



# BARGE "EMS 3052"

## ULLAGE TRIM TABLE 10" HATCH

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

(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 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

July 21, 2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "EMS 3052"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 3/4"

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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0	4,323.81	0	3,995.28	0	3,665.35	0	3,335.04	0	3,004.73	0	2,674.42	0	2,344.12	0	2,013.68	0	1,683.16
1/4		1/4	4,317.02	1/4	3,988.43	1/4	3,658.46	1/4	3,328.16	1/4	2,997.85	1/4	2,667.54	1/4	2,337.24	1/4	2,006.80	1/4	1,676.27
1/2		1/2	4,310.21	1/2	3,981.58	1/2	3,651.58	1/2	3,321.28	1/2	2,990.97	1/2	2,660.66	1/2	2,330.35	1/2	1,999.91	1/2	1,669.38
3/4		3/4	4,303.40	3/4	3,974.73	3/4	3,644.70	3/4	3,314.39	3/4	2,984.09	3/4	2,653.78	3/4	2,323.47	3/4	1,993.03	3/4	1,662.50
1		1	4,296.59	1	3,967.88	1	3,637.82	1	3,307.51	1	2,977.21	1	2,646.90	1	2,316.59	1	1,986.14	1	1,655.61
1/4		1/4	4,289.78	1/4	3,961.03	1/4	3,630.94	1/4	3,300.63	1/4	2,970.32	1/4	2,640.02	1/4	2,309.71	1/4	1,979.25	1/4	1,648.73
1/2		1/2	4,282.93	1/2	3,954.18	1/2	3,624.06	1/2	3,293.75	1/2	2,963.44	1/2	2,633.14	1/2	2,302.83	1/2	1,972.37	1/2	1,641.84
3/4		3/4	4,276.08	3/4	3,947.33	3/4	3,617.18	3/4	3,286.87	3/4	2,956.56	3/4	2,626.25	3/4	2,295.95	3/4	1,965.48	3/4	1,634.95
2		2	4,269.23	2	3,940.48	2	3,610.30	2	3,279.99	2	2,949.68	2	2,619.37	2	2,289.07	2	1,958.60	2	1,628.07
1/4		1/4	4,262.38	1/4	3,933.64	1/4	3,603.41	1/4	3,273.11	1/4	2,942.80	1/4	2,612.49	1/4	2,282.18	1/4	1,951.71	1/4	1,621.18
1/2		1/2	4,255.53	1/2	3,926.78	1/2	3,596.53	1/2	3,266.22	1/2	2,935.92	1/2	2,605.61	1/2	2,275.30	1/2	1,944.82	1/2	1,614.30
3/4		3/4	4,248.68	3/4	3,919.92	3/4	3,589.65	3/4	3,259.34	3/4	2,929.04	3/4	2,598.73	3/4	2,268.42	3/4	1,937.94	3/4	1,607.41
3		3	4,241.84	3	3,913.06	3	3,582.77	3	3,252.46	3	2,922.15	3	2,591.85	3	2,261.54	3	1,931.05	3	1,600.52
1/4		1/4	4,234.99	1/4	3,906.20	1/4	3,575.89	1/4	3,245.58	1/4	2,915.27	1/4	2,584.97	1/4	2,254.66	1/4	1,924.17	1/4	1,593.64
1/2		1/2	4,228.14	1/2	3,899.31	1/2	3,569.01	1/2	3,238.70	1/2	2,908.39	1/2	2,578.08	1/2	2,247.78	1/2	1,917.28	1/2	1,586.75
3/4		3/4	4,221.29	3/4	3,892.43	3/4	3,562.13	3/4	3,231.82	3/4	2,901.51	3/4	2,571.20	3/4	2,240.90	3/4	1,910.39	3/4	1,579.87
4		4	4,214.44	4	3,885.55	4	3,555.24	4	3,224.94	4	2,894.63	4	2,564.32	4	2,234.01	4	1,903.51	4	1,572.98
1/4		1/4	4,207.59	1/4	3,878.67	1/4	3,548.36	1/4	3,218.06	1/4	2,887.75	1/4	2,557.44	1/4	2,227.13	1/4	1,896.62	1/4	1,566.09
1/2		1/2	4,200.74	1/2	3,871.79	1/2	3,541.48	1/2	3,211.17	1/2	2,880.87	1/2	2,550.56	1/2	2,220.25	1/2	1,889.74	1/2	1,559.21
3/4		3/4	4,193.89	3/4	3,864.91	3/4	3,534.60	3/4	3,204.29	3/4	2,873.99	3/4	2,543.68	3/4	2,213.37	3/4	1,882.85	3/4	1,552.32
5		5	4,187.04	5	3,858.03	5	3,527.72	5	3,197.41	5	2,867.10	5	2,536.80	5	2,206.49	5	1,875.96	5	1,545.44
1/4	4,489.60	1/4	4,180.20	1/4	3,851.14	1/4	3,520.84	1/4	3,190.53	1/4	2,860.22	1/4	2,529.92	1/4	2,199.61	1/4	1,869.08	1/4	1,538.55
1/2	4,485.38	1/2	4,173.35	1/2	3,844.26	1/2	3,513.96	1/2	3,183.65	1/2	2,853.34	1/2	2,523.03	1/2	2,192.72	1/2	1,862.19	1/2	1,531.66
3/4	4,481.16	3/4	4,166.50	3/4	3,837.38	3/4	3,507.07	3/4	3,176.77	3/4	2,846.46	3/4	2,516.15	3/4	2,185.83	3/4	1,855.31	3/4	1,524.78
6	4,476.94	6	4,159.65	6	3,830.50	6	3,500.19	6	3,169.89	6	2,839.58	6	2,509.27	6	2,178.95	6	1,848.42	6	1,517.89
1/4	4,472.72	1/4	4,152.80	1/4	3,823.62	1/4	3,493.31	1/4	3,163.00	1/4	2,832.70	1/4	2,502.39	1/4	2,172.06	1/4	1,841.53	1/4	1,511.01
1/2	4,467.36	1/2	4,145.95	1/2	3,816.74	1/2	3,486.43	1/2	3,156.12	1/2	2,825.82	1/2	2,495.51	1/2	2,165.18	1/2	1,834.65	1/2	1,504.12
3/4	4,461.99	3/4	4,139.10	3/4	3,809.86	3/4	3,479.55	3/4	3,149.24	3/4	2,818.93	3/4	2,488.63	3/4	2,158.29	3/4	1,827.76	3/4	1,497.23
7	4,456.62	7	4,132.25	7	3,802.97	7	3,472.67	7	3,142.36	7	2,812.05	7	2,481.75	7	2,151.40	7	1,820.88	7	1,490.35
1/4	4,451.26	1/4	4,125.40	1/4	3,796.09	1/4	3,465.79	1/4	3,135.48	1/4	2,805.17	1/4	2,474.86	1/4	2,144.52	1/4	1,813.99	1/4	1,483.46
1/2	4,444.89	1/2	4,118.56	1/2	3,789.21	1/2	3,458.90	1/2	3,128.60	1/2	2,798.29	1/2	2,467.98	1/2	2,137.63	1/2	1,807.10	1/2	1,476.58
3/4	4,438.52	3/4	4,111.71	3/4	3,782.33	3/4	3,452.02	3/4	3,121.72	3/4	2,791.41	3/4	2,461.10	3/4	2,130.75	3/4	1,800.22	3/4	1,469.69
8	4,432.15	8	4,104.86	8	3,775.45	8	3,445.14	8	3,114.83	8	2,784.53	8	2,454.22	8	2,123.86	8	1,793.33	8	1,462.80
1/4	4,425.77	1/4	4,098.01	1/4	3,768.57	1/4	3,438.26	1/4	3,107.95	1/4	2,777.65	1/4	2,447.34	1/4	2,116.97	1/4	1,786.45	1/4	1,455.92
1/2	4,418.97	1/2	4,091.16	1/2	3,761.69	1/2	3,431.38	1/2	3,101.07	1/2	2,770.76	1/2	2,440.46	1/2	2,110.09	1/2	1,779.56	1/2	1,449.03
3/4	4,412.17	3/4	4,084.31	3/4	3,754.80	3/4	3,424.50	3/4	3,094.19	3/4	2,763.88	3/4	2,433.58	3/4	2,103.20	3/4	1,772.67	3/4	1,442.15
9	4,405.37	9	4,077.46	9	3,747.92	9	3,417.62	9	3,087.31	9	2,757.00	9	2,426.69	9	2,096.32	9	1,765.79	9	1,435.26
1/4	4,398.57	1/4	4,070.61	1/4	3,741.04	1/4	3,410.73	1/4	3,080.43	1/4	2,750.12	1/4	2,419.81	1/4	2,089.43	1/4	1,758.90	1/4	1,428.37
1/2	4,391.78	1/2	4,063.76	1/2	3,734.16	1/2	3,403.85	1/2	3,073.55	1/2	2,743.24	1/2	2,412.93	1/2	2,082.54	1/2	1,752.02	1/2	1,421.49
3/4	4,384.98	3/4	4,056.92	3/4	3,727.28	3/4	3,396.97	3/4	3,066.66	3/4	2,736.36	3/4	2,406.05	3/4	2,075.66	3/4	1,745.13	3/4	1,414.60
10	4,378.19	10	4,050.07	10	3,720.40	10	3,390.09	10	3,059.78	10	2,729.48	10	2,399.17	10	2,068.77	10	1,738.24	10	1,407.72
1/4	4,371.39	1/4	4,043.22	1/4	3,713.52	1/4	3,383.21	1/4	3,052.90	1/4	2,722.59	1/4	2,392.29	1/4	2,061.89	1/4	1,731.36	1/4	1,400.83
1/2	4,364.59	1/2	4,036.37	1/2	3,706.63	1/2	3,376.33	1/2	3,046.02	1/2	2,715.71	1/2	2,385.41	1/2	2,055.00	1/2	1,724.47	1/2	1,393.95
3/4	4,357.80	3/4	4,029.52	3/4	3,699.75	3/4	3,369.45	3/4	3,039.14	3/4	2,708.83	3/4	2,378.52	3/4	2,048.11	3/4	1,717.59	3/4	1,387.07
11	4,351.00	11	4,022.67	11	3,692.87	11	3,362.56	11	3,032.26	11	2,701.95	11	2,371.64	11	2,041.23	11	1,710.70	11	1,380.20
1/4	4,344.20	1/4	4,015.82	1/4	3,685.99	1/4	3,355.68	1/4	3,025.38	1/4	2,695.07	1/4	2,364.76	1/4	2,034.34	1/4	1,703.81	1/4	1,373.32
1/2	4,337.41	1/2	4,008.97	1/2	3,679.11	1/2	3,348.80	1/2	3,018.49	1/2	2,688.19	1/2	2,357.88	1/2	2,027.46	1/2	1,696.93	1/2	1,366.47
3/4	4,330.61	3/4	4,002.12	3/4	3,672.23	3/4	3,341.92	3/4	3,011.61	3/4	2,681.31	3/4	2,351.00	3/4	2,020.57	3/4	1,690.04	3/4	1,359.61

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "EMS 3052"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 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	1,352.76	0	1,023.36	0	698.28	0	390.37	0	109.53	0		0		0		0		0	
1/4	1,345.91	1/4	1,016.53	1/4	691.62	1/4	384.21	1/4	103.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,339.06	1/2	1,009.71	1/2	685.00	1/2	378.19	1/2	98.38	1/2		1/2		1/2		1/2		1/2	
3/4	1,332.21	3/4	1,002.89	3/4	678.38	3/4	372.16	3/4	92.82	3/4		3/4		3/4		3/4		3/4	
1	1,325.35	1	996.06	1	671.76	1	366.14	1	87.26	1		1		1		1		1	
1/4	1,318.50	1/4	989.24	1/4	665.14	1/4	360.12	1/4	81.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,311.65	1/2	982.42	1/2	658.56	1/2	354.14	1/2	76.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,304.80	3/4	975.60	3/4	651.98	3/4	348.15	3/4	70.96	3/4		3/4		3/4		3/4		3/4	
2	1,297.94	2	968.78	2	645.40	2	342.17	2	65.59	2		2		2		2		2	
1/4	1,291.09	1/4	961.96	1/4	638.82	1/4	336.18	1/4	60.21	1/4		1/4		1/4		1/4		1/4	
1/2	1,284.24	1/2	955.13	1/2	632.28	1/2	330.24	1/2	55.60	1/2		1/2		1/2		1/2		1/2	
3/4	1,277.39	3/4	948.31	3/4	625.75	3/4	324.30	3/4	50.98	3/4		3/4		3/4		3/4		3/4	
3	1,270.54	3	941.49	3	619.21	3	318.36	3	46.36	3		3		3		3		3	
1/4	1,263.68	1/4	934.67	1/4	612.67	1/4	312.42	1/4	41.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,256.83	1/2	927.85	1/2	606.16	1/2	306.52	1/2	38.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,249.98	3/4	921.03	3/4	599.66	3/4	300.62	3/4	34.88	3/4		3/4		3/4		3/4		3/4	
4	1,243.13	4	914.21	4	593.15	4	294.72	4	31.44	4		4		4		4		4	
1/4	1,236.28	1/4	907.39	1/4	586.64	1/4	288.82	1/4	28.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,229.41	1/2	900.56	1/2	580.18	1/2	282.96	1/2	25.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,222.55	3/4	893.74	3/4	573.71	3/4	277.10	3/4	22.82	3/4		3/4		3/4		3/4		3/4	
5	1,215.69	5	886.92	5	567.25	5	271.24	5		5		5		5		5		5	
1/4	1,208.83	1/4	880.10	1/4	560.79	1/4	265.38	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,201.95	1/2	873.29	1/2	554.36	1/2	259.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,195.06	3/4	866.47	3/4	547.93	3/4	253.72	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,188.18	6	859.66	6	541.51	6	247.89	6		6		6		6		6		6	
1/4	1,181.29	1/4	852.84	1/4	535.08	1/4	242.07	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,174.40	1/2	846.06	1/2	528.69	1/2	236.28	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,167.52	3/4	839.27	3/4	522.30	3/4	230.50	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,160.63	7	832.48	7	515.91	7	224.71	7		7		7		7		7		7	
1/4	1,153.75	1/4	825.70	1/4	509.52	1/4	218.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,146.86	1/2	818.95	1/2	503.16	1/2	213.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,139.97	3/4	812.20	3/4	496.81	3/4	207.36	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,133.09	8	805.45	8	490.46	8	201.59	8		8		8		8		8		8	
1/4	1,126.20	1/4	798.70	1/4	484.11	1/4	195.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,119.32	1/2	791.98	1/2	477.80	1/2	189.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,112.43	3/4	785.27	3/4	471.49	3/4	184.12	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,105.54	9	778.55	9	465.19	9	178.27	9		9		9		9		9		9	
1/4	1,098.66	1/4	771.83	1/4	458.88	1/4	172.43	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,091.78	1/2	765.13	1/2	452.61	1/2	166.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,084.91	3/4	758.44	3/4	446.34	3/4	160.82	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,078.04	10	751.74	10	440.07	10	155.02	10		10		10		10		10		10	
1/4	1,071.16	1/4	745.04	1/4	433.80	1/4	149.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,064.33	1/2	738.35	1/2	427.56	1/2	143.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,057.50	3/4	731.65	3/4	421.32	3/4	137.76	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,050.66	11	724.96	11	415.09	11	132.03	11		11		11		11		11		11	
1/4	1,043.83	1/4	718.26	1/4	408.85	1/4	126.30	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,037.00	1/2	711.60	1/2	402.69	1/2	120.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,030.18	3/4	704.94	3/4	396.53	3/4	115.12	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "EMS 3052"

# 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	4,320.51	0	3,991.74	0	3,661.62	0	3,331.14	0	3,000.65	0	2,670.17	0	2,339.68	0	2,009.07	0	1,678.37
1/4	1/4	1/4	4,313.69	1/4	3,984.89	1/4	3,654.74	1/4	3,324.25	1/4	2,993.77	1/4	2,663.28	1/4	2,332.80	1/4	2,002.18	1/4	1,671.48
1/2	1/2	1/2	4,306.88	1/2	3,978.04	1/2	3,647.85	1/2	3,317.37	1/2	2,986.88	1/2	2,656.40	1/2	2,325.91	1/2	1,995.29	1/2	1,664.59
3/4	3/4	3/4	4,300.07	3/4	3,971.19	3/4	3,640.97	3/4	3,310.48	3/4	2,980.00	3/4	2,649.51	3/4	2,319.03	3/4	1,988.40	3/4	1,657.70
1	1	1	4,293.25	1	3,964.33	1	3,634.08	1	3,303.60	1	2,973.11	1	2,642.63	1	2,312.14	1	1,981.51	1	1,650.81
1/4	1/4	1/4	4,286.40	1/4	3,957.48	1/4	3,627.20	1/4	3,296.71	1/4	2,966.23	1/4	2,635.74	1/4	2,305.26	1/4	1,974.62	1/4	1,643.92
1/2	1/2	1/2	4,279.55	1/2	3,950.63	1/2	3,620.31	1/2	3,289.83	1/2	2,959.34	1/2	2,628.86	1/2	2,298.37	1/2	1,967.73	1/2	1,637.03
3/4	3/4	3/4	4,272.70	3/4	3,943.78	3/4	3,613.43	3/4	3,282.94	3/4	2,952.46	3/4	2,621.97	3/4	2,291.49	3/4	1,960.84	3/4	1,630.14
2	2	2	4,265.84	2	3,936.92	2	3,606.54	2	3,276.06	2	2,945.57	2	2,615.09	2	2,284.60	2	1,953.95	2	1,623.25
1/4	1/4	1/4	4,258.99	1/4	3,930.06	1/4	3,599.66	1/4	3,269.17	1/4	2,938.69	1/4	2,608.20	1/4	2,277.72	1/4	1,947.06	1/4	1,616.36
1/2	1/2	1/2	4,252.14	1/2	3,923.21	1/2	3,592.77	1/2	3,262.29	1/2	2,931.80	1/2	2,601.32	1/2	2,270.83	1/2	1,940.17	1/2	1,609.47
3/4	3/4	3/4	4,245.29	3/4	3,916.35	3/4	3,585.89	3/4	3,255.40	3/4	2,924.92	3/4	2,594.43	3/4	2,263.95	3/4	1,933.28	3/4	1,602.58
3	3	3	4,238.43	3	3,909.49	3	3,579.00	3	3,248.52	3	2,918.03	3	2,587.55	3	2,257.06	3	1,926.39	3	1,595.69
1/4	1/4	1/4	4,231.58	1/4	3,902.60	1/4	3,572.12	1/4	3,241.63	1/4	2,911.15	1/4	2,580.66	1/4	2,250.18	1/4	1,919.50	1/4	1,588.80
1/2	1/2	1/2	4,224.73	1/2	3,895.72	1/2	3,565.23	1/2	3,234.75	1/2	2,904.26	1/2	2,573.78	1/2	2,243.29	1/2	1,912.61	1/2	1,581.91
3/4	3/4	3/4	4,217.88	3/4	3,888.83	3/4	3,558.35	3/4	3,227.86	3/4	2,897.38	3/4	2,566.89	3/4	2,236.41	3/4	1,905.72	3/4	1,575.02
4	4	4	4,211.02	4	3,881.95	4	3,551.46	4	3,220.98	4	2,890.49	4	2,560.01	4	2,229.52	4	1,898.83	4	1,568.13
1/4	1/4	1/4	4,204.17	1/4	3,875.06	1/4	3,544.58	1/4	3,214.09	1/4	2,883.61	1/4	2,553.12	1/4	2,222.64	1/4	1,891.95	1/4	1,561.24
1/2	1/2	1/2	4,197.32	1/2	3,868.18	1/2	3,537.69	1/2	3,207.21	1/2	2,876.72	1/2	2,546.24	1/2	2,215.75	1/2	1,885.06	1/2	1,554.35
3/4	3/4	3/4	4,190.47	3/4	3,861.29	3/4	3,530.81	3/4	3,200.32	3/4	2,869.84	3/4	2,539.35	3/4	2,208.86	3/4	1,878.17	3/4	1,547.47
5	4,493.18	5	4,183.61	5	3,854.41	5	3,523.92	5	3,193.44	5	2,862.95	5	2,532.47	5	2,201.98	5	1,871.28	5	1,540.58
1/4	4,488.96	1/4	4,176.76	1/4	3,847.52	1/4	3,517.04	1/4	3,186.55	1/4	2,856.07	1/4	2,525.58	1/4	2,195.09	1/4	1,864.39	1/4	1,533.69
1/2	4,484.74	1/2	4,169.91	1/2	3,840.64	1/2	3,510.15	1/2	3,179.67	1/2	2,849.18	1/2	2,518.70	1/2	2,188.20	1/2	1,857.50	1/2	1,526.80
3/4	4,480.52	3/4	4,163.06	3/4	3,833.75	3/4	3,503.27	3/4	3,172.78	3/4	2,842.30	3/4	2,511.81	3/4	2,181.31	3/4	1,850.61	3/4	1,519.91
6	4,476.30	6	4,156.20	6	3,826.87	6	3,496.38	6	3,165.90	6	2,835.41	6	2,504.93	6	2,174.42	6	1,843.72	6	1,513.02
1/4	4,470.93	1/4	4,149.35	1/4	3,819.98	1/4	3,489.50	1/4	3,159.01	1/4	2,828.53	1/4	2,498.04	1/4	2,167.53	1/4	1,836.83	1/4	1,506.13
1/2	4,465.56	1/2	4,142.50	1/2	3,813.10	1/2	3,482.61	1/2	3,152.13	1/2	2,821.64	1/2	2,491.16	1/2	2,160.64	1/2	1,829.94	1/2	1,499.24
3/4	4,460.19	3/4	4,135.65	3/4	3,806.21	3/4	3,475.73	3/4	3,145.24	3/4	2,814.76	3/4	2,484.27	3/4	2,153.75	3/4	1,823.05	3/4	1,492.35
7	4,454.82	7	4,128.79	7	3,799.33	7	3,468.84	7	3,138.36	7	2,807.87	7	2,477.39	7	2,146.86	7	1,816.16	7	1,485.46
1/4	4,448.44	1/4	4,121.94	1/4	3,792.44	1/4	3,461.96	1/4	3,131.47	1/4	2,800.99	1/4	2,470.50	1/4	2,139.97	1/4	1,809.27	1/4	1,478.57
1/2	4,442.07	1/2	4,115.09	1/2	3,785.56	1/2	3,455.07	1/2	3,124.59	1/2	2,794.10	1/2	2,463.62	1/2	2,133.08	1/2	1,802.38	1/2	1,471.68
3/4	4,435.70	3/4	4,108.24	3/4	3,778.67	3/4	3,448.19	3/4	3,117.70	3/4	2,787.22	3/4	2,456.73	3/4	2,126.19	3/4	1,795.49	3/4	1,464.79
8	4,429.32	8	4,101.38	8	3,771.78	8	3,441.30	8	3,110.82	8	2,780.33	8	2,449.85	8	2,119.30	8	1,788.60	8	1,457.90
1/4	4,422.52	1/4	4,094.53	1/4	3,764.90	1/4	3,434.41	1/4	3,103.93	1/4	2,773.45	1/4	2,442.96	1/4	2,112.41	1/4	1,781.71	1/4	1,451.01
1/2	4,415.72	1/2	4,087.68	1/2	3,758.01	1/2	3,427.53	1/2	3,097.05	1/2	2,766.56	1/2	2,436.08	1/2	2,105.52	1/2	1,774.82	1/2	1,444.12
3/4	4,408.91	3/4	4,080.83	3/4	3,751.13	3/4	3,420.64	3/4	3,090.16	3/4	2,759.68	3/4	2,429.19	3/4	2,098.63	3/4	1,767.93	3/4	1,437.23
9	4,402.11	9	4,073.97	9	3,744.24	9	3,413.76	9	3,083.27	9	2,752.79	9	2,422.31	9	2,091.74	9	1,761.04	9	1,430.34
1/4	4,395.31	1/4	4,067.12	1/4	3,737.36	1/4	3,406.87	1/4	3,076.39	1/4	2,745.90	1/4	2,415.42	1/4	2,084.85	1/4	1,754.15	1/4	1,423.45
1/2	4,388.51	1/2	4,060.27	1/2	3,730.47	1/2	3,399.99	1/2	3,069.50	1/2	2,739.02	1/2	2,408.54	1/2	2,077.96	1/2	1,747.26	1/2	1,416.56
3/4	4,381.71	3/4	4,053.42	3/4	3,723.59	3/4	3,393.10	3/4	3,062.62	3/4	2,732.13	3/4	2,401.65	3/4	2,071.07	3/4	1,740.37	3/4	1,409.67
10	4,374.91	10	4,046.56	10	3,716.70	10	3,386.22	10	3,055.73	10	2,725.25	10	2,394.76	10	2,064.19	10	1,733.48	10	1,402.78
1/4	4,368.11	1/4	4,039.71	1/4	3,709.82	1/4	3,379.33	1/4	3,048.85	1/4	2,718.36	1/4	2,387.88	1/4	2,057.30	1/4	1,726.59	1/4	1,395.90
1/2	4,361.31	1/2	4,032.86	1/2	3,702.93	1/2	3,372.45	1/2	3,041.96	1/2	2,711.48	1/2	2,380.99	1/2	2,050.41	1/2	1,719.71	1/2	1,389.02
3/4	4,354.51	3/4	4,026.01	3/4	3,696.05	3/4	3,365.56	3/4	3,035.08	3/4	2,704.59	3/4	2,374.11	3/4	2,043.52	3/4	1,712.82	3/4	1,382.14
11	4,347.71	11	4,019.15	11	3,689.16	11	3,358.68	11	3,028.19	11	2,697.71	11	2,367.22	11	2,036.63	11	1,705.93	11	1,375.26
1/4	4,340.91	1/4	4,012.30	1/4	3,682.28	1/4	3,351.79	1/4	3,021.31	1/4	2,690.82	1/4	2,360.34	1/4	2,029.74	1/4	1,699.04	1/4	1,368.40
1/2	4,334.11	1/2	4,005.45	1/2	3,675.39	1/2	3,344.91	1/2	3,014.42	1/2	2,683.94	1/2	2,353.45	1/2	2,022.85	1/2	1,692.15	1/2	1,361.55
3/4	4,327.31	3/4	3,998.60	3/4	3,668.51	3/4	3,338.02	3/4	3,007.54	3/4	2,677.05	3/4	2,346.57	3/4	2,015.96	3/4	1,685.26	3/4	1,354.69

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 3052"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 1/2"

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	1,347.84	0	1,018.07	0	692.04	0	384.45	0	104.01	0		0		0		0		0	
1/4	1,340.98	1/4	1,011.22	1/4	685.41	1/4	378.43	1/4	98.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,334.12	1/2	1,004.36	1/2	678.79	1/2	372.40	1/2	92.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,327.27	3/4	997.51	3/4	672.17	3/4	366.38	3/4	87.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,320.41	1	990.66	1	665.54	1	360.35	1	81.76	1		1	1	1	1	1	1	1	1
1/4	1,313.56	1/4	983.81	1/4	658.96	1/4	354.36	1/4	76.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,306.70	1/2	976.96	1/2	652.38	1/2	348.38	1/2	71.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,299.85	3/4	970.12	3/4	645.80	3/4	342.39	3/4	65.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,292.99	2	963.27	2	639.21	2	336.40	2	60.26	2		2	2	2	2	2	2	2	2
1/4	1,286.13	1/4	956.42	1/4	632.67	1/4	330.45	1/4	55.64	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,279.28	1/2	949.57	1/2	626.13	1/2	324.51	1/2	51.02	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,272.42	3/4	942.72	3/4	619.58	3/4	318.56	3/4	46.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,265.57	3	935.87	3	613.04	3	312.62	3	41.78	3		3	3	3	3	3	3	3	3
1/4	1,258.71	1/4	929.02	1/4	606.53	1/4	306.71	1/4	38.34	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,251.85	1/2	922.17	1/2	600.02	1/2	300.81	1/2	34.90	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,245.00	3/4	915.32	3/4	593.51	3/4	294.91	3/4	31.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,238.14	4	908.48	4	587.00	4	289.00	4	28.02	4		4	4	4	4	4	4	4	4
1/4	1,231.28	1/4	901.63	1/4	580.54	1/4	283.14	1/4	25.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,224.41	1/2	894.78	1/2	574.07	1/2	277.28	1/2	22.84	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,217.55	3/4	887.93	3/4	567.60	3/4	271.41	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,210.68	5	881.08	5	561.13	5	265.55	5		5		5	5	5	5	5	5	5	5
1/4	1,203.80	1/4	874.24	1/4	554.70	1/4	259.72	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,196.91	1/2	867.39	1/2	548.27	1/2	253.89	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,190.02	3/4	860.55	3/4	541.84	3/4	248.06	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,183.13	6	853.71	6	535.41	6	242.23	6		6		6	6	6	6	6	6	6	6
1/4	1,176.24	1/4	846.90	1/4	529.02	1/4	236.44	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,169.35	1/2	840.08	1/2	522.62	1/2	230.65	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,162.46	3/4	833.27	3/4	516.23	3/4	224.86	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,155.57	7	826.45	7	509.83	7	219.07	7		7		7	7	7	7	7	7	7	7
1/4	1,148.68	1/4	819.68	1/4	503.48	1/4	213.28	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,141.79	1/2	812.90	1/2	497.12	1/2	207.50	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,134.90	3/4	806.12	3/4	490.77	3/4	201.72	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,128.01	8	799.35	8	484.42	8	195.93	8		8		8	8	8	8	8	8	8	8
1/4	1,121.12	1/4	792.60	1/4	478.10	1/4	190.09	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,114.23	1/2	785.86	1/2	471.79	1/2	184.24	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,107.34	3/4	779.11	3/4	465.48	3/4	178.39	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,100.45	9	772.36	9	459.16	9	172.54	9		9		9	9	9	9	9	9	9	9
1/4	1,093.57	1/4	765.65	1/4	452.89	1/4	166.74	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,086.68	1/2	758.93	1/2	446.62	1/2	160.93	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,079.80	3/4	752.21	3/4	440.34	3/4	155.12	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,072.92	10	745.49	10	434.07	10	149.32	10		10		10	10	10	10	10	10	10	10
1/4	1,066.06	1/4	738.79	1/4	427.83	1/4	143.58	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,059.20	1/2	732.09	1/2	421.59	1/2	137.85	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,052.33	3/4	725.39	3/4	415.35	3/4	132.12	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,045.47	11	718.69	11	409.11	11	126.39	11		11		11	11	11	11	11	11	11	11
1/4	1,038.62	1/4	712.03	1/4	402.95	1/4	120.79	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,031.77	1/2	705.37	1/2	396.78	1/2	115.20	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,024.92	3/4	698.70	3/4	390.62	3/4	109.60	3/4		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.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 3052"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 3/4"

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	5,179.90	0	4,793.90	0	4,406.26	0	4,018.17	0	3,630.08	0	3,241.98	0	2,853.89	0	2,465.64	0	2,077.29
1/4		1/4	5,171.91	1/4	4,785.85	1/4	4,398.18	1/4	4,010.09	1/4	3,621.99	1/4	3,233.90	1/4	2,845.80	1/4	2,457.55	1/4	2,069.20
1/2		1/2	5,163.91	1/2	4,777.80	1/2	4,390.09	1/2	4,002.00	1/2	3,613.91	1/2	3,225.81	1/2	2,837.72	1/2	2,449.46	1/2	2,061.11
3/4		3/4	5,155.91	3/4	4,769.76	3/4	4,382.01	3/4	3,993.91	3/4	3,605.82	3/4	3,217.73	3/4	2,829.63	3/4	2,441.37	3/4	2,053.02
1		1	5,147.91	1	4,761.71	1	4,373.92	1	3,985.83	1	3,597.73	1	3,209.64	1	2,821.55	1	2,433.28	1	2,044.93
1/4		1/4	5,139.91	1/4	4,753.66	1/4	4,365.84	1/4	3,977.74	1/4	3,589.65	1/4	3,201.56	1/4	2,813.46	1/4	2,425.19	1/4	2,036.84
1/2		1/2	5,131.86	1/2	4,745.62	1/2	4,357.75	1/2	3,969.66	1/2	3,581.56	1/2	3,193.47	1/2	2,805.38	1/2	2,417.10	1/2	2,028.75
3/4		3/4	5,123.82	3/4	4,737.57	3/4	4,349.67	3/4	3,961.57	3/4	3,573.48	3/4	3,185.38	3/4	2,797.29	3/4	2,409.00	3/4	2,020.66
2		2	5,115.77	2	4,729.52	2	4,341.58	2	3,953.49	2	3,565.39	2	3,177.30	2	2,789.20	2	2,400.91	2	2,012.57
1/4		1/4	5,107.72	1/4	4,721.48	1/4	4,333.50	1/4	3,945.40	1/4	3,557.31	1/4	3,169.21	1/4	2,781.12	1/4	2,392.82	1/4	2,004.47
1/2		1/2	5,099.68	1/2	4,713.42	1/2	4,325.41	1/2	3,937.32	1/2	3,549.22	1/2	3,161.13	1/2	2,773.03	1/2	2,384.73	1/2	1,996.38
3/4		3/4	5,091.63	3/4	4,705.36	3/4	4,317.33	3/4	3,929.23	3/4	3,541.14	3/4	3,153.04	3/4	2,764.95	3/4	2,376.64	3/4	1,988.29
3		3	5,083.58	3	4,697.31	3	4,309.24	3	3,921.15	3	3,533.05	3	3,144.96	3	2,756.86	3	2,368.55	3	1,980.20
1/4		1/4	5,075.54	1/4	4,689.25	1/4	4,301.16	1/4	3,913.06	1/4	3,524.97	1/4	3,136.87	1/4	2,748.78	1/4	2,360.46	1/4	1,972.11
1/2		1/2	5,067.49	1/2	4,681.17	1/2	4,293.07	1/2	3,904.98	1/2	3,516.88	1/2	3,128.79	1/2	2,740.69	1/2	2,352.37	1/2	1,964.02
3/4		3/4	5,059.44	3/4	4,673.08	3/4	4,284.99	3/4	3,896.89	3/4	3,508.80	3/4	3,120.70	3/4	2,732.61	3/4	2,344.28	3/4	1,955.93
4		4	5,051.40	4	4,664.99	4	4,276.90	4	3,888.81	4	3,500.71	4	3,112.62	4	2,724.52	4	2,336.19	4	1,947.84
1/4		1/4	5,043.35	1/4	4,656.91	1/4	4,268.81	1/4	3,880.72	1/4	3,492.63	1/4	3,104.53	1/4	2,716.44	1/4	2,328.10	1/4	1,939.75
1/2		1/2	5,035.30	1/2	4,648.82	1/2	4,260.73	1/2	3,872.64	1/2	3,484.54	1/2	3,096.45	1/2	2,708.35	1/2	2,320.01	1/2	1,931.66
3/4		3/4	5,027.25	3/4	4,640.74	3/4	4,252.64	3/4	3,864.55	3/4	3,476.46	3/4	3,088.36	3/4	2,700.26	3/4	2,311.92	3/4	1,923.57
5		5	5,019.21	5	4,632.65	5	4,244.56	5	3,856.46	5	3,468.37	5	3,080.28	5	2,692.17	5	2,303.83	5	1,915.48
1/4	5,374.69	1/4	5,011.16	1/4	4,624.57	1/4	4,236.47	1/4	3,848.38	1/4	3,460.28	1/4	3,072.19	1/4	2,684.09	1/4	2,295.74	1/4	1,907.39
1/2	5,369.73	1/2	5,003.11	1/2	4,616.48	1/2	4,228.39	1/2	3,840.29	1/2	3,452.20	1/2	3,064.11	1/2	2,675.99	1/2	2,287.65	1/2	1,899.30
3/4	5,364.78	3/4	4,995.07	3/4	4,608.40	3/4	4,220.30	3/4	3,832.21	3/4	3,444.11	3/4	3,056.02	3/4	2,667.90	3/4	2,279.56	3/4	1,891.21
6	5,359.82	6	4,987.02	6	4,600.31	6	4,212.22	6	3,824.12	6	3,436.03	6	3,047.93	6	2,659.81	6	2,271.46	6	1,883.12
1/4	5,354.86	1/4	4,978.97	1/4	4,592.23	1/4	4,204.13	1/4	3,816.04	1/4	3,427.94	1/4	3,039.85	1/4	2,651.72	1/4	2,263.37	1/4	1,875.03
1/2	5,348.56	1/2	4,970.93	1/2	4,584.14	1/2	4,196.05	1/2	3,807.95	1/2	3,419.86	1/2	3,031.76	1/2	2,643.63	1/2	2,255.28	1/2	1,866.93
3/4	5,342.25	3/4	4,962.88	3/4	4,576.06	3/4	4,187.96	3/4	3,799.87	3/4	3,411.77	3/4	3,023.68	3/4	2,635.54	3/4	2,247.19	3/4	1,858.84
7	5,335.95	7	4,954.83	7	4,567.97	7	4,179.88	7	3,791.78	7	3,403.69	7	3,015.59	7	2,627.45	7	2,239.10	7	1,850.75
1/4	5,329.64	1/4	4,946.79	1/4	4,559.89	1/4	4,171.79	1/4	3,783.70	1/4	3,395.60	1/4	3,007.51	1/4	2,619.36	1/4	2,231.01	1/4	1,842.66
1/2	5,322.15	1/2	4,938.74	1/2	4,551.80	1/2	4,163.71	1/2	3,775.61	1/2	3,387.52	1/2	2,999.42	1/2	2,611.27	1/2	2,222.92	1/2	1,834.57
3/4	5,314.67	3/4	4,930.69	3/4	4,543.72	3/4	4,155.62	3/4	3,767.53	3/4	3,379.43	3/4	2,991.34	3/4	2,603.18	3/4	2,214.83	3/4	1,826.48
8	5,307.18	8	4,922.65	8	4,535.63	8	4,147.54	8	3,759.44	8	3,371.35	8	2,983.25	8	2,595.09	8	2,206.74	8	1,818.39
1/4	5,299.69	1/4	4,914.60	1/4	4,527.54	1/4	4,139.45	1/4	3,751.36	1/4	3,363.26	1/4	2,975.17	1/4	2,587.00	1/4	2,198.65	1/4	1,810.30
1/2	5,291.71	1/2	4,906.55	1/2	4,519.46	1/2	4,131.36	1/2	3,743.27	1/2	3,355.18	1/2	2,967.08	1/2	2,578.91	1/2	2,190.56	1/2	1,802.21
3/4	5,283.72	3/4	4,898.51	3/4	4,511.37	3/4	4,123.28	3/4	3,735.19	3/4	3,347.09	3/4	2,959.00	3/4	2,570.82	3/4	2,182.47	3/4	1,794.12
9	5,275.73	9	4,890.46	9	4,503.29	9	4,115.19	9	3,727.10	9	3,339.01	9	2,950.91	9	2,562.73	9	2,174.38	9	1,786.03
1/4	5,267.74	1/4	4,882.41	1/4	4,495.20	1/4	4,107.11	1/4	3,719.01	1/4	3,330.92	1/4	2,942.83	1/4	2,554.64	1/4	2,166.29	1/4	1,777.94
1/2	5,259.75	1/2	4,874.37	1/2	4,487.12	1/2	4,099.02	1/2	3,710.93	1/2	3,322.83	1/2	2,934.74	1/2	2,546.54	1/2	2,158.20	1/2	1,769.85
3/4	5,251.77	3/4	4,866.32	3/4	4,479.03	3/4	4,090.94	3/4	3,702.84	3/4	3,314.75	3/4	2,926.66	3/4	2,538.45	3/4	2,150.11	3/4	1,761.76
10	5,243.78	10	4,858.27	10	4,470.95	10	4,082.85	10	3,694.76	10	3,306.66	10	2,918.57	10	2,530.36	10	2,142.01	10	1,753.67
1/4	5,235.80	1/4	4,850.23	1/4	4,462.86	1/4	4,074.77	1/4	3,686.67	1/4	3,298.58	1/4	2,910.48	1/4	2,522.27	1/4	2,133.92	1/4	1,745.58
1/2	5,227.81	1/2	4,842.18	1/2	4,454.78	1/2	4,066.68	1/2	3,678.59	1/2	3,290.49	1/2	2,902.40	1/2	2,514.18	1/2	2,125.83	1/2	1,737.53
3/4	5,219.83	3/4	4,834.13	3/4	4,446.69	3/4	4,058.60	3/4	3,670.50	3/4	3,282.41	3/4	2,894.31	3/4	2,506.09	3/4	2,117.74	3/4	1,729.49
11	5,211.84	11	4,826.08	11	4,438.61	11	4,050.51	11	3,662.42	11	3,274.32	11	2,886.23	11	2,498.00	11	2,109.65	11	1,721.44
1/4	5,203.85	1/4	4,818.04	1/4	4,430.52	1/4	4,042.43	1/4	3,654.33	1/4	3,266.24	1/4	2,878.14	1/4	2,489.91	1/4	2,101.56	1/4	1,713.40
1/2	5,195.87	1/2	4,809.99	1/2	4,422.44	1/2	4,034.34	1/2	3,646.25	1/2	3,258.15	1/2	2,870.06	1/2	2,481.82	1/2	2,093.47	1/2	1,705.50
3/4	5,187.88	3/4	4,801.94	3/4	4,414.35	3/4	4,026.26	3/4	3,638.16	3/4	3,250.07	3/4	2,861.97	3/4	2,473.73	3/4	2,085.38	3/4	1,697.59

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 3052"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 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	1,689.69	0	1,306.97	0	928.40	0	540.28	0	157.98	0		0		0		0		0	
1/4	1,681.78	1/4	1,299.12	1/4	920.31	1/4	532.23	1/4	150.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,673.88	1/2	1,291.27	1/2	912.22	1/2	524.31	1/2	142.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,665.98	3/4	1,283.43	3/4	904.14	3/4	516.38	3/4	134.21	3/4		3/4		3/4		3/4		3/4	
1	1,658.07	1	1,275.58	1	896.05	1	508.45	1	126.29	1		1		1		1		1	
1/4	1,650.17	1/4	1,267.73	1/4	887.96	1/4	500.52	1/4	118.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,642.26	1/2	1,259.89	1/2	879.87	1/2	492.59	1/2	110.61	1/2		1/2		1/2		1/2		1/2	
3/4	1,634.36	3/4	1,252.05	3/4	871.78	3/4	484.66	3/4	102.86	3/4		3/4		3/4		3/4		3/4	
2	1,626.46	2	1,244.20	2	863.70	2	476.74	2	95.11	2		2		2		2		2	
1/4	1,618.55	1/4	1,236.36	1/4	855.61	1/4	468.81	1/4	87.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,610.65	1/2	1,228.51	1/2	847.52	1/2	460.89	1/2	80.44	1/2		1/2		1/2		1/2		1/2	
3/4	1,602.74	3/4	1,220.67	3/4	839.43	3/4	452.96	3/4	73.53	3/4		3/4		3/4		3/4		3/4	
3	1,594.84	3	1,212.82	3	831.34	3	445.04	3	66.62	3		3		3		3		3	
1/4	1,586.94	1/4	1,204.98	1/4	823.25	1/4	437.12	1/4	59.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,579.03	1/2	1,197.14	1/2	815.17	1/2	429.20	1/2	54.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,571.13	3/4	1,189.29	3/4	807.08	3/4	421.27	3/4	48.58	3/4		3/4		3/4		3/4		3/4	
4	1,563.22	4	1,181.45	4	798.99	4	413.35	4	43.02	4		4		4		4		4	
1/4	1,555.32	1/4	1,173.60	1/4	790.90	1/4	405.43	1/4	37.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,547.37	1/2	1,165.76	1/2	782.81	1/2	397.50	1/2	33.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,539.42	3/4	1,157.91	3/4	774.72	3/4	389.58	3/4	29.02	3/4		3/4		3/4		3/4		3/4	
5	1,531.47	5	1,150.07	5	766.64	5	381.66	5		5		5		5		5		5	
1/4	1,523.52	1/4	1,142.23	1/4	758.55	1/4	373.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,515.43	1/2	1,134.38	1/2	750.46	1/2	365.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,507.34	3/4	1,126.54	3/4	742.37	3/4	357.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,499.24	6	1,118.69	6	734.28	6	349.97	6		6		6		6		6		6	
1/4	1,491.15	1/4	1,110.85	1/4	726.19	1/4	342.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,483.06	1/2	1,103.00	1/2	718.11	1/2	334.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,474.97	3/4	1,095.16	3/4	710.02	3/4	326.20	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,466.88	7	1,087.31	7	701.93	7	318.28	7		7		7		7		7		7	
1/4	1,458.79	1/4	1,079.47	1/4	693.84	1/4	310.35	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,450.70	1/2	1,071.62	1/2	685.75	1/2	302.39	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,442.61	3/4	1,063.77	3/4	677.66	3/4	294.43	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,434.52	8	1,055.93	8	669.58	8	286.47	8		8		8		8		8		8	
1/4	1,426.43	1/4	1,048.08	1/4	661.49	1/4	278.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,418.34	1/2	1,040.23	1/2	653.40	1/2	270.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,410.25	3/4	1,032.38	3/4	645.31	3/4	262.36	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,402.16	9	1,024.53	9	637.22	9	254.28	9		9		9		9		9		9	
1/4	1,394.07	1/4	1,016.68	1/4	629.13	1/4	246.21	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,386.03	1/2	1,008.77	1/2	621.05	1/2	238.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,378.00	3/4	1,000.85	3/4	612.96	3/4	230.05	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,369.97	10	992.93	10	604.87	10	221.98	10		10		10		10		10		10	
1/4	1,361.94	1/4	985.02	1/4	596.78	1/4	213.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,354.08	1/2	976.93	1/2	588.69	1/2	205.86	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,346.22	3/4	968.84	3/4	580.60	3/4	197.83	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,338.37	11	960.75	11	572.52	11	189.79	11		11		11		11		11		11	
1/4	1,330.51	1/4	952.67	1/4	564.43	1/4	181.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,322.66	1/2	944.58	1/2	556.38	1/2	173.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,314.81	3/4	936.49	3/4	548.33	3/4	165.90	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "EMS 3052"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	5,175.25	0	4,789.33	0	4,401.79	0	4,013.78	0	3,625.77	0	3,237.76	0	2,849.76	0	2,461.59	0	2,073.33
1/4		1/4	5,167.27	1/4	4,781.29	1/4	4,393.70	1/4	4,005.70	1/4	3,617.69	1/4	3,229.68	1/4	2,841.67	1/4	2,453.50	1/4	2,065.24
1/2		1/2	5,159.27	1/2	4,773.24	1/2	4,385.62	1/2	3,997.61	1/2	3,609.61	1/2	3,221.60	1/2	2,833.59	1/2	2,445.41	1/2	2,057.15
3/4		3/4	5,151.27	3/4	4,765.20	3/4	4,377.54	3/4	3,989.53	3/4	3,601.52	3/4	3,213.51	3/4	2,825.51	3/4	2,437.33	3/4	2,049.06
1		1	5,143.27	1	4,757.15	1	4,369.45	1	3,981.45	1	3,593.44	1	3,205.43	1	2,817.42	1	2,429.24	1	2,040.97
1/4		1/4	5,135.27	1/4	4,749.11	1/4	4,361.37	1/4	3,973.36	1/4	3,585.35	1/4	3,197.35	1/4	2,809.34	1/4	2,421.15	1/4	2,032.89
1/2		1/2	5,127.22	1/2	4,741.06	1/2	4,353.29	1/2	3,965.28	1/2	3,577.27	1/2	3,189.26	1/2	2,801.26	1/2	2,413.06	1/2	2,024.80
3/4		3/4	5,119.18	3/4	4,733.02	3/4	4,345.20	3/4	3,957.20	3/4	3,569.19	3/4	3,181.18	3/4	2,793.17	3/4	2,404.97	3/4	2,016.71
2		2	5,111.13	2	4,724.97	2	4,337.12	2	3,949.11	2	3,561.10	2	3,173.10	2	2,785.09	2	2,396.88	2	2,008.62
1/4		1/4	5,103.09	1/4	4,716.93	1/4	4,329.04	1/4	3,941.03	1/4	3,553.02	1/4	3,165.01	1/4	2,777.00	1/4	2,388.79	1/4	2,000.53
1/2		1/2	5,095.04	1/2	4,708.87	1/2	4,320.95	1/2	3,932.95	1/2	3,544.94	1/2	3,156.93	1/2	2,768.92	1/2	2,380.70	1/2	1,992.44
3/4		3/4	5,087.00	3/4	4,700.82	3/4	4,312.87	3/4	3,924.86	3/4	3,536.85	3/4	3,148.85	3/4	2,760.84	3/4	2,372.62	3/4	1,984.35
3		3	5,078.95	3	4,692.77	3	4,304.79	3	3,916.78	3	3,528.77	3	3,140.76	3	2,752.75	3	2,364.53	3	1,976.26
1/4		1/4	5,070.91	1/4	4,684.71	1/4	4,296.70	1/4	3,908.69	1/4	3,520.69	1/4	3,132.68	1/4	2,744.67	1/4	2,356.44	1/4	1,968.18
1/2		1/2	5,062.86	1/2	4,676.63	1/2	4,288.62	1/2	3,900.61	1/2	3,512.60	1/2	3,124.60	1/2	2,736.59	1/2	2,348.35	1/2	1,960.09
3/4		3/4	5,054.82	3/4	4,668.54	3/4	4,280.54	3/4	3,892.53	3/4	3,504.52	3/4	3,116.51	3/4	2,728.50	3/4	2,340.26	3/4	1,952.00
4		4	5,046.77	4	4,660.46	4	4,272.45	4	3,884.44	4	3,496.44	4	3,108.43	4	2,720.42	4	2,332.17	4	1,943.91
1/4		1/4	5,038.73	1/4	4,652.38	1/4	4,264.37	1/4	3,876.36	1/4	3,488.35	1/4	3,100.34	1/4	2,712.34	1/4	2,324.08	1/4	1,935.82
1/2		1/2	5,030.68	1/2	4,644.29	1/2	4,256.29	1/2	3,868.28	1/2	3,480.27	1/2	3,092.26	1/2	2,704.25	1/2	2,315.99	1/2	1,927.73
3/4		3/4	5,022.64	3/4	4,636.21	3/4	4,248.20	3/4	3,860.19	3/4	3,472.19	3/4	3,084.18	3/4	2,696.16	3/4	2,307.90	3/4	1,919.64
5		5	5,014.59	5	4,628.13	5	4,240.12	5	3,852.11	5	3,464.10	5	3,076.09	5	2,688.08	5	2,299.82	5	1,911.55
1/4	5,369.99	1/4	5,006.55	1/4	4,620.04	1/4	4,232.03	1/4	3,844.03	1/4	3,456.02	1/4	3,068.01	1/4	2,679.99	1/4	2,291.73	1/4	1,903.46
1/2	5,365.03	1/2	4,998.50	1/2	4,611.96	1/2	4,223.95	1/2	3,835.94	1/2	3,447.94	1/2	3,059.93	1/2	2,671.90	1/2	2,283.64	1/2	1,895.38
3/4	5,360.08	3/4	4,990.46	3/4	4,603.88	3/4	4,215.87	3/4	3,827.86	3/4	3,439.85	3/4	3,051.84	3/4	2,663.81	3/4	2,275.55	3/4	1,887.29
6	5,355.12	6	4,982.41	6	4,595.79	6	4,207.78	6	3,819.78	6	3,431.77	6	3,043.76	6	2,655.72	6	2,267.46	6	1,879.20
1/4	5,350.17	1/4	4,974.37	1/4	4,587.71	1/4	4,199.70	1/4	3,811.69	1/4	3,423.68	1/4	3,035.68	1/4	2,647.63	1/4	2,259.37	1/4	1,871.11
1/2	5,343.86	1/2	4,966.32	1/2	4,579.63	1/2	4,191.62	1/2	3,803.61	1/2	3,415.60	1/2	3,027.59	1/2	2,639.55	1/2	2,251.28	1/2	1,863.02
3/4	5,337.56	3/4	4,958.28	3/4	4,571.54	3/4	4,183.53	3/4	3,795.53	3/4	3,407.52	3/4	3,019.51	3/4	2,631.46	3/4	2,243.19	3/4	1,854.93
7	5,331.26	7	4,950.23	7	4,563.46	7	4,175.45	7	3,787.44	7	3,399.43	7	3,011.43	7	2,623.37	7	2,235.11	7	1,846.84
1/4	5,324.95	1/4	4,942.19	1/4	4,555.37	1/4	4,167.37	1/4	3,779.36	1/4	3,391.35	1/4	3,003.34	1/4	2,615.28	1/4	2,227.02	1/4	1,838.75
1/2	5,317.47	1/2	4,934.14	1/2	4,547.29	1/2	4,159.28	1/2	3,771.28	1/2	3,383.27	1/2	2,995.26	1/2	2,607.19	1/2	2,218.93	1/2	1,830.67
3/4	5,309.99	3/4	4,926.10	3/4	4,539.21	3/4	4,151.20	3/4	3,763.19	3/4	3,375.18	3/4	2,987.18	3/4	2,599.10	3/4	2,210.84	3/4	1,822.58
8	5,302.50	8	4,918.05	8	4,531.12	8	4,143.12	8	3,755.11	8	3,367.10	8	2,979.09	8	2,591.01	8	2,202.75	8	1,814.49
1/4	5,295.02	1/4	4,910.01	1/4	4,523.04	1/4	4,135.03	1/4	3,747.02	1/4	3,359.02	1/4	2,971.01	1/4	2,582.92	1/4	2,194.66	1/4	1,806.40
1/2	5,287.03	1/2	4,901.96	1/2	4,514.96	1/2	4,126.95	1/2	3,738.94	1/2	3,350.93	1/2	2,962.93	1/2	2,574.84	1/2	2,186.57	1/2	1,798.31
3/4	5,279.04	3/4	4,893.92	3/4	4,506.87	3/4	4,118.87	3/4	3,730.86	3/4	3,342.85	3/4	2,954.84	3/4	2,566.75	3/4	2,178.48	3/4	1,790.22
9	5,271.06	9	4,885.87	9	4,498.79	9	4,110.78	9	3,722.77	9	3,334.77	9	2,946.76	9	2,558.66	9	2,170.40	9	1,782.13
1/4	5,263.07	1/4	4,877.83	1/4	4,490.71	1/4	4,102.70	1/4	3,714.69	1/4	3,326.68	1/4	2,938.67	1/4	2,550.57	1/4	2,162.31	1/4	1,774.04
1/2	5,255.08	1/2	4,869.78	1/2	4,482.62	1/2	4,094.62	1/2	3,706.61	1/2	3,318.60	1/2	2,930.59	1/2	2,542.48	1/2	2,154.22	1/2	1,765.96
3/4	5,247.10	3/4	4,861.74	3/4	4,474.54	3/4	4,086.53	3/4	3,698.52	3/4	3,310.52	3/4	2,922.51	3/4	2,534.39	3/4	2,146.13	3/4	1,757.87
10	5,239.12	10	4,853.69	10	4,466.46	10	4,078.45	10	3,690.44	10	3,302.43	10	2,914.42	10	2,526.30	10	2,138.04	10	1,749.78
1/4	5,231.13	1/4	4,845.65	1/4	4,458.37	1/4	4,070.36	1/4	3,682.36	1/4	3,294.35	1/4	2,906.34	1/4	2,518.21	1/4	2,129.95	1/4	1,741.69
1/2	5,223.15	1/2	4,837.60	1/2	4,450.29	1/2	4,062.28	1/2	3,674.27	1/2	3,286.27	1/2	2,898.26	1/2	2,510.12	1/2	2,121.86	1/2	1,733.60
3/4	5,215.17	3/4	4,829.56	3/4	4,442.21	3/4	4,054.20	3/4	3,666.19	3/4	3,278.18	3/4	2,890.17	3/4	2,502.04	3/4	2,113.77	3/4	1,725.51
11	5,207.18	11	4,821.51	11	4,434.12	11	4,046.11	11	3,658.11	11	3,270.10	11	2,882.09	11	2,493.95	11	2,105.68	11	1,717.42
1/4	5,199.20	1/4	4,813.47	1/4	4,426.04	1/4	4,038.03	1/4	3,650.02	1/4	3,262.01	1/4	2,874.01	1/4	2,485.86	1/4	2,097.60	1/4	1,709.33
1/2	5,191.22	1/2	4,805.42	1/2	4,417.96	1/2	4,029.95	1/2	3,641.94	1/2	3,253.93	1/2	2,865.92	1/2	2,477.77	1/2	2,089.51	1/2	1,701.24
3/4	5,183.23	3/4	4,797.38	3/4	4,409.87	3/4	4,021.86	3/4	3,633.86	3/4	3,245.85	3/4	2,857.84	3/4	2,469.68	3/4	2,081.42	3/4	1,693.16

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" 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 3052"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 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	1,685.07	0	1,300.03	0	928.20	0	540.16	0	157.95	0		0		0		0		0	
1/4	1,676.98	1/4	1,292.35	1/4	920.11	1/4	532.12	1/4	150.03	1/4		1/4		1/4		1/4		1/4	
1/2	1,668.89	1/2	1,284.67	1/2	912.02	1/2	524.19	1/2	142.11	1/2		1/2		1/2		1/2		1/2	
3/4	1,660.80	3/4	1,276.99	3/4	903.94	3/4	516.26	3/4	134.19	3/4		3/4		3/4		3/4		3/4	
1	1,652.71	1	1,269.32	1	895.85	1	508.34	1	126.27	1		1		1		1		1	
1/4	1,644.62	1/4	1,261.64	1/4	887.76	1/4	500.41	1/4	118.35	1/4		1/4		1/4		1/4		1/4	
1/2	1,636.53	1/2	1,253.96	1/2	879.68	1/2	492.48	1/2	110.59	1/2		1/2		1/2		1/2		1/2	
3/4	1,628.45	3/4	1,246.29	3/4	871.59	3/4	484.56	3/4	102.84	3/4		3/4		3/4		3/4		3/4	
2	1,620.36	2	1,238.61	2	863.51	2	476.63	2	95.09	2		2		2		2		2	
1/4	1,612.27	1/4	1,230.93	1/4	855.42	1/4	468.71	1/4	87.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,604.18	1/2	1,223.26	1/2	847.33	1/2	460.79	1/2	80.43	1/2		1/2		1/2		1/2		1/2	
3/4	1,596.09	3/4	1,215.58	3/4	839.25	3/4	452.87	3/4	73.52	3/4		3/4		3/4		3/4		3/4	
3	1,588.00	3	1,207.90	3	831.16	3	444.94	3	66.61	3		3		3		3		3	
1/4	1,579.91	1/4	1,200.23	1/4	823.07	1/4	437.02	1/4	59.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,571.82	1/2	1,192.55	1/2	814.99	1/2	429.10	1/2	54.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.74	3/4	1,184.87	3/4	806.90	3/4	421.18	3/4	48.57	3/4		3/4		3/4		3/4		3/4	
4	1,555.65	4	1,177.20	4	798.81	4	413.26	4	43.01	4		4		4		4		4	
1/4	1,547.56	1/4	1,169.52	1/4	790.73	1/4	405.34	1/4	37.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,539.47	1/2	1,161.84	1/2	782.64	1/2	397.42	1/2	33.23	1/2		1/2		1/2		1/2		1/2	
3/4	1,531.38	3/4	1,154.17	3/4	774.55	3/4	389.50	3/4	29.01	3/4		3/4		3/4		3/4		3/4	
5	1,523.29	5	1,146.49	5	766.47	5	381.58	5		5		5		5		5		5	
1/4	1,515.20	1/4	1,138.82	1/4	758.38	1/4	373.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,507.11	1/2	1,131.14	1/2	750.29	1/2	365.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,499.02	3/4	1,123.46	3/4	742.21	3/4	357.81	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,490.94	6	1,115.79	6	734.12	6	349.89	6		6		6		6		6		6	
1/4	1,482.85	1/4	1,108.11	1/4	726.03	1/4	341.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,474.76	1/2	1,100.43	1/2	717.95	1/2	334.05	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,466.67	3/4	1,092.76	3/4	709.86	3/4	326.13	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,458.58	7	1,085.08	7	701.78	7	318.21	7		7		7		7		7		7	
1/4	1,450.49	1/4	1,077.40	1/4	693.69	1/4	310.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,442.40	1/2	1,069.72	1/2	685.60	1/2	302.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,434.31	3/4	1,062.04	3/4	677.52	3/4	294.37	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,426.23	8	1,054.36	8	669.43	8	286.41	8		8		8		8		8		8	
1/4	1,418.14	1/4	1,046.68	1/4	661.34	1/4	278.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,410.05	1/2	1,039.00	1/2	653.26	1/2	270.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,401.96	3/4	1,031.32	3/4	645.17	3/4	262.30	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,393.87	9	1,023.64	9	637.08	9	254.23	9		9		9		9		9		9	
1/4	1,385.78	1/4	1,015.96	1/4	629.00	1/4	246.15	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,377.79	1/2	1,008.17	1/2	620.91	1/2	238.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,369.80	3/4	1,000.38	3/4	612.82	3/4	230.01	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,361.81	10	992.59	10	604.74	10	221.93	10		10		10		10		10		10	
1/4	1,353.82	1/4	984.80	1/4	596.65	1/4	213.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,346.13	1/2	976.72	1/2	588.56	1/2	205.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,338.45	3/4	968.63	3/4	580.48	3/4	197.79	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,330.76	11	960.54	11	572.39	11	189.75	11		11		11		11		11		11	
1/4	1,323.07	1/4	952.46	1/4	564.30	1/4	181.71	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,315.39	1/2	944.37	1/2	556.26	1/2	173.79	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,307.71	3/4	936.28	3/4	548.21	3/4	165.87	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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# BARGE "EMS 3052"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-05"

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	3,876.34	0	3,691.16	0	3,505.22	0	3,319.05	0	3,132.88	0	2,946.71	0	2,664.08	0	2,304.52	0	1,944.99
1/4		1/4	3,872.51	1/4	3,687.30	1/4	3,501.34	1/4	3,315.17	1/4	3,129.00	1/4	2,942.83	1/4	2,656.61	1/4	2,297.03	1/4	1,937.49
1/2		1/2	3,868.67	1/2	3,683.44	1/2	3,497.46	1/2	3,311.29	1/2	3,125.12	1/2	2,938.95	1/2	2,649.15	1/2	2,289.54	1/2	1,929.98
3/4		3/4	3,864.84	3/4	3,679.58	3/4	3,493.58	3/4	3,307.41	3/4	3,121.24	3/4	2,935.08	3/4	2,641.67	3/4	2,282.06	3/4	1,922.47
1		1	3,861.00	1	3,675.72	1	3,489.70	1	3,303.53	1	3,117.37	1	2,931.20	1	2,634.20	1	2,274.57	1	1,914.97
1/4		1/4	3,857.16	1/4	3,671.86	1/4	3,485.82	1/4	3,299.66	1/4	3,113.49	1/4	2,927.32	1/4	2,626.73	1/4	2,267.08	1/4	1,907.47
1/2		1/2	3,853.32	1/2	3,668.00	1/2	3,481.94	1/2	3,295.78	1/2	3,109.61	1/2	2,923.44	1/2	2,619.25	1/2	2,259.60	1/2	1,899.96
3/4		3/4	3,849.46	3/4	3,664.14	3/4	3,478.07	3/4	3,291.90	3/4	3,105.73	3/4	2,919.56	3/4	2,611.76	3/4	2,252.11	3/4	1,892.46
2		2	3,845.60	2	3,660.28	2	3,474.19	2	3,288.02	2	3,101.85	2	2,915.68	2	2,604.27	2	2,244.62	2	1,884.96
1/4		1/4	3,841.74	1/4	3,656.42	1/4	3,470.31	1/4	3,284.14	1/4	3,097.97	1/4	2,911.81	1/4	2,596.77	1/4	2,237.14	1/4	1,877.46
1/2		1/2	3,837.88	1/2	3,652.56	1/2	3,466.43	1/2	3,280.26	1/2	3,094.09	1/2	2,907.93	1/2	2,589.28	1/2	2,229.65	1/2	1,869.95
3/4		3/4	3,834.02	3/4	3,648.69	3/4	3,462.55	3/4	3,276.38	3/4	3,090.22	3/4	2,904.06	3/4	2,581.78	3/4	2,222.16	3/4	1,862.45
3		3	3,830.16	3	3,644.82	3	3,458.67	3	3,272.51	3	3,086.34	3	2,900.19	3	2,574.29	3	2,214.68	3	1,854.95
1/4		1/4	3,826.30	1/4	3,640.95	1/4	3,454.80	1/4	3,268.63	1/4	3,082.46	1/4	2,896.33	1/4	2,566.80	1/4	2,207.19	1/4	1,847.44
1/2		1/2	3,822.43	1/2	3,637.08	1/2	3,450.92	1/2	3,264.75	1/2	3,078.58	1/2	2,892.46	1/2	2,559.30	1/2	2,199.71	1/2	1,839.94
3/4		3/4	3,818.57	3/4	3,633.21	3/4	3,447.04	3/4	3,260.87	3/4	3,074.70	3/4	2,888.63	3/4	2,551.81	3/4	2,192.22	3/4	1,832.44
4		4	3,814.71	4	3,629.33	4	3,443.16	4	3,256.99	4	3,070.82	4	2,884.81	4	2,544.32	4	2,184.73	4	1,824.94
1/4		1/4	3,810.85	1/4	3,625.45	1/4	3,439.28	1/4	3,253.11	1/4	3,066.95	1/4	2,880.98	1/4	2,536.82	1/4	2,177.25	1/4	1,817.43
1/2		1/2	3,806.99	1/2	3,621.57	1/2	3,435.40	1/2	3,249.23	1/2	3,063.07	1/2	2,877.15	1/2	2,529.33	1/2	2,169.76	1/2	1,809.93
3/4		3/4	3,803.13	3/4	3,617.69	3/4	3,431.52	3/4	3,245.36	3/4	3,059.19	3/4	2,872.41	3/4	2,521.83	3/4	2,162.27	3/4	1,802.43
5		5	3,799.27	5	3,613.81	5	3,427.65	5	3,241.48	5	3,055.31	5	2,867.67	5	2,514.34	5	2,154.79	5	1,794.92
1/4		1/4	3,795.41	1/4	3,609.94	1/4	3,423.77	1/4	3,237.60	1/4	3,051.43	1/4	2,862.94	1/4	2,506.84	1/4	2,147.30	1/4	1,787.42
1/2	3,956.54	1/2	3,791.55	1/2	3,606.06	1/2	3,419.89	1/2	3,233.72	1/2	3,047.55	1/2	2,858.20	1/2	2,499.35	1/2	2,139.81	1/2	1,779.92
3/4	3,955.53	3/4	3,787.69	3/4	3,602.18	3/4	3,416.01	3/4	3,229.84	3/4	3,043.67	3/4	2,850.73	3/4	2,491.85	3/4	2,132.33	3/4	1,772.42
6	3,954.52	6	3,783.83	6	3,598.30	6	3,412.13	6	3,225.96	6	3,039.80	6	2,843.27	6	2,484.36	6	2,124.84	6	1,764.91
1/4	3,953.51	1/4	3,779.96	1/4	3,594.42	1/4	3,408.25	1/4	3,222.09	1/4	3,035.92	1/4	2,835.80	1/4	2,476.86	1/4	2,117.35	1/4	1,757.41
1/2	3,952.50	1/2	3,776.10	1/2	3,590.54	1/2	3,404.37	1/2	3,218.21	1/2	3,032.04	1/2	2,828.33	1/2	2,469.36	1/2	2,109.87	1/2	1,749.91
3/4	3,950.24	3/4	3,772.24	3/4	3,586.66	3/4	3,400.50	3/4	3,214.33	3/4	3,028.16	3/4	2,820.87	3/4	2,461.87	3/4	2,102.38	3/4	1,742.40
7	3,947.97	7	3,768.38	7	3,582.79	7	3,396.62	7	3,210.45	7	3,024.28	7	2,813.40	7	2,454.37	7	2,094.89	7	1,734.90
1/4	3,945.71	1/4	3,764.52	1/4	3,578.91	1/4	3,392.74	1/4	3,206.57	1/4	3,020.40	1/4	2,805.93	1/4	2,446.88	1/4	2,087.41	1/4	1,727.40
1/2	3,943.44	1/2	3,760.66	1/2	3,575.03	1/2	3,388.86	1/2	3,202.69	1/2	3,016.52	1/2	2,798.47	1/2	2,439.38	1/2	2,079.92	1/2	1,719.90
3/4	3,940.08	3/4	3,756.80	3/4	3,571.15	3/4	3,384.98	3/4	3,198.81	3/4	3,012.65	3/4	2,791.00	3/4	2,431.88	3/4	2,072.43	3/4	1,712.39
8	3,936.71	8	3,752.94	8	3,567.27	8	3,381.10	8	3,194.94	8	3,008.77	8	2,783.54	8	2,424.39	8	2,064.95	8	1,704.89
1/4	3,933.35	1/4	3,749.08	1/4	3,563.39	1/4	3,377.23	1/4	3,191.06	1/4	3,004.89	1/4	2,776.07	1/4	2,416.89	1/4	2,057.46	1/4	1,697.38
1/2	3,929.98	1/2	3,745.22	1/2	3,559.51	1/2	3,373.35	1/2	3,187.18	1/2	3,001.01	1/2	2,768.60	1/2	2,409.40	1/2	2,049.98	1/2	1,689.88
3/4	3,926.15	3/4	3,741.36	3/4	3,555.64	3/4	3,369.47	3/4	3,183.30	3/4	2,997.13	3/4	2,761.14	3/4	2,401.90	3/4	2,042.49	3/4	1,682.36
9	3,922.32	9	3,737.50	9	3,551.76	9	3,365.59	9	3,179.42	9	2,993.25	9	2,753.67	9	2,394.40	9	2,035.00	9	1,674.85
1/4	3,918.48	1/4	3,733.63	1/4	3,547.88	1/4	3,361.71	1/4	3,175.54	1/4	2,989.38	1/4	2,746.21	1/4	2,386.91	1/4	2,027.52	1/4	1,667.34
1/2	3,914.65	1/2	3,729.77	1/2	3,544.00	1/2	3,357.83	1/2	3,171.66	1/2	2,985.50	1/2	2,738.74	1/2	2,379.41	1/2	2,020.03	1/2	1,659.83
3/4	3,910.82	3/4	3,725.91	3/4	3,540.12	3/4	3,353.95	3/4	3,167.79	3/4	2,981.62	3/4	2,731.27	3/4	2,371.92	3/4	2,012.54	3/4	1,652.32
10	3,906.99	10	3,722.05	10	3,536.24	10	3,350.08	10	3,163.91	10	2,977.74	10	2,723.81	10	2,364.42	10	2,005.04	10	1,644.81
1/4	3,903.16	1/4	3,718.19	1/4	3,532.37	1/4	3,346.20	1/4	3,160.03	1/4	2,973.86	1/4	2,716.34	1/4	2,356.93	1/4	1,997.55	1/4	1,637.30
1/2	3,899.33	1/2	3,714.33	1/2	3,528.49	1/2	3,342.32	1/2	3,156.15	1/2	2,969.98	1/2	2,708.88	1/2	2,349.44	1/2	1,990.06	1/2	1,629.79
3/4	3,895.49	3/4	3,710.47	3/4	3,524.61	3/4	3,338.44	3/4	3,152.27	3/4	2,966.10	3/4	2,701.41	3/4	2,341.95	3/4	1,982.55	3/4	1,622.32
11	3,891.66	11	3,706.61	11	3,520.73	11	3,334.56	11	3,148.39	11	2,962.23	11	2,693.94	11	2,334.46	11	1,975.04	11	1,614.85
1/4	3,887.83	1/4	3,702.75	1/4	3,516.85	1/4	3,330.68	1/4	3,144.52	1/4	2,958.35	1/4	2,686.48	1/4	2,326.98	1/4	1,967.52	1/4	1,607.38
1/2	3,884.00	1/2	3,698.89	1/2	3,512.97	1/2	3,326.80	1/2	3,140.64	1/2	2,954.47	1/2	2,679.01	1/2	2,319.49	1/2	1,960.01	1/2	1,599.91
3/4	3,880.17	3/4	3,695.03	3/4	3,509.09	3/4	3,322.93	3/4	3,136.76	3/4	2,950.59	3/4	2,671.54	3/4	2,312.00	3/4	1,952.50	3/4	1,592.58

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 54'-06" 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 3052"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-05"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,585.24	0	1,229.06	0	871.10	0	510.50	0	155.15	0		0		0		0		0	
1/4	1,577.90	1/4	1,221.62	1/4	863.59	1/4	503.02	1/4	147.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,570.56	1/2	1,214.18	1/2	856.07	1/2	495.54	1/2	140.42	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.23	3/4	1,206.74	3/4	848.56	3/4	488.17	3/4	133.06	3/4		3/4		3/4		3/4		3/4	
1	1,555.89	1	1,199.30	1	841.04	1	480.80	1	125.70	1		1		1		1		1	
1/4	1,548.55	1/4	1,191.86	1/4	833.53	1/4	473.44	1/4	118.34	1/4		1/4		1/4		1/4		1/4	
1/2	1,541.21	1/2	1,184.42	1/2	826.02	1/2	466.07	1/2	110.98	1/2		1/2		1/2		1/2		1/2	
3/4	1,533.88	3/4	1,176.98	3/4	818.50	3/4	458.70	3/4	103.78	3/4		3/4		3/4		3/4		3/4	
2	1,526.54	2	1,169.54	2	810.99	2	451.34	2	96.58	2		2		2		2		2	
1/4	1,519.20	1/4	1,162.10	1/4	803.48	1/4	443.97	1/4	89.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,511.86	1/2	1,154.67	1/2	795.96	1/2	436.60	1/2	82.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,504.52	3/4	1,147.23	3/4	788.45	3/4	429.24	3/4	75.75	3/4		3/4		3/4		3/4		3/4	
3	1,497.19	3	1,139.79	3	780.93	3	421.88	3	69.33	3		3		3		3		3	
1/4	1,489.85	1/4	1,132.35	1/4	773.42	1/4	414.52	1/4	62.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,482.51	1/2	1,124.92	1/2	765.91	1/2	407.15	1/2	56.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,475.17	3/4	1,117.48	3/4	758.39	3/4	399.79	3/4	51.33	3/4		3/4		3/4		3/4		3/4	
4	1,467.84	4	1,110.04	4	750.88	4	392.43	4	46.17	4		4		4		4		4	
1/4	1,460.50	1/4	1,102.60	1/4	743.36	1/4	385.07	1/4	41.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,453.16	1/2	1,095.17	1/2	735.85	1/2	377.71	1/2	35.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,445.78	3/4	1,087.73	3/4	728.34	3/4	370.35	3/4	31.93	3/4		3/4		3/4		3/4		3/4	
5	1,438.40	5	1,080.29	5	720.82	5	362.98	5	28.03	5		5		5		5		5	
1/4	1,431.02	1/4	1,072.85	1/4	713.31	1/4	355.62	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,423.63	1/2	1,065.42	1/2	705.79	1/2	348.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,416.12	3/4	1,057.98	3/4	698.28	3/4	340.90	3/4		3/4		3/4		3/4		3/4		3/4	
6	1,408.61	6	1,050.54	6	690.77	6	333.54	6		6		6		6		6		6	
1/4	1,401.10	1/4	1,043.10	1/4	683.25	1/4	326.18	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,393.58	1/2	1,035.67	1/2	675.74	1/2	318.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,386.07	3/4	1,028.23	3/4	668.22	3/4	311.45	3/4		3/4		3/4		3/4		3/4		3/4	
7	1,378.56	7	1,020.79	7	660.71	7	304.09	7		7		7		7		7		7	
1/4	1,371.04	1/4	1,013.35	1/4	653.20	1/4	296.73	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,363.53	1/2	1,005.91	1/2	645.68	1/2	289.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,356.03	3/4	998.46	3/4	638.17	3/4	281.97	3/4		3/4		3/4		3/4		3/4		3/4	
8	1,348.52	8	991.01	8	630.66	8	274.57	8		8		8		8		8		8	
1/4	1,341.02	1/4	983.56	1/4	623.14	1/4	267.17	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,333.52	1/2	976.11	1/2	615.63	1/2	259.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,326.04	3/4	968.62	3/4	608.11	3/4	252.27	3/4		3/4		3/4		3/4		3/4		3/4	
9	1,318.57	9	961.14	9	600.60	9	244.77	9		9		9		9		9		9	
1/4	1,311.09	1/4	953.66	1/4	593.09	1/4	237.26	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,303.62	1/2	946.17	1/2	585.57	1/2	229.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,296.15	3/4	938.67	3/4	578.06	3/4	222.26	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,288.68	10	931.18	10	570.54	10	214.75	10		10		10		10		10		10	
1/4	1,281.21	1/4	923.68	1/4	563.03	1/4	207.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,273.74	1/2	916.18	1/2	555.52	1/2	199.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,266.29	3/4	908.67	3/4	548.00	3/4	192.28	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,258.84	11	901.16	11	540.49	11	184.81	11		11		11		11		11		11	
1/4	1,251.39	1/4	893.64	1/4	532.97	1/4	177.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,243.94	1/2	886.13	1/2	525.46	1/2	169.87	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,236.50	3/4	878.61	3/4	517.98	3/4	162.51	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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# BARGE "EMS 3052"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0	3,847.33	0	3,662.13	0	3,476.17	0	3,290.00	0	3,103.83	0	2,917.66	0	2,631.61	0	2,272.25	0	1,912.93
1/4		1/4	3,843.50	1/4	3,658.27	1/4	3,472.29	1/4	3,286.12	1/4	3,099.95	1/4	2,913.78	1/4	2,624.15	1/4	2,264.77	1/4	1,905.43
1/2		1/2	3,839.66	1/2	3,654.41	1/2	3,468.41	1/2	3,282.24	1/2	3,096.07	1/2	2,909.90	1/2	2,616.68	1/2	2,257.29	1/2	1,897.93
3/4		3/4	3,835.82	3/4	3,650.55	3/4	3,464.53	3/4	3,278.36	3/4	3,092.19	3/4	2,906.03	3/4	2,609.21	3/4	2,249.80	3/4	1,890.43
1		1	3,831.98	1	3,646.69	1	3,460.65	1	3,274.48	1	3,088.32	1	2,902.15	1	2,601.74	1	2,242.32	1	1,882.93
1/4		1/4	3,828.15	1/4	3,642.83	1/4	3,456.77	1/4	3,270.61	1/4	3,084.44	1/4	2,898.27	1/4	2,594.27	1/4	2,234.84	1/4	1,875.43
1/2		1/2	3,824.28	1/2	3,638.97	1/2	3,452.89	1/2	3,266.73	1/2	3,080.56	1/2	2,894.39	1/2	2,586.79	1/2	2,227.36	1/2	1,867.94
3/4		3/4	3,820.42	3/4	3,635.11	3/4	3,449.02	3/4	3,262.85	3/4	3,076.68	3/4	2,890.51	3/4	2,579.30	3/4	2,219.88	3/4	1,860.44
2		2	3,816.56	2	3,631.24	2	3,445.14	2	3,258.97	2	3,072.80	2	2,886.63	2	2,571.81	2	2,212.40	2	1,852.94
1/4		1/4	3,812.70	1/4	3,627.38	1/4	3,441.26	1/4	3,255.09	1/4	3,068.92	1/4	2,882.76	1/4	2,564.32	1/4	2,204.91	1/4	1,845.44
1/2		1/2	3,808.84	1/2	3,623.52	1/2	3,437.38	1/2	3,251.21	1/2	3,065.04	1/2	2,878.89	1/2	2,556.83	1/2	2,197.43	1/2	1,837.94
3/4		3/4	3,804.98	3/4	3,619.65	3/4	3,433.50	3/4	3,247.33	3/4	3,061.17	3/4	2,875.03	3/4	2,549.34	3/4	2,189.95	3/4	1,830.44
3		3	3,801.12	3	3,615.78	3	3,429.62	3	3,243.46	3	3,057.29	3	2,871.16	3	2,541.85	3	2,182.47	3	1,822.95
1/4		1/4	3,797.26	1/4	3,611.91	1/4	3,425.75	1/4	3,239.58	1/4	3,053.41	1/4	2,867.30	1/4	2,534.36	1/4	2,174.99	1/4	1,815.45
1/2		1/2	3,793.40	1/2	3,608.03	1/2	3,421.87	1/2	3,235.70	1/2	3,049.53	1/2	2,863.47	1/2	2,526.87	1/2	2,167.51	1/2	1,807.95
3/4		3/4	3,789.54	3/4	3,604.16	3/4	3,417.99	3/4	3,231.82	3/4	3,045.65	3/4	2,859.65	3/4	2,519.38	3/4	2,160.02	3/4	1,800.45
4		4	3,785.68	4	3,600.28	4	3,414.11	4	3,227.94	4	3,041.77	4	2,855.82	4	2,511.89	4	2,152.54	4	1,792.95
1/4		1/4	3,781.82	1/4	3,596.40	1/4	3,410.23	1/4	3,224.06	1/4	3,037.90	1/4	2,852.00	1/4	2,504.40	1/4	2,145.06	1/4	1,785.46
1/2		1/2	3,777.95	1/2	3,592.52	1/2	3,406.35	1/2	3,220.18	1/2	3,034.02	1/2	2,847.27	1/2	2,496.91	1/2	2,137.58	1/2	1,777.96
3/4		3/4	3,774.09	3/4	3,588.64	3/4	3,402.47	3/4	3,216.31	3/4	3,030.14	3/4	2,842.53	3/4	2,489.42	3/4	2,130.10	3/4	1,770.46
5		5	3,770.23	5	3,584.76	5	3,398.60	5	3,212.43	5	3,026.26	5	2,837.80	5	2,481.93	5	2,122.61	5	1,762.96
1/4	3,931.37	1/4	3,766.37	1/4	3,580.89	1/4	3,394.72	1/4	3,208.55	1/4	3,022.38	1/4	2,833.07	1/4	2,474.44	1/4	2,115.13	1/4	1,755.46
1/2	3,930.36	1/2	3,762.51	1/2	3,577.01	1/2	3,390.84	1/2	3,204.67	1/2	3,018.50	1/2	2,825.61	1/2	2,466.95	1/2	2,107.65	1/2	1,747.96
3/4	3,929.35	3/4	3,758.65	3/4	3,573.13	3/4	3,386.96	3/4	3,200.79	3/4	3,014.62	3/4	2,818.14	3/4	2,459.46	3/4	2,100.17	3/4	1,740.47
6	3,928.34	6	3,754.79	6	3,569.25	6	3,383.08	6	3,196.91	6	3,010.75	6	2,810.68	6	2,451.97	6	2,092.69	6	1,732.97
1/4	3,927.33	1/4	3,750.93	1/4	3,565.37	1/4	3,379.20	1/4	3,193.04	1/4	3,006.87	1/4	2,803.22	1/4	2,444.48	1/4	2,085.21	1/4	1,725.47
1/2	3,925.06	1/2	3,747.07	1/2	3,561.49	1/2	3,375.32	1/2	3,189.16	1/2	3,002.99	1/2	2,795.76	1/2	2,436.99	1/2	2,077.72	1/2	1,717.97
3/4	3,922.80	3/4	3,743.21	3/4	3,557.61	3/4	3,371.45	3/4	3,185.28	3/4	2,999.11	3/4	2,788.30	3/4	2,429.50	3/4	2,070.24	3/4	1,710.47
7	3,920.53	7	3,739.35	7	3,553.74	7	3,367.57	7	3,181.40	7	2,995.23	7	2,780.84	7	2,422.00	7	2,062.76	7	1,702.98
1/4	3,918.27	1/4	3,735.49	1/4	3,549.86	1/4	3,363.69	1/4	3,177.52	1/4	2,991.35	1/4	2,773.38	1/4	2,414.51	1/4	2,055.28	1/4	1,695.48
1/2	3,914.91	1/2	3,731.63	1/2	3,545.98	1/2	3,359.81	1/2	3,173.64	1/2	2,987.47	1/2	2,765.91	1/2	2,407.02	1/2	2,047.80	1/2	1,687.98
3/4	3,911.54	3/4	3,727.76	3/4	3,542.10	3/4	3,355.93	3/4	3,169.76	3/4	2,983.60	3/4	2,758.45	3/4	2,399.53	3/4	2,040.31	3/4	1,680.48
8	3,908.18	8	3,723.90	8	3,538.22	8	3,352.05	8	3,165.89	8	2,979.72	8	2,750.99	8	2,392.04	8	2,032.83	8	1,672.98
1/4	3,904.81	1/4	3,720.04	1/4	3,534.34	1/4	3,348.18	1/4	3,162.01	1/4	2,975.84	1/4	2,743.53	1/4	2,384.55	1/4	2,025.35	1/4	1,665.48
1/2	3,900.98	1/2	3,716.18	1/2	3,530.46	1/2	3,344.30	1/2	3,158.13	1/2	2,971.96	1/2	2,736.07	1/2	2,377.05	1/2	2,017.87	1/2	1,657.97
3/4	3,897.15	3/4	3,712.32	3/4	3,526.59	3/4	3,340.42	3/4	3,154.25	3/4	2,968.08	3/4	2,728.61	3/4	2,369.56	3/4	2,010.39	3/4	1,650.46
9	3,893.31	9	3,708.46	9	3,522.71	9	3,336.54	9	3,150.37	9	2,964.20	9	2,721.15	9	2,362.07	9	2,002.91	9	1,642.96
1/4	3,889.48	1/4	3,704.60	1/4	3,518.83	1/4	3,332.66	1/4	3,146.49	1/4	2,960.33	1/4	2,713.68	1/4	2,354.58	1/4	1,995.42	1/4	1,635.45
1/2	3,885.65	1/2	3,700.74	1/2	3,514.95	1/2	3,328.78	1/2	3,142.61	1/2	2,956.45	1/2	2,706.22	1/2	2,347.09	1/2	1,987.94	1/2	1,627.94
3/4	3,881.82	3/4	3,696.88	3/4	3,511.07	3/4	3,324.90	3/4	3,138.74	3/4	2,952.57	3/4	2,698.76	3/4	2,339.60	3/4	1,980.45	3/4	1,620.44
10	3,877.99	10	3,693.02	10	3,507.19	10	3,321.03	10	3,134.86	10	2,948.69	10	2,691.30	10	2,332.11	10	1,972.96	10	1,612.93
1/4	3,874.15	1/4	3,689.16	1/4	3,503.32	1/4	3,317.15	1/4	3,130.98	1/4	2,944.81	1/4	2,683.84	1/4	2,324.62	1/4	1,965.47	1/4	1,605.42
1/2	3,870.32	1/2	3,685.30	1/2	3,499.44	1/2	3,313.27	1/2	3,127.10	1/2	2,940.93	1/2	2,676.38	1/2	2,317.14	1/2	1,957.96	1/2	1,597.96
3/4	3,866.49	3/4	3,681.43	3/4	3,495.56	3/4	3,309.39	3/4	3,123.22	3/4	2,937.05	3/4	2,668.92	3/4	2,309.66	3/4	1,950.46	3/4	1,590.50
11	3,862.66	11	3,677.57	11	3,491.68	11	3,305.51	11	3,119.34	11	2,933.18	11	2,661.46	11	2,302.18	11	1,942.95	11	1,583.03
1/4	3,858.83	1/4	3,673.71	1/4	3,487.80	1/4	3,301.63	1/4	3,115.47	1/4	2,929.30	1/4	2,653.99	1/4	2,294.70	1/4	1,935.44	1/4	1,575.57
1/2	3,855.00	1/2	3,669.85	1/2	3,483.92	1/2	3,297.75	1/2	3,111.59	1/2	2,925.42	1/2	2,646.53	1/2	2,287.21	1/2	1,927.94	1/2	1,568.24
3/4	3,851.17	3/4	3,665.99	3/4	3,480.04	3/4	3,293.88	3/4	3,107.71	3/4	2,921.54	3/4	2,639.07	3/4	2,279.73	3/4	1,920.44	3/4	1,560.90

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 LIP OF 10" HATCH  
 GAUGE POINT: (10" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 54'-06" 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 3052"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 14'-04 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	1,553.57	0	1,203.13	0	859.85	0	502.28	0	147.74	0		0		0		0		0	
1/4	1,546.24	1/4	1,196.04	1/4	852.48	1/4	494.83	1/4	140.38	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,538.91	1/2	1,188.96	1/2	845.11	1/2	487.50	1/2	133.02	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,531.57	3/4	1,181.88	3/4	837.74	3/4	480.17	3/4	125.67	3/4		3/4	3/4	3/4		3/4		3/4	
1	1,524.24	1	1,174.79	1	830.37	1	472.83	1	118.31	1		1		1		1		1	
1/4	1,516.91	1/4	1,167.71	1/4	823.00	1/4	465.50	1/4	110.95	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,509.57	1/2	1,160.62	1/2	815.63	1/2	458.16	1/2	103.74	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,502.24	3/4	1,153.54	3/4	808.26	3/4	450.83	3/4	96.54	3/4		3/4	3/4	3/4		3/4		3/4	
2	1,494.91	2	1,146.46	2	800.89	2	443.50	2	89.34	2		2		2		2		2	
1/4	1,487.57	1/4	1,139.38	1/4	793.52	1/4	436.17	1/4	82.14	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,480.24	1/2	1,132.30	1/2	786.14	1/2	428.84	1/2	75.72	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,472.91	3/4	1,125.21	3/4	778.77	3/4	421.51	3/4	69.30	3/4		3/4	3/4	3/4		3/4		3/4	
3	1,465.58	3	1,118.13	3	771.39	3	414.18	3	62.88	3		3		3		3		3	
1/4	1,458.24	1/4	1,111.05	1/4	764.01	1/4	406.85	1/4	56.47	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,450.91	1/2	1,103.97	1/2	756.61	1/2	399.53	1/2	51.30	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,443.58	3/4	1,096.89	3/4	749.20	3/4	392.20	3/4	46.14	3/4		3/4	3/4	3/4		3/4		3/4	
4	1,436.24	4	1,089.80	4	741.79	4	384.87	4	40.98	4		4		4		4		4	
1/4	1,428.91	1/4	1,082.72	1/4	734.38	1/4	377.54	1/4	35.81	1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,421.53	1/2	1,075.64	1/2	726.87	1/2	370.20	1/2	31.91	1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,414.16	3/4	1,068.56	3/4	719.36	3/4	362.87	3/4	27.99	3/4		3/4	3/4	3/4		3/4		3/4	
5	1,406.78	5	1,061.48	5	711.85	5	355.53	5		5		5		5		5		5	
1/4	1,399.40	1/4	1,054.39	1/4	704.34	1/4	348.19	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,391.89	1/2	1,047.34	1/2	696.84	1/2	340.83	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,384.39	3/4	1,040.30	3/4	689.33	3/4	333.47	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
6	1,376.88	6	1,033.25	6	681.82	6	326.11	6		6		6		6		6		6	
1/4	1,369.37	1/4	1,026.20	1/4	674.31	1/4	318.75	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,361.86	1/2	1,019.25	1/2	666.81	1/2	311.39	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,354.35	3/4	1,012.30	3/4	659.31	3/4	304.03	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
7	1,346.84	7	1,005.34	7	651.81	7	296.67	7		7		7		7		7		7	
1/4	1,339.34	1/4	998.39	1/4	644.31	1/4	289.31	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,331.93	1/2	991.34	1/2	636.82	1/2	281.91	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,324.51	3/4	984.30	3/4	629.34	3/4	274.51	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
8	1,317.10	8	977.25	8	621.86	8	267.12	8		8		8		8		8		8	
1/4	1,309.69	1/4	970.20	1/4	614.38	1/4	259.72	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,302.57	1/2	962.86	1/2	606.90	1/2	252.22	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,295.45	3/4	955.52	3/4	599.42	3/4	244.72	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
9	1,288.33	9	948.18	9	591.94	9	237.21	9		9		9		9		9		9	
1/4	1,281.21	1/4	940.84	1/4	584.46	1/4	229.71	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,274.10	1/2	933.49	1/2	576.98	1/2	222.21	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,266.99	3/4	926.14	3/4	569.50	3/4	214.70	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
10	1,259.87	10	918.78	10	562.02	10	207.20	10		10		10		10		10		10	
1/4	1,252.76	1/4	911.43	1/4	554.54	1/4	199.70	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,245.66	1/2	904.06	1/2	547.06	1/2	192.23	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,238.57	3/4	896.69	3/4	539.58	3/4	184.76	3/4		3/4		3/4	3/4	3/4		3/4		3/4	
11	1,231.48	11	889.33	11	532.10	11	177.29	11		11		11		11		11		11	
1/4	1,224.38	1/4	881.96	1/4	524.62	1/4	169.83	1/4		1/4		1/4	1/4	1/4		1/4		1/4	
1/2	1,217.30	1/2	874.59	1/2	517.17	1/2	162.47	1/2		1/2		1/2	1/2	1/2		1/2		1/2	
3/4	1,210.21	3/4	867.22	3/4	509.73	3/4	155.10	3/4		3/4		3/4	3/4	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/06/2023 CL  
RECALCULATED: 07/19/2023 CL  
PRINTED: 07/21/2023 SW

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CANCELS AND SUPERCEDES  
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