/4	1,519.18	1/4	1,880.73	1/4	2,242.29	1/4	2,603.84	1/4	2,963.56	1/4	3,324.98
1/2	101.93	1/2	458.44	1/2	819.98	1/2	1,168.71	1/2	1,526.71	1/2	1,888.26	1/2	2,249.82	1/2	2,611.37	1/2	2,971.09	1/2	3,332.51
3/4	109.37	3/4	465.97	3/4	827.51	3/4	1,175.90	3/4	1,534.24	3/4	1,895.80	3/4	2,257.35	3/4	2,618.90	3/4	2,978.62	3/4	3,340.04
4	116.81	4	473.50	4	835.04	4	1,183.09	4	1,541.77	4	1,903.33	4	2,264.88	4	2,626.43	4	2,986.14	4	3,347.57
1/4	124.32	1/4	481.03	1/4	842.57	1/4	1,190.28	1/4	1,549.31	1/4	1,910.86	1/4	2,272.42	1/4	2,633.86	1/4	2,993.67	1/4	3,355.10
1/2	131.84	1/2	488.56	1/2	850.10	1/2	1,197.47	1/2	1,556.84	1/2	1,918.39	1/2	2,279.95	1/2	2,641.30	1/2	3,001.20	1/2	3,362.62
3/4	139.36	3/4	496.10	3/4	857.64	3/4	1,204.65	3/4	1,564.37	3/4	1,925.93	3/4	2,287.48	3/4	2,648.73	3/4	3,008.73	3/4	3,370.15
5	146.88	5	503.63	5	865.17	5	1,211.84	5	1,571.90	5	1,933.46	5	2,295.01	5	2,656.17	5	3,016.26	5	3,377.68
1/4	154.39	1/4	511.16	1/4	872.70	1/4	1,219.04	1/4	1,579.44	1/4	1,940.99	1/4	2,302.55	1/4	2,663.59	1/4	3,023.79	1/4	3,385.21
1/2	161.91	1/2	518.69	1/2	880.23	1/2	1,226.24	1/2	1,586.97	1/2	1,948.52	1/2	2,310.08	1/2	2,671.02	1/2	3,031.32	1/2	3,392.74
3/4	169.43	3/4	526.22	3/4	887.77	3/4	1,233.44	3/4	1,594.50	3/4	1,956.06	3/4	2,317.61	3/4	2,678.44	3/4	3,038.85	3/4	3,400.27
6	176.95	6	533.76	6	895.30	6	1,240.64	6	1,602.03	6	1,963.59	6	2,325.14	6	2,685.86	6	3,046.38	6	3,407.80
1/4	184.35	1/4	541.29	1/4	902.54	1/4	1,248.13	1/4	1,609.57	1/4	1,971.12	1/4	2,332.68	1/4	2,693.29	1/4	3,053.91	1/4	3,415.33
1/2	191.75	1/2	548.82	1/2	909.78	1/2	1,255.63	1/2	1,617.10	1/2	1,978.65	1/2	2,340.21	1/2	2,700.71	1/2	3,061.44	1/2	3,422.86
3/4	199.15	3/4	556.35	3/4	917.02	3/4	1,263.12	3/4	1,624.63	3/4	1,986.19	3/4	2,347.74	3/4	2,708.13	3/4	3,068.97	3/4	3,430.39
7	206.55	7	563.89	7	924.27	7	1,270.61	7	1,632.16	7	1,993.72	7	2,355.27	7	2,715.56	7	3,076.50	7	3,437.92
1/4	213.93	1/4	571.42	1/4	931.46	1/4	1,278.14	1/4	1,639.69	1/4	2,001.25	1/4	2,362.81	1/4	2,722.98	1/4	3,084.03	1/4	3,445.45
1/2	221.32	1/2	578.95	1/2	938.65	1/2	1,285.67	1/2	1,647.23	1/2	2,008.78	1/2	2,370.34	1/2	2,730.40	1/2	3,091.56	1/2	3,452.98
3/4	228.70	3/4	586.48	3/4	945.84	3/4	1,293.20	3/4	1,654.76	3/4	2,016.31	3/4	2,377.87	3/4	2,737.83	3/4	3,099.09	3/4	3,460.51
8	236.09	8	594.01	8	953.03	8	1,300.74	8	1,662.29	8	2,023.85	8	2,385.40	8	2,745.25	8	3,106.62	8	3,468.04
1/4	243.47	1/4	601.55	1/4	960.22	1/4	1,308.27	1/4	1,669.82	1/4	2,031.38	1/4	2,392.93	1/4	2,752.77	1/4	3,114.15	1/4	3,475.57
1/2	250.86	1/2	609.08	1/2	967.41	1/2	1,315.80	1/2	1,677.36	1/2	2,038.91	1/2	2,400.47	1/2	2,760.28	1/2	3,121.68	1/2	3,483.10
3/4	258.24	3/4	616.61	3/4	974.60	3/4	1,323.33	3/4	1,684.89	3/4	2,046.44	3/4	2,408.00	3/4	2,767.80	3/4	3,129.21	3/4	3,490.63
9	265.63	9	624.14	9	981.79	9	1,330.87	9	1,692.42	9	2,053.98	9	2,415.53	9	2,775.32	9	3,136.74	9	3,498.16
1/4	273.01	1/4	631.67	1/4	988.98	1/4	1,338.40	1/4	1,699.95	1/4	2,061.51	1/4	2,423.06	1/4	2,782.85	1/4	3,144.27	1/4	3,505.69
1/2	280.40	1/2	639.21	1/2	996.17	1/2	1,345.93	1/2	1,707.49	1/2	2,069.04	1/2	2,430.60	1/2	2,790.38	1/2	3,151.80	1/2	3,513.22
3/4	287.78	3/4	646.74	3/4	1,003.35	3/4	1,353.46	3/4	1,715.02	3/4	2,076.57	3/4	2,438.13	3/4	2,797.90	3/4	3,159.33	3/4	3,520.75
10	295.16	10	654.27	10	1,010.54	10	1,361.00	10	1,722.55	10	2,084.11	10	2,445.66	10	2,805.43	10	3,166.86	10	3,528.28
1/4	302.55	1/4	661.80	1/4	1,017.73	1/4	1,368.53	1/4	1,730.08	1/4	2,091.64	1/4	2,453.19	1/4	2,812.96	1/4	3,174.38	1/4	3,535.81
1/2	309.93	1/2	669.33	1/2	1,024.92	1/2	1,376.06	1/2	1,737.62	1/2	2,099.17	1/2	2,460.73	1/2	2,820.49	1/2	3,181.91	1/2	3,543.33
3/4	317.32	3/4	676.87	3/4	1,032.11	3/4	1,383.59	3/4	1,745.15	3/4	2,106.70	3/4	2,468.26	3/4	2,828.02	3/4	3,189.44	3/4	3,550.86
11	324.70	11	684.40	11	1,039.30	11	1,391.13	11	1,752.68	11	2,114.24	11	2,475.79	11	2,835.55	11	3,196.97	11	3,558.39
1/4	332.09	1/4	691.93	1/4	1,046.49	1/4	1,398.66	1/4	1,760.21	1/4	2,121.77	1/4	2,483.32	1/4	2,843.08	1/4	3,204.50	1/4	3,565.92
1/2	339.47	1/2	699.46	1/2	1,053.68	1/2	1,406.19	1/2	1,767.75	1/2	2,129.30	1/2	2,490.86	1/2	2,850.61	1/2	3,212.03	1/2	3,573.45
3/4	346.86	3/4	706.99	3/4	1,060.87	3/4	1,413.72	3/4	1,775.28	3/4	2,136.83	3/4	2,498.39	3/4	2,858.14	3/4	3,219.56	3/4	3,580.98

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 518"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	3,588.51	0	3,949.93	0	4,310.66	0	4,658.01	0	4,987.11	0		0		0		0		0	
1/4	3,596.04	1/4	3,957.46	1/4	4,318.07	1/4	4,665.04	1/4	4,994.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,603.57	1/2	3,964.99	1/2	4,325.48	1/2	4,672.07	1/2	5,001.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.10	3/4	3,972.52	3/4	4,332.89	3/4	4,679.10	3/4	5,009.25	3/4		3/4		3/4		3/4		3/4	
1	3,618.63	1	3,980.05	1	4,340.30	1	4,686.13	1	5,016.63	1		1		1		1		1	
1/4	3,626.16	1/4	3,987.58	1/4	4,347.68	1/4	4,693.10	1/4	5,024.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,633.69	1/2	3,995.11	1/2	4,355.06	1/2	4,700.08	1/2	5,031.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,641.22	3/4	4,002.64	3/4	4,362.44	3/4	4,707.05	3/4	5,038.92	3/4		3/4		3/4		3/4		3/4	
2	3,648.75	2	4,010.17	2	4,369.82	2	4,714.02	2	5,046.35	2		2		2		2		2	
1/4	3,656.28	1/4	4,017.70	1/4	4,377.17	1/4	4,720.96	1/4	5,053.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,663.81	1/2	4,025.23	1/2	4,384.52	1/2	4,727.89	1/2	5,061.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.34	3/4	4,032.76	3/4	4,391.87	3/4	4,734.83	3/4	5,068.65	3/4		3/4		3/4		3/4		3/4	
3	3,678.87	3	4,040.29	3	4,399.22	3	4,741.77	3	5,076.08	3		3		3		3		3	
1/4	3,686.40	1/4	4,047.82	1/4	4,406.53	1/4	4,748.68	1/4	5,083.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,693.93	1/2	4,055.35	1/2	4,413.85	1/2	4,755.58	1/2	5,090.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,701.46	3/4	4,062.88	3/4	4,421.17	3/4	4,762.49	3/4	5,098.37	3/4		3/4		3/4		3/4		3/4	
4	3,708.99	4	4,070.41	4	4,428.48	4	4,769.40	4	5,105.80	4		4		4		4		4	
1/4	3,716.52	1/4	4,077.94	1/4	4,435.76	1/4	4,776.27	1/4	5,113.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,724.05	1/2	4,085.47	1/2	4,443.05	1/2	4,783.15	1/2	5,120.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,731.57	3/4	4,093.00	3/4	4,450.33	3/4	4,790.02	3/4	5,128.10	3/4		3/4		3/4		3/4		3/4	
5	3,739.10	5	4,100.53	5	4,457.61	5	4,796.89	5	5,135.53	5		5		5		5		5	
1/4	3,746.63	1/4	4,108.05	1/4	4,464.86	1/4	4,803.74	1/4	5,142.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,754.16	1/2	4,115.58	1/2	4,472.12	1/2	4,810.58	1/2	5,150.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,761.69	3/4	4,123.11	3/4	4,479.37	3/4	4,817.42	3/4	5,157.41	3/4		3/4		3/4		3/4		3/4	
6	3,769.22	6	4,130.64	6	4,486.62	6	4,824.26	6	5,164.70	6		6		6		6		6	
1/4	3,776.75	1/4	4,138.17	1/4	4,493.84	1/4	4,831.07	1/4	5,171.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,784.28	1/2	4,145.70	1/2	4,501.06	1/2	4,837.88	1/2	5,177.33	1/2		1/2		1/2		1/2		1/2	
3/4	3,791.81	3/4	4,153.23	3/4	4,508.28	3/4	4,844.69	3/4	5,183.64	3/4		3/4		3/4		3/4		3/4	
7	3,799.34	7	4,160.76	7	4,515.51	7	4,851.49	7	5,189.96	7		7		7		7		7	
1/4	3,806.87	1/4	4,168.29	1/4	4,522.70	1/4	4,858.27	1/4	5,195.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,814.40	1/2	4,175.82	1/2	4,529.88	1/2	4,865.05	1/2	5,200.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,821.93	3/4	4,183.35	3/4	4,537.07	3/4	4,871.83	3/4	5,205.26	3/4		3/4		3/4		3/4		3/4	
8	3,829.46	8	4,190.88	8	4,544.26	8	4,878.61	8	5,210.36	8		8		8		8		8	
1/4	3,836.99	1/4	4,198.41	1/4	4,551.42	1/4	4,885.36	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,844.52	1/2	4,205.93	1/2	4,558.57	1/2	4,892.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,852.05	3/4	4,213.46	3/4	4,565.73	3/4	4,898.86	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,859.58	9	4,220.98	9	4,572.88	9	4,905.61	9		9		9		9		9		9	
1/4	3,867.11	1/4	4,228.49	1/4	4,580.00	1/4	4,912.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,874.64	1/2	4,235.99	1/2	4,587.13	1/2	4,919.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,882.17	3/4	4,243.50	3/4	4,594.25	3/4	4,925.77	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,889.70	10	4,251.01	10	4,601.38	10	4,932.49	10		10		10		10		10		10	
1/4	3,897.23	1/4	4,258.48	1/4	4,608.47	1/4	4,939.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,904.76	1/2	4,265.95	1/2	4,615.57	1/2	4,945.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,912.29	3/4	4,273.43	3/4	4,622.66	3/4	4,952.54	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,919.81	11	4,280.90	11	4,629.75	11	4,959.23	11		11		11		11		11		11	
1/4	3,927.34	1/4	4,288.34	1/4	4,636.82	1/4	4,966.20	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,934.87	1/2	4,295.78	1/2	4,643.88	1/2	4,973.17	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,942.40	3/4	4,303.22	3/4	4,650.95	3/4	4,980.14	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	3,555.94	0	3,750.17	0	3,943.71	0	4,123.90	0	4,286.59	0		0		0		0		0	
1/4	3,559.99	1/4	3,754.22	1/4	3,947.64	1/4	4,127.45	1/4	4,290.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.03	1/2	3,758.26	1/2	3,951.57	1/2	4,131.00	1/2	4,294.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.08	3/4	3,762.31	3/4	3,955.50	3/4	4,134.55	3/4	4,298.41	3/4		3/4		3/4		3/4		3/4	
1	3,572.12	1	3,766.36	1	3,959.42	1	4,138.10	1	4,302.35	1		1		1		1		1	
1/4	3,576.17	1/4	3,770.40	1/4	3,963.32	1/4	4,141.60	1/4	4,306.35	1/4		1/4		1/4		1/4		1/4	
1/2	3,580.22	1/2	3,774.45	1/2	3,967.22	1/2	4,145.10	1/2	4,310.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,584.26	3/4	3,778.50	3/4	3,971.11	3/4	4,148.60	3/4	4,314.33	3/4		3/4		3/4		3/4		3/4	
2	3,588.31	2	3,782.54	2	3,975.01	2	4,152.10	2	4,318.33	2		2		2		2		2	
1/4	3,592.36	1/4	3,786.59	1/4	3,978.88	1/4	4,155.57	1/4	4,322.32	1/4		1/4		1/4		1/4		1/4	
1/2	3,596.40	1/2	3,790.64	1/2	3,982.74	1/2	4,159.04	1/2	4,326.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,600.45	3/4	3,794.68	3/4	3,986.61	3/4	4,162.51	3/4	4,330.31	3/4		3/4		3/4		3/4		3/4	
3	3,604.50	3	3,798.73	3	3,990.48	3	4,165.98	3	4,334.30	3		3		3		3		3	
1/4	3,608.54	1/4	3,802.78	1/4	3,994.31	1/4	4,169.42	1/4	4,338.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,612.59	1/2	3,806.82	1/2	3,998.14	1/2	4,172.86	1/2	4,342.29	1/2		1/2		1/2		1/2		1/2	
3/4	3,616.64	3/4	3,810.87	3/4	4,001.98	3/4	4,176.30	3/4	4,346.28	3/4		3/4		3/4		3/4		3/4	
4	3,620.68	4	3,814.91	4	4,005.81	4	4,179.74	4	4,350.27	4		4		4		4		4	
1/4	3,624.73	1/4	3,818.96	1/4	4,009.61	1/4	4,183.15	1/4	4,354.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,628.78	1/2	3,823.01	1/2	4,013.41	1/2	4,186.56	1/2	4,358.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,632.82	3/4	3,827.05	3/4	4,017.21	3/4	4,189.96	3/4	4,362.26	3/4		3/4		3/4		3/4		3/4	
5	3,636.87	5	3,831.10	5	4,021.01	5	4,193.37	5	4,366.25	5		5		5		5		5	
1/4	3,640.92	1/4	3,835.15	1/4	4,024.78	1/4	4,196.74	1/4	4,370.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,644.96	1/2	3,839.19	1/2	4,028.55	1/2	4,200.12	1/2	4,373.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,649.01	3/4	3,843.24	3/4	4,032.32	3/4	4,203.49	3/4	4,377.83	3/4		3/4		3/4		3/4		3/4	
6	3,653.05	6	3,847.29	6	4,036.09	6	4,206.86	6	4,381.68	6		6		6		6		6	
1/4	3,657.10	1/4	3,851.33	1/4	4,039.83	1/4	4,210.20	1/4	4,384.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.15	1/2	3,855.38	1/2	4,043.57	1/2	4,213.55	1/2	4,387.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,665.19	3/4	3,859.43	3/4	4,047.30	3/4	4,216.89	3/4	4,390.32	3/4		3/4		3/4		3/4		3/4	
7	3,669.24	7	3,863.47	7	4,051.04	7	4,220.23	7	4,393.20	7		7		7		7		7	
1/4	3,673.29	1/4	3,867.52	1/4	4,054.75	1/4	4,223.54	1/4	4,394.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,677.33	1/2	3,871.57	1/2	4,058.46	1/2	4,226.86	1/2	4,396.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,681.38	3/4	3,875.61	3/4	4,062.16	3/4	4,230.17	3/4	4,398.17	3/4		3/4		3/4		3/4		3/4	
8	3,685.43	8	3,879.66	8	4,065.87	8	4,233.48	8	4,399.83	8		8		8		8		8	
1/4	3,689.47	1/4	3,883.70	1/4	4,069.54	1/4	4,236.76	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,693.52	1/2	3,887.74	1/2	4,073.21	1/2	4,240.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,697.57	3/4	3,891.79	3/4	4,076.89	3/4	4,243.33	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,701.61	9	3,895.83	9	4,080.56	9	4,246.61	9		9		9		9		9		9	
1/4	3,705.66	1/4	3,899.85	1/4	4,084.20	1/4	4,249.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,709.71	1/2	3,903.88	1/2	4,087.84	1/2	4,253.11	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,713.75	3/4	3,907.90	3/4	4,091.48	3/4	4,256.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,717.80	10	3,911.92	10	4,095.13	10	4,259.61	10		10		10		10		10		10	
1/4	3,721.85	1/4	3,915.91	1/4	4,098.74	1/4	4,262.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,725.89	1/2	3,919.90	1/2	4,102.35	1/2	4,266.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,729.94	3/4	3,923.89	3/4	4,105.96	3/4	4,269.25	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,733.98	11	3,927.89	11	4,109.57	11	4,272.47	11		11		11		11		11		11	
1/4	3,738.03	1/4	3,931.84	1/4	4,113.16	1/4	4,276.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,742.08	1/2	3,935.80	1/2	4,116.74	1/2	4,279.53	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,746.12	3/4	3,939.76	3/4	4,120.32	3/4	4,283.06	3/4		3/4		3/4		3/4		3/4		3/4	

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

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	3,525.92	0	3,719.26	0	3,911.92	0	4,091.23	0	4,253.06	0		0		0		0		0	
1/4	3,529.95	1/4	3,723.29	1/4	3,915.83	1/4	4,094.76	1/4	4,256.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,533.98	1/2	3,727.32	1/2	3,919.74	1/2	4,098.29	1/2	4,260.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,538.00	3/4	3,731.35	3/4	3,923.65	3/4	4,101.82	3/4	4,264.83	3/4		3/4		3/4		3/4		3/4	
1	3,542.03	1	3,735.38	1	3,927.55	1	4,105.35	1	4,268.75	1		1		1		1		1	
1/4	3,546.06	1/4	3,739.40	1/4	3,931.43	1/4	4,108.84	1/4	4,272.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.09	1/2	3,743.43	1/2	3,935.31	1/2	4,112.32	1/2	4,276.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.12	3/4	3,747.46	3/4	3,939.19	3/4	4,115.81	3/4	4,280.68	3/4		3/4		3/4		3/4		3/4	
2	3,558.14	2	3,751.49	2	3,943.07	2	4,119.29	2	4,284.65	2		2		2		2		2	
1/4	3,562.17	1/4	3,755.52	1/4	3,946.92	1/4	4,122.74	1/4	4,288.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,566.20	1/2	3,759.54	1/2	3,950.77	1/2	4,126.19	1/2	4,292.60	1/2		1/2		1/2		1/2		1/2	
3/4	3,570.23	3/4	3,763.57	3/4	3,954.61	3/4	4,129.65	3/4	4,296.58	3/4		3/4		3/4		3/4		3/4	
3	3,574.26	3	3,767.60	3	3,958.46	3	4,133.10	3	4,300.55	3		3		3		3		3	
1/4	3,578.28	1/4	3,771.63	1/4	3,962.28	1/4	4,136.52	1/4	4,304.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,582.31	1/2	3,775.66	1/2	3,966.09	1/2	4,139.94	1/2	4,308.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,586.34	3/4	3,779.68	3/4	3,969.91	3/4	4,143.36	3/4	4,312.48	3/4		3/4		3/4		3/4		3/4	
4	3,590.37	4	3,783.71	4	3,973.72	4	4,146.79	4	4,316.45	4		4		4		4		4	
1/4	3,594.40	1/4	3,787.74	1/4	3,977.50	1/4	4,150.17	1/4	4,320.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,598.42	1/2	3,791.77	1/2	3,981.29	1/2	4,153.56	1/2	4,324.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.45	3/4	3,795.80	3/4	3,985.07	3/4	4,156.95	3/4	4,328.38	3/4		3/4		3/4		3/4		3/4	
5	3,606.48	5	3,799.82	5	3,988.85	5	4,160.34	5	4,332.35	5		5		5		5		5	
1/4	3,610.51	1/4	3,803.85	1/4	3,992.60	1/4	4,163.70	1/4	4,336.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,614.54	1/2	3,807.88	1/2	3,996.35	1/2	4,167.05	1/2	4,340.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,618.56	3/4	3,811.91	3/4	4,000.10	3/4	4,170.41	3/4	4,343.87	3/4		3/4		3/4		3/4		3/4	
6	3,622.59	6	3,815.94	6	4,003.85	6	4,173.76	6	4,347.71	6		6		6		6		6	
1/4	3,626.62	1/4	3,819.96	1/4	4,007.57	1/4	4,177.08	1/4	4,350.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.65	1/2	3,823.99	1/2	4,011.30	1/2	4,180.41	1/2	4,353.43	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.68	3/4	3,828.02	3/4	4,015.02	3/4	4,183.73	3/4	4,356.29	3/4		3/4		3/4		3/4		3/4	
7	3,638.70	7	3,832.05	7	4,018.74	7	4,187.06	7	4,359.15	7		7		7		7		7	
1/4	3,642.73	1/4	3,836.08	1/4	4,022.43	1/4	4,190.35	1/4	4,360.80	1/4		1/4		1/4		1/4		1/4	
1/2	3,646.76	1/2	3,840.10	1/2	4,026.11	1/2	4,193.65	1/2	4,362.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,650.79	3/4	3,844.13	3/4	4,029.80	3/4	4,196.94	3/4	4,364.08	3/4		3/4		3/4		3/4		3/4	
8	3,654.82	8	3,848.16	8	4,033.49	8	4,200.24	8	4,365.72	8		8		8		8		8	
1/4	3,658.84	1/4	3,852.18	1/4	4,037.14	1/4	4,203.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,662.87	1/2	3,856.21	1/2	4,040.80	1/2	4,206.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,666.90	3/4	3,860.23	3/4	4,044.45	3/4	4,210.03	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,670.93	9	3,864.26	9	4,048.11	9	4,213.30	9		9		9		9		9		9	
1/4	3,674.96	1/4	3,868.26	1/4	4,051.73	1/4	4,216.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,678.98	1/2	3,872.27	1/2	4,055.35	1/2	4,219.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,683.01	3/4	3,876.27	3/4	4,058.98	3/4	4,222.99	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,687.04	10	3,880.28	10	4,062.60	10	4,226.22	10		10		10		10		10		10	
1/4	3,691.07	1/4	3,884.25	1/4	4,066.20	1/4	4,229.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.10	1/2	3,888.22	1/2	4,069.79	1/2	4,232.62	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,699.12	3/4	3,892.19	3/4	4,073.38	3/4	4,235.81	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,703.15	11	3,896.17	11	4,076.98	11	4,239.01	11		11		11		11		11		11	
1/4	3,707.18	1/4	3,900.10	1/4	4,080.54	1/4	4,242.52	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,711.21	1/2	3,904.04	1/2	4,084.10	1/2	4,246.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,715.24	3/4	3,907.98	3/4	4,087.67	3/4	4,249.55	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

PRECISION MEASUREMENT
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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 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
1 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
2 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
2 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
3 PORT	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-7/8	- 01-7/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8	03-5/8	- 03-5/8
3 STBD	00-5/8	- 00-5/8	01-1/4	- 01-1/4	01-7/8	- 01-7/8	02-1/2	- 02-1/2	03-0/8	- 03-0/8	03-5/8	- 03-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 238'-00"

June 4, 2020

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "EMS 518"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,004.25	0	1,640.93	0	1,277.60	0	914.68	0	551.44	0	211.24	0		0		0		0	
1/4	1,996.68	1/4	1,633.36	1/4	1,270.03	1/4	907.12	1/4	543.88	1/4	204.81	1/4		1/4		1/4		1/4	
1/2	1,989.11	1/2	1,625.79	1/2	1,262.46	1/2	899.57	1/2	536.31	1/2	198.38	1/2		1/2		1/2		1/2	
3/4	1,981.54	3/4	1,618.22	3/4	1,254.89	3/4	892.01	3/4	528.74	3/4	191.95	3/4		3/4		3/4		3/4	
1	1,973.97	1	1,610.65	1	1,247.32	1	884.45	1	521.17	1	185.61	1		1		1		1	
1/4	1,966.41	1/4	1,603.08	1/4	1,239.75	1/4	876.89	1/4	513.61	1/4	179.28	1/4		1/4		1/4		1/4	
1/2	1,958.84	1/2	1,595.51	1/2	1,232.18	1/2	869.33	1/2	506.05	1/2	172.94	1/2		1/2		1/2		1/2	
3/4	1,951.27	3/4	1,587.94	3/4	1,224.61	3/4	861.77	3/4	498.48	3/4	166.61	3/4		3/4		3/4		3/4	
2	1,943.70	2	1,580.37	2	1,217.04	2	854.20	2	490.96	2	160.35	2		2		2		2	
1/4	1,936.13	1/4	1,572.80	1/4	1,209.48	1/4	846.64	1/4	483.45	1/4	154.10	1/4		1/4		1/4		1/4	
1/2	1,928.56	1/2	1,565.23	1/2	1,201.91	1/2	839.07	1/2	475.93	1/2	147.84	1/2		1/2		1/2		1/2	
3/4	1,920.99	3/4	1,557.66	3/4	1,194.34	3/4	831.50	3/4	468.41	3/4	141.58	3/4		3/4		3/4		3/4	
3	1,913.42	3	1,550.09	3	1,186.77	3	823.93	3	460.99	3	135.30	3		3		3		3	
1/4	1,905.85	1/4	1,542.52	1/4	1,179.20	1/4	816.36	1/4	453.56	1/4	129.02	1/4		1/4		1/4		1/4	
1/2	1,898.28	1/2	1,534.96	1/2	1,171.63	1/2	808.79	1/2	446.13	1/2	122.74	1/2		1/2		1/2		1/2	
3/4	1,890.71	3/4	1,527.39	3/4	1,164.07	3/4	801.22	3/4	438.71	3/4	116.47	3/4		3/4		3/4		3/4	
4	1,883.14	4	1,519.82	4	1,156.51	4	793.65	4	431.37	4	110.28	4		4		4		4	
1/4	1,875.57	1/4	1,512.25	1/4	1,148.95	1/4	786.08	1/4	424.04	1/4	104.10	1/4		1/4		1/4		1/4	
1/2	1,868.00	1/2	1,504.68	1/2	1,141.39	1/2	778.51	1/2	416.71	1/2	97.91	1/2		1/2		1/2		1/2	
3/4	1,860.44	3/4	1,497.11	3/4	1,133.84	3/4	770.95	3/4	409.37	3/4	91.73	3/4		3/4		3/4		3/4	
5	1,852.87	5	1,489.54	5	1,126.28	5	763.38	5	402.14	5	85.72	5		5		5		5	
1/4	1,845.30	1/4	1,481.97	1/4	1,118.72	1/4	755.81	1/4	394.90	1/4	79.71	1/4		1/4		1/4		1/4	
1/2	1,837.73	1/2	1,474.40	1/2	1,111.17	1/2	748.24	1/2	387.66	1/2	73.69	1/2		1/2		1/2		1/2	
3/4	1,830.16	3/4	1,466.83	3/4	1,103.61	3/4	740.67	3/4	380.42	3/4	67.68	3/4		3/4		3/4		3/4	
6	1,822.59	6	1,459.26	6	1,096.05	6	733.10	6	373.29	6	62.48	6		6		6		6	
1/4	1,815.02	1/4	1,451.69	1/4	1,088.50	1/4	725.53	1/4	366.17	1/4	57.27	1/4		1/4		1/4		1/4	
1/2	1,807.45	1/2	1,444.12	1/2	1,080.94	1/2	717.96	1/2	359.04	1/2	52.06	1/2		1/2		1/2		1/2	
3/4	1,799.88	3/4	1,436.55	3/4	1,073.38	3/4	710.39	3/4	351.92	3/4	46.86	3/4		3/4		3/4		3/4	
7	1,792.31	7	1,428.99	7	1,065.82	7	702.82	7	345.02	7	43.00	7		7		7		7	
1/4	1,784.74	1/4	1,421.42	1/4	1,058.27	1/4	695.26	1/4	338.11	1/4	39.15	1/4		1/4		1/4		1/4	
1/2	1,777.17	1/2	1,413.85	1/2	1,050.71	1/2	687.69	1/2	331.21	1/2	35.30	1/2		1/2		1/2		1/2	
3/4	1,769.60	3/4	1,406.28	3/4	1,043.15	3/4	680.12	3/4	324.31	3/4	31.45	3/4		3/4		3/4		3/4	
8	1,762.03	8	1,398.71	8	1,035.60	8	672.55	8	317.50	8	28.76	8		8		8		8	
1/4	1,754.47	1/4	1,391.14	1/4	1,028.04	1/4	664.98	1/4	310.70	1/4	26.06	1/4		1/4		1/4		1/4	
1/2	1,746.90	1/2	1,383.57	1/2	1,020.48	1/2	657.41	1/2	303.89	1/2	23.36	1/2		1/2		1/2		1/2	
3/4	1,739.33	3/4	1,376.00	3/4	1,012.92	3/4	649.84	3/4	297.08	3/4	20.66	3/4		3/4		3/4		3/4	
9	1,731.76	9	1,368.43	9	1,005.37	9	642.27	9	290.37	9		9		9		9		9	
1/4	1,724.19	1/4	1,360.86	1/4	997.81	1/4	634.70	1/4	283.66	1/4		1/4		1/4		1/4		1/4	
1/2	1,716.62	1/2	1,353.29	1/2	990.25	1/2	627.13	1/2	276.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,709.05	3/4	1,345.72	3/4	982.70	3/4	619.57	3/4	270.23	3/4		3/4		3/4		3/4		3/4	
10	1,701.48	10	1,338.15	10	975.14	10	612.00	10	263.61	10		10		10		10		10	
1/4	1,693.91	1/4	1,330.58	1/4	967.58	1/4	604.43	1/4	257.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,686.34	1/2	1,323.01	1/2	960.02	1/2	596.86	1/2	250.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,678.77	3/4	1,315.45	3/4	952.47	3/4	589.29	3/4	243.76	3/4		3/4		3/4		3/4		3/4	
11	1,671.20	11	1,307.88	11	944.91	11	581.72	11	237.24	11		11		11		11		11	
1/4	1,663.63	1/4	1,300.31	1/4	937.35	1/4	574.15	1/4	230.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,656.06	1/2	1,292.74	1/2	929.80	1/2	566.58	1/2	224.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,648.49	3/4	1,285.17	3/4	922.24	3/4	559.01	3/4	217.67	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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		0		0	4,864.50	0	4,530.12	0	4,176.55	0	3,813.82	0	3,451.06	0	3,088.30	0	2,725.54	0	2,362.92
1/4		1/4		1/4	4,857.73	1/4	4,522.94	1/4	4,169.00	1/4	3,806.26	1/4	3,443.50	1/4	3,080.74	1/4	2,717.98	1/4	2,355.36
1/2		1/2		1/2	4,850.95	1/2	4,515.76	1/2	4,161.45	1/2	3,798.70	1/2	3,435.94	1/2	3,073.18	1/2	2,710.43	1/2	2,347.80
3/4		3/4		3/4	5,177.18	3/4	4,844.18	3/4	4,508.58	3/4	4,153.90	3/4	3,791.14	3/4	3,428.38	3/4	3,065.62	3/4	2,702.87
1		1		1	5,172.06	1	4,837.37	1	4,501.36	1	4,146.35	1	3,783.59	1	3,420.83	1	3,058.07	1	2,695.33
1/4		1/4		1/4	5,166.94	1/4	4,830.57	1/4	4,494.15	1/4	4,138.79	1/4	3,776.03	1/4	3,413.27	1/4	3,050.51	1/4	2,687.78
1/2		1/2		1/2	5,161.82	1/2	4,823.76	1/2	4,486.93	1/2	4,131.23	1/2	3,768.47	1/2	3,405.71	1/2	3,042.95	1/2	2,680.24
3/4		3/4		3/4	5,156.69	3/4	4,816.96	3/4	4,479.72	3/4	4,123.67	3/4	3,760.91	3/4	3,398.15	3/4	3,035.39	3/4	2,672.69
2		2		2	5,150.36	2	4,810.12	2	4,472.47	2	4,116.12	2	3,753.36	2	3,390.60	2	3,027.84	2	2,665.15
1/4		1/4		1/4	5,144.02	1/4	4,803.29	1/4	4,465.22	1/4	4,108.56	1/4	3,745.80	1/4	3,383.04	1/4	3,020.28	1/4	2,657.60
1/2		1/2		1/2	5,137.68	1/2	4,796.45	1/2	4,457.97	1/2	4,101.00	1/2	3,738.24	1/2	3,375.48	1/2	3,012.72	1/2	2,650.06
3/4		3/4		3/4	5,131.35	3/4	4,789.62	3/4	4,450.72	3/4	4,093.44	3/4	3,730.68	3/4	3,367.92	3/4	3,005.16	3/4	2,642.51
3		3		3	5,124.02	3	4,782.75	3	4,443.44	3	4,085.89	3	3,723.13	3	3,360.37	3	2,997.61	3	2,634.97
1/4		1/4		1/4	5,116.70	1/4	4,775.89	1/4	4,436.17	1/4	4,078.33	1/4	3,715.57	1/4	3,352.81	1/4	2,990.05	1/4	2,627.42
1/2		1/2		1/2	5,109.38	1/2	4,769.02	1/2	4,428.89	1/2	4,070.77	1/2	3,708.01	1/2	3,345.25	1/2	2,982.49	1/2	2,619.88
3/4		3/4		3/4	5,102.06	3/4	4,762.15	3/4	4,421.61	3/4	4,063.21	3/4	3,700.45	3/4	3,337.69	3/4	2,974.93	3/4	2,612.33
4		4		4	5,094.60	4	4,755.25	4	4,414.30	4	4,055.66	4	3,692.90	4	3,330.14	4	2,967.38	4	2,604.78
1/4		1/4		1/4	5,087.14	1/4	4,748.35	1/4	4,406.99	1/4	4,048.10	1/4	3,685.34	1/4	3,322.58	1/4	2,959.82	1/4	2,597.24
1/2		1/2		1/2	5,079.68	1/2	4,741.45	1/2	4,399.68	1/2	4,040.54	1/2	3,677.78	1/2	3,315.02	1/2	2,952.26	1/2	2,589.69
3/4		3/4		3/4	5,072.22	3/4	4,734.55	3/4	4,392.37	3/4	4,032.98	3/4	3,670.22	3/4	3,307.46	3/4	2,944.70	3/4	2,582.14
5		5		5	5,064.76	5	4,727.62	5	4,385.03	5	4,025.43	5	3,662.67	5	3,299.91	5	2,937.15	5	2,574.59
1/4		1/4		1/4	5,057.30	1/4	4,720.69	1/4	4,377.68	1/4	4,017.87	1/4	3,655.11	1/4	3,292.35	1/4	2,929.59	1/4	2,567.04
1/2		1/2		1/2	5,049.84	1/2	4,713.75	1/2	4,370.34	1/2	4,010.31	1/2	3,647.55	1/2	3,284.79	1/2	2,922.03	1/2	2,559.48
3/4		3/4		3/4	5,042.38	3/4	4,706.82	3/4	4,363.00	3/4	4,002.75	3/4	3,639.99	3/4	3,277.23	3/4	2,914.47	3/4	2,551.93
6		6		6	5,034.92	6	4,699.86	6	4,355.62	6	3,995.20	6	3,632.44	6	3,269.68	6	2,906.92	6	2,544.37
1/4		1/4		1/4	5,027.46	1/4	4,692.90	1/4	4,348.24	1/4	3,987.64	1/4	3,624.88	1/4	3,262.12	1/4	2,899.36	1/4	2,536.81
1/2		1/2		1/2	5,020.00	1/2	4,685.93	1/2	4,340.87	1/2	3,980.08	1/2	3,617.32	1/2	3,254.56	1/2	2,891.80	1/2	2,529.25
3/4		3/4		3/4	5,012.55	3/4	4,678.97	3/4	4,333.49	3/4	3,972.52	3/4	3,609.76	3/4	3,247.00	3/4	2,884.24	3/4	2,521.69
7		7		7	5,005.09	7	4,671.97	7	4,326.08	7	3,964.97	7	3,602.21	7	3,239.45	7	2,876.69	7	2,514.13
1/4		1/4		1/4	4,997.63	1/4	4,664.97	1/4	4,318.68	1/4	3,957.41	1/4	3,594.65	1/4	3,231.89	1/4	2,869.13	1/4	2,506.57
1/2		1/2		1/2	4,990.17	1/2	4,657.98	1/2	4,311.27	1/2	3,949.85	1/2	3,587.09	1/2	3,224.33	1/2	2,861.57	1/2	2,499.01
3/4		3/4		3/4	4,982.71	3/4	4,650.98	3/4	4,303.86	3/4	3,942.29	3/4	3,579.53	3/4	3,216.77	3/4	2,854.01	3/4	2,491.45
8		8		8	4,975.30	8	4,643.92	8	4,296.43	8	3,934.74	8	3,571.98	8	3,209.22	8	2,846.46	8	2,483.89
1/4		1/4		1/4	4,967.90	1/4	4,636.86	1/4	4,288.99	1/4	3,927.18	1/4	3,564.42	1/4	3,201.66	1/4	2,838.90	1/4	2,476.33
1/2		1/2		1/2	4,960.49	1/2	4,629.81	1/2	4,281.55	1/2	3,919.62	1/2	3,556.86	1/2	3,194.10	1/2	2,831.34	1/2	2,468.77
3/4		3/4		3/4	4,953.08	3/4	4,622.75	3/4	4,274.11	3/4	3,912.06	3/4	3,549.30	3/4	3,186.54	3/4	2,823.78	3/4	2,461.21
9		9		9	4,946.08	9	4,615.66	9	4,266.65	9	3,904.51	9	3,541.75	9	3,178.99	9	2,816.23	9	2,453.65
1/4		1/4		1/4	4,939.09	1/4	4,608.57	1/4	4,259.18	1/4	3,896.95	1/4	3,534.19	1/4	3,171.43	1/4	2,808.67	1/4	2,446.09
1/2		1/2		1/2	4,932.09	1/2	4,601.48	1/2	4,251.71	1/2	3,889.39	1/2	3,526.63	1/2	3,163.87	1/2	2,801.11	1/2	2,438.52
3/4		3/4		3/4	4,925.09	3/4	4,594.39	3/4	4,244.24	3/4	3,881.83	3/4	3,519.07	3/4	3,156.31	3/4	2,793.55	3/4	2,430.96
10		10		10	4,918.38	10	4,587.27	10	4,236.74	10	3,874.28	10	3,511.52	10	3,148.76	10	2,786.00	10	2,423.40
1/4		1/4		1/4	4,911.67	1/4	4,580.15	1/4	4,229.24	1/4	3,866.72	1/4	3,503.96	1/4	3,141.20	1/4	2,778.44	1/4	2,415.84
1/2		1/2		1/2	4,904.96	1/2	4,573.03	1/2	4,221.74	1/2	3,859.16	1/2	3,496.40	1/2	3,133.64	1/2	2,770.88	1/2	2,408.28
3/4		3/4		3/4	4,898.25	3/4	4,565.91	3/4	4,214.24	3/4	3,851.60	3/4	3,488.84	3/4	3,126.08	3/4	2,763.32	3/4	2,400.72
11		11		11	4,891.51	11	4,558.76	11	4,206.70	11	3,844.05	11	3,481.29	11	3,118.53	11	2,755.77	11	2,393.16
1/4		1/4		1/4	4,884.77	1/4	4,551.61	1/4	4,199.17	1/4	3,836.49	1/4	3,473.73	1/4	3,110.97	1/4	2,748.21	1/4	2,385.60
1/2		1/2		1/2	4,878.02	1/2	4,544.46	1/2	4,191.64	1/2	3,828.93	1/2	3,466.17	1/2	3,103.41	1/2	2,740.65	1/2	2,378.04
3/4		3/4		3/4	4,871.28	3/4	4,537.30	3/4	4,184.10	3/4	3,821.37	3/4	3,458.61	3/4	3,095.85	3/4	2,733.09	3/4	2,370.48

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 518"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,000.03	0	1,637.13	0	1,274.24	0	913.24	0	550.86	0	211.03	0		0		0		0	
1/4	1,992.47	1/4	1,629.57	1/4	1,266.68	1/4	905.73	1/4	543.30	1/4	204.61	1/4		1/4		1/4		1/4	
1/2	1,984.91	1/2	1,622.01	1/2	1,259.12	1/2	898.22	1/2	535.74	1/2	198.19	1/2		1/2		1/2		1/2	
3/4	1,977.35	3/4	1,614.45	3/4	1,251.56	3/4	890.71	3/4	528.18	3/4	191.77	3/4		3/4		3/4		3/4	
1	1,969.79	1	1,606.89	1	1,244.00	1	883.20	1	520.62	1	185.44	1		1		1		1	
1/4	1,962.23	1/4	1,599.33	1/4	1,236.44	1/4	875.69	1/4	513.07	1/4	179.11	1/4		1/4		1/4		1/4	
1/2	1,954.67	1/2	1,591.77	1/2	1,228.88	1/2	868.18	1/2	505.51	1/2	172.78	1/2		1/2		1/2		1/2	
3/4	1,947.11	3/4	1,584.21	3/4	1,221.32	3/4	860.67	3/4	497.96	3/4	166.45	3/4		3/4		3/4		3/4	
2	1,939.54	2	1,576.65	2	1,213.76	2	853.15	2	490.45	2	160.20	2		2		2		2	
1/4	1,931.98	1/4	1,569.09	1/4	1,206.21	1/4	845.62	1/4	482.94	1/4	153.95	1/4		1/4		1/4		1/4	
1/2	1,924.42	1/2	1,561.53	1/2	1,198.65	1/2	838.10	1/2	475.43	1/2	147.70	1/2		1/2		1/2		1/2	
3/4	1,916.86	3/4	1,553.97	3/4	1,191.10	3/4	830.57	3/4	467.93	3/4	141.45	3/4		3/4		3/4		3/4	
3	1,909.30	3	1,546.41	3	1,183.58	3	823.01	3	460.51	3	135.17	3		3		3		3	
1/4	1,901.74	1/4	1,538.85	1/4	1,176.06	1/4	815.45	1/4	453.09	1/4	128.90	1/4		1/4		1/4		1/4	
1/2	1,894.18	1/2	1,531.29	1/2	1,168.54	1/2	807.89	1/2	445.67	1/2	122.63	1/2		1/2		1/2		1/2	
3/4	1,886.62	3/4	1,523.73	3/4	1,161.02	3/4	800.33	3/4	438.25	3/4	116.36	3/4		3/4		3/4		3/4	
4	1,879.06	4	1,516.17	4	1,153.51	4	792.77	4	430.93	4	110.18	4		4		4		4	
1/4	1,871.50	1/4	1,508.61	1/4	1,146.00	1/4	785.21	1/4	423.60	1/4	104.00	1/4		1/4		1/4		1/4	
1/2	1,863.94	1/2	1,501.05	1/2	1,138.49	1/2	777.65	1/2	416.28	1/2	97.82	1/2		1/2		1/2		1/2	
3/4	1,856.38	3/4	1,493.49	3/4	1,130.99	3/4	770.09	3/4	408.95	3/4	91.64	3/4		3/4		3/4		3/4	
5	1,848.82	5	1,485.93	5	1,123.48	5	762.53	5	401.72	5	85.64	5		5		5		5	
1/4	1,841.26	1/4	1,478.37	1/4	1,115.97	1/4	754.97	1/4	394.49	1/4	79.63	1/4		1/4		1/4		1/4	
1/2	1,833.70	1/2	1,470.81	1/2	1,108.46	1/2	747.41	1/2	387.26	1/2	73.63	1/2		1/2		1/2		1/2	
3/4	1,826.14	3/4	1,463.25	3/4	1,100.95	3/4	739.85	3/4	380.03	3/4	67.62	3/4		3/4		3/4		3/4	
6	1,818.58	6	1,455.69	6	1,093.44	6	732.29	6	372.92	6	62.42	6		6		6		6	
1/4	1,811.02	1/4	1,448.13	1/4	1,085.93	1/4	724.73	1/4	365.80	1/4	57.22	1/4		1/4		1/4		1/4	
1/2	1,803.46	1/2	1,440.57	1/2	1,078.43	1/2	717.17	1/2	358.68	1/2	52.01	1/2		1/2		1/2		1/2	
3/4	1,795.90	3/4	1,433.00	3/4	1,070.92	3/4	709.61	3/4	351.57	3/4	46.81	3/4		3/4		3/4		3/4	
7	1,788.34	7	1,425.44	7	1,063.41	7	702.05	7	344.67	7	42.96	7		7		7		7	
1/4	1,780.78	1/4	1,417.88	1/4	1,055.90	1/4	694.49	1/4	337.78	1/4	39.12	1/4		1/4		1/4		1/4	
1/2	1,773.22	1/2	1,410.32	1/2	1,048.39	1/2	686.93	1/2	330.88	1/2	35.27	1/2		1/2		1/2		1/2	
3/4	1,765.66	3/4	1,402.76	3/4	1,040.88	3/4	679.37	3/4	323.99	3/4	31.42	3/4		3/4		3/4		3/4	
8	1,758.10	8	1,395.20	8	1,033.38	8	671.81	8	317.19	8	28.72	8		8		8		8	
1/4	1,750.54	1/4	1,387.64	1/4	1,025.87	1/4	664.25	1/4	310.39	1/4	26.03	1/4		1/4		1/4		1/4	
1/2	1,742.98	1/2	1,380.08	1/2	1,018.36	1/2	656.69	1/2	303.59	1/2	23.33	1/2		1/2		1/2		1/2	
3/4	1,735.42	3/4	1,372.52	3/4	1,010.85	3/4	649.13	3/4	296.79	3/4	20.64	3/4		3/4		3/4		3/4	
9	1,727.86	9	1,364.96	9	1,003.34	9	641.57	9	290.09	9		9		9		9		9	
1/4	1,720.30	1/4	1,357.40	1/4	995.83	1/4	634.01	1/4	283.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,712.74	1/2	1,349.84	1/2	988.32	1/2	626.45	1/2	276.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,705.18	3/4	1,342.28	3/4	980.82	3/4	618.89	3/4	269.97	3/4		3/4		3/4		3/4		3/4	
10	1,697.62	10	1,334.72	10	973.31	10	611.33	10	263.36	10		10		10		10		10	
1/4	1,690.06	1/4	1,327.16	1/4	965.80	1/4	603.78	1/4	256.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,682.49	1/2	1,319.60	1/2	958.29	1/2	596.22	1/2	250.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,674.93	3/4	1,312.04	3/4	950.78	3/4	588.66	3/4	243.52	3/4		3/4		3/4		3/4		3/4	
11	1,667.37	11	1,304.48	11	943.27	11	581.10	11	237.01	11		11		11		11		11	
1/4	1,659.81	1/4	1,296.92	1/4	935.76	1/4	573.54	1/4	230.49	1/4		1/4		1/4		1/4		1/4	
1/2	1,652.25	1/2	1,289.36	1/2	928.26	1/2	565.98	1/2	223.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,644.69	3/4	1,281.80	3/4	920.75	3/4	558.42	3/4	217.46	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/04/2020 JS
CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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	2,051.79	0	1,689.43	0	1,327.08	0	965.16	0	602.87	0	244.01	0		0		0		0	
1/4	2,044.24	1/4	1,681.89	1/4	1,319.53	1/4	957.63	1/4	595.32	1/4	236.61	1/4		1/4		1/4		1/4	
1/2	2,036.69	1/2	1,674.34	1/2	1,311.98	1/2	950.09	1/2	587.78	1/2	229.21	1/2		1/2		1/2		1/2	
3/4	2,029.14	3/4	1,666.79	3/4	1,304.44	3/4	942.55	3/4	580.23	3/4	221.81	3/4		3/4		3/4		3/4	
1	2,021.59	1	1,659.24	1	1,296.89	1	935.01	1	572.68	1	214.40	1		1		1		1	
1/4	2,014.04	1/4	1,651.69	1/4	1,289.34	1/4	927.47	1/4	565.13	1/4	207.00	1/4		1/4		1/4		1/4	
1/2	2,006.49	1/2	1,644.14	1/2	1,281.79	1/2	919.92	1/2	557.58	1/2	199.59	1/2		1/2		1/2		1/2	
3/4	1,998.94	3/4	1,636.59	3/4	1,274.24	3/4	912.37	3/4	550.03	3/4	192.17	3/4		3/4		3/4		3/4	
2	1,991.39	2	1,629.04	2	1,266.69	2	904.82	2	542.48	2	184.75	2		2		2		2	
1/4	1,983.85	1/4	1,621.49	1/4	1,259.14	1/4	897.27	1/4	534.93	1/4	177.33	1/4		1/4		1/4		1/4	
1/2	1,976.30	1/2	1,613.94	1/2	1,251.59	1/2	889.72	1/2	527.39	1/2	169.80	1/2		1/2		1/2		1/2	
3/4	1,968.75	3/4	1,606.40	3/4	1,244.05	3/4	882.17	3/4	519.84	3/4	162.27	3/4		3/4		3/4		3/4	
3	1,961.20	3	1,598.85	3	1,236.50	3	874.63	3	512.29	3	154.73	3		3		3		3	
1/4	1,953.65	1/4	1,591.30	1/4	1,228.95	1/4	867.08	1/4	504.74	1/4	147.20	1/4		1/4		1/4		1/4	
1/2	1,946.10	1/2	1,583.75	1/2	1,221.41	1/2	859.53	1/2	497.19	1/2	139.66	1/2		1/2		1/2		1/2	
3/4	1,938.55	3/4	1,576.20	3/4	1,213.88	3/4	851.98	3/4	489.64	3/4	132.13	3/4		3/4		3/4		3/4	
4	1,931.00	4	1,568.65	4	1,206.34	4	844.43	4	482.09	4	124.60	4		4		4		4	
1/4	1,923.45	1/4	1,561.10	1/4	1,198.80	1/4	836.88	1/4	474.54	1/4	117.06	1/4		1/4		1/4		1/4	
1/2	1,915.90	1/2	1,553.55	1/2	1,191.27	1/2	829.33	1/2	467.00	1/2	109.61	1/2		1/2		1/2		1/2	
3/4	1,908.36	3/4	1,546.00	3/4	1,183.73	3/4	821.79	3/4	459.45	3/4	102.15	3/4		3/4		3/4		3/4	
5	1,900.81	5	1,538.45	5	1,176.19	5	814.24	5	451.90	5	94.70	5		5		5		5	
1/4	1,893.26	1/4	1,530.91	1/4	1,168.66	1/4	806.69	1/4	444.35	1/4	87.24	1/4		1/4		1/4		1/4	
1/2	1,885.71	1/2	1,523.36	1/2	1,161.12	1/2	799.14	1/2	436.82	1/2	80.49	1/2		1/2		1/2		1/2	
3/4	1,878.16	3/4	1,515.81	3/4	1,153.58	3/4	791.59	3/4	429.29	3/4	73.75	3/4		3/4		3/4		3/4	
6	1,870.61	6	1,508.26	6	1,146.05	6	784.04	6	421.76	6	67.00	6		6		6		6	
1/4	1,863.06	1/4	1,500.71	1/4	1,138.51	1/4	776.49	1/4	414.23	1/4	60.25	1/4		1/4		1/4		1/4	
1/2	1,855.51	1/2	1,493.16	1/2	1,130.97	1/2	768.94	1/2	406.83	1/2	54.76	1/2		1/2		1/2		1/2	
3/4	1,847.96	3/4	1,485.61	3/4	1,123.44	3/4	761.40	3/4	399.42	3/4	49.27	3/4		3/4		3/4		3/4	
7	1,840.41	7	1,478.06	7	1,115.90	7	753.85	7	392.02	7	43.78	7		7		7		7	
1/4	1,832.87	1/4	1,470.51	1/4	1,108.36	1/4	746.30	1/4	384.62	1/4	38.30	1/4		1/4		1/4		1/4	
1/2	1,825.32	1/2	1,462.96	1/2	1,100.83	1/2	738.75	1/2	377.22	1/2	34.06	1/2		1/2		1/2		1/2	
3/4	1,817.77	3/4	1,455.42	3/4	1,093.29	3/4	731.20	3/4	369.82	3/4	29.83	3/4		3/4		3/4		3/4	
8	1,810.22	8	1,447.87	8	1,085.75	8	723.65	8	362.42	8	25.60	8		8		8		8	
1/4	1,802.67	1/4	1,440.32	1/4	1,078.21	1/4	716.10	1/4	355.02	1/4	21.37	1/4		1/4		1/4		1/4	
1/2	1,795.12	1/2	1,432.77	1/2	1,070.68	1/2	708.55	1/2	347.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,787.57	3/4	1,425.22	3/4	1,063.14	3/4	701.01	3/4	340.22	3/4		3/4		3/4		3/4		3/4	
9	1,780.02	9	1,417.67	9	1,055.60	9	693.46	9	332.82	9		9		9		9		9	
1/4	1,772.47	1/4	1,410.12	1/4	1,048.07	1/4	685.91	1/4	325.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,764.92	1/2	1,402.57	1/2	1,040.53	1/2	678.36	1/2	318.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,757.38	3/4	1,395.02	3/4	1,032.99	3/4	670.81	3/4	310.62	3/4		3/4		3/4		3/4		3/4	
10	1,749.83	10	1,387.47	10	1,025.46	10	663.26	10	303.21	10		10		10		10		10	
1/4	1,742.28	1/4	1,379.93	1/4	1,017.92	1/4	655.71	1/4	295.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,734.73	1/2	1,372.38	1/2	1,010.38	1/2	648.16	1/2	288.41	1/2		1/2		1/2		1/2		1/2	
3/4	1,727.18	3/4	1,364.83	3/4	1,002.85	3/4	640.62	3/4	281.01	3/4		3/4		3/4		3/4		3/4	
11	1,719.63	11	1,357.28	11	995.31	11	633.07	11	273.61	11		11		11		11		11	
1/4	1,712.08	1/4	1,349.73	1/4	987.77	1/4	625.52	1/4	266.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,704.53	1/2	1,342.18	1/2	980.24	1/2	617.97	1/2	258.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,696.98	3/4	1,334.63	3/4	972.70	3/4	610.42	3/4	251.41	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 06/04/2020 CL
PRINTED: 06/05/2020 SW

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P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

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	2,023.84	0	1,662.29	0	1,300.73	0	953.02	0	594.01	0	236.08	0		0		0		0	
1/4	2,016.31	1/4	1,654.75	1/4	1,293.20	1/4	945.83	1/4	586.48	1/4	228.70	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,008.78	1/2	1,647.22	1/2	1,285.67	1/2	938.64	1/2	578.94	1/2	221.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,001.24	3/4	1,639.69	3/4	1,278.13	3/4	931.45	3/4	571.41	3/4	213.93	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,993.71	1	1,632.16	1	1,270.60	1	924.26	1	563.88	1	206.54	1	1	1	1	1	1	1	1
1/4	1,986.18	1/4	1,624.62	1/4	1,263.11	1/4	917.02	1/4	556.35	1/4	199.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,978.65	1/2	1,617.09	1/2	1,255.62	1/2	909.78	1/2	548.82	1/2	191.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,971.12	3/4	1,609.56	3/4	1,248.13	3/4	902.53	3/4	541.28	3/4	184.34	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,963.58	2	1,602.03	2	1,240.64	2	895.29	2	533.75	2	176.94	2	2	2	2	2	2	2	2
1/4	1,956.05	1/4	1,594.50	1/4	1,233.44	1/4	887.76	1/4	526.22	1/4	169.42	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,948.52	1/2	1,586.96	1/2	1,226.24	1/2	880.23	1/2	518.69	1/2	161.91	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,940.99	3/4	1,579.43	3/4	1,219.04	3/4	872.70	3/4	511.16	3/4	154.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,933.45	3	1,571.90	3	1,211.84	3	865.16	3	503.62	3	146.87	3	3	3	3	3	3	3	3
1/4	1,925.92	1/4	1,564.37	1/4	1,204.65	1/4	857.63	1/4	496.09	1/4	139.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,918.39	1/2	1,556.83	1/2	1,197.46	1/2	850.10	1/2	488.56	1/2	131.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.86	3/4	1,549.30	3/4	1,190.27	3/4	842.57	3/4	481.03	3/4	124.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,903.32	4	1,541.77	4	1,183.08	4	835.04	4	473.49	4	116.80	4	4	4	4	4	4	4	4
1/4	1,895.79	1/4	1,534.24	1/4	1,175.89	1/4	827.50	1/4	465.96	1/4	109.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,888.26	1/2	1,526.70	1/2	1,168.70	1/2	819.97	1/2	458.43	1/2	101.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,880.73	3/4	1,519.17	3/4	1,161.51	3/4	812.44	3/4	450.90	3/4	94.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,873.19	5	1,511.64	5	1,154.32	5	804.91	5	443.37	5	87.05	5	5	5	5	5	5	5	5
1/4	1,865.66	1/4	1,504.11	1/4	1,147.14	1/4	797.38	1/4	435.85	1/4	80.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,858.13	1/2	1,496.57	1/2	1,139.95	1/2	789.84	1/2	428.34	1/2	73.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,850.60	3/4	1,489.04	3/4	1,132.76	3/4	782.31	3/4	420.83	3/4	66.85	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,843.06	6	1,481.51	6	1,125.57	6	774.78	6	413.31	6	60.12	6	6	6	6	6	6	6	6
1/4	1,835.53	1/4	1,473.98	1/4	1,118.38	1/4	767.25	1/4	405.93	1/4	54.64	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,828.00	1/2	1,466.44	1/2	1,111.19	1/2	759.71	1/2	398.54	1/2	49.16	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,820.47	3/4	1,458.91	3/4	1,104.00	3/4	752.18	3/4	391.16	3/4	43.69	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,812.93	7	1,451.38	7	1,096.81	7	744.65	7	383.77	7	38.21	7	7	7	7	7	7	7	7
1/4	1,805.40	1/4	1,443.85	1/4	1,089.62	1/4	737.12	1/4	376.39	1/4	33.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.87	1/2	1,436.31	1/2	1,082.43	1/2	729.59	1/2	369.01	1/2	29.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,790.34	3/4	1,428.78	3/4	1,075.24	3/4	722.05	3/4	361.62	3/4	25.54	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,782.81	8	1,421.25	8	1,068.05	8	714.52	8	354.24	8	21.32	8	8	8	8	8	8	8	8
1/4	1,775.27	1/4	1,413.72	1/4	1,060.86	1/4	706.99	1/4	346.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,767.74	1/2	1,406.19	1/2	1,053.67	1/2	699.46	1/2	339.47	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,760.21	3/4	1,398.65	3/4	1,046.49	3/4	691.93	3/4	332.08	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,752.68	9	1,391.12	9	1,039.30	9	684.39	9	324.70	9		9	9	9	9	9	9	9	9
1/4	1,745.14	1/4	1,383.59	1/4	1,032.11	1/4	676.86	1/4	317.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,737.61	1/2	1,376.06	1/2	1,024.92	1/2	669.33	1/2	309.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,730.08	3/4	1,368.52	3/4	1,017.73	3/4	661.80	3/4	302.54	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,722.55	10	1,360.99	10	1,010.54	10	654.27	10	295.16	10		10	10	10	10	10	10	10	10
1/4	1,715.01	1/4	1,353.46	1/4	1,003.35	1/4	646.73	1/4	287.78	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,707.48	1/2	1,345.93	1/2	996.16	1/2	639.20	1/2	280.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,699.95	3/4	1,338.39	3/4	988.97	3/4	631.67	3/4	273.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,692.42	11	1,330.86	11	981.78	11	624.14	11	265.62	11		11	11	11	11	11	11	11	11
1/4	1,684.88	1/4	1,323.33	1/4	974.59	1/4	616.60	1/4	258.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,677.35	1/2	1,315.80	1/2	967.40	1/2	609.07	1/2	250.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,669.82	3/4	1,308.26	3/4	960.21	3/4	601.54	3/4	243.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

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	2,035.46	0	1,674.68	0	1,313.90	0	953.43	0	592.72	0	235.58	0		0		0		0	
1/4	2,027.94	1/4	1,667.16	1/4	1,306.38	1/4	945.93	1/4	585.21	1/4	228.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,020.43	1/2	1,659.65	1/2	1,298.86	1/2	938.42	1/2	577.69	1/2	220.84	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,012.91	3/4	1,652.13	3/4	1,291.35	3/4	930.91	3/4	570.18	3/4	213.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,005.40	1	1,644.61	1	1,283.83	1	923.40	1	562.66	1	206.11	1	1	1	1	1	1	1	1
1/4	1,997.88	1/4	1,637.10	1/4	1,276.31	1/4	915.89	1/4	555.14	1/4	198.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,990.36	1/2	1,629.58	1/2	1,268.80	1/2	908.38	1/2	547.63	1/2	191.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,982.85	3/4	1,622.06	3/4	1,261.28	3/4	900.87	3/4	540.11	3/4	183.95	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,975.33	2	1,614.55	2	1,253.77	2	893.36	2	532.60	2	176.57	2	2	2	2	2	2	2	2
1/4	1,967.81	1/4	1,607.03	1/4	1,246.25	1/4	885.85	1/4	525.08	1/4	169.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,960.30	1/2	1,599.52	1/2	1,238.73	1/2	878.33	1/2	517.56	1/2	161.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,952.78	3/4	1,592.00	3/4	1,231.22	3/4	870.82	3/4	510.05	3/4	154.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,945.27	3	1,584.48	3	1,223.70	3	863.30	3	502.53	3	146.56	3	3	3	3	3	3	3	3
1/4	1,937.75	1/4	1,576.97	1/4	1,216.19	1/4	855.78	1/4	495.02	1/4	139.06	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,930.23	1/2	1,569.45	1/2	1,208.68	1/2	848.27	1/2	487.50	1/2	131.56	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,922.72	3/4	1,561.93	3/4	1,201.16	3/4	840.75	3/4	479.98	3/4	124.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,915.20	4	1,554.42	4	1,193.65	4	833.24	4	472.47	4	116.56	4	4	4	4	4	4	4	4
1/4	1,907.68	1/4	1,546.90	1/4	1,186.14	1/4	825.72	1/4	464.95	1/4	109.14	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,900.17	1/2	1,539.39	1/2	1,178.64	1/2	818.20	1/2	457.44	1/2	101.71	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,892.65	3/4	1,531.87	3/4	1,171.13	3/4	810.69	3/4	449.92	3/4	94.29	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,885.14	5	1,524.35	5	1,163.62	5	803.17	5	442.40	5	86.87	5	5	5	5	5	5	5	5
1/4	1,877.62	1/4	1,516.84	1/4	1,156.12	1/4	795.66	1/4	434.91	1/4	80.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,870.10	1/2	1,509.32	1/2	1,148.61	1/2	788.14	1/2	427.41	1/2	73.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,862.59	3/4	1,501.80	3/4	1,141.10	3/4	780.62	3/4	419.91	3/4	66.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,855.07	6	1,494.29	6	1,133.60	6	773.11	6	412.41	6	59.99	6	6	6	6	6	6	6	6
1/4	1,847.55	1/4	1,486.77	1/4	1,126.09	1/4	765.59	1/4	405.05	1/4	54.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,840.04	1/2	1,479.25	1/2	1,118.58	1/2	758.08	1/2	397.68	1/2	49.06	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,832.52	3/4	1,471.74	3/4	1,111.08	3/4	750.56	3/4	390.31	3/4	43.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,825.00	7	1,464.22	7	1,103.57	7	743.04	7	382.94	7	38.14	7	7	7	7	7	7	7	7
1/4	1,817.49	1/4	1,456.71	1/4	1,096.06	1/4	735.53	1/4	375.57	1/4	33.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,809.97	1/2	1,449.19	1/2	1,088.56	1/2	728.01	1/2	368.20	1/2	29.71	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,802.46	3/4	1,441.67	3/4	1,081.05	3/4	720.50	3/4	360.84	3/4	25.49	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,794.94	8	1,434.16	8	1,073.54	8	712.98	8	353.47	8	21.28	8	8	8	8	8	8	8	8
1/4	1,787.42	1/4	1,426.64	1/4	1,066.04	1/4	705.46	1/4	346.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,779.91	1/2	1,419.12	1/2	1,058.53	1/2	697.95	1/2	338.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,772.39	3/4	1,411.61	3/4	1,051.02	3/4	690.43	3/4	331.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,764.87	9	1,404.09	9	1,043.52	9	682.92	9	324.00	9		9	9	9	9	9	9	9	9
1/4	1,757.36	1/4	1,396.58	1/4	1,036.01	1/4	675.40	1/4	316.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,749.84	1/2	1,389.06	1/2	1,028.50	1/2	667.88	1/2	309.26	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,742.33	3/4	1,381.54	3/4	1,020.99	3/4	660.37	3/4	301.89	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,734.81	10	1,374.03	10	1,013.49	10	652.85	10	294.52	10		10	10	10	10	10	10	10	10
1/4	1,727.29	1/4	1,366.51	1/4	1,005.98	1/4	645.34	1/4	287.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,719.78	1/2	1,358.99	1/2	998.47	1/2	637.82	1/2	279.79	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,712.26	3/4	1,351.48	3/4	990.97	3/4	630.30	3/4	272.42	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,704.74	11	1,343.96	11	983.46	11	622.79	11	265.05	11		11	11	11	11	11	11	11	11
1/4	1,697.23	1/4	1,336.45	1/4	975.95	1/4	615.27	1/4	257.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,689.71	1/2	1,328.93	1/2	968.45	1/2	607.76	1/2	250.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,682.20	3/4	1,321.41	3/4	960.94	3/4	600.24	3/4	242.95	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.

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PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2020



BARGE "EMS 518"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 15'-08"

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	2,011.78	0	1,652.03	0	1,293.80	0	944.93	0	591.23	0	235.01	0		0		0		0	
1/4	2,004.29	1/4	1,644.54	1/4	1,286.37	1/4	937.77	1/4	583.74	1/4	227.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,996.79	1/2	1,637.04	1/2	1,278.93	1/2	930.61	1/2	576.24	1/2	220.31	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,989.30	3/4	1,629.55	3/4	1,271.50	3/4	923.45	3/4	568.74	3/4	212.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,981.80	1	1,622.05	1	1,264.07	1	916.29	1	561.25	1	205.61	1	1	1	1	1	1	1	1
1/4	1,974.31	1/4	1,614.56	1/4	1,256.64	1/4	909.12	1/4	553.75	1/4	198.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,966.81	1/2	1,607.06	1/2	1,249.21	1/2	901.96	1/2	546.25	1/2	190.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,959.32	3/4	1,599.57	3/4	1,241.77	3/4	894.79	3/4	538.76	3/4	183.52	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,951.83	2	1,592.07	2	1,234.34	2	887.63	2	531.26	2	176.15	2	2	2	2	2	2	2	2
1/4	1,944.33	1/4	1,584.58	1/4	1,226.93	1/4	880.44	1/4	523.76	1/4	168.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,936.84	1/2	1,577.09	1/2	1,219.51	1/2	873.26	1/2	516.27	1/2	161.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,929.34	3/4	1,569.59	3/4	1,212.10	3/4	866.07	3/4	508.77	3/4	153.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,921.85	3	1,562.10	3	1,204.68	3	858.89	3	501.27	3	146.22	3	3	3	3	3	3	3	3
1/4	1,914.35	1/4	1,554.60	1/4	1,197.26	1/4	851.70	1/4	493.78	1/4	138.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,906.86	1/2	1,547.11	1/2	1,189.85	1/2	844.51	1/2	486.28	1/2	131.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,899.36	3/4	1,539.61	3/4	1,182.43	3/4	837.32	3/4	478.78	3/4	123.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,891.87	4	1,532.12	4	1,175.01	4	830.14	4	471.28	4	116.27	4	4	4	4	4	4	4	4
1/4	1,884.37	1/4	1,524.62	1/4	1,167.60	1/4	822.89	1/4	463.79	1/4	108.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,876.88	1/2	1,517.13	1/2	1,160.20	1/2	815.64	1/2	456.29	1/2	101.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,869.38	3/4	1,509.63	3/4	1,152.79	3/4	808.39	3/4	448.79	3/4	94.06	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,861.89	5	1,502.14	5	1,145.38	5	801.14	5	441.30	5	86.66	5	5	5	5	5	5	5	5
1/4	1,854.39	1/4	1,494.65	1/4	1,138.22	1/4	793.65	1/4	433.82	1/4	79.97	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,846.90	1/2	1,487.16	1/2	1,131.06	1/2	786.15	1/2	426.34	1/2	73.28	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,839.40	3/4	1,479.68	3/4	1,123.91	3/4	778.65	3/4	418.87	3/4	66.59	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,831.91	6	1,472.19	6	1,116.75	6	771.16	6	411.39	6	59.90	6	6	6	6	6	6	6	6
1/4	1,824.41	1/4	1,464.76	1/4	1,109.59	1/4	763.66	1/4	404.04	1/4	54.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,816.92	1/2	1,457.32	1/2	1,102.43	1/2	756.16	1/2	396.69	1/2	49.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,809.42	3/4	1,449.89	3/4	1,095.27	3/4	748.67	3/4	389.34	3/4	43.55	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,801.93	7	1,442.46	7	1,088.11	7	741.17	7	381.99	7	38.10	7	7	7	7	7	7	7	7
1/4	1,794.43	1/4	1,435.02	1/4	1,080.95	1/4	733.67	1/4	374.64	1/4	33.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,786.94	1/2	1,427.59	1/2	1,073.79	1/2	726.18	1/2	367.29	1/2	29.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,779.44	3/4	1,420.16	3/4	1,066.63	3/4	718.68	3/4	359.94	3/4	25.47	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,771.95	8	1,412.73	8	1,059.47	8	711.18	8	352.59	8	21.26	8	8	8	8	8	8	8	8
1/4	1,764.46	1/4	1,405.29	1/4	1,052.31	1/4	703.69	1/4	345.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,756.96	1/2	1,397.86	1/2	1,045.15	1/2	696.19	1/2	337.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,749.47	3/4	1,390.43	3/4	1,037.99	3/4	688.69	3/4	330.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,741.97	9	1,382.99	9	1,030.84	9	681.20	9	323.20	9		9	9	9	9	9	9	9	9
1/4	1,734.48	1/4	1,375.56	1/4	1,023.68	1/4	673.70	1/4	315.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,726.98	1/2	1,368.13	1/2	1,016.52	1/2	666.20	1/2	308.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,719.49	3/4	1,360.70	3/4	1,009.36	3/4	658.70	3/4	301.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,711.99	10	1,353.26	10	1,002.20	10	651.21	10	293.80	10		10	10	10	10	10	10	10	10
1/4	1,704.50	1/4	1,345.83	1/4	995.04	1/4	643.71	1/4	286.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,697.00	1/2	1,338.40	1/2	987.88	1/2	636.21	1/2	279.10	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,689.51	3/4	1,330.96	3/4	980.72	3/4	628.72	3/4	271.75	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,682.01	11	1,323.53	11	973.56	11	621.22	11	264.41	11		11	11	11	11	11	11	11	11
1/4	1,674.52	1/4	1,316.10	1/4	966.40	1/4	613.72	1/4	257.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,667.02	1/2	1,308.67	1/2	959.24	1/2	606.23	1/2	249.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,659.53	3/4	1,301.23	3/4	952.08	3/4	598.73	3/4	242.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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