

# BARGE "EMS 511"

## 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	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 03-3/8	03-3/8
3 STBD	- 00-1/2	00-1/2	- 01-1/8	01-1/8	- 01-5/8	01-5/8	- 02-1/4	02-1/4	- 02-3/4	02-3/4	- 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 INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 259'-09"

January 4, 2019

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

<http://www.pmacorp.net>



# BARGE "EMS 511"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	21.40	0	355.53	0	717.13	0	1,079.74	0	1,442.36	0	1,805.22	0	2,168.09	0	2,530.95	0	2,893.71	0	3,256.44	0	3,619.20	0	3,981.96	0	4,344.72	0	4,707.48	0	5,070.24
1/4	25.64	1/4	362.94	1/4	724.69	1/4	1,087.29	1/4	1,449.91	1/4	1,812.78	1/4	2,175.65	1/4	2,538.51	1/4	2,901.27	1/4	3,264.00	1/4	3,626.72	1/4	3,989.48	1/4	4,352.24	1/4	4,715.00	1/4	5,077.76
1/2	29.88	1/2	370.36	1/2	732.25	1/2	1,094.84	1/2	1,457.47	1/2	1,820.34	1/2	2,183.21	1/2	2,546.07	1/2	2,908.82	1/2	3,271.55	1/2	3,634.27	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	34.11	3/4	377.77	3/4	739.81	3/4	1,102.38	3/4	1,465.03	3/4	1,827.90	3/4	2,190.77	3/4	2,553.63	3/4	2,916.38	3/4	3,279.11	3/4	3,641.83	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
1	38.35	1	385.18	1	747.37	1	1,109.93	1	1,472.59	1	1,835.46	1	2,195.33	1	2,558.19	1	2,921.06	1	3,283.93	1	3,646.79	1	3,997.03	1	4,352.24	1	4,707.48	1	5,062.70
1/4	43.85	1/4	392.59	1/4	754.93	1/4	1,117.48	1/4	1,480.15	1/4	1,843.02	1/4	2,205.88	1/4	2,568.75	1/4	2,931.62	1/4	3,294.48	1/4	3,657.35	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	49.35	1/2	400.00	1/2	762.48	1/2	1,125.02	1/2	1,487.71	1/2	1,850.58	1/2	2,213.44	1/2	2,576.31	1/2	2,939.18	1/2	3,302.04	1/2	3,664.91	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	54.84	3/4	407.41	3/4	770.04	3/4	1,132.57	3/4	1,495.27	3/4	1,858.14	3/4	2,221.00	3/4	2,583.87	3/4	2,946.74	3/4	3,309.60	3/4	3,672.47	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
2	60.34	2	414.83	2	777.60	2	1,140.12	2	1,502.83	2	1,865.70	2	2,228.56	2	2,591.43	2	2,954.30	2	3,317.16	2	3,680.03	2	3,997.03	2	4,352.24	2	4,707.48	2	5,062.70
1/4	67.10	1/4	422.37	1/4	785.16	1/4	1,147.67	1/4	1,510.39	1/4	1,873.26	1/4	2,236.12	1/4	2,598.99	1/4	2,961.86	1/4	3,324.72	1/4	3,687.59	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	73.85	1/2	429.91	1/2	792.72	1/2	1,155.21	1/2	1,517.95	1/2	1,880.82	1/2	2,243.68	1/2	2,606.55	1/2	2,969.42	1/2	3,332.28	1/2	3,695.15	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	80.61	3/4	437.45	3/4	800.28	3/4	1,162.76	3/4	1,525.51	3/4	1,888.38	3/4	2,251.24	3/4	2,614.11	3/4	2,976.98	3/4	3,342.85	3/4	3,705.72	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
3	87.37	3	444.99	3	807.84	3	1,170.31	3	1,533.07	3	1,895.94	3	2,258.80	3	2,621.67	3	2,984.54	3	3,347.41	3	3,710.28	3	3,997.03	3	4,352.24	3	4,707.48	3	5,062.70
1/4	94.83	1/4	452.55	1/4	815.40	1/4	1,177.86	1/4	1,540.63	1/4	1,903.50	1/4	2,266.36	1/4	2,629.22	1/4	2,992.09	1/4	3,354.96	1/4	3,717.83	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	102.30	1/2	460.11	1/2	822.96	1/2	1,185.40	1/2	1,548.19	1/2	1,911.06	1/2	2,273.92	1/2	2,636.78	1/2	2,999.65	1/2	3,362.52	1/2	3,725.39	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	109.76	3/4	467.67	3/4	830.52	3/4	1,192.95	3/4	1,555.75	3/4	1,918.62	3/4	2,281.48	3/4	2,644.33	3/4	2,997.03	3/4	3,362.52	3/4	3,725.39	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
4	117.23	4	475.23	4	838.08	4	1,200.50	4	1,563.31	4	1,926.18	4	2,288.04	4	2,651.89	4	2,997.03	4	3,362.52	4	3,725.39	4	3,997.03	4	4,352.24	4	4,707.48	4	5,062.70
1/4	124.77	1/4	482.79	1/4	845.64	1/4	1,208.05	1/4	1,570.87	1/4	1,933.74	1/4	2,296.60	1/4	2,659.45	1/4	2,997.03	1/4	3,362.52	1/4	3,725.39	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	132.32	1/2	490.35	1/2	853.20	1/2	1,215.59	1/2	1,578.43	1/2	1,941.30	1/2	2,304.16	1/2	2,662.00	1/2	2,997.03	1/2	3,362.52	1/2	3,725.39	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	139.86	3/4	497.91	3/4	860.76	3/4	1,223.14	3/4	1,585.99	3/4	1,948.85	3/4	2,311.72	3/4	2,674.56	3/4	2,997.03	3/4	3,362.52	3/4	3,725.39	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
5	147.41	5	505.47	5	868.32	5	1,230.69	5	1,593.55	5	1,956.41	5	2,319.28	5	2,682.12	5	2,997.03	5	3,362.52	5	3,725.39	5	3,997.03	5	4,352.24	5	4,707.48	5	5,062.70
1/4	154.95	1/4	513.02	1/4	875.88	1/4	1,238.25	1/4	1,601.11	1/4	1,963.97	1/4	2,326.84	1/4	2,689.67	1/4	2,997.03	1/4	3,362.52	1/4	3,725.39	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	162.50	1/2	520.58	1/2	883.44	1/2	1,245.80	1/2	1,608.67	1/2	1,971.53	1/2	2,334.40	1/2	2,697.23	1/2	2,997.03	1/2	3,362.52	1/2	3,725.39	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	170.04	3/4	528.14	3/4	890.99	3/4	1,253.36	3/4	1,616.23	3/4	1,979.09	3/4	2,341.96	3/4	2,704.79	3/4	2,997.03	3/4	3,362.52	3/4	3,725.39	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
6	177.59	6	535.70	6	898.55	6	1,260.92	6	1,623.79	6	1,986.65	6	2,349.52	6	2,712.34	6	2,997.03	6	3,362.52	6	3,725.39	6	3,997.03	6	4,352.24	6	4,707.48	6	5,062.70
1/4	185.01	1/4	543.26	1/4	906.11	1/4	1,268.48	1/4	1,631.35	1/4	1,994.24	1/4	2,357.08	1/4	2,719.90	1/4	2,997.03	1/4	3,362.52	1/4	3,725.39	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	192.44	1/2	550.82	1/2	913.67	1/2	1,276.04	1/2	1,638.91	1/2	2,001.77	1/2	2,364.64	1/2	2,727.46	1/2	2,997.03	1/2	3,362.52	1/2	3,725.39	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	199.87	3/4	558.38	3/4	921.23	3/4	1,283.60	3/4	1,646.47	3/4	2,009.33	3/4	2,372.20	3/4	2,735.01	3/4	2,997.03	3/4	3,362.52	3/4	3,725.39	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
7	207.30	7	565.94	7	928.79	7	1,291.16	7	1,654.03	7	2,016.89	7	2,379.76	7	2,742.57	7	2,997.03	7	3,362.52	7	3,725.39	7	3,997.03	7	4,352.24	7	4,707.48	7	5,062.70
1/4	214.71	1/4	573.50	1/4	936.34	1/4	1,298.72	1/4	1,661.59	1/4	2,024.45	1/4	2,387.32	1/4	2,750.13	1/4	2,997.03	1/4	3,362.52	1/4	3,725.39	1/4	3,997.03	1/4	4,352.24	1/4	4,707.48	1/4	5,062.70
1/2	222.12	1/2	581.06	1/2	943.89	1/2	1,306.28	1/2	1,669.15	1/2	2,032.01	1/2	2,394.88	1/2	2,757.68	1/2	2,997.03	1/2	3,362.52	1/2	3,725.39	1/2	3,997.03	1/2	4,352.24	1/2	4,707.48	1/2	5,062.70
3/4	229.53	3/4	588.62	3/4	951.44	3/4	1,313.84	3/4	1,676.71	3/4	2,039.57	3/4	2,402.44	3/4	2,765.24	3/4	2,997.03	3/4	3,362.52	3/4	3,725.39	3/4	3,997.03	3/4	4,352.24	3/4	4,707.48	3/4	5,062.70
8	236.95	8	596.18	8	958.98	8	1,321.43	8	1,684.27	8	2,047.13	8	2,410.00	8	2,772.80	8	2,997.03	8	3,362.52	8	3,725.39	8	3,997.03	8	4,352.24	8	4,707.48	8	5,062.70
1/4	244.36	1/4	603.74	1/4	966.53	1/4	1,328.96	1/4	1,691.83	1/4	2,054.69	1/4	2,417.56	1/4	2,780.36	1/4	2,997.03	1/4	3,362.52	1/4	3,725.39								



# BARGE "EMS 511"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	3,619.17	1/4	3,981.90	1/4	4,343.93	1/4	4,692.54	1/4	5,022.83	1/4	5,303.24	1/4	5,574.11	1/4	5,834.11	1/4	6,082.83	1/4	6,320.83
1/2	3,626.73	1/2	3,989.46	1/2	4,351.37	1/2	4,699.59	1/2	5,030.24	1/2	5,303.24	1/2	5,574.11	1/2	5,834.11	1/2	6,082.83	1/2	6,320.83
3/4	3,634.29	3/4	3,997.02	3/4	4,358.81	3/4	4,706.65	3/4	5,037.64	3/4	5,307.64	3/4	5,578.51	3/4	5,838.51	3/4	6,087.23	3/4	6,325.23
1	3,641.84	1	4,004.57	1	4,366.24	1	4,713.71	1	5,045.05	1	5,315.05	1	5,585.05	1	5,845.05	1	6,105.05	1	6,365.05
1 1/4	3,649.40	1 1/4	4,012.13	1 1/4	4,373.68	1 1/4	4,720.76	1 1/4	5,052.45	1 1/4	5,322.45	1 1/4	5,592.45	1 1/4	5,852.45	1 1/4	6,112.45	1 1/4	6,372.45
1 1/2	3,656.96	1 1/2	4,019.69	1 1/2	4,381.08	1 1/2	4,727.76	1 1/2	5,059.91	1 1/2	5,331.91	1 1/2	5,601.91	1 1/2	5,861.91	1 1/2	6,121.91	1 1/2	6,381.91
3/4	3,664.51	3/4	4,027.24	3/4	4,388.49	3/4	4,734.76	3/4	5,067.37	3/4	5,339.37	3/4	5,609.37	3/4	5,869.37	3/4	6,129.37	3/4	6,389.37
2	3,672.07	2	4,034.80	2	4,395.90	2	4,741.75	2	5,074.83	2	5,344.83	2	5,614.83	2	5,874.83	2	6,134.83	2	6,394.83
1 1/4	3,679.63	1 1/4	4,042.36	1 1/4	4,403.30	1 1/4	4,748.75	1 1/4	5,082.29	1 1/4	5,352.29	1 1/4	5,622.29	1 1/4	5,882.29	1 1/4	6,142.29	1 1/4	6,402.29
1 1/2	3,687.18	1 1/2	4,049.91	1 1/2	4,410.68	1 1/2	4,755.71	1 1/2	5,089.75	1 1/2	5,359.75	1 1/2	5,629.75	1 1/2	5,889.75	1 1/2	6,149.75	1 1/2	6,409.75
3/4	3,694.74	3/4	4,057.47	3/4	4,418.06	3/4	4,762.67	3/4	5,097.20	3/4	5,367.20	3/4	5,637.20	3/4	5,897.20	3/4	6,157.20	3/4	6,417.20
3	3,702.30	3	4,065.03	3	4,425.43	3	4,768.64	3	5,104.66	3	5,374.66	3	5,644.66	3	5,904.66	3	6,164.66	3	6,424.66
1 1/4	3,709.85	1 1/4	4,072.59	1 1/4	4,432.81	1 1/4	4,776.60	1 1/4	5,112.12	1 1/4	5,382.12	1 1/4	5,652.12	1 1/4	5,912.12	1 1/4	6,172.12	1 1/4	6,432.12
1 1/2	3,717.41	1 1/2	4,080.14	1 1/2	4,440.15	1 1/2	4,783.53	1 1/2	5,119.58	1 1/2	5,385.58	1 1/2	5,655.58	1 1/2	5,915.58	1 1/2	6,175.58	1 1/2	6,435.58
3/4	3,724.97	3/4	4,087.70	3/4	4,447.49	3/4	4,790.46	3/4	5,127.04	3/4	5,393.04	3/4	5,663.04	3/4	5,923.04	3/4	6,183.04	3/4	6,443.04
4	3,732.52	4	4,095.26	4	4,454.84	4	4,797.40	4	5,134.50	4	5,400.50	4	5,670.50	4	5,930.50	4	6,190.50	4	6,450.50
1 1/4	3,740.08	1 1/4	4,102.81	1 1/4	4,462.18	1 1/4	4,804.33	1 1/4	5,141.96	1 1/4	5,407.96	1 1/4	5,677.96	1 1/4	5,937.96	1 1/4	6,197.96	1 1/4	6,457.96
1 1/2	3,747.64	1 1/2	4,110.37	1 1/2	4,469.49	1 1/2	4,811.23	1 1/2	5,149.42	1 1/2	5,415.42	1 1/2	5,685.42	1 1/2	5,945.42	1 1/2	6,205.42	1 1/2	6,465.42
3/4	3,755.20	3/4	4,117.93	3/4	4,476.80	3/4	4,818.13	3/4	5,156.87	3/4	5,422.87	3/4	5,692.87	3/4	5,952.87	3/4	6,212.87	3/4	6,472.87
5	3,762.75	5	4,125.48	5	4,484.10	5	4,825.03	5	5,164.33	5	5,430.33	5	5,696.33	5	5,956.33	5	6,216.33	5	6,476.33
1 1/4	3,770.31	1 1/4	4,133.04	1 1/4	4,491.41	1 1/4	4,831.92	1 1/4	5,171.79	1 1/4	5,437.79	1 1/4	5,703.79	1 1/4	5,963.79	1 1/4	6,223.79	1 1/4	6,483.79
1 1/2	3,777.87	1 1/2	4,140.60	1 1/2	4,498.69	1 1/2	4,838.79	1 1/2	5,179.11	1 1/2	5,445.11	1 1/2	5,711.11	1 1/2	5,971.11	1 1/2	6,231.11	1 1/2	6,491.11
3/4	3,785.42	3/4	4,148.15	3/4	4,505.97	3/4	4,845.65	3/4	5,186.43	3/4	5,452.43	3/4	5,718.43	3/4	5,978.43	3/4	6,238.43	3/4	6,498.43
6	3,792.98	6	4,155.71	6	4,513.25	6	4,852.52	6	5,193.75	6	5,459.75	6	5,725.75	6	5,985.75	6	6,245.75	6	6,505.75
1 1/4	3,800.54	1 1/4	4,163.27	1 1/4	4,520.53	1 1/4	4,859.38	1 1/4	5,201.08	1 1/4	5,467.08	1 1/4	5,733.08	1 1/4	5,993.08	1 1/4	6,253.08	1 1/4	6,513.08
1 1/2	3,808.09	1 1/2	4,170.83	1 1/2	4,527.77	1 1/2	4,866.22	1 1/2	5,207.41	1 1/2	5,475.41	1 1/2	5,741.41	1 1/2	5,991.41	1 1/2	6,251.41	1 1/2	6,511.41
3/4	3,815.65	3/4	4,178.38	3/4	4,535.02	3/4	4,873.05	3/4	5,213.75	3/4	5,481.75	3/4	5,747.75	3/4	6,007.75	3/4	6,267.75	3/4	6,527.75
7	3,823.21	7	4,185.94	7	4,542.27	7	4,879.89	7	5,220.08	7	5,488.08	7	5,754.08	7	6,014.08	7	6,274.08	7	6,534.08
1 1/4	3,830.76	1 1/4	4,193.50	1 1/4	4,549.52	1 1/4	4,886.72	1 1/4	5,226.42	1 1/4	5,494.42	1 1/4	5,760.42	1 1/4	6,020.42	1 1/4	6,280.42	1 1/4	6,540.42
1 1/2	3,838.32	1 1/2	4,201.05	1 1/2	4,556.73	1 1/2	4,893.53	1 1/2	5,231.54	1 1/2	5,500.54	1 1/2	5,766.54	1 1/2	6,026.54	1 1/2	6,286.54	1 1/2	6,546.54
3/4	3,845.88	3/4	4,208.61	3/4	4,563.95	3/4	4,900.33	3/4	5,236.66	3/4	5,505.66	3/4	5,771.66	3/4	6,031.66	3/4	6,291.66	3/4	6,551.66
8	3,853.44	8	4,216.17	8	4,571.16	8	4,907.14	8	5,241.78	8	5,510.78	8	5,776.78	8	6,036.78	8	6,296.78	8	6,556.78
1 1/4	3,860.99	1 1/4	4,223.72	1 1/4	4,578.38	1 1/4	4,913.94	1 1/4	5,246.90	1 1/4	5,515.90	1 1/4	5,781.90	1 1/4	6,037.90	1 1/4	6,297.90	1 1/4	6,557.90
1 1/2	3,868.55	1 1/2	4,231.27	1 1/2	4,585.56	1 1/2	4,920.71	1 1/2	5,251.11	1 1/2	5,520.11	1 1/2	5,786.11	1 1/2	6,042.11	1 1/2	6,302.11	1 1/2	6,562.11
3/4	3,876.11	3/4	4,238.82	3/4	4,592.74	3/4	4,927.49	3/4	5,256.11	3/4	5,525.11	3/4	5,791.11	3/4	6,047.11	3/4	6,307.11	3/4	6,567.11
9	3,883.66	9	4,246.38	9	4,599.92	9	4,934.26	9	5,260.42	9	5,529.42	9	5,795.42	9	6,051.42	9	6,311.42	9	6,571.42
1 1/4	3,891.22	1 1/4	4,253.93	1 1/4	4,607.10	1 1/4	4,941.04	1 1/4	5,265.42	1 1/4	5,534.42	1 1/4	5,800.42	1 1/4	6,056.42	1 1/4	6,316.42	1 1/4	6,576.42
1 1/2	3,898.78	1 1/2	4,261.46	1 1/2	4,614.25	1 1/2	4,947.78	1 1/2	5,270.42	1 1/2	5,539.42	1 1/2	5,805.42	1 1/2	6,061.42	1 1/2	6,321.42	1 1/2	6,581.42
3/4	3,906.33	3/4	4,268.99	3/4	4,621.40	3/4	4,954.52	3/4	5,275.42	3/4	5,544.42	3/4	5,810.42	3/4	6,066.42	3/4	6,326.42	3/4	6,586.42
10	3,913.89	10	4,276.53	10	4,628.55	10	4,961.26	10	5,280.42	10	5,549.42	10	5,815.42	10	6,071.42	10	6,331.42	10	6,591.42
1 1/4	3,921.45	1 1/4	4,284.06	1 1/4	4,635.70	1 1/4	4,968.01	1 1/4	5,285.42	1 1/4	5,554.42	1 1/4	5,820.42	1 1/4	6,076.42	1 1/4	6,336.42	1 1/4	6,596.42
1 1/2	3,929.00	1 1/2	4,291.56	1 1/2	4,642.82	1 1/2	4,974.72	1 1/2	5,290.42	1 1/2	5,559.42	1 1/2	5,825.42	1 1/2	6,081.42	1 1/2	6,341.42	1 1/2	6,601.42
3/4	3,936.56	3/4	4,299.12	3/4	4,649.94	3/4	4,981.42	3/4	5,295.42	3/4	5,564.42	3/4	5,830.42	3/4	6,086.42	3/4	6,346.42	3/4	6,606.42
11	3,944.12	11	4,306.56	11	4,657.06	11	4,988.13	11	5,300.42	11	5,569.42	11	5,835.42	11	6,091.42	11	6,351.42	11	6,611.42
1 1/4	3,951.67	1 1/4	4,314.06	1 1/4	4,664.18	1 1/4	4,994.84	1 1/4	5,305.42	1 1/4	5,574.42	1 1/4	5,840.42	1 1/4	6,096.42	1 1/4	6,356.42	1 1/4	6,616.42
1 1/2	3,959.23	1 1/2	4,321.53	1 1/2	4,671.27	1 1/2	5,001.84	1 1/2	5,310.42	1 1/2	5,579.42	1 1/2	5,845.42	1 1/2	6,101.42	1 1/2	6,361.42	1 1/2	6,621.42
3/4	3,966.79	3/4	4,329.06	3/4	4,678.36	3/4	5,008.84	3/4	5,315.42	3/4	5,584.42	3/4	5,850.42	3/4	6,106.42	3/4	6,366.42	3/4	6,626.42
12	3,974.35	12	4,336.47	12	4,685.45	12	5,015.83	12	5,320.42	12	5,589.42	12	5,855.42	12	6,111.42	12	6,371.42	12	6,631.42

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*Joe J. Jarama*





# BARGE "EMS 511"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			15'-08 1/4"		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	21.40	0	355.49	0	717.04	0	1,078.68	0	1,440.29	0	1,803.10	0	2,165.92	0	2,528.74	0	2,891.27	0	3,253.95	0	3,616.63	0	3,979.31	0	4,341.99	0	4,704.67	0	5,067.35
1/4	25.64	1/4	362.90	1/4	724.60	1/4	1,086.19	1/4	1,447.84	1/4	1,810.66	1/4	2,173.48	1/4	2,536.30	1/4	2,899.12	1/4	3,261.94	1/4	3,624.76	1/4	3,987.58	1/4	4,350.40	1/4	4,713.22	1/4	5,076.04
1/2	29.87	1/2	370.31	1/2	732.16	1/2	1,093.70	1/2	1,455.40	1/2	1,818.22	1/2	2,181.04	1/2	2,543.86	1/2	2,906.68	1/2	3,269.50	1/2	3,632.32	1/2	3,995.14	1/2	4,357.96	1/2	4,720.78	1/2	5,083.60
3/4	34.11	3/4	377.72	3/4	739.72	3/4	1,101.21	3/4	1,462.96	3/4	1,825.78	3/4	2,188.60	3/4	2,551.41	3/4	2,914.24	3/4	3,277.06	3/4	3,639.88	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
1	38.35	1	385.13	1	747.28	1	1,108.71	1	1,470.52	1	1,833.34	1	2,196.16	1	2,558.97	1	2,921.49	1	3,284.61	1	3,647.43	1	3,999.70	1	4,359.52	1	4,719.34	1	5,079.16
1/4	43.84	1/4	392.54	1/4	754.83	1/4	1,116.22	1/4	1,478.08	1/4	1,840.90	1/4	2,203.71	1/4	2,566.53	1/4	2,929.05	1/4	3,291.73	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	49.34	1/2	399.95	1/2	762.39	1/2	1,123.73	1/2	1,485.64	1/2	1,848.46	1/2	2,211.27	1/2	2,574.09	1/2	2,936.61	1/2	3,299.29	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	54.84	3/4	407.37	3/4	769.95	3/4	1,131.23	3/4	1,493.20	3/4	1,856.01	3/4	2,218.83	3/4	2,581.65	3/4	2,944.16	3/4	3,306.84	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
2	60.33	2	414.78	2	777.51	2	1,138.74	2	1,500.75	2	1,863.57	2	2,226.39	2	2,589.21	2	2,951.72	2	3,314.40	2	3,654.99	2	3,999.70	2	4,359.52	2	4,719.34	2	5,079.16
1/4	67.09	1/4	422.32	1/4	785.07	1/4	1,146.25	1/4	1,508.31	1/4	1,871.13	1/4	2,233.95	1/4	2,596.77	1/4	2,959.27	1/4	3,321.96	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	73.84	1/2	429.86	1/2	792.63	1/2	1,153.75	1/2	1,515.87	1/2	1,838.69	1/2	2,241.51	1/2	2,604.33	1/2	2,967.15	1/2	3,329.51	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	80.60	3/4	437.40	3/4	800.19	3/4	1,161.26	3/4	1,523.43	3/4	1,868.25	3/4	2,249.07	3/4	2,611.88	3/4	2,974.70	3/4	3,337.07	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
3	87.36	3	444.94	3	807.74	3	1,168.77	3	1,530.99	3	1,893.81	3	2,256.62	3	2,619.44	3	2,981.94	3	3,344.62	3	3,654.99	3	3,999.70	3	4,359.52	3	4,719.34	3	5,079.16
1/4	94.82	1/4	452.49	1/4	815.30	1/4	1,176.28	1/4	1,538.55	1/4	1,901.37	1/4	2,264.18	1/4	2,626.99	1/4	2,989.50	1/4	3,352.18	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	102.29	1/2	460.05	1/2	822.86	1/2	1,183.78	1/2	1,546.11	1/2	1,908.92	1/2	2,271.74	1/2	2,634.56	1/2	2,997.05	1/2	3,359.74	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	109.75	3/4	467.61	3/4	830.42	3/4	1,191.29	3/4	1,553.67	3/4	1,916.48	3/4	2,279.30	3/4	2,642.12	3/4	3,004.61	3/4	3,367.29	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
4	117.22	4	475.17	4	837.98	4	1,198.80	4	1,561.22	4	1,924.04	4	2,286.86	4	2,649.68	4	3,012.16	4	3,374.85	4	3,654.99	4	3,999.70	4	4,359.52	4	4,719.34	4	5,079.16
1/4	124.76	1/4	482.73	1/4	845.54	1/4	1,206.30	1/4	1,568.78	1/4	1,931.60	1/4	2,294.42	1/4	2,657.22	1/4	3,019.72	1/4	3,382.40	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	132.30	1/2	490.29	1/2	853.09	1/2	1,213.81	1/2	1,576.34	1/2	1,939.16	1/2	2,301.98	1/2	2,664.77	1/2	3,027.28	1/2	3,389.96	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	139.85	3/4	497.85	3/4	860.65	3/4	1,221.32	3/4	1,583.90	3/4	1,946.72	3/4	2,309.54	3/4	2,672.31	3/4	3,034.83	3/4	3,397.52	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
5	147.39	5	505.40	5	868.21	5	1,228.82	5	1,591.46	5	1,961.84	5	2,317.09	5	2,679.86	5	3,042.39	5	3,405.07	5	3,654.99	5	3,999.70	5	4,359.52	5	4,719.34	5	5,079.16
1/4	154.93	1/4	512.96	1/4	875.77	1/4	1,236.34	1/4	1,599.02	1/4	1,968.24	1/4	2,324.65	1/4	2,687.40	1/4	3,048.94	1/4	3,412.63	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	162.48	1/2	520.52	1/2	883.33	1/2	1,243.86	1/2	1,606.58	1/2	1,969.39	1/2	2,332.21	1/2	2,694.94	1/2	3,057.50	1/2	3,420.18	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	170.02	3/4	528.08	3/4	890.89	3/4	1,251.38	3/4	1,614.14	3/4	1,976.95	3/4	2,339.77	3/4	2,702.49	3/4	3,065.06	3/4	3,427.74	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
6	177.56	6	535.64	6	898.45	6	1,258.90	6	1,621.69	6	1,984.51	6	2,347.33	6	2,710.03	6	3,072.61	6	3,435.28	6	3,654.99	6	3,999.70	6	4,359.52	6	4,719.34	6	5,079.16
1/4	184.99	1/4	543.20	1/4	905.97	1/4	1,266.45	1/4	1,629.25	1/4	1,992.07	1/4	2,354.89	1/4	2,717.58	1/4	3,080.17	1/4	3,442.85	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	192.42	1/2	550.76	1/2	913.49	1/2	1,274.00	1/2	1,636.81	1/2	1,998.63	1/2	2,362.45	1/2	2,725.12	1/2	3,087.72	1/2	3,450.41	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	199.85	3/4	558.31	3/4	921.02	3/4	1,281.56	3/4	1,644.37	3/4	2,007.19	3/4	2,370.01	3/4	2,732.66	3/4	3,095.28	3/4	3,457.96	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
7	207.27	7	565.87	7	928.54	7	1,289.11	7	1,651.93	7	2,014.75	7	2,377.56	7	2,740.21	7	3,102.84	7	3,465.52	7	3,654.99	7	3,999.70	7	4,359.52	7	4,719.34	7	5,079.16
1/4	214.68	1/4	573.43	1/4	936.05	1/4	1,296.67	1/4	1,659.49	1/4	2,022.31	1/4	2,385.12	1/4	2,747.75	1/4	3,110.39	1/4	3,473.07	1/4	3,654.99	1/4	3,999.70	1/4	4,359.52	1/4	4,719.34	1/4	5,079.16
1/2	222.10	1/2	580.99	1/2	943.56	1/2	1,304.23	1/2	1,667.05	1/2	2,029.86	1/2	2,392.68	1/2	2,755.29	1/2	3,117.95	1/2	3,480.63	1/2	3,654.99	1/2	3,999.70	1/2	4,359.52	1/2	4,719.34	1/2	5,079.16
3/4	229.51	3/4	588.55	3/4	951.06	3/4	1,311.79	3/4	1,674.60	3/4	2,037.42	3/4	2,400.24	3/4	2,762.84	3/4	3,125.50	3/4	3,488.19	3/4	3,654.99	3/4	3,999.70	3/4	4,359.52	3/4	4,719.34	3/4	5,079.16
8	236.92	8	596.11	8	958.57	8	1,319.35	8	1,682.16	8	2,044.98	8	2,407.80	8	2,770.38	8	3,133.06	8	3,495.74	8	3,654.99	8	3,999.70	8	4,359.52	8	4,719.34	8	5,079.16
1/4	244.33	1/4	603.66	1/4	966.08	1/4	1,326.90	1/4	1,689.72	1/4	2,052.54	1/4	2,415.36	1/4	2,777.94														



# BARGE "EMS 511"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	3,616.64	1/4	3,978.32	1/4	4,341.32	1/4	4,688.88	1/4	5,020.13	1/4	5,341.32	1/4	5,658.88	1/4	5,970.13	1/4	6,281.32	1/4	6,592.57
1/2	3,624.19	1/2	3,986.88	1/2	4,348.76	1/2	4,696.94	1/2	5,027.53	1/2	5,348.76	1/2	5,666.88	1/2	5,988.03	1/2	6,300.19	1/2	6,611.44
3/4	3,631.75	3/4	3,994.43	3/4	4,356.19	3/4	4,703.99	3/4	5,034.94	3/4	5,356.19	3/4	5,674.43	3/4	5,996.58	3/4	6,312.75	3/4	6,623.99
1	3,639.30	1	4,001.99	1	4,363.63	1	4,711.05	1	5,039.30	1	5,363.63	1	5,681.99	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,646.86	1/4	4,009.54	1/4	4,371.06	1/4	4,718.10	1/4	5,049.75	1/4	5,371.06	1/4	5,689.54	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,654.42	1/2	4,017.10	1/2	4,378.47	1/2	4,725.10	1/2	5,057.21	1/2	5,378.47	1/2	5,697.10	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,661.97	3/4	4,024.65	3/4	4,385.87	3/4	4,732.09	3/4	5,064.66	3/4	5,385.87	3/4	5,704.65	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,669.53	1	4,032.21	1	4,393.28	1	4,739.09	1	5,072.12	1	5,393.28	1	5,712.12	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,677.08	1/4	4,039.77	1/4	4,400.69	1/4	4,746.09	1/4	5,079.58	1/4	5,399.58	1/4	5,719.09	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,684.64	1/2	4,047.32	1/2	4,408.06	1/2	4,753.05	1/2	5,087.04	1/2	5,408.06	1/2	5,726.05	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,692.20	3/4	4,054.88	3/4	4,415.44	3/4	4,760.01	3/4	5,094.49	3/4	5,415.44	3/4	5,735.50	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,699.75	1	4,062.43	1	4,422.81	1	4,766.97	1	5,101.95	1	5,422.81	1	5,743.01	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,707.31	1/4	4,069.99	1/4	4,430.19	1/4	4,773.93	1/4	5,108.41	1/4	5,430.19	1/4	5,749.99	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,714.86	1/2	4,077.55	1/2	4,437.53	1/2	4,780.86	1/2	5,116.87	1/2	5,437.53	1/2	5,757.55	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,722.42	3/4	4,085.10	3/4	4,444.87	3/4	4,787.79	3/4	5,124.32	3/4	5,444.87	3/4	5,765.10	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,729.97	1	4,092.66	1	4,452.21	1	4,794.73	1	5,131.78	1	5,452.21	1	5,772.66	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,737.53	1/4	4,100.21	1/4	4,459.55	1/4	4,801.66	1/4	5,139.24	1/4	5,459.55	1/4	5,779.16	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,745.09	1/2	4,107.77	1/2	4,466.86	1/2	4,808.56	1/2	5,146.70	1/2	5,466.86	1/2	5,786.66	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,752.64	3/4	4,115.33	3/4	4,474.17	3/4	4,815.45	3/4	5,154.16	3/4	5,474.17	3/4	5,794.17	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,760.20	1	4,122.88	1	4,481.48	1	4,822.35	1	5,161.61	1	5,481.48	1	5,801.66	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,767.75	1/4	4,130.44	1/4	4,488.78	1/4	4,829.25	1/4	5,169.07	1/4	5,488.78	1/4	5,809.25	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,775.31	1/2	4,137.99	1/2	4,496.06	1/2	4,836.11	1/2	5,176.39	1/2	5,496.06	1/2	5,816.66	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,782.87	3/4	4,145.55	3/4	4,503.34	3/4	4,842.98	3/4	5,183.71	3/4	5,503.34	3/4	5,826.66	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,790.42	1	4,153.11	1	4,510.62	1	4,849.84	1	5,191.03	1	5,510.62	1	5,834.11	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,797.98	1/4	4,160.66	1/4	4,517.89	1/4	4,856.71	1/4	5,198.34	1/4	5,517.89	1/4	5,841.66	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,805.53	1/2	4,168.22	1/2	4,525.14	1/2	4,863.54	1/2	5,204.68	1/2	5,525.14	1/2	5,848.22	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,813.09	3/4	4,175.77	3/4	4,532.39	3/4	4,870.37	3/4	5,211.01	3/4	5,532.39	3/4	5,855.77	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,820.65	1	4,183.33	1	4,539.63	1	4,877.21	1	5,217.35	1	5,539.63	1	5,863.11	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,828.20	1/4	4,190.88	1/4	4,546.88	1/4	4,884.04	1/4	5,223.68	1/4	5,546.88	1/4	5,869.58	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,835.76	1/2	4,198.44	1/2	4,554.10	1/2	4,890.84	1/2	5,228.80	1/2	5,554.10	1/2	5,875.12	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,843.31	3/4	4,206.00	3/4	4,561.31	3/4	4,897.65	3/4	5,233.92	3/4	5,561.31	3/4	5,880.66	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,850.87	1	4,213.55	1	4,568.52	1	4,904.45	1	5,239.04	1	5,568.52	1	5,886.11	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,858.43	1/4	4,221.11	1/4	4,575.74	1/4	4,911.25	1/4	5,244.16	1/4	5,575.74	1/4	5,891.66	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,865.98	1/2	4,228.66	1/2	4,582.92	1/2	4,918.03	1/2	5,249.28	1/2	5,582.92	1/2	5,896.66	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,873.54	3/4	4,236.22	3/4	4,590.10	3/4	4,924.80	3/4	5,254.40	3/4	5,590.10	3/4	5,901.77	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,881.09	1	4,243.77	1	4,597.28	1	4,931.57	1	5,259.52	1	5,597.28	1	5,906.89	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,888.65	1/4	4,251.33	1/4	4,604.46	1/4	4,938.35	1/4	5,264.64	1/4	5,604.46	1/4	5,912.01	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,896.20	1/2	4,258.86	1/2	4,611.60	1/2	4,945.09	1/2	5,269.76	1/2	5,611.60	1/2	5,917.12	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,903.76	3/4	4,266.39	3/4	4,618.75	3/4	4,951.83	3/4	5,274.88	3/4	5,618.75	3/4	5,922.24	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,911.32	1	4,273.92	1	4,625.90	1	4,958.57	1	5,279.99	1	5,625.90	1	5,927.31	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,918.87	1/4	4,281.46	1/4	4,633.05	1/4	4,965.31	1/4	5,285.11	1/4	5,633.05	1/4	5,932.42	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,926.43	1/2	4,288.96	1/2	4,640.17	1/2	4,972.02	1/2	5,290.22	1/2	5,640.17	1/2	5,937.54	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,933.98	3/4	4,296.46	3/4	4,647.29	3/4	4,978.73	3/4	5,295.33	3/4	5,647.29	3/4	5,942.66	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,941.54	1	4,303.96	1	4,654.41	1	4,985.44	1	5,300.44	1	5,654.41	1	5,947.77	1	5,999.30	1	6,317.60	1	6,631.54
1/4	3,949.10	1/4	4,311.46	1/4	4,661.53	1/4	4,992.14	1/4	5,305.55	1/4	5,661.53	1/4	5,952.89	1/4	5,999.30	1/4	6,317.60	1/4	6,631.54
1/2	3,956.65	1/2	4,318.92	1/2	4,668.62	1/2	4,999.14	1/2	5,310.66	1/2	5,668.62	1/2	5,957.99	1/2	5,999.30	1/2	6,317.60	1/2	6,631.54
3/4	3,964.21	3/4	4,326.39	3/4	4,675.70	3/4	5,006.14	3/4	5,315.77	3/4	5,675.70	3/4	5,963.11	3/4	5,999.30	3/4	6,317.60	3/4	6,631.54
1	3,971.76	1	4,333.86	1	4,682.79	1	5,013.13	1	5,320.88	1	5,682.79	1	5,968.22	1	5,999.30	1	6,317.60	1	6,631.54

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 01/04/2019 CL  
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*Joe J. J. J.*





# BARGE "EMS 511"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	
0	21.34	0	354.48	0	715.01	0	1,076.57	0	1,438.12	0	1,799.92	0	2,161.72	0	2,523.52	0	2,885.22	0	3,246.89	0	3,608.69	0	3,970.49	0	4,332.29	0	4,694.09	0	
1/4	25.56	1/4	361.87	1/4	722.55	1/4	1,084.09	1/4	1,445.65	1/4	1,807.45	1/4	2,169.25	1/4	2,531.05	1/4	2,892.85	1/4	3,254.65	1/4	3,616.45	1/4	3,978.25	1/4	4,340.05	1/4	4,701.85	1/4	
1/2	29.79	1/2	369.26	1/2	730.09	1/2	1,091.62	1/2	1,453.18	1/2	1,814.99	1/2	2,176.79	1/2	2,538.59	1/2	2,900.39	1/2	3,262.19	1/2	3,623.99	1/2	3,985.79	1/2	4,347.59	1/2	4,709.39	1/2	
3/4	34.02	3/4	376.65	3/4	737.62	3/4	1,099.14	3/4	1,460.73	3/4	1,822.53	3/4	2,184.33	3/4	2,546.13	3/4	2,907.93	3/4	3,269.73	3/4	3,631.53	3/4	3,993.33	3/4	4,355.13	3/4	4,716.93	3/4	
1	38.24	1	384.04	1	745.16	1	1,106.67	1	1,468.27	1	1,830.07	1	2,191.87	1	2,553.67	1	2,915.47	1	3,277.27	1	3,639.07	1	3,999.07	1	4,361.07	1	4,723.07	1	
1/4	43.72	1/4	391.43	1/4	752.70	1/4	1,114.19	1/4	1,475.80	1/4	1,837.60	1/4	2,199.40	1/4	2,561.20	1/4	2,923.00	1/4	3,284.80	1/4	3,646.60	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	49.20	1/2	398.82	1/2	760.24	1/2	1,121.72	1/2	1,483.34	1/2	1,845.14	1/2	2,206.94	1/2	2,568.74	1/2	2,930.54	1/2	3,292.34	1/2	3,654.14	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	54.68	3/4	406.21	3/4	767.77	3/4	1,129.24	3/4	1,490.88	3/4	1,852.68	3/4	2,214.48	3/4	2,576.28	3/4	2,938.08	3/4	3,299.88	3/4	3,661.68	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
2	60.16	2	413.60	2	775.31	2	1,136.77	2	1,498.42	2	1,860.22	2	2,222.02	2	2,583.82	2	2,945.62	2	3,307.42	2	3,669.22	2	3,999.02	2	4,361.02	2	4,723.02	2	
1/4	66.90	1/4	421.12	1/4	782.85	1/4	1,144.29	1/4	1,505.95	1/4	1,867.75	1/4	2,229.55	1/4	2,591.35	1/4	2,953.15	1/4	3,314.95	1/4	3,676.75	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	73.64	1/2	428.63	1/2	790.38	1/2	1,151.82	1/2	1,513.49	1/2	1,875.29	1/2	2,237.09	1/2	2,598.89	1/2	2,960.69	1/2	3,322.49	1/2	3,684.29	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	80.37	3/4	436.15	3/4	797.92	3/4	1,159.35	3/4	1,521.03	3/4	1,882.83	3/4	2,244.63	3/4	2,606.43	3/4	2,968.23	3/4	3,330.03	3/4	3,691.83	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
3	87.11	3	443.67	3	805.46	3	1,166.87	3	1,528.57	3	1,890.37	3	2,252.17	3	2,613.97	3	2,975.77	3	3,337.57	3	3,699.37	3	3,999.00	3	4,361.00	3	4,723.00	3	
1/4	94.55	1/4	451.21	1/4	813.00	1/4	1,174.40	1/4	1,536.10	1/4	1,897.90	1/4	2,259.70	1/4	2,621.50	1/4	2,983.30	1/4	3,345.10	1/4	3,706.90	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	102.00	1/2	458.75	1/2	820.53	1/2	1,181.92	1/2	1,543.64	1/2	1,905.44	1/2	2,267.24	1/2	2,629.04	1/2	2,990.84	1/2	3,352.64	1/2	3,714.44	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	109.44	3/4	466.28	3/4	828.07	3/4	1,189.45	3/4	1,551.18	3/4	1,912.98	3/4	2,274.78	3/4	2,636.58	3/4	2,998.38	3/4	3,360.18	3/4	3,721.98	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
4	116.89	4	473.82	4	835.61	4	1,196.97	4	1,558.72	4	1,920.52	4	2,282.32	4	2,644.12	4	3,005.92	4	3,367.72	4	3,729.52	4	3,999.00	4	4,361.00	4	4,723.00	4	
1/4	124.41	1/4	481.36	1/4	843.14	1/4	1,204.50	1/4	1,566.25	1/4	1,928.05	1/4	2,290.05	1/4	2,651.85	1/4	2,983.65	1/4	3,345.45	1/4	3,707.25	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	131.93	1/2	488.90	1/2	850.68	1/2	1,212.02	1/2	1,573.79	1/2	1,935.59	1/2	2,297.39	1/2	2,659.19	1/2	2,990.99	1/2	3,352.79	1/2	3,714.59	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	139.45	3/4	496.43	3/4	858.22	3/4	1,219.55	3/4	1,581.33	3/4	1,943.13	3/4	2,304.93	3/4	2,666.73	3/4	2,998.53	3/4	3,360.33	3/4	3,722.13	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
5	146.98	5	503.97	5	865.76	5	1,227.07	5	1,588.87	5	1,950.67	5	2,312.47	5	2,674.27	5	3,036.07	5	3,397.87	5	3,759.67	5	3,999.00	5	4,361.00	5	4,723.00	5	
1/4	154.50	1/4	511.51	1/4	873.29	1/4	1,234.61	1/4	1,596.40	1/4	1,968.20	1/4	2,320.00	1/4	2,681.80	1/4	3,043.45	1/4	3,405.12	1/4	3,767.22	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	162.02	1/2	519.04	1/2	880.83	1/2	1,242.14	1/2	1,603.94	1/2	1,965.74	1/2	2,327.54	1/2	2,689.34	1/2	3,051.14	1/2	3,412.94	1/2	3,774.74	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	169.54	3/4	526.58	3/4	888.37	3/4	1,249.68	3/4	1,611.48	3/4	1,973.28	3/4	2,335.08	3/4	2,696.88	3/4	3,058.68	3/4	3,420.48	3/4	3,782.28	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
6	177.07	6	534.12	6	895.90	6	1,257.22	6	1,619.02	6	1,980.82	6	2,342.62	6	2,704.39	6	3,066.06	6	3,427.73	6	3,789.53	6	3,999.00	6	4,361.00	6	4,723.00	6	
1/4	184.47	1/4	541.66	1/4	903.44	1/4	1,264.75	1/4	1,626.55	1/4	1,988.35	1/4	2,350.15	1/4	2,711.92	1/4	3,073.59	1/4	3,435.26	1/4	3,797.26	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	191.88	1/2	549.19	1/2	910.98	1/2	1,272.29	1/2	1,634.09	1/2	1,995.89	1/2	2,357.69	1/2	2,719.46	1/2	3,081.13	1/2	3,442.80	1/2	3,804.47	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	199.28	3/4	556.73	3/4	918.52	3/4	1,279.83	3/4	1,641.63	3/4	2,003.43	3/4	2,365.23	3/4	2,726.99	3/4	3,088.66	3/4	3,450.33	3/4	3,812.13	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
7	206.69	7	564.27	7	926.05	7	1,287.37	7	1,649.17	7	2,010.97	7	2,372.77	7	2,734.53	7	3,096.20	7	3,457.87	7	3,819.67	7	3,999.00	7	4,361.00	7	4,723.00	7	
1/4	214.08	1/4	571.81	1/4	933.58	1/4	1,294.90	1/4	1,656.70	1/4	2,018.50	1/4	2,380.30	1/4	2,742.10	1/4	3,103.90	1/4	3,465.40	1/4	3,827.20	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	221.47	1/2	579.34	1/2	941.11	1/2	1,302.44	1/2	1,664.24	1/2	2,026.04	1/2	2,387.84	1/2	2,749.64	1/2	3,111.27	1/2	3,473.24	1/2	3,835.04	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4	228.86	3/4	586.88	3/4	948.63	3/4	1,309.98	3/4	1,671.78	3/4	2,033.58	3/4	2,395.38	3/4	2,757.18	3/4	3,118.80	3/4	3,480.47	3/4	3,842.27	3/4	3,999.00	3/4	4,361.00	3/4	4,723.00	3/4	
8	236.25	8	594.42	8	956.16	8	1,317.52	8	1,679.32	8	2,041.12	8	2,402.92	8	2,764.67	8	3,126.34	8	3,488.01	8	3,850.01	8	3,999.00	8	4,361.00	8	4,723.00	8	
1/4	243.64	1/4	601.95	1/4	963.69	1/4	1,325.05	1/4	1,686.85	1/4	2,048.65	1/4	2,410.45	1/4	2,772.25	1/4	3,133.87	1/4	3,495.54	1/4	3,857.34	1/4	3,999.00	1/4	4,361.00	1/4	4,723.00	1/4	
1/2	251.03	1/2	609.49	1/2	971.21	1/2	1,332.59	1/2	1,694.39	1/2	2,056.19	1/2	2,417.99	1/2	2,779.79	1/2	3,141.41	1/2	3,503.08	1/2	3,864.88	1/2	3,999.00	1/2	4,361.00	1/2	4,723.00	1/2	
3/4																													



# BARGE "EMS 511"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,608.56	0	3,970.23	0	4,331.20	0	4,678.78	0	5,008.09	0									
1/4	3,616.10	1/4	3,977.77	1/4	4,338.61	1/4	4,685.82	1/4	5,015.48	1/4								1/4	
1/2	3,623.63	1/2	3,985.30	1/2	4,346.03	1/2	4,692.85	1/2	5,022.86	1/2								1/2	
3/4	3,631.17	3/4	3,992.84	3/4	4,353.44	3/4	4,699.89	3/4	5,030.25	3/4								3/4	
1	3,638.70	1	4,000.37	1	4,360.86	1	4,706.92	1	5,037.63	1								1	
1/4	3,646.24	1/4	4,007.91	1/4	4,368.24	1/4	4,713.90	1/4	5,045.07	1/4								1/4	
1/2	3,653.77	1/2	4,015.44	1/2	4,375.63	1/2	4,720.87	1/2	5,052.50	1/2								1/2	
3/4	3,661.31	3/4	4,022.98	3/4	4,383.01	3/4	4,727.85	3/4	5,059.94	3/4								3/4	
2	3,668.84	2	4,030.51	2	4,390.40	2	4,734.83	2	5,067.38	2								2	
1/4	3,676.38	1/4	4,038.05	1/4	4,397.75	1/4	4,741.77	1/4	5,074.81	1/4								1/4	
1/2	3,683.91	1/2	4,045.58	1/2	4,405.11	1/2	4,748.71	1/2	5,082.25	1/2								1/2	
3/4	3,691.45	3/4	4,053.12	3/4	4,412.46	3/4	4,755.65	3/4	5,089.68	3/4								3/4	
3	3,698.98	3	4,060.65	3	4,419.82	3	4,762.59	3	5,097.12	3								3	
1/4	3,706.52	1/4	4,068.19	1/4	4,427.14	1/4	4,768.51	1/4	5,104.56	1/4								1/4	
1/2	3,714.05	1/2	4,075.72	1/2	4,434.46	1/2	4,776.42	1/2	5,111.99	1/2								1/2	
3/4	3,721.59	3/4	4,083.26	3/4	4,441.78	3/4	4,783.33	3/4	5,119.43	3/4								3/4	
4	3,729.12	4	4,090.79	4	4,449.10	4	4,790.24	4	5,126.87	4								4	
1/4	3,736.66	1/4	4,098.33	1/4	4,456.39	1/4	4,797.12	1/4	5,134.30	1/4								1/4	
1/2	3,744.19	1/2	4,105.86	1/2	4,463.67	1/2	4,804.00	1/2	5,141.74	1/2								1/2	
3/4	3,751.73	3/4	4,113.40	3/4	4,470.96	3/4	4,810.88	3/4	5,149.18	3/4								3/4	
5	3,759.26	5	4,120.93	5	4,478.25	5	4,817.76	5	5,156.61	5								5	
1/4	3,766.80	1/4	4,128.47	1/4	4,485.51	1/4	4,824.60	1/4	5,163.91	1/4								1/4	
1/2	3,774.33	1/2	4,136.00	1/2	4,492.76	1/2	4,831.45	1/2	5,171.21	1/2								1/2	
3/4	3,781.86	3/4	4,143.54	3/4	4,500.02	3/4	4,838.29	3/4	5,178.51	3/4								3/4	
6	3,789.40	6	4,151.07	6	4,507.28	6	4,845.13	6	5,185.81	6								6	
1/4	3,796.93	1/4	4,158.60	1/4	4,514.50	1/4	4,851.95	1/4	5,192.13	1/4								1/4	
1/2	3,804.47	1/2	4,166.14	1/2	4,521.73	1/2	4,858.76	1/2	5,198.45	1/2								1/2	
3/4	3,812.00	3/4	4,173.67	3/4	4,528.96	3/4	4,865.58	3/4	5,204.76	3/4								3/4	
7	3,819.54	7	4,181.21	7	4,536.18	7	4,872.39	7	5,211.08	7								7	
1/4	3,827.07	1/4	4,188.74	1/4	4,543.38	1/4	4,879.18	1/4	5,216.19	1/4								1/4	
1/2	3,834.61	1/2	4,196.28	1/2	4,550.57	1/2	4,885.96	1/2	5,221.29	1/2								1/2	
3/4	3,842.14	3/4	4,203.81	3/4	4,557.76	3/4	4,892.74	3/4	5,226.40	3/4								3/4	
8	3,849.68	8	4,211.35	8	4,564.96	8	4,899.53	8	5,231.50	8								8	
1/4	3,857.21	1/4	4,218.88	1/4	4,572.12	1/4	4,906.28	1/4		1/4								1/4	
1/2	3,864.75	1/2	4,226.40	1/2	4,579.27	1/2	4,913.04	1/2		1/2								1/2	
3/4	3,872.28	3/4	4,233.93	3/4	4,586.43	3/4	4,919.79	3/4		3/4								3/4	
9	3,879.82	9	4,241.46	9	4,593.59	9	4,926.54	9		9								9	
1/4	3,887.35	1/4	4,248.97	1/4	4,600.72	1/4	4,933.27	1/4		1/4								1/4	
1/2	3,894.89	1/2	4,256.48	1/2	4,607.85	1/2	4,939.99	1/2		1/2								1/2	
3/4	3,902.42	3/4	4,263.99	3/4	4,614.98	3/4	4,946.71	3/4		3/4								3/4	
10	3,909.96	10	4,271.50	10	4,622.11	10	4,953.43	10		10								10	
1/4	3,917.49	1/4	4,278.98	1/4	4,629.21	1/4	4,960.12	1/4		1/4								1/4	
1/2	3,925.03	1/2	4,286.46	1/2	4,636.31	1/2	4,966.81	1/2		1/2								1/2	
3/4	3,932.56	3/4	4,293.94	3/4	4,643.41	3/4	4,973.50	3/4		3/4								3/4	
11	3,940.10	11	4,301.42	11	4,650.50	11	4,980.19	11		11								11	
1/4	3,947.63	1/4	4,308.86	1/4	4,657.57	1/4	4,987.17	1/4		1/4								1/4	
1/2	3,955.17	1/2	4,316.31	1/2	4,664.64	1/2	4,994.14	1/2		1/2								1/2	
3/4	3,962.70	3/4	4,323.75	3/4	4,671.71	3/4	5,001.12	3/4		3/4								3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*P. J. Mac*





# BARGE "EMS 511"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			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.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	
0	21.35	0	354.68	0	715.42	0	1,069.39	0	1,423.03	0	1,785.03	0	2,147.04	0	2,509.05	0	2,869.25	0	3,231.12	0	3,592.59	0	3,954.52	0	4,316.45	0	4,678.38	0	
1/4	25.58	1/4	362.08	1/4	722.96	1/4	1,076.59	1/4	1,430.57	1/4	1,792.58	1/4	2,154.58	1/4	2,516.59	1/4	2,876.79	1/4	3,236.66	1/4	3,597.59	1/4	3,958.52	1/4	4,319.45	1/4	4,680.38	1/4	
1/2	29.81	1/2	369.47	1/2	730.50	1/2	1,083.79	1/2	1,438.11	1/2	1,800.12	1/2	2,162.12	1/2	2,524.13	1/2	2,884.32	1/2	3,244.20	1/2	3,604.69	1/2	3,965.12	1/2	4,325.55	1/2	4,686.48	1/2	
3/4	34.03	3/4	376.86	3/4	738.04	3/4	1,090.99	3/4	1,445.65	3/4	1,807.66	3/4	2,169.67	3/4	2,531.67	3/4	2,891.86	3/4	3,251.74	3/4	3,612.21	3/4	3,972.64	3/4	4,333.07	3/4	4,693.50	3/4	
1	38.26	1	384.26	1	745.58	1	1,098.18	1	1,453.20	1	1,815.20	1	2,177.21	1	2,539.21	1	2,899.40	1	3,259.89	1	3,620.38	1	3,980.87	1	4,341.30	1	4,701.73	1	
1 1/4	43.75	1 1/4	391.65	1 1/4	753.13	1 1/4	1,105.38	1 1/4	1,460.74	1 1/4	1,822.74	1 1/4	2,184.75	1 1/4	2,546.76	1 1/4	2,906.94	1 1/4	3,267.41	1 1/4	3,627.89	1 1/4	3,988.32	1 1/4	4,348.75	1 1/4	4,709.18	1 1/4	
1 1/2	49.23	1 1/2	399.05	1 1/2	760.67	1 1/2	1,112.58	1 1/2	1,468.28	1 1/2	1,830.29	1 1/2	2,192.29	1 1/2	2,554.30	1 1/2	2,914.48	1 1/2	3,274.95	1 1/2	3,635.42	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	54.71	3/4	406.44	3/4	769.21	3/4	1,119.78	3/4	1,475.82	3/4	1,837.83	3/4	2,199.83	3/4	2,561.84	3/4	2,923.92	3/4	3,284.39	3/4	3,644.86	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
2	60.20	2	413.83	2	775.75	2	1,126.98	2	1,483.36	2	1,845.37	2	2,207.38	2	2,569.38	2	2,929.56	2	3,290.03	2	3,650.50	2	3,995.85	2	4,356.28	2	4,716.71	2	
1 1/4	66.94	1 1/4	421.36	1 1/4	783.29	1 1/4	1,134.18	1 1/4	1,490.90	1 1/4	1,852.91	1 1/4	2,214.92	1 1/4	2,576.92	1 1/4	2,937.10	1 1/4	3,297.57	1 1/4	3,658.04	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	73.68	1 1/2	428.88	1 1/2	790.83	1 1/2	1,141.37	1 1/2	1,498.45	1 1/2	1,860.45	1 1/2	2,222.46	1 1/2	2,584.47	1 1/2	2,944.64	1 1/2	3,305.11	1 1/2	3,665.58	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	80.42	3/4	436.40	3/4	798.38	3/4	1,148.57	3/4	1,505.99	3/4	1,867.99	3/4	2,230.00	3/4	2,592.01	3/4	2,952.18	3/4	3,312.65	3/4	3,673.12	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
3	87.16	3	443.92	3	805.92	3	1,155.77	3	1,513.53	3	1,875.54	3	2,237.54	3	2,599.55	3	2,959.73	3	3,320.20	3	3,680.67	3	3,995.85	3	4,356.28	3	4,716.71	3	
1 1/4	94.61	1 1/4	451.47	1 1/4	813.46	1 1/4	1,162.97	1 1/4	1,521.07	1 1/4	1,883.08	1 1/4	2,245.08	1 1/4	2,607.09	1 1/4	2,967.27	1 1/4	3,327.74	1 1/4	3,688.21	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	102.06	1 1/2	459.01	1 1/2	821.00	1 1/2	1,170.17	1 1/2	1,528.61	1 1/2	1,890.62	1 1/2	2,252.63	1 1/2	2,614.63	1 1/2	2,974.79	1 1/2	3,335.26	1 1/2	3,695.73	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	109.50	3/4	466.55	3/4	828.54	3/4	1,177.37	3/4	1,536.15	3/4	1,898.16	3/4	2,260.17	3/4	2,622.16	3/4	2,982.33	3/4	3,342.80	3/4	3,703.27	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
4	116.95	4	474.09	4	836.08	4	1,184.56	4	1,543.70	4	1,905.70	4	2,267.71	4	2,629.70	4	2,989.87	4	3,350.34	4	3,710.81	4	3,995.85	4	4,356.28	4	4,716.71	4	
1 1/4	124.48	1 1/4	481.63	1 1/4	843.62	1 1/4	1,191.76	1 1/4	1,551.24	1 1/4	1,913.24	1 1/4	2,275.25	1 1/4	2,637.25	1 1/4	2,997.42	1 1/4	3,357.89	1 1/4	3,718.36	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	132.01	1 1/2	489.17	1 1/2	851.17	1 1/2	1,198.96	1 1/2	1,558.78	1 1/2	1,920.79	1 1/2	2,282.79	1 1/2	2,644.79	1 1/2	3,004.95	1 1/2	3,365.42	1 1/2	3,725.89	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	139.53	3/4	496.72	3/4	858.71	3/4	1,206.16	3/4	1,566.32	3/4	1,928.33	3/4	2,290.33	3/4	2,652.34	3/4	3,012.49	3/4	3,372.92	3/4	3,733.39	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
5	147.06	5	504.26	5	866.25	5	1,213.36	5	1,573.96	5	1,935.87	5	2,297.88	5	2,659.89	5	3,020.03	5	3,380.46	5	3,740.93	5	3,995.85	5	4,356.28	5	4,716.71	5	
1 1/4	154.59	1 1/4	511.80	1 1/4	873.39	1 1/4	1,220.57	1 1/4	1,581.41	1 1/4	1,943.41	1 1/4	2,305.42	1 1/4	2,667.42	1 1/4	3,027.57	1 1/4	3,388.00	1 1/4	3,748.47	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	162.11	1 1/2	519.34	1 1/2	881.73	1 1/2	1,227.77	1 1/2	1,588.95	1 1/2	1,950.95	1 1/2	2,312.96	1 1/2	2,674.95	1 1/2	3,037.10	1 1/2	3,397.57	1 1/2	3,757.94	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	169.64	3/4	526.88	3/4	888.87	3/4	1,234.98	3/4	1,596.49	3/4	1,958.50	3/4	2,320.50	3/4	2,682.49	3/4	3,042.64	3/4	3,403.11	3/4	3,763.58	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
6	177.17	6	534.42	6	896.41	6	1,242.19	6	1,604.03	6	1,966.04	6	2,328.04	6	2,689.22	6	3,050.18	6	3,410.65	6	3,771.12	6	3,995.85	6	4,356.28	6	4,716.71	6	
1 1/4	184.58	1 1/4	541.96	1 1/4	903.67	1 1/4	1,249.69	1 1/4	1,611.57	1 1/4	1,973.58	1 1/4	2,335.59	1 1/4	2,696.65	1 1/4	3,057.72	1 1/4	3,418.19	1 1/4	3,778.66	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	191.99	1 1/2	549.51	1 1/2	910.92	1 1/2	1,257.11	1 1/2	1,619.11	1 1/2	1,981.12	1 1/2	2,343.13	1 1/2	2,704.08	1 1/2	3,065.26	1 1/2	3,422.73	1 1/2	3,783.20	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	199.40	3/4	557.05	3/4	918.17	3/4	1,264.69	3/4	1,626.66	3/4	1,988.66	3/4	2,350.67	3/4	2,711.51	3/4	3,072.80	3/4	3,433.27	3/4	3,793.74	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
7	206.81	7	564.59	7	925.42	7	1,272.19	7	1,634.20	7	1,998.20	7	2,358.21	7	2,719.05	7	3,080.34	7	3,441.81	7	3,802.28	7	3,995.85	7	4,356.28	7	4,716.71	7	
1 1/4	214.20	1 1/4	572.13	1 1/4	932.62	1 1/4	1,278.73	1 1/4	1,641.74	1 1/4	2,003.75	1 1/4	2,365.75	1 1/4	2,726.38	1 1/4	3,087.88	1 1/4	3,448.35	1 1/4	3,809.79	1 1/4	3,995.85	1 1/4	4,356.28	1 1/4	4,716.71	1 1/4	
1 1/2	221.59	1 1/2	579.67	1 1/2	939.82	1 1/2	1,287.28	1 1/2	1,648.28	1 1/2	2,011.29	1 1/2	2,373.29	1 1/2	2,733.81	1 1/2	3,095.42	1 1/2	3,451.89	1 1/2	3,813.36	1 1/2	3,995.85	1 1/2	4,356.28	1 1/2	4,716.71	1 1/2	
3/4	228.99	3/4	587.21	3/4	947.02	3/4	1,294.82	3/4	1,656.82	3/4	2,018.83	3/4	2,380.84	3/4	2,741.24	3/4	3,102.96	3/4	3,464.43	3/4	3,825.90	3/4	3,995.85	3/4	4,356.28	3/4	4,716.71	3/4	
8	236.38	8	594.75	8	954.22	8	1,302.36	8	1,664.37	8	2,026.37	8	2,388.38	8	2,748.68	8	3,110.49	8	3,472.37	8	3,835.31	8	3,995.85	8	4,356.28	8	4,716.71	8	
1 1/4	243.78	1 1/4	602.30	1 1/4	961.42	1 1/4	1,309.90	1 1/4	1,671.91	1 1/4	2,033.91	1 1/4	2,395.92	1 1/4	2,756.20														





# BARGE "EMS 511"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,592.99	1/4	3,954.86	1/4	4,316.04	1/4	4,683.82	1/4	5,052.65	1/4	5,422.89	1/4	5,794.97	1/4	6,168.43	1/4	6,543.77	1/4	6,920.50
1/4	3,600.53	1/2	3,962.40	1/2	4,323.46	1/2	4,691.24	1/2	5,061.61	1/2	5,432.45	1/2	5,803.29	1/2	6,174.72	1/2	6,547.56	1/2	6,922.29
1/2	3,608.07	3/4	3,969.94	3/4	4,330.88	3/4	4,700.00	3/4	5,070.84	3/4	5,441.49	3/4	5,812.33	3/4	6,182.56	3/4	6,553.40	3/4	6,925.13
3/4	3,615.61	1	3,977.48	1	4,338.30	1	4,708.88	1	5,079.72	1	5,450.16	1	5,820.60	1	6,191.04	1	6,561.48	1	6,927.66
1	3,623.15	1 1/4	3,985.02	1 1/4	4,345.72	1 1/4	4,715.98	1 1/4	5,086.42	1 1/4	5,456.86	1 1/4	5,827.30	1 1/4	6,202.08	1 1/4	6,572.52	1 1/4	6,929.74
1 1/4	3,630.69	1 1/2	3,992.56	1 1/2	4,353.10	1 1/2	4,726.85	1 1/2	5,096.86	1 1/2	5,467.30	1 1/2	5,837.74	1 1/2	6,214.60	1 1/2	6,584.06	1 1/2	6,932.29
1 1/2	3,638.22	3/4	4,000.10	3/4	4,360.49	3/4	4,733.79	3/4	5,107.23	3/4	5,477.67	3/4	5,848.11	3/4	6,227.12	3/4	6,596.56	3/4	6,934.81
3/4	3,645.76	1	4,007.64	1	4,367.88	1	4,741.92	1	5,111.36	1	5,485.01	1	5,855.45	1	6,239.60	1	6,608.00	1	6,937.39
2	3,653.30	1 1/4	4,015.17	1 1/4	4,375.27	1 1/4	4,749.68	1 1/4	5,119.12	1 1/4	5,492.45	1 1/4	5,862.89	1 1/4	6,251.60	1 1/4	6,615.52	1 1/4	6,939.78
1 1/4	3,660.84	1 1/2	4,022.71	1 1/2	4,382.63	1 1/2	4,758.85	1 1/2	5,126.66	1 1/2	5,500.10	1 1/2	5,873.54	1 1/2	6,263.68	1 1/2	6,622.44	1 1/2	6,942.29
1 1/2	3,668.38	3/4	4,030.25	3/4	4,389.99	3/4	4,767.53	3/4	5,133.80	3/4	5,507.24	3/4	5,880.12	3/4	6,275.72	3/4	6,629.32	3/4	6,944.81
3/4	3,675.92	1	4,037.79	1	4,397.35	1	4,775.35	1	5,140.16	1	5,514.58	1	5,887.46	1	6,287.80	1	6,636.20	1	6,947.39
3	3,683.46	1 1/4	4,045.33	1 1/4	4,404.71	1 1/4	4,783.88	1 1/4	5,147.60	1 1/4	5,522.00	1 1/4	5,894.88	1 1/4	6,299.88	1 1/4	6,643.08	1 1/4	6,949.78
1 1/4	3,691.00	1 1/2	4,052.87	1 1/2	4,412.03	1 1/2	4,791.91	1 1/2	5,154.60	1 1/2	5,529.42	1 1/2	5,901.90	1 1/2	6,311.96	1 1/2	6,650.00	1 1/2	6,952.29
1 1/2	3,698.54	3/4	4,060.41	3/4	4,419.36	3/4	4,800.00	3/4	5,161.54	3/4	5,536.36	3/4	5,913.84	3/4	6,324.00	3/4	6,656.88	3/4	6,954.81
3/4	3,706.08	1	4,067.95	1	4,426.68	1	4,807.53	1	5,168.48	1	5,543.40	1	5,926.88	1	6,336.08	1	6,663.76	1	6,957.39
4	3,713.61	1 1/4	4,075.49	1 1/4	4,434.01	1 1/4	4,815.06	1 1/4	5,175.42	1 1/4	5,550.32	1 1/4	5,939.36	1 1/4	6,348.16	1 1/4	6,670.64	1 1/4	6,959.78
1 1/4	3,721.15	1 1/2	4,083.03	1 1/2	4,441.30	1 1/2	4,823.43	1 1/2	5,182.36	1 1/2	5,557.24	1 1/2	5,951.84	1 1/2	6,360.24	1 1/2	6,677.52	1 1/2	6,962.29
1 1/2	3,728.69	3/4	4,090.56	3/4	4,448.59	3/4	4,831.91	3/4	5,189.30	3/4	5,564.16	3/4	5,964.64	3/4	6,372.32	3/4	6,684.40	3/4	6,964.81
3/4	3,736.23	1	4,098.10	1	4,455.88	1	4,840.00	1	5,196.24	1	5,571.08	1	5,977.12	1	6,384.40	1	6,691.28	1	6,967.39
5	3,743.77	1 1/4	4,105.64	1 1/4	4,463.17	1 1/4	4,848.43	1 1/4	5,203.16	1 1/4	5,578.00	1 1/4	5,989.20	1 1/4	6,396.48	1 1/4	6,698.16	1 1/4	6,969.78
1 1/4	3,751.31	1 1/2	4,113.18	1 1/2	4,470.43	1 1/2	4,856.88	1 1/2	5,210.08	1 1/2	5,585.12	1 1/2	5,996.24	1 1/2	6,408.56	1 1/2	6,705.04	1 1/2	6,972.29
1 1/2	3,758.85	3/4	4,120.72	3/4	4,477.69	3/4	4,864.34	3/4	5,217.00	3/4	5,592.00	3/4	6,003.12	3/4	6,420.64	3/4	6,711.92	3/4	6,974.81
3/4	3,766.39	1	4,128.26	1	4,484.96	1	4,872.88	1	5,223.92	1	5,600.00	1	6,015.12	1	6,432.72	1	6,718.80	1	6,977.39
6	3,773.93	1 1/4	4,135.80	1 1/4	4,492.22	1 1/4	4,880.73	1 1/4	5,230.84	1 1/4	5,607.04	1 1/4	6,027.24	1 1/4	6,444.80	1 1/4	6,725.68	1 1/4	6,979.78
1 1/4	3,781.47	1 1/2	4,143.34	1 1/2	4,499.45	1 1/2	4,888.09	1 1/2	5,237.76	1 1/2	5,614.00	1 1/2	6,039.36	1 1/2	6,456.88	1 1/2	6,732.56	1 1/2	6,982.29
1 1/2	3,789.01	3/4	4,150.88	3/4	4,506.88	3/4	4,896.91	3/4	5,244.68	3/4	5,620.88	3/4	6,051.28	3/4	6,468.96	3/4	6,739.44	3/4	6,984.81
3/4	3,796.54	1	4,158.42	1	4,513.91	1	4,904.97	1	5,251.60	1	5,627.76	1	6,063.36	1	6,480.00	1	6,746.32	1	6,987.39
7	3,804.08	1 1/4	4,165.95	1 1/4	4,521.14	1 1/4	4,913.55	1 1/4	5,258.52	1 1/4	5,634.72	1 1/4	6,075.44	1 1/4	6,492.08	1 1/4	6,753.20	1 1/4	6,989.78
1 1/4	3,811.62	1 1/2	4,173.49	1 1/2	4,528.34	1 1/2	4,921.91	1 1/2	5,265.44	1 1/2	5,641.60	1 1/2	6,087.52	1 1/2	6,504.16	1 1/2	6,760.08	1 1/2	6,992.29
1 1/2	3,819.16	3/4	4,181.03	3/4	4,535.54	3/4	4,930.00	3/4	5,272.36	3/4	5,648.00	3/4	6,099.60	3/4	6,516.24	3/4	6,766.96	3/4	6,994.81
3/4	3,826.70	1	4,188.57	1	4,542.73	1	4,938.43	1	5,279.28	1	5,654.88	1	6,111.68	1	6,528.32	1	6,773.84	1	6,997.39
8	3,834.24	1 1/4	4,196.11	1 1/4	4,549.93	1 1/4	4,946.70	1 1/4	5,286.20	1 1/4	5,661.76	1 1/4	6,123.84	1 1/4	6,540.40	1 1/4	6,780.72	1 1/4	6,999.78
1 1/4	3,841.78	1 1/2	4,203.64	1 1/2	4,557.09	1 1/2	4,954.46	1 1/2	5,293.12	1 1/2	5,668.64	1 1/2	6,135.92	1 1/2	6,552.48	1 1/2	6,787.60	1 1/2	7,002.29
1 1/2	3,849.32	3/4	4,211.18	3/4	4,564.26	3/4	4,962.22	3/4	5,300.00	3/4	5,675.52	3/4	6,148.00	3/4	6,564.64	3/4	6,794.48	3/4	7,004.81
3/4	3,856.86	1	4,218.71	1	4,571.42	1	4,970.00	1	5,306.92	1	5,682.00	1	6,160.08	1	6,576.72	1	6,801.36	1	7,007.39
9	3,864.39	1 1/4	4,226.25	1 1/4	4,578.59	1 1/4	4,977.55	1 1/4	5,313.84	1 1/4	5,689.12	1 1/4	6,172.24	1 1/4	6,588.80	1 1/4	6,808.24	1 1/4	7,009.78
1 1/4	3,871.93	1 1/2	4,233.76	1 1/2	4,585.72	1 1/2	4,985.46	1 1/2	5,320.76	1 1/2	5,696.00	1 1/2	6,184.32	1 1/2	6,599.84	1 1/2	6,815.12	1 1/2	7,012.29
1 1/2	3,879.47	3/4	4,241.28	3/4	4,592.85	3/4	4,993.91	3/4	5,327.68	3/4	5,702.88	3/4	6,196.40	3/4	6,610.96	3/4	6,821.00	3/4	7,014.81
3/4	3,887.01	1	4,248.79	1	4,599.88	1	4,998.43	1	5,334.60	1	5,709.76	1	6,208.48	1	6,622.08	1	6,827.88	1	7,017.39
10	3,894.55	1 1/4	4,256.31	1 1/4	4,607.12	1 1/4	4,938.64	1 1/4	5,341.52	1 1/4	5,716.64	1 1/4	6,220.56	1 1/4	6,634.16	1 1/4	6,834.72	1 1/4	7,019.78
1 1/4	3,902.09	1 1/2	4,263.79	1 1/2	4,614.22	1 1/2	4,945.33	1 1/2	5,348.44	1 1/2	5,723.52	1 1/2	6,232.64	1 1/2	6,646.24	1 1/2	6,841.60	1 1/2	7,022.29
1 1/2	3,909.63	3/4	4,271.28	3/4	4,621.32	3/4	4,952.03	3/4	5,355.36	3/4	5,730.40	3/4	6,244.72	3/4	6,658.32	3/4	6,848.48	3/4	7,024.81
3/4	3,917.17	1	4,278.76	1	4,628.43	1	4,958.72	1	5,362.28	1	5,737.28	1	6,256.80	1	6,670.40	1	6,855.36	1	7,027.39
11	3,924.71	1 1/4	4,286.24	1 1/4	4,635.53	1 1/4	4,965.41	1 1/4	5,369.20	1 1/4	5,744.16	1 1/4	6,268.88	1 1/4	6,682.48	1 1/4	6,862.24	1 1/4	7,029.78
1 1/4	3,932.25	1 1/2	4,293.69	1 1/2	4,642.60	1 1/2	4,972.39	1 1/2	5,376.12	1 1/2	5,751.04	1 1/2	6,280.96	1 1/2	6,694.56	1 1/2	6,869.12	1 1/2	7,032.29
1 1/2	3,939.78	3/4	4,301.14	3/4	4,649.68	3/4	4,979.37	3/4	5,383.04	3/4	5,757.92	3/4	6,293.04	3/4	6,706.64	3/4	6,876.00	3/4	7,034.81
3/4	3,947.32	1	4,308.59	1	4,656.75	1	4,986.35	1	5,389.96	1	5,764.80	1	6,305.12	1	6,718.72	1	6,882.88	1	7,037.39

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*Paul J. Mac*



# BARGE "EMS 511"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
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	21.25	0	352.97	0	711.98	0	1,072.03	0	1,432.14	0	1,792.41	0	2,152.66	0	2,512.84	0	2,872.84	0	3,232.96
1/4	25.46	1/4	360.33	1/4	719.48	1/4	1,079.53	1/4	1,439.64	1/4	1,799.92	1/4	2,160.16	1/4	2,520.35	1/4	2,880.33	1/4	3,239.41
1/2	29.67	1/2	367.69	1/2	726.99	1/2	1,087.02	1/2	1,447.15	1/2	1,807.42	1/2	2,167.66	1/2	2,527.85	1/2	2,887.82	1/2	3,246.87
3/4	33.88	3/4	375.04	3/4	734.49	3/4	1,094.52	3/4	1,454.65	3/4	1,814.93	3/4	2,175.17	3/4	2,535.35	3/4	2,895.31	3/4	3,254.32
1	38.08	1	382.40	1	742.00	1	1,102.02	1	1,462.16	1	1,822.43	1	2,182.67	1	2,542.86	1	2,902.80	1	3,261.78
1/4	43.54	1/4	389.76	1/4	749.50	1/4	1,109.51	1/4	1,469.67	1/4	1,829.94	1/4	2,190.18	1/4	2,550.36	1/4	2,910.29	1/4	3,269.23
1/2	49.00	1/2	397.12	1/2	757.01	1/2	1,117.01	1/2	1,477.17	1/2	1,837.44	1/2	2,197.68	1/2	2,557.87	1/2	2,917.78	1/2	3,276.69
3/4	54.45	3/4	404.48	3/4	764.51	3/4	1,124.50	3/4	1,487.18	3/4	1,847.45	3/4	2,207.69	3/4	2,565.37	3/4	2,925.27	3/4	3,284.14
2	59.91	2	411.83	2	772.02	2	1,132.00	2	1,492.18	2	1,852.46	2	2,212.69	2	2,572.87	2	2,932.76	2	3,291.60
1/4	66.62	1/4	419.32	1/4	779.52	1/4	1,139.50	1/4	1,499.69	1/4	1,859.96	1/4	2,220.19	1/4	2,580.38	1/4	2,940.25	1/4	3,299.05
1/2	73.33	1/2	426.81	1/2	787.03	1/2	1,146.99	1/2	1,507.19	1/2	1,867.47	1/2	2,227.69	1/2	2,587.88	1/2	2,947.74	1/2	3,306.51
3/4	80.04	3/4	434.29	3/4	794.53	3/4	1,154.49	3/4	1,514.70	3/4	1,874.97	3/4	2,235.20	3/4	2,595.39	3/4	2,955.23	3/4	3,313.97
3	86.75	3	441.78	3	802.04	3	1,161.98	3	1,522.21	3	1,882.48	3	2,242.70	3	2,602.89	3	2,962.72	3	3,321.42
1/4	94.16	1/4	449.29	1/4	809.55	1/4	1,169.48	1/4	1,529.71	1/4	1,889.98	1/4	2,250.21	1/4	2,610.39	1/4	2,970.21	1/4	3,328.89
1/2	101.57	1/2	456.79	1/2	817.05	1/2	1,176.98	1/2	1,537.22	1/2	1,897.49	1/2	2,257.71	1/2	2,617.90	1/2	2,977.70	1/2	3,336.36
3/4	108.98	3/4	464.30	3/4	824.56	3/4	1,184.47	3/4	1,544.72	3/4	1,905.00	3/4	2,265.21	3/4	2,625.40	3/4	2,985.19	3/4	3,343.83
4	116.40	4	471.80	4	832.06	4	1,191.97	4	1,552.23	4	1,912.50	4	2,272.72	4	2,632.90	4	2,992.68	4	3,351.30
1/4	123.89	1/4	479.31	1/4	839.57	1/4	1,199.47	1/4	1,559.73	1/4	1,920.01	1/4	2,280.22	1/4	2,640.40	1/4	3,000.17	1/4	3,358.77
1/2	131.38	1/2	486.81	1/2	847.07	1/2	1,206.97	1/2	1,567.24	1/2	1,927.51	1/2	2,287.73	1/2	2,647.91	1/2	3,007.66	1/2	3,366.24
3/4	138.87	3/4	494.32	3/4	854.58	3/4	1,214.48	3/4	1,574.74	3/4	1,935.02	3/4	2,295.23	3/4	2,655.41	3/4	3,015.14	3/4	3,373.71
5	146.36	5	501.82	5	862.08	5	1,221.98	5	1,582.25	5	1,942.52	5	2,302.73	5	2,662.91	5	3,022.63	5	3,381.18
1/4	153.85	1/4	509.33	1/4	869.59	1/4	1,229.48	1/4	1,589.76	1/4	1,950.03	1/4	2,310.24	1/4	2,670.41	1/4	3,030.12	1/4	3,388.65
1/2	161.34	1/2	516.84	1/2	877.09	1/2	1,236.99	1/2	1,597.26	1/2	1,957.54	1/2	2,317.74	1/2	2,677.92	1/2	3,037.61	1/2	3,396.13
3/4	168.83	3/4	524.34	3/4	884.60	3/4	1,244.49	3/4	1,604.77	3/4	1,965.04	3/4	2,325.25	3/4	2,685.42	3/4	3,045.10	3/4	3,403.60
6	176.32	6	531.85	6	892.11	6	1,252.00	6	1,612.27	6	1,972.55	6	2,332.75	6	2,692.92	6	3,052.59	6	3,411.07
1/4	183.69	1/4	539.35	1/4	899.60	1/4	1,259.51	1/4	1,619.78	1/4	1,980.05	1/4	2,340.25	1/4	2,700.42	1/4	3,060.08	1/4	3,418.54
1/2	191.07	1/2	546.86	1/2	907.10	1/2	1,267.01	1/2	1,627.28	1/2	1,987.56	1/2	2,347.76	1/2	2,707.93	1/2	3,067.57	1/2	3,426.01
3/4	198.44	3/4	554.36	3/4	914.60	3/4	1,274.52	3/4	1,634.79	3/4	1,995.06	3/4	2,355.26	3/4	2,715.43	3/4	3,075.06	3/4	3,433.48
7	205.82	7	561.87	7	922.10	7	1,282.02	7	1,642.30	7	2,002.57	7	2,362.77	7	2,722.93	7	3,082.55	7	3,440.95
1/4	213.18	1/4	569.37	1/4	929.60	1/4	1,289.53	1/4	1,649.80	1/4	2,010.08	1/4	2,370.27	1/4	2,730.43	1/4	3,090.04	1/4	3,448.42
1/2	220.53	1/2	576.88	1/2	937.10	1/2	1,297.03	1/2	1,657.31	1/2	2,017.58	1/2	2,377.77	1/2	2,737.94	1/2	3,097.53	1/2	3,455.89
3/4	227.89	3/4	584.38	3/4	944.59	3/4	1,304.54	3/4	1,664.81	3/4	2,025.09	3/4	2,385.28	3/4	2,745.44	3/4	3,105.02	3/4	3,463.37
8	235.25	8	591.89	8	952.09	8	1,312.05	8	1,672.32	8	2,032.59	8	2,392.78	8	2,752.94	8	3,112.51	8	3,470.84
1/4	242.61	1/4	599.39	1/4	959.59	1/4	1,319.55	1/4	1,679.82	1/4	2,040.10	1/4	2,400.28	1/4	2,760.44	1/4	3,120.00	1/4	3,478.31
1/2	249.96	1/2	606.90	1/2	967.08	1/2	1,327.06	1/2	1,687.33	1/2	2,047.60	1/2	2,407.79	1/2	2,767.95	1/2	3,127.49	1/2	3,485.78
3/4	257.32	3/4	614.41	3/4	974.58	3/4	1,334.56	3/4	1,694.84	3/4	2,055.10	3/4	2,415.29	3/4	2,775.45	3/4	3,134.98	3/4	3,493.25
9	264.68	9	621.91	9	982.08	9	1,342.07	9	1,702.34	9	2,062.61	9	2,422.80	9	2,782.96	9	3,142.47	9	3,500.72
1/4	272.04	1/4	629.42	1/4	989.57	1/4	1,349.57	1/4	1,709.85	1/4	2,070.11	1/4	2,430.30	1/4	2,790.45	1/4	3,149.93	1/4	3,508.66
1/2	279.39	1/2	636.92	1/2	997.07	1/2	1,357.08	1/2	1,717.35	1/2	2,077.62	1/2	2,437.80	1/2	2,797.99	1/2	3,157.39	1/2	3,516.61
3/4	286.75	3/4	644.43	3/4	1,004.56	3/4	1,364.59	3/4	1,724.86	3/4	2,085.12	3/4	2,445.31	3/4	2,805.43	3/4	3,164.85	3/4	3,524.56
10	294.11	10	651.93	10	1,012.06	10	1,372.09	10	1,732.36	10	2,092.62	10	2,452.81	10	2,812.92	10	3,172.31	10	3,532.51
1/4	301.47	1/4	659.44	1/4	1,019.56	1/4	1,379.60	1/4	1,739.87	1/4	2,100.13	1/4	2,460.32	1/4	2,820.41	1/4	3,179.77	1/4	3,540.46
1/2	308.83	1/2	666.94	1/2	1,027.05	1/2	1,387.10	1/2	1,747.38	1/2	2,107.63	1/2	2,467.82	1/2	2,827.90	1/2	3,187.22	1/2	3,548.41
3/4	316.18	3/4	674.45	3/4	1,034.55	3/4	1,394.61	3/4	1,754.88	3/4	2,115.14	3/4	2,475.32	3/4	2,835.39	3/4	3,194.68	3/4	3,556.36
11	323.54	11	681.95	11	1,042.05	11	1,402.11	11	1,762.39	11	2,122.64	11	2,482.83	11	2,842.88	11	3,202.13	11	3,564.31
1/4	330.90	1/4	689.46	1/4	1,049.54	1/4	1,409.62	1/4	1,769.89	1/4	2,130.14	1/4	2,490.33	1/4	2,850.37	1/4	3,209.59	1/4	3,572.26
1/2	338.26	1/2	696.96	1/2	1,057.04	1/2	1,417.13	1/2	1,777.40	1/2	2,137.65	1/2	2,497.84	1/2	2,857.86	1/2	3,217.04	1/2	3,580.21
3/4	345.61	3/4	704.47	3/4	1,064.53	3/4	1,424.63	3/4	1,784.90	3/4	2,145.15	3/4	2,505.34	3/4	2,865.35	3/4	3,224.50	3/4	3,588.16

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" HERMETIC VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-08" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

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

*Paul J. Mac*





# BARGE "EMS 511"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	3,550.93	1/4	3,744.88	1/4	3,938.16	1/4	4,118.09	1/4	4,280.55	1/4	4,432.18	1/4	4,584.13	1/4	4,735.51	1/4	4,886.44	1/4	5,036.92
1/2	3,554.97	1/2	3,748.93	1/2	3,942.08	1/2	4,121.63	1/2	4,284.48	1/2	4,446.84	1/2	4,608.20	1/2	4,769.56	1/2	4,930.92	1/2	5,092.28
3/4	3,559.01	3/4	3,752.97	3/4	3,946.00	3/4	4,125.17	3/4	4,288.42	3/4	4,450.78	3/4	4,612.14	3/4	4,773.50	3/4	4,934.86	3/4	5,096.22
1	3,563.05	1	3,757.01	1	3,949.92	1	4,128.72	1	4,292.35	1	4,454.71	1	4,616.07	1	4,777.43	1	4,938.79	1	5,100.15
1/4	3,567.09	1/4	3,761.05	1/4	3,953.84	1/4	4,132.26	1/4	4,296.29	1/4	4,458.65	1/4	4,620.01	1/4	4,781.37	1/4	4,942.73	1/4	5,104.09
1/2	3,571.13	1/2	3,765.09	1/2	3,957.73	1/2	4,135.76	1/2	4,300.28	1/2	4,462.64	1/2	4,624.00	1/2	4,785.36	1/2	4,946.72	1/2	5,108.08
3/4	3,575.17	3/4	3,769.13	3/4	3,961.62	3/4	4,139.26	3/4	4,304.26	3/4	4,466.14	3/4	4,627.50	3/4	4,788.82	3/4	4,950.18	3/4	5,112.04
1	3,579.21	1	3,773.17	1	3,965.51	1	4,142.75	1	4,308.25	1	4,470.13	1	4,631.49	1	4,792.85	1	4,954.22	1	5,116.00
1/4	3,583.25	1/4	3,777.21	1/4	3,969.41	1/4	4,146.25	1/4	4,312.24	1/4	4,474.02	1/4	4,635.26	1/4	4,796.62	1/4	4,958.18	1/4	5,119.96
1/2	3,587.29	1/2	3,781.25	1/2	3,973.27	1/2	4,149.72	1/2	4,316.23	1/2	4,477.98	1/2	4,639.20	1/2	4,800.80	1/2	4,962.14	1/2	5,123.92
3/4	3,591.33	3/4	3,785.29	3/4	3,977.13	3/4	4,153.18	3/4	4,320.21	3/4	4,481.94	3/4	4,643.16	3/4	4,804.76	3/4	4,966.10	3/4	5,127.88
1	3,595.37	1	3,789.33	1	3,980.99	1	4,156.64	1	4,324.20	1	4,485.90	1	4,647.12	1	4,808.72	1	4,970.06	1	5,131.84
1/4	3,599.42	1/4	3,793.37	1/4	3,984.85	1/4	4,160.11	1/4	4,328.19	1/4	4,489.86	1/4	4,651.08	1/4	4,812.68	1/4	4,974.02	1/4	5,135.80
1/2	3,603.46	1/2	3,797.41	1/2	3,988.68	1/2	4,163.54	1/2	4,332.18	1/2	4,493.82	1/2	4,655.04	1/2	4,816.64	1/2	4,977.98	1/2	5,139.76
3/4	3,607.50	3/4	3,801.46	3/4	3,992.51	3/4	4,166.98	3/4	4,336.17	3/4	4,497.78	3/4	4,659.00	3/4	4,820.60	3/4	4,981.94	3/4	5,143.72
1	3,611.54	1	3,805.50	1	3,996.34	1	4,170.42	1	4,340.15	1	4,501.72	1	4,663.04	1	4,824.56	1	4,985.90	1	5,147.68
1/4	3,615.58	1/4	3,809.54	1/4	4,000.16	1/4	4,173.85	1/4	4,344.14	1/4	4,505.68	1/4	4,667.00	1/4	4,828.52	1/4	4,989.86	1/4	5,151.64
1/2	3,619.62	1/2	3,813.58	1/2	4,003.96	1/2	4,177.25	1/2	4,348.13	1/2	4,509.52	1/2	4,670.96	1/2	4,832.48	1/2	4,993.82	1/2	5,155.60
3/4	3,623.66	3/4	3,817.62	3/4	4,007.75	3/4	4,180.65	3/4	4,352.12	3/4	4,513.46	3/4	4,674.90	3/4	4,836.42	3/4	4,997.78	3/4	5,159.56
1	3,627.70	1	3,821.66	1	4,011.55	1	4,184.06	1	4,356.10	1	4,517.30	1	4,678.84	1	4,840.36	1	5,001.74	1	5,163.52
1/4	3,631.74	1/4	3,825.70	1/4	4,015.34	1/4	4,187.46	1/4	4,360.09	1/4	4,521.14	1/4	4,682.78	1/4	4,845.30	1/4	5,005.70	1/4	5,167.48
1/2	3,635.78	1/2	3,829.74	1/2	4,019.10	1/2	4,190.83	1/2	4,363.95	1/2	4,525.08	1/2	4,686.72	1/2	4,850.24	1/2	5,009.66	1/2	5,171.44
3/4	3,639.82	3/4	3,833.78	3/4	4,022.97	3/4	4,194.19	3/4	4,367.80	3/4	4,528.92	3/4	4,690.66	3/4	4,854.20	3/4	5,013.62	3/4	5,175.40
1	3,643.86	1	3,837.82	1	4,026.63	1	4,197.56	1	4,371.65	1	4,532.76	1	4,694.60	1	4,858.16	1	5,017.58	1	5,179.36
1/4	3,647.91	1/4	3,841.86	1/4	4,030.40	1/4	4,200.93	1/4	4,375.51	1/4	4,536.70	1/4	4,698.54	1/4	4,862.12	1/4	5,021.54	1/4	5,183.32
1/2	3,651.95	1/2	3,845.90	1/2	4,034.13	1/2	4,204.27	1/2	4,378.38	1/2	4,540.54	1/2	4,702.48	1/2	4,866.04	1/2	5,025.50	1/2	5,187.28
3/4	3,655.99	3/4	3,849.95	3/4	4,037.86	3/4	4,207.61	3/4	4,381.26	3/4	4,544.48	3/4	4,706.42	3/4	4,870.92	3/4	5,029.46	3/4	5,191.24
1	3,660.03	1	3,853.99	1	4,041.60	1	4,210.94	1	4,384.13	1	4,548.42	1	4,710.36	1	4,874.88	1	5,033.42	1	5,195.20
1/4	3,664.07	1/4	3,858.03	1/4	4,045.33	1/4	4,214.28	1/4	4,387.01	1/4	4,552.36	1/4	4,714.30	1/4	4,878.82	1/4	5,037.38	1/4	5,199.16
1/2	3,668.11	1/2	3,862.07	1/2	4,049.03	1/2	4,217.59	1/2	4,388.66	1/2	4,556.30	1/2	4,718.24	1/2	4,882.76	1/2	5,041.34	1/2	5,203.12
3/4	3,672.15	3/4	3,866.11	3/4	4,052.74	3/4	4,220.90	3/4	4,390.32	3/4	4,560.24	3/4	4,722.18	3/4	4,886.70	3/4	5,045.30	3/4	5,207.08
1	3,676.19	1	3,870.15	1	4,056.44	1	4,224.20	1	4,393.97	1	4,564.18	1	4,726.12	1	4,890.64	1	5,049.26	1	5,211.04
1/4	3,680.23	1/4	3,874.19	1/4	4,060.14	1/4	4,227.51	1/4	4,393.63	1/4	4,568.12	1/4	4,730.06	1/4	4,894.60	1/4	5,053.22	1/4	5,215.00
1/2	3,684.27	1/2	3,878.23	1/2	4,063.80	1/2	4,230.79	1/2	4,397.51	1/2	4,572.06	1/2	4,734.00	1/2	4,898.48	1/2	5,057.18	1/2	5,218.96
3/4	3,688.31	3/4	3,882.26	3/4	4,067.47	3/4	4,234.07	3/4	4,397.51	3/4	4,576.00	3/4	4,738.94	3/4	4,902.46	3/4	5,061.14	3/4	5,222.92
1	3,692.35	1	3,886.30	1	4,071.14	1	4,237.35	1	4,401.26	1	4,580.12	1	4,742.86	1	4,906.32	1	5,065.10	1	5,226.88
1/4	3,696.39	1/4	3,890.34	1/4	4,074.81	1/4	4,240.62	1/4	4,405.19	1/4	4,584.05	1/4	4,746.79	1/4	4,910.28	1/4	5,069.06	1/4	5,230.84
1/2	3,700.44	1/2	3,894.35	1/2	4,078.44	1/2	4,243.87	1/2	4,409.12	1/2	4,587.98	1/2	4,750.72	1/2	4,914.24	1/2	5,073.02	1/2	5,234.80
3/4	3,704.48	3/4	3,898.37	3/4	4,082.08	3/4	4,247.11	3/4	4,413.05	3/4	4,591.90	3/4	4,754.65	3/4	4,918.18	3/4	5,076.98	3/4	5,238.76
1	3,708.52	1	3,902.39	1	4,085.72	1	4,250.36	1	4,416.98	1	4,595.82	1	4,758.58	1	4,922.22	1	5,080.94	1	5,242.72
1/4	3,712.56	1/4	3,906.41	1/4	4,089.35	1/4	4,253.60	1/4	4,420.91	1/4	4,599.75	1/4	4,762.51	1/4	4,926.18	1/4	5,084.90	1/4	5,246.68
1/2	3,716.60	1/2	3,910.39	1/2	4,092.96	1/2	4,256.81	1/2	4,424.84	1/2	4,603.68	1/2	4,766.44	1/2	4,930.24	1/2	5,088.86	1/2	5,250.64
3/4	3,720.64	3/4	3,914.38	3/4	4,096.57	3/4	4,260.02	3/4	4,428.77	3/4	4,607.61	3/4	4,770.37	3/4	4,934.20	3/4	5,092.82	3/4	5,254.60
1	3,724.68	1	3,918.36	1	4,100.17	1	4,263.23	1	4,432.70	1	4,611.54	1	4,774.30	1	4,938.16	1	5,096.78	1	5,258.56
1/4	3,728.72	1/4	3,922.35	1/4	4,103.78	1/4	4,266.45	1/4	4,436.63	1/4	4,615.47	1/4	4,778.23	1/4	4,942.12	1/4	5,100.74	1/4	5,262.52
1/2	3,732.76	1/2	3,926.30	1/2	4,107.36	1/2	4,269.97	1/2	4,440.56	1/2	4,619.40	1/2	4,782.16	1/2	4,946.08	1/2	5,104.70	1/2	5,266.48
3/4	3,736.80	3/4	3,930.25	3/4	4,110.93	3/4	4,273.50	3/4	4,444.49	3/4	4,623.34	3/4	4,786.09	3/4	4,950.04	3/4	5,108.66	3/4	5,270.44
1	3,740.84	1	3,934.20	1	4,114.51	1	4,277.02	1	4,448.43	1	4,627.28	1	4,790.02	1	4,954.00	1	5,112.62	1	5,274.40

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

PRECISION MEASUREMENT  
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Pearland, Texas 77588  
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*P. J. Mac*



# BARGE "EMS 511"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	
0	21.24	0	352.30	0	710.58	0	1,058.58	0	1,411.53	0	1,770.45	0	2,129.87	0	2,489.22	0	2,846.68	0	3,204.79	0	3,562.85	0	3,919.91	0	4,277.97	0	4,636.03	0	
1/4	25.45	1/4	359.64	1/4	718.07	1/4	1,065.73	1/4	1,418.66	1/4	1,777.94	1/4	2,137.35	1/4	2,496.71	1/4	2,856.12	1/4	3,215.53	1/4	3,574.94	1/4	3,934.35	1/4	4,293.76	1/4	4,652.81	1/4	
1/2	29.65	1/2	366.98	1/2	725.56	1/2	1,072.88	1/2	1,426.38	1/2	1,786.12	1/2	2,145.53	1/2	2,504.94	1/2	2,864.35	1/2	3,223.76	1/2	3,583.17	1/2	3,942.58	1/2	4,301.99	1/2	4,660.80	1/2	
3/4	33.86	3/4	374.32	3/4	733.05	3/4	1,080.04	3/4	1,433.81	3/4	1,792.92	3/4	2,152.33	3/4	2,511.74	3/4	2,871.15	3/4	3,230.56	3/4	3,589.97	3/4	3,949.38	3/4	4,308.79	3/4	4,667.94	3/4	
1	38.07	1	381.67	1	740.54	1	1,087.19	1	1,441.24	1	1,800.41	1	2,159.81	1	2,519.22	1	2,878.63	1	3,238.04	1	3,597.45	1	3,956.86	1	4,316.27	1	4,675.68	1	
1/4	43.51	1/4	389.01	1/4	748.03	1/4	1,094.34	1/4	1,448.67	1/4	1,807.89	1/4	2,167.30	1/4	2,526.71	1/4	2,886.12	1/4	3,245.53	1/4	3,604.94	1/4	3,964.35	1/4	4,323.76	1/4	4,683.17	1/4	
1/2	48.96	1/2	396.35	1/2	755.52	1/2	1,101.50	1/2	1,456.09	1/2	1,815.38	1/2	2,174.78	1/2	2,534.19	1/2	2,893.60	1/2	3,253.01	1/2	3,612.42	1/2	3,971.83	1/2	4,331.24	1/2	4,690.65	1/2	
3/4	54.40	3/4	403.70	3/4	763.01	3/4	1,108.65	3/4	1,463.52	3/4	1,822.87	3/4	2,182.27	3/4	2,541.63	3/4	2,901.09	3/4	3,260.50	3/4	3,619.91	3/4	3,979.32	3/4	4,339.73	3/4	4,698.14	3/4	
2	59.85	2	411.04	2	770.50	2	1,115.80	2	1,470.95	2	1,830.36	2	2,189.76	2	2,549.11	2	2,908.52	2	3,267.93	2	3,627.34	2	3,986.75	2	4,346.16	2	4,705.57	2	
1/4	65.53	1/4	418.51	1/4	777.99	1/4	1,122.96	1/4	1,478.43	1/4	1,837.85	1/4	2,197.24	1/4	2,556.65	1/4	2,916.06	1/4	3,275.47	1/4	3,634.88	1/4	3,994.29	1/4	4,353.70	1/4	4,713.11	1/4	
1/2	71.22	1/2	425.98	1/2	785.48	1/2	1,130.11	1/2	1,485.91	1/2	1,845.34	1/2	2,204.73	1/2	2,564.09	1/2	2,923.55	1/2	3,282.96	1/2	3,642.37	1/2	3,999.70	1/2	4,359.11	1/2	4,718.52	1/2	
3/4	76.90	3/4	433.45	3/4	792.97	3/4	1,137.26	3/4	1,493.39	3/4	1,852.82	3/4	2,212.22	3/4	2,571.63	3/4	2,931.04	3/4	3,290.45	3/4	3,649.86	3/4	3,999.21	3/4	4,359.62	3/4	4,719.03	3/4	
3	86.59	3	440.93	3	800.47	3	1,144.41	3	1,500.87	3	1,860.31	3	2,219.70	3	2,579.11	3	2,938.52	3	3,297.93	3	3,657.34	3	3,999.75	3	4,359.16	3	4,718.57	3	
1/4	93.98	1/4	448.42	1/4	807.71	1/4	1,151.82	1/4	1,508.36	1/4	1,867.80	1/4	2,227.19	1/4	2,586.55	1/4	2,946.01	1/4	3,305.42	1/4	3,664.83	1/4	3,999.24	1/4	4,359.65	1/4	4,719.06	1/4	
1/2	101.38	1/2	455.91	1/2	814.95	1/2	1,159.22	1/2	1,515.85	1/2	1,875.29	1/2	2,234.68	1/2	2,594.03	1/2	2,953.50	1/2	3,312.91	1/2	3,672.32	1/2	3,999.73	1/2	4,359.14	1/2	4,718.55	1/2	
3/4	108.78	3/4	463.40	3/4	822.19	3/4	1,166.62	3/4	1,523.33	3/4	1,882.78	3/4	2,242.16	3/4	2,601.57	3/4	2,961.00	3/4	3,320.41	3/4	3,679.82	3/4	3,999.24	3/4	4,359.65	3/4	4,719.06	3/4	
4	116.17	4	470.89	4	829.44	4	1,174.02	4	1,530.82	4	1,890.27	4	2,249.65	4	2,609.06	4	2,968.47	4	3,327.88	4	3,687.29	4	3,999.75	4	4,359.16	4	4,718.57	4	
1/4	123.65	1/4	478.38	1/4	836.62	1/4	1,181.43	1/4	1,538.31	1/4	1,897.75	1/4	2,257.14	1/4	2,616.39	1/4	2,976.00	1/4	3,335.41	1/4	3,694.82	1/4	3,999.24	1/4	4,359.65	1/4	4,719.06	1/4	
1/2	131.14	1/2	485.87	1/2	843.80	1/2	1,188.84	1/2	1,545.80	1/2	1,905.24	1/2	2,264.62	1/2	2,624.03	1/2	2,983.44	1/2	3,342.85	1/2	3,702.26	1/2	3,999.95	1/2	4,359.34	1/2	4,718.75	1/2	
3/4	138.62	3/4	493.36	3/4	850.98	3/4	1,196.25	3/4	1,553.29	3/4	1,912.73	3/4	2,272.11	3/4	2,631.52	3/4	2,990.93	3/4	3,349.94	3/4	3,709.35	3/4	3,999.97	3/4	4,359.38	3/4	4,718.79	3/4	
5	146.10	5	500.85	5	858.16	5	1,203.66	5	1,560.78	5	1,920.22	5	2,279.60	5	2,639.01	5	2,998.42	5	3,357.43	5	3,716.84	5	3,999.99	5	4,359.40	5	4,718.81	5	
1/4	153.57	1/4	508.34	1/4	865.34	1/4	1,211.07	1/4	1,568.26	1/4	1,927.71	1/4	2,287.08	1/4	2,646.49	1/4	2,999.90	1/4	3,358.91	1/4	3,718.32	1/4	3,999.99	1/4	4,359.40	1/4	4,718.81	1/4	
1/2	161.05	1/2	515.83	1/2	872.52	1/2	1,218.48	1/2	1,575.75	1/2	1,935.20	1/2	2,294.57	1/2	2,653.33	1/2	2,999.92	1/2	3,359.92	1/2	3,719.33	1/2	3,999.99	1/2	4,359.40	1/2	4,718.81	1/2	
3/4	168.53	3/4	523.32	3/4	879.70	3/4	1,225.89	3/4	1,583.24	3/4	1,942.68	3/4	2,302.06	3/4	2,661.47	3/4	2,999.94	3/4	3,360.93	3/4	3,720.34	3/4	3,999.99	3/4	4,359.40	3/4	4,718.81	3/4	
6	176.00	6	530.81	6	886.88	6	1,233.30	6	1,590.73	6	1,950.17	6	2,309.54	6	2,668.95	6	2,999.96	6	3,361.94	6	3,721.35	6	3,999.99	6	4,359.40	6	4,718.81	6	
1/4	183.36	1/4	538.30	1/4	894.04	1/4	1,240.73	1/4	1,598.22	1/4	1,957.66	1/4	2,317.03	1/4	2,676.46	1/4	2,999.98	1/4	3,362.95	1/4	3,722.36	1/4	3,999.99	1/4	4,359.40	1/4	4,718.81	1/4	
1/2	190.72	1/2	545.79	1/2	901.20	1/2	1,248.15	1/2	1,605.71	1/2	1,965.15	1/2	2,324.52	1/2	2,683.93	1/2	2,999.99	1/2	3,363.96	1/2	3,723.37	1/2	3,999.99	1/2	4,359.40	1/2	4,718.81	1/2	
3/4	198.08	3/4	553.28	3/4	908.36	3/4	1,255.58	3/4	1,613.20	3/4	1,972.84	3/4	2,332.00	3/4	2,691.41	3/4	2,999.99	3/4	3,364.97	3/4	3,724.38	3/4	3,999.99	3/4	4,359.40	3/4	4,718.81	3/4	
7	205.44	7	560.77	7	915.51	7	1,263.00	7	1,620.68	7	1,980.13	7	2,339.49	7	2,698.90	7	2,999.99	7	3,365.98	7	3,725.39	7	3,999.99	7	4,359.40	7	4,718.81	7	
1/4	212.78	1/4	568.26	1/4	922.67	1/4	1,270.43	1/4	1,628.17	1/4	1,987.62	1/4	2,346.98	1/4	2,706.39	1/4	2,999.99	1/4	3,366.99	1/4	3,726.40	1/4	3,999.99	1/4	4,359.40	1/4	4,718.81	1/4	
1/2	220.13	1/2	575.75	1/2	929.82	1/2	1,277.85	1/2	1,635.66	1/2	1,995.10	1/2	2,354.46	1/2	2,713.87	1/2	2,999.99	1/2	3,368.00	1/2	3,727.41	1/2	3,999.99	1/2	4,359.40	1/2	4,718.81	1/2	
3/4	227.47	3/4	583.24	3/4	936.97	3/4	1,285.28	3/4	1,643.15	3/4	2,002.59	3/4	2,361.95	3/4	2,719.36	3/4	2,999.99	3/4	3,369.01	3/4	3,728.42	3/4	3,999.99	3/4	4,359.40	3/4	4,718.81	3/4	
8	234.81	8	590.73	8	944.13	8	1,292.71	8	1,650.64	8	2,010.08	8	2,369.44	8	2,727.11	8	2,999.99	8	3,370.02	8	3,729.43	8	3,999.99	8	4,359.40	8	4,718.81	8	
1/4	242.15	1/4	598.22	1/4	951.28	1/4	1,300.13	1/4	1,658.13	1/4	2,017.57	1/4	2,376.92	1/4	2,734.33	1/4	2,999.99	1/4	3,371.03	1/4	3,730.44	1/4	3,999.99	1/4	4,359.40	1/4	4,718.81	1/4	
1/2	249.50	1/2	605.71	1/2	958.43	1/2	1,307.56	1/2	1,665.61	1/2	2,025.05	1/2	2,384.41	1/2	2,741.79	1/2	2,999.99	1/2	3,372.04	1/2	3,731.45	1/2	3,999.99	1/2	4,359.40	1/2	4,718.81	1/2	
3/4																													





# BARGE "EMS 511"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	3,522.94	1/4	3,716.12	1/4	3,908.61	1/4	4,087.77	1/4	4,249.46	1/4	4,404.30	1/4	4,553.38	1/4	4,696.81	1/4	4,834.59	1/4	4,966.72
1/4	3,526.96	1/2	3,720.15	1/2	3,912.52	1/2	4,091.30	1/2	4,253.38	1/2	4,407.81	1/2	4,556.39	1/2	4,700.22	1/2	4,837.59	1/2	4,968.22
1/2	3,530.99	3/4	3,724.17	3/4	3,916.42	3/4	4,094.83	3/4	4,257.30	3/4	4,411.88	3/4	4,560.86	3/4	4,703.81	3/4	4,840.59	3/4	4,970.22
3/4	3,535.01	1	3,728.19	1	3,920.33	1	4,098.36	1	4,261.22	1	4,415.81	1	4,564.79	1	4,706.74	1	4,845.07	1	4,974.22
1	3,539.04	1 1/4	3,732.22	1 1/4	3,924.23	1 1/4	4,101.88	1 1/4	4,265.14	1 1/4	4,419.81	1 1/4	4,568.79	1 1/4	4,709.74	1 1/4	4,848.07	1 1/4	4,977.22
1 1/4	3,543.06	1 1/2	3,736.24	1 1/2	3,928.11	1 1/2	4,105.36	1 1/2	4,269.11	1 1/2	4,423.81	1 1/2	4,572.79	1 1/2	4,712.74	1 1/2	4,851.02	1 1/2	4,979.22
1 1/2	3,547.09	3/4	3,740.27	3/4	3,931.98	3/4	4,108.85	3/4	4,273.08	3/4	4,427.81	3/4	4,576.79	3/4	4,715.74	3/4	4,854.02	3/4	4,981.22
3/4	3,551.11	2	3,744.29	2	3,935.86	2	4,112.33	2	4,277.06	2	4,431.81	2	4,580.79	2	4,719.74	2	4,857.02	2	4,984.22
2	3,555.14	2 1/4	3,748.32	2 1/4	3,939.73	2 1/4	4,115.81	2 1/4	4,281.03	2 1/4	4,435.81	2 1/4	4,584.79	2 1/4	4,723.74	2 1/4	4,861.02	2 1/4	4,988.22
2 1/4	3,559.16	2 1/2	3,752.34	2 1/2	3,943.58	2 1/2	4,119.26	2 1/2	4,285.00	2 1/2	4,439.81	2 1/2	4,588.79	2 1/2	4,727.74	2 1/2	4,865.02	2 1/2	4,991.22
2 1/2	3,563.19	3/4	3,756.37	3/4	3,947.43	3/4	4,122.71	3/4	4,304.86	3/4	4,443.81	3/4	4,592.79	3/4	4,731.74	3/4	4,868.02	3/4	4,994.22
3/4	3,567.21	3	3,760.39	3	3,951.27	3	4,126.15	3	4,292.94	3	4,447.81	3	4,596.79	3	4,735.74	3	4,872.02	3	4,997.22
3	3,571.23	3 1/4	3,764.42	3 1/4	3,955.12	3 1/4	4,129.60	3 1/4	4,296.91	3 1/4	4,451.81	3 1/4	4,600.79	3 1/4	4,739.74	3 1/4	4,876.02	3 1/4	4,999.22
3 1/4	3,575.26	3 1/2	3,768.44	3 1/2	3,958.93	3 1/2	4,133.02	3 1/2	4,300.89	3 1/2	4,455.81	3 1/2	4,604.79	3 1/2	4,743.74	3 1/2	4,880.02	3 1/2	5,002.22
3 1/2	3,579.28	1	3,772.46	1	3,962.74	1	4,136.44	1	4,304.86	1	4,459.81	1	4,608.79	1	4,747.74	1	4,884.02	1	5,005.22
1	3,583.31	1 1/4	3,776.49	1 1/4	3,966.55	1 1/4	4,139.86	1 1/4	4,308.83	1 1/4	4,463.81	1 1/4	4,612.79	1 1/4	4,751.74	1 1/4	4,888.02	1 1/4	5,008.22
1 1/4	3,587.33	1 1/2	3,780.51	1 1/2	3,970.36	1 1/2	4,143.28	1 1/2	4,312.80	1 1/2	4,467.81	1 1/2	4,616.79	1 1/2	4,755.74	1 1/2	4,892.02	1 1/2	5,011.22
1 1/2	3,591.36	3/4	3,784.54	3/4	3,974.14	3/4	4,146.67	3/4	4,316.77	3/4	4,471.81	3/4	4,620.79	3/4	4,759.74	3/4	4,896.02	3/4	5,014.22
3/4	3,595.38	2	3,788.56	2	3,977.92	2	4,150.05	2	4,320.74	2	4,475.81	2	4,624.79	2	4,763.74	2	4,900.02	2	5,017.22
2	3,599.41	2 1/4	3,792.59	2 1/4	3,981.70	2 1/4	4,153.44	2 1/4	4,324.72	2 1/4	4,479.81	2 1/4	4,628.79	2 1/4	4,767.74	2 1/4	4,904.02	2 1/4	5,020.22
2 1/4	3,603.43	2 1/2	3,796.61	2 1/2	3,985.48	2 1/2	4,156.82	2 1/2	4,328.68	2 1/2	4,483.81	2 1/2	4,632.79	2 1/2	4,771.74	2 1/2	4,908.02	2 1/2	5,023.22
2 1/2	3,607.46	3	3,800.64	3	3,989.22	3	4,160.18	3	4,332.52	3	4,487.81	3	4,636.79	3	4,775.74	3	4,912.02	3	5,026.22
3	3,611.48	3 1/4	3,804.66	3 1/4	3,992.97	3 1/4	4,163.53	3 1/4	4,336.36	3 1/4	4,491.81	3 1/4	4,640.79	3 1/4	4,779.74	3 1/4	4,916.02	3 1/4	5,029.22
3 1/4	3,615.51	3 1/2	3,808.69	3 1/2	3,996.72	3 1/2	4,166.88	3 1/2	4,340.20	3 1/2	4,495.81	3 1/2	4,644.79	3 1/2	4,783.74	3 1/2	4,919.02	3 1/2	5,032.22
3 1/2	3,619.53	1	3,812.71	1	4,000.47	1	4,170.23	1	4,344.03	1	4,499.81	1	4,648.79	1	4,787.74	1	4,922.02	1	5,035.22
1	3,623.55	1 1/4	3,816.74	1 1/4	4,004.19	1 1/4	4,173.55	1 1/4	4,348.89	1 1/4	4,503.81	1 1/4	4,652.79	1 1/4	4,791.74	1 1/4	4,926.02	1 1/4	5,038.22
1 1/4	3,627.58	1 1/2	3,820.76	1 1/2	4,007.90	1 1/2	4,176.88	1 1/2	4,349.75	1 1/2	4,507.81	1 1/2	4,656.79	1 1/2	4,795.74	1 1/2	4,930.02	1 1/2	5,041.22
1 1/2	3,631.60	3/4	3,824.78	3/4	4,011.62	3/4	4,180.20	3/4	4,352.61	3/4	4,511.81	3/4	4,660.79	3/4	4,799.74	3/4	4,934.02	3/4	5,044.22
3/4	3,635.63	2	3,828.81	2	4,015.34	2	4,183.52	2	4,355.47	2	4,515.81	2	4,664.79	2	4,803.74	2	4,938.02	2	5,047.22
2	3,639.65	2 1/4	3,832.83	2 1/4	4,019.03	2 1/4	4,186.81	2 1/4	4,357.11	2 1/4	4,519.81	2 1/4	4,668.79	2 1/4	4,807.74	2 1/4	4,942.02	2 1/4	5,050.22
2 1/4	3,643.68	2 1/2	3,836.86	2 1/2	4,022.71	2 1/2	4,190.10	2 1/2	4,358.75	2 1/2	4,523.81	2 1/2	4,672.79	2 1/2	4,811.74	2 1/2	4,946.02	2 1/2	5,053.22
2 1/2	3,647.70	3	3,840.88	3	4,026.40	3	4,193.39	3	4,360.39	3	4,527.81	3	4,676.79	3	4,815.74	3	4,950.02	3	5,056.22
3	3,651.73	3 1/4	3,844.91	3 1/4	4,030.08	3 1/4	4,196.69	3 1/4	4,362.03	3 1/4	4,531.81	3 1/4	4,680.79	3 1/4	4,819.74	3 1/4	4,954.02	3 1/4	5,059.22
3 1/4	3,655.75	3 1/2	3,848.93	3 1/2	4,033.73	3 1/2	4,199.95	3 1/2	4,364.03	3 1/2	4,535.81	3 1/2	4,682.79	3 1/2	4,823.74	3 1/2	4,958.02	3 1/2	5,062.22
3 1/2	3,659.78	1	3,852.95	1	4,037.38	1	4,203.21	1	4,366.03	1	4,539.81	1	4,684.79	1	4,827.74	1	4,962.02	1	5,065.22
1	3,663.80	1 1/4	3,856.97	1 1/4	4,041.03	1 1/4	4,206.47	1 1/4	4,368.11	1 1/4	4,543.81	1 1/4	4,690.79	1 1/4	4,829.74	1 1/4	4,966.02	1 1/4	5,068.22
1 1/4	3,667.83	1 1/2	3,860.99	1 1/2	4,044.68	1 1/2	4,209.73	1 1/2	4,370.11	1 1/2	4,547.81	1 1/2	4,694.79	1 1/2	4,833.74	1 1/2	4,970.02	1 1/2	5,071.22
1 1/2	3,671.85	3/4	3,864.99	3/4	4,048.31	3/4	4,212.96	3/4	4,372.11	3/4	4,551.81	3/4	4,698.79	3/4	4,837.74	3/4	4,974.02	3/4	5,074.22
3/4	3,675.87	2	3,868.99	2	4,051.93	2	4,216.19	2	4,374.11	2	4,555.81	2	4,702.79	2	4,841.74	2	4,978.02	2	5,077.22
2	3,679.90	2 1/4	3,872.99	2 1/4	4,055.55	2 1/4	4,219.42	2 1/4	4,376.11	2 1/4	4,559.81	2 1/4	4,706.79	2 1/4	4,845.74	2 1/4	4,982.02	2 1/4	5,080.22
2 1/4	3,683.92	2 1/2	3,876.99	2 1/2	4,059.17	2 1/2	4,222.65	2 1/2	4,378.11	2 1/2	4,563.81	2 1/2	4,710.79	2 1/2	4,849.74	2 1/2	4,986.02	2 1/2	5,083.22
2 1/2	3,687.95	3	3,880.96	3	4,062.76	3	4,225.84	3	4,380.11	3	4,567.81	3	4,714.79	3	4,851.74	3	4,988.02	3	5,086.22
3	3,691.97	3 1/4	3,884.93	3 1/4	4,066.35	3 1/4	4,229.04	3 1/4	4,382.11	3 1/4	4,571.81	3 1/4	4,718.79	3 1/4	4,855.74	3 1/4	4,992.02	3 1/4	5,089.22
3 1/4	3,696.00	3 1/2	3,888.90	3 1/2	4,069.94	3 1/2	4,232.23	3 1/2	4,384.11	3 1/2	4,575.81	3 1/2	4,722.79	3 1/2	4,859.74	3 1/2	4,996.02	3 1/2	5,092.22
3 1/2	3,700.02	1	3,892.87	1	4,073.53	1	4,235.43	1	4,386.11	1	4,579.81	1	4,726.79	1	4,863.74	1	4,999.02	1	5,095.22
1	3,704.05	1 1/4	3,896.81	1 1/4	4,077.09	1 1/4	4,238.94	1 1/4	4,388.11	1 1/4	4,583.81	1 1/4	4,730.79	1 1/4	4,867.74	1 1/4	4,999.02	1 1/4	5,098.22
1 1/4	3,708.07	1 1/2	3,900.74	1 1/2	4,080.65	1 1/2	4,242.45	1 1/2	4,390.11	1 1/2	4,587.81	1 1/2	4,734.79	1 1/2	4,871.74	1 1/2	5,002.02	1 1/2	5,101.22
1 1/2	3,712.10	3/4	3,904.68	3/4	4,084.21	3/4	4,245.95	3/4	4,392.11	3/4	4,591.81	3/4	4,738.79	3/4	4,875.74	3/4	5,005.02	3/4	5,104.22

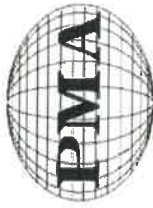
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*Paul J. Mac*



# **BARGE "EMS 511"** 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	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-3/8	- 03-3/8
3 STBD	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-5/8	- 01-5/8	02-1/4	- 02-1/4	02-3/4	- 02-3/4	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 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 259'-09"

January 4, 2019

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

<http://www.pmacorp.net>



# BARGE "EMS 511"

# 1 PORT

## ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

[illegible]

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7

**CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL**

**STANDARD CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK**

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE  
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

3/4	2,916.00	3/4
CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY		
Z, 014.11		

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092

**Pearland, Texas 77588**

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# BARGE "EMS 511"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,606.55	0	2,243.68	0	1,880.82	0	1,517.95	0	1,155.21	0	792.72	0	429.91	0	73.85	0			
1/4	2,598.99	1/4	2,236.12	1/4	1,873.26	1/4	1,510.39	1/4	1,147.67	1/4	785.16	1/4	422.37	1/4	67.10	1/4	1/4		
1/2	2,591.43	1/2	2,228.56	1/2	1,865.70	1/2	1,502.83	1/2	1,140.12	1/2	777.60	1/2	414.83	1/2	60.34	1/2	1/2	1/2	
3/4	2,583.87	3/4	2,221.00	3/4	1,858.14	3/4	1,495.27	3/4	1,132.57	3/4	770.04	3/4	407.41	3/4	54.84	3/4	3/4	3/4	
1	2,576.31	1	2,213.44	1	1,850.58	1	1,487.71	1	1,125.02	1	762.49	1	400.00	1	49.35	1	1	1	
1/4	2,568.75	1/4	2,205.88	1/4	1,843.02	1/4	1,480.15	1/4	1,117.48	1/4	754.93	1/4	392.59	1/4	43.85	1/4	1/4	1/4	
1/2	2,561.19	1/2	2,198.33	1/2	1,835.46	1/2	1,472.59	1/2	1,109.93	1/2	747.37	1/2	385.18	1/2	38.35	1/2	1/2	1/2	
3/4	2,553.63	3/4	2,190.77	3/4	1,827.90	3/4	1,465.03	3/4	1,102.38	3/4	739.81	3/4	377.77	3/4	34.11	3/4	3/4	3/4	
2	2,546.07	2	2,183.21	2	1,820.34	2	1,457.47	2	1,094.84	2	732.25	2	370.36	2	29.88	2	2	2	
1/4	2,538.51	1/4	2,175.65	1/4	1,812.78	1/4	1,449.91	1/4	1,087.29	1/4	724.69	1/4	362.94	1/4	25.64	1/4	1/4	1/4	
1/2	2,530.95	1/2	2,168.09	1/2	1,805.22	1/2	1,442.36	1/2	1,079.74	1/2	717.13	1/2	355.53	1/2	21.40	1/2	1/2	1/2	
3/4	2,523.39	3/4	2,160.53	3/4	1,797.66	3/4	1,434.80	3/4	1,072.19	3/4	709.57	3/4	348.12	3/4		3/4	3/4	3/4	
3	2,515.83	3	2,152.97	3	1,790.10	3	1,427.24	3	1,064.65	3	702.01	3	340.71	3		3	3	3	
1/4	2,508.27	1/4	2,145.41	1/4	1,782.54	1/4	1,419.68	1/4	1,057.10	1/4	694.45	1/4	333.30	1/4		1/4	1/4	1/4	
1/2	2,500.71	1/2	2,137.85	1/2	1,774.98	1/2	1,412.12	1/2	1,049.55	1/2	686.89	1/2	325.89	1/2		1/2	1/2	1/2	
3/4	2,493.15	3/4	2,130.29	3/4	1,767.42	3/4	1,404.56	3/4	1,042.00	3/4	679.33	3/4	318.47	3/4		3/4	3/4	3/4	
4	2,485.59	4	2,122.73	4	1,759.86	4	1,397.00	4	1,034.46	4	671.77	4	311.06	4		4	4	4	
1/4	2,478.03	1/4	2,115.17	1/4	1,752.30	1/4	1,389.44	1/4	1,026.91	1/4	664.21	1/4	303.65	1/4		1/4	1/4	1/4	
1/2	2,470.47	1/2	2,107.61	1/2	1,744.74	1/2	1,381.88	1/2	1,019.36	1/2	656.65	1/2	296.24	1/2		1/2	1/2	1/2	
3/4	2,462.91	3/4	2,100.05	3/4	1,737.18	3/4	1,374.32	3/4	1,011.82	3/4	649.09	3/4	288.83	3/4		3/4	3/4	3/4	
5	2,455.35	5	2,092.49	5	1,729.62	5	1,366.76	5	1,004.27	5	641.53	5	281.42	5		5	5	5	
1/4	2,447.80	1/4	2,084.93	1/4	1,722.06	1/4	1,359.20	1/4	996.72	1/4	633.98	1/4	274.00	1/4		1/4	1/4	1/4	
1/2	2,440.24	1/2	2,077.37	1/2	1,714.50	1/2	1,351.64	1/2	989.17	1/2	626.42	1/2	266.59	1/2		1/2	1/2	1/2	
3/4	2,432.68	3/4	2,069.81	3/4	1,706.94	3/4	1,344.08	3/4	981.63	3/4	618.86	3/4	259.18	3/4		3/4	3/4	3/4	
6	2,425.12	6	2,062.25	6	1,699.38	6	1,336.52	6	974.08	6	611.30	6	251.77	6		6	6	6	
1/4	2,417.56	1/4	2,054.69	1/4	1,691.83	1/4	1,328.96	1/4	966.53	1/4	603.74	1/4	244.36	1/4		1/4	1/4	1/4	
1/2	2,410.00	1/2	2,047.13	1/2	1,684.27	1/2	1,321.40	1/2	958.98	1/2	596.18	1/2	236.95	1/2		1/2	1/2	1/2	
3/4	2,402.44	3/4	2,039.57	3/4	1,676.71	3/4	1,313.84	3/4	951.44	3/4	588.62	3/4	229.53	3/4		3/4	3/4	3/4	
7	2,394.88	7	2,032.01	7	1,669.15	7	1,306.28	7	943.89	7	581.06	7	222.12	7		7	7	7	
1/4	2,387.32	1/4	2,024.45	1/4	1,661.59	1/4	1,298.72	1/4	936.34	1/4	573.50	1/4	214.71	1/4		1/4	1/4	1/4	
1/2	2,379.76	1/2	2,016.89	1/2	1,654.03	1/2	1,291.16	1/2	928.79	1/2	565.94	1/2	207.30	1/2		1/2	1/2	1/2	
3/4	2,372.20	3/4	2,009.33	3/4	1,646.47	3/4	1,283.60	3/4	921.23	3/4	558.38	3/4	199.87	3/4		3/4	3/4	3/4	
8	2,364.64	8	2,001.77	8	1,638.91	8	1,276.04	8	913.67	8	550.82	8	192.44	8		8	8	8	
1/4	2,357.08	1/4	1,994.21	1/4	1,631.35	1/4	1,268.48	1/4	906.11	1/4	543.26	1/4	185.01	1/4		1/4	1/4	1/4	
1/2	2,349.52	1/2	1,986.65	1/2	1,623.79	1/2	1,260.92	1/2	898.55	1/2	535.70	1/2	177.59	1/2		1/2	1/2	1/2	
3/4	2,341.96	3/4	1,979.09	3/4	1,616.23	3/4	1,253.36	3/4	890.99	3/4	528.14	3/4	170.04	3/4		3/4	3/4	3/4	
9	2,334.40	9	1,971.53	9	1,608.67	9	1,245.80	9	883.44	9	520.58	9	162.50	9		9	9	9	
1/4	2,326.84	1/4	1,963.97	1/4	1,601.11	1/4	1,238.25	1/4	875.88	1/4	513.02	1/4	154.95	1/4		1/4	1/4	1/4	
1/2	2,319.28	1/2	1,956.41	1/2	1,593.55	1/2	1,230.69	1/2	868.32	1/2	505.47	1/2	147.41	1/2		1/2	1/2	1/2	
3/4	2,311.72	3/4	1,948.85	3/4	1,585.99	3/4	1,223.14	3/4	860.76	3/4	497.91	3/4	139.86	3/4		3/4	3/4	3/4	
10	2,304.16	10	1,941.30	10	1,578.43	10	1,215.59	10	853.20	10	490.35	10	132.32	10		10	10	10	
1/4	2,296.60	1/4	1,933.74	1/4	1,570.87	1/4	1,208.05	1/4	845.64	1/4	482.79	1/4	124.77	1/4		1/4	1/4	1/4	
1/2	2,289.04	1/2	1,926.18	1/2	1,563.31	1/2	1,200.50	1/2	838.08	1/2	475.23	1/2	117.23	1/2		1/2	1/2	1/2	
3/4	2,281.48	3/4	1,918.62	3/4	1,555.75	3/4	1,192.95	3/4	830.52	3/4	467.67	3/4	109.76	3/4		3/4	3/4	3/4	
11	2,273.92	11	1,911.06	11	1,548.19	11	1,185.40	11	822.96	11	460.11	11	102.30	11		11	11	11	
1/4	2,266.36	1/4	1,903.50	1/4	1,540.63	1/4	1,177.86	1/4	815.40	1/4	452.55	1/4	94.83	1/4		1/4	1/4	1/4	
1/2	2,258.80	1/2	1,895.94	1/2	1,533.07	1/2	1,170.31	1/2	807.84	1/2	444.99	1/2	87.37	1/2		1/2	1/2	1/2	
3/4	2,251.24	3/4	1,888.38	3/4	1,525.51	3/4	1,162.76	3/4	800.28	3/4	437.45	3/4	80.61	3/4		3/4	3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*Paul J. Hume*





SHEET NO. 3 OF 12

*[Signature]*



# BARGE "EMS 511"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,611.88	0	2,249.07	0	1,886.25	0	1,523.43	0	1,161.26	0	800.19	0	437.40	0	80.60	0			
1/4	2,604.33	1/4	2,241.51	1/4	1,878.69	1/4	1,515.87	1/4	1,153.75	1/4	792.63	1/4	429.86	1/4	73.84	1/4		1/4	
1/2	2,596.77	1/2	2,233.95	1/2	1,871.13	1/2	1,508.31	1/2	1,146.25	1/2	785.07	1/2	422.32	1/2	67.09	1/2		1/2	
3/4	2,589.21	3/4	2,226.39	3/4	1,863.57	3/4	1,500.75	3/4	1,138.74	3/4	777.51	3/4	414.78	3/4	60.33	3/4		3/4	
1	2,581.65	1	2,218.83	1	1,856.01	1	1,493.20	1	1,131.23	1	769.95	1	407.37	1	54.84	1		1	
1/4	2,574.09	1/4	2,211.27	1/4	1,848.46	1/4	1,485.64	1/4	1,123.73	1/4	762.39	1/4	399.95	1/4	49.34	1/4		1/4	
1/2	2,566.53	1/2	2,203.71	1/2	1,840.90	1/2	1,478.08	1/2	1,116.22	1/2	754.83	1/2	392.54	1/2	43.84	1/2		1/2	
3/4	2,558.97	3/4	2,196.16	3/4	1,833.34	3/4	1,470.52	3/4	1,108.71	3/4	747.28	3/4	385.13	3/4	38.35	3/4		3/4	
2	2,551.41	2	2,188.60	2	1,825.78	2	1,462.96	2	1,101.20	2	739.72	2	377.72	2	34.11	2		2	
1/4	2,543.86	1/4	2,181.04	1/4	1,818.22	1/4	1,455.40	1/4	1,093.70	1/4	732.16	1/4	370.31	1/4	29.87	1/4		1/4	
1/2	2,536.30	1/2	2,173.48	1/2	1,810.66	1/2	1,447.84	1/2	1,086.19	1/2	724.60	1/2	362.90	1/2	25.64	1/2		1/2	
3/4	2,528.74	3/4	2,165.92	3/4	1,803.10	3/4	1,440.29	3/4	1,078.68	3/4	717.04	3/4	355.49	3/4	21.40	3/4		3/4	
3	2,521.18	3	2,158.36	3	1,795.54	3	1,432.73	3	1,071.18	3	709.48	3	348.08	3		3		3	
1/4	2,513.62	1/4	2,150.80	1/4	1,787.99	1/4	1,425.17	1/4	1,063.67	1/4	701.93	1/4	340.67	1/4		1/4		1/4	
1/2	2,506.06	1/2	2,143.24	1/2	1,780.43	1/2	1,417.61	1/2	1,056.16	1/2	694.37	1/2	333.26	1/2		1/2		1/2	
3/4	2,498.50	3/4	2,135.69	3/4	1,772.87	3/4	1,410.05	3/4	1,048.66	3/4	686.81	3/4	325.85	3/4		3/4		3/4	
4	2,490.94	4	2,128.13	4	1,765.31	4	1,402.49	4	1,041.15	4	679.25	4	318.44	4		4		4	
1/4	2,483.39	1/4	2,120.57	1/4	1,757.75	1/4	1,394.93	1/4	1,033.64	1/4	671.69	1/4	311.03	1/4		1/4		1/4	
1/2	2,475.83	1/2	2,113.01	1/2	1,750.19	1/2	1,387.37	1/2	1,026.14	1/2	664.13	1/2	303.61	1/2		1/2		1/2	
3/4	2,468.27	3/4	2,105.45	3/4	1,742.63	3/4	1,379.82	3/4	1,018.63	3/4	656.57	3/4	296.20	3/4		3/4		3/4	
5	2,460.71	5	2,097.89	5	1,735.07	5	1,372.26	5	1,011.12	5	649.02	5	288.79	5		5		5	
1/4	2,453.15	1/4	2,090.33	1/4	1,727.52	1/4	1,364.70	1/4	1,003.61	1/4	641.46	1/4	281.38	1/4		1/4		1/4	
1/2	2,445.59	1/2	2,082.77	1/2	1,719.96	1/2	1,357.14	1/2	996.11	1/2	633.90	1/2	273.97	1/2		1/2		1/2	
3/4	2,438.03	3/4	2,075.22	3/4	1,712.40	3/4	1,349.58	3/4	988.60	3/4	626.34	3/4	266.56	3/4		3/4		3/4	
6	2,430.47	6	2,067.66	6	1,704.84	6	1,342.02	6	981.09	6	618.78	6	259.15	6		6		6	
1/4	2,422.92	1/4	2,060.10	1/4	1,697.28	1/4	1,334.46	1/4	973.59	1/4	611.22	1/4	251.74	1/4		1/4		1/4	
1/2	2,415.36	1/2	2,052.54	1/2	1,689.72	1/2	1,326.90	1/2	966.08	1/2	603.66	1/2	244.33	1/2		1/2		1/2	
3/4	2,407.80	3/4	2,044.98	3/4	1,682.16	3/4	1,319.35	3/4	958.57	3/4	596.11	3/4	236.92	3/4		3/4		3/4	
7	2,400.24	7	2,037.42	7	1,674.60	7	1,311.79	7	951.06	7	588.55	7	229.51	7		7		7	
1/4	2,392.68	1/4	2,029.86	1/4	1,667.05	1/4	1,304.23	1/4	943.56	1/4	580.99	1/4	222.10	1/4		1/4		1/4	
1/2	2,385.12	1/2	2,022.31	1/2	1,659.49	1/2	1,296.67	1/2	936.05	1/2	573.43	1/2	214.68	1/2		1/2		1/2	
3/4	2,377.56	3/4	2,014.75	3/4	1,651.93	3/4	1,289.11	3/4	928.54	3/4	565.87	3/4	207.27	3/4		3/4		3/4	
8	2,370.01	8	2,007.19	8	1,644.37	8	1,281.56	8	921.02	8	558.31	8	199.85	8		8		8	
1/4	2,362.45	1/4	1,999.63	1/4	1,636.81	1/4	1,274.00	1/4	913.49	1/4	550.76	1/4	192.42	1/4		1/4		1/4	
1/2	2,354.89	1/2	1,992.07	1/2	1,629.25	1/2	1,266.45	1/2	905.97	1/2	543.20	1/2	184.99	1/2		1/2		1/2	
3/4	2,347.33	3/4	1,984.51	3/4	1,621.69	3/4	1,258.90	3/4	898.45	3/4	535.64	3/4	177.56	3/4		3/4		3/4	
9	2,339.77	9	1,976.95	9	1,614.14	9	1,251.38	9	890.89	9	528.08	9	170.02	9		9		9	
1/4	2,332.21	1/4	1,969.39	1/4	1,606.58	1/4	1,243.86	1/4	883.33	1/4	520.52	1/4	162.48	1/4		1/4		1/4	
1/2	2,324.65	1/2	1,961.84	1/2	1,599.02	1/2	1,236.34	1/2	875.77	1/2	512.96	1/2	154.93	1/2		1/2		1/2	
3/4	2,317.09	3/4	1,954.28	3/4	1,591.46	3/4	1,228.82	3/4	868.21	3/4	505.40	3/4	147.39	3/4		3/4		3/4	
10	2,309.54	10	1,946.72	10	1,583.90	10	1,221.32	10	860.65	10	497.85	10	139.85	10		10		10	
1/4	2,301.98	1/4	1,939.16	1/4	1,576.34	1/4	1,213.81	1/4	853.10	1/4	490.29	1/4	132.30	1/4		1/4		1/4	
1/2	2,294.42	1/2	1,931.60	1/2	1,568.78	1/2	1,206.30	1/2	845.54	1/2	482.73	1/2	124.76	1/2		1/2		1/2	
3/4	2,286.86	3/4	1,924.04	3/4	1,561.22	3/4	1,198.80	3/4	837.98	3/4	475.17	3/4	117.22	3/4		3/4		3/4	
11	2,279.30	11	1,916.48	11	1,553.67	11	1,191.29	11	830.42	11	467.61	11	109.75	11		11		11	
1/4	2,271.74	1/4	1,908.92	1/4	1,546.11	1/4	1,183.78	1/4	822.86	1/4	460.05	1/4	102.29	1/4		1/4		1/4	
1/2	2,264.18	1/2	1,901.37	1/2	1,538.55	1/2	1,176.28	1/2	815.30	1/2	452.49	1/2	94.82	1/2		1/2		1/2	
3/4	2,256.62	3/4	1,893.81	3/4	1,530.99	3/4	1,168.77	3/4	807.74	3/4	444.94	3/4	87.36	3/4		3/4		3/4	

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PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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*P. J. Pearce*





**SHEET NO. 5 OF 12**



# BARGE "EMS 511"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0	2,606.43	0	2,244.63	0	1,882.83	0	1,521.03	0	1,159.35	0	797.92	0	436.15	0	80.37	0			
1/4	2,598.89	1/4	2,237.09	1/4	1,875.29	1/4	1,513.49	1/4	1,151.82	1/4	790.38	1/4	428.63	1/4	73.64	1/4		1/4	
1/2	2,591.35	1/2	2,229.55	1/2	1,867.75	1/2	1,505.95	1/2	1,144.29	1/2	782.85	1/2	421.12	1/2	66.90	1/2		1/2	
3/4	2,583.82	3/4	2,222.02	3/4	1,860.22	3/4	1,498.42	3/4	1,136.77	3/4	775.31	3/4	413.60	3/4	60.16	3/4		3/4	
1	2,576.28	1	2,214.48	1	1,852.68	1	1,490.88	1	1,129.24	1	767.77	1	406.21	1	54.68	1		1	
1/4	2,568.74	1/4	2,206.94	1/4	1,845.14	1/4	1,483.34	1/4	1,121.72	1/4	760.24	1/4	398.82	1/4	43.72	1/4		1/4	
1/2	2,561.20	1/2	2,199.40	1/2	1,837.60	1/2	1,475.80	1/2	1,114.19	1/2	752.70	1/2	391.43	1/2	43.72	1/2		1/2	
3/4	2,553.67	3/4	2,191.87	3/4	1,830.07	3/4	1,468.27	3/4	1,106.67	3/4	745.16	3/4	384.04	3/4	38.24	3/4		3/4	
1	2,546.13	1	2,184.33	1	1,822.53	1	1,460.73	1	1,099.14	1	737.62	1	376.65	1	34.02	1		1	
1/4	2,538.59	1/4	2,176.79	1/4	1,814.99	1/4	1,453.19	1/4	1,091.62	1/4	730.09	1/4	369.26	1/4	29.79	1/4		1/4	
1/2	2,531.05	1/2	2,169.25	1/2	1,807.45	1/2	1,445.65	1/2	1,084.09	1/2	722.55	1/2	361.87	1/2	25.56	1/2		1/2	
3/4	2,523.52	3/4	2,161.72	3/4	1,799.92	3/4	1,438.12	3/4	1,076.57	3/4	715.01	3/4	354.48	3/4	21.34	3/4		3/4	
1	2,515.98	1	2,154.18	1	1,792.38	1	1,430.58	1	1,069.04	1	707.47	1	347.09	1		1		1	
1/4	2,508.44	1/4	2,146.64	1/4	1,784.84	1/4	1,423.04	1/4	1,061.52	1/4	699.94	1/4	339.70	1/4		1/4		1/4	
1/2	2,500.90	1/2	2,139.10	1/2	1,777.30	1/2	1,415.50	1/2	1,053.99	1/2	692.40	1/2	332.31	1/2		1/2		1/2	
3/4	2,493.37	3/4	2,131.57	3/4	1,769.77	3/4	1,407.97	3/4	1,046.47	3/4	684.86	3/4	324.92	3/4		3/4		3/4	
1	2,485.83	1	2,124.03	1	1,762.23	1	1,400.43	1	1,038.94	1	677.33	1	317.53	1		1		1	
1/4	2,478.29	1/4	2,116.49	1/4	1,754.69	1/4	1,392.89	1/4	1,031.42	1/4	669.79	1/4	310.14	1/4		1/4		1/4	
1/2	2,470.75	1/2	2,108.95	1/2	1,747.15	1/2	1,385.35	1/2	1,023.89	1/2	662.25	1/2	302.75	1/2		1/2		1/2	
3/4	2,463.22	3/4	2,101.42	3/4	1,739.62	3/4	1,377.82	3/4	1,016.36	3/4	654.71	3/4	295.36	3/4		3/4		3/4	
1	2,455.68	1	2,093.88	1	1,732.08	1	1,370.28	1	1,008.84	1	647.18	1	287.97	1		1		1	
1/4	2,448.14	1/4	2,086.34	1/4	1,724.54	1/4	1,362.74	1/4	1,001.31	1/4	639.64	1/4	280.59	1/4		1/4		1/4	
1/2	2,440.60	1/2	2,078.80	1/2	1,717.00	1/2	1,355.20	1/2	993.79	1/2	632.10	1/2	273.20	1/2		1/2		1/2	
3/4	2,433.07	3/4	2,071.27	3/4	1,709.47	3/4	1,347.67	3/4	986.26	3/4	624.57	3/4	265.81	3/4		3/4		3/4	
1	2,425.53	1	2,063.73	1	1,701.93	1	1,340.13	1	978.74	1	617.03	1	258.42	1		1		1	
1/4	2,417.99	1/4	2,056.19	1/4	1,694.39	1/4	1,332.59	1/4	971.21	1/4	609.49	1/4	251.03	1/4		1/4		1/4	
1/2	2,410.45	1/2	2,048.65	1/2	1,686.85	1/2	1,325.05	1/2	963.69	1/2	601.95	1/2	243.64	1/2		1/2		1/2	
3/4	2,402.92	3/4	2,041.12	3/4	1,679.32	3/4	1,317.52	3/4	956.16	3/4	594.42	3/4	236.25	3/4		3/4		3/4	
1	2,395.38	1	2,033.58	1	1,671.78	1	1,309.98	1	948.63	1	586.88	1	228.86	1		1		1	
1/4	2,387.84	1/4	2,026.04	1/4	1,664.24	1/4	1,302.44	1/4	941.11	1/4	579.34	1/4	221.47	1/4		1/4		1/4	
1/2	2,380.30	1/2	2,018.50	1/2	1,656.70	1/2	1,294.90	1/2	933.58	1/2	571.81	1/2	214.08	1/2		1/2		1/2	
3/4	2,372.77	3/4	2,010.97	3/4	1,649.17	3/4	1,287.37	3/4	926.05	3/4	564.27	3/4	206.69	3/4		3/4		3/4	
1	2,365.23	1	2,003.43	1	1,641.63	1	1,279.83	1	918.52	1	556.73	1	199.28	1		1		1	
1/4	2,357.69	1/4	1,995.89	1/4	1,634.09	1/4	1,272.29	1/4	910.98	1/4	549.19	1/4	191.88	1/4		1/4		1/4	
1/2	2,350.15	1/2	1,988.35	1/2	1,626.55	1/2	1,264.75	1/2	903.44	1/2	541.66	1/2	184.47	1/2		1/2		1/2	
3/4	2,342.62	3/4	1,980.82	3/4	1,619.02	3/4	1,257.22	3/4	895.90	3/4	534.12	3/4	177.07	3/4		3/4		3/4	
1	2,335.08	1	1,973.28	1	1,611.48	1	1,249.68	1	888.37	1	526.58	1	169.54	1		1		1	
1/4	2,327.54	1/4	1,965.74	1/4	1,603.94	1/4	1,242.14	1/4	880.83	1/4	519.04	1/4	162.02	1/4		1/4		1/4	
1/2	2,320.00	1/2	1,958.20	1/2	1,596.40	1/2	1,234.61	1/2	873.29	1/2	511.51	1/2	154.50	1/2		1/2		1/2	
3/4	2,312.47	3/4	1,950.67	3/4	1,588.87	3/4	1,227.07	3/4	865.76	3/4	503.97	3/4	146.98	3/4		3/4		3/4	
1	2,304.93	1	1,943.13	1	1,581.33	1	1,219.55	1	858.22	1	496.43	1	139.45	1		1		1	
1/4	2,297.39	1/4	1,935.59	1/4	1,573.79	1/4	1,212.02	1/4	850.68	1/4	488.90	1/4	131.93	1/4		1/4		1/4	
1/2	2,289.85	1/2	1,928.05	1/2	1,566.25	1/2	1,204.50	1/2	843.14	1/2	481.36	1/2	124.41	1/2		1/2		1/2	
3/4	2,282.32	3/4	1,920.52	3/4	1,558.72	3/4	1,196.97	3/4	835.61	3/4	473.82	3/4	116.89	3/4		3/4		3/4	
1	2,274.78	1	1,912.98	1	1,551.18	1	1,189.45	1	828.07	1	466.28	1	109.44	1		1		1	
1/4	2,267.24	1/4	1,905.44	1/4	1,543.64	1/4	1,181.92	1/4	820.53	1/4	458.75	1/4	102.00	1/4		1/4		1/4	
1/2	2,259.70	1/2	1,897.90	1/2	1,536.10	1/2	1,174.40	1/2	813.00	1/2	451.21	1/2	94.55	1/2		1/2		1/2	
3/4	2,252.17	3/4	1,890.37	3/4	1,528.57	3/4	1,166.87	3/4	805.46	3/4	443.67	3/4	87.11	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*P. J. Mac*





# BARGE "EMS 511"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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					
0	0		0	0	5,067.53	0	4,733.79	0	4,389.99	0	4,030.25	0	3,668.38	0	3,306.51	0	2,944.64	0	2,582.77	0	2,220.90	0	1,859.03	0	1,497.16	0	1,135.29		
1/4	1/4		1/4	1/4	5,060.09	1/4	4,726.85	1/4	4,382.63	1/4	4,022.71	1/4	3,660.84	1/4	3,298.97	1/4	2,937.10	1/4	2,575.23	1/4	2,213.36	1/4	1,851.49	1/4	1,489.62	1/4	1,127.75		
1/2	1/2		1/2	1/2	5,052.65	1/2	4,719.90	1/2	4,375.27	1/2	4,015.17	1/2	3,653.30	1/2	3,291.43	1/2	2,929.56	1/2	2,567.69	1/2	2,205.82	1/2	1,843.95	1/2	1,482.08	1/2	1,120.21		
3/4	3/4		3/4	3/4	5,045.21	3/4	4,712.92	3/4	4,367.88	3/4	4,007.64	3/4	3,645.76	3/4	3,283.89	3/4	2,922.02	3/4	2,559.15	3/4	2,197.28	3/4	1,835.41	3/4	1,473.54	3/4	1,117.34		
1	1		1	1	5,037.77	1	4,705.94	1	4,360.49	1	4,000.10	1	3,638.22	1	3,276.35	1	2,914.48	1	2,552.61	1	2,190.74	1	1,828.87	1	1,471.00	1	1,115.47		
1/4	1/4		1/4	1/4	5,030.33	1/4	4,698.96	1/4	4,353.10	1/4	3,992.56	1/4	3,630.69	1/4	3,268.81	1/4	2,906.94	1/4	2,545.07	1/4	2,183.20	1/4	1,821.33	1/4	1,469.46	1/4	1,113.60		
1/2	1/2		1/2	1/2	5,022.89	1/2	4,691.98	1/2	4,345.72	1/2	3,985.02	1/2	3,623.15	1/2	3,261.27	1/2	2,899.40	1/2	2,537.53	1/2	2,179.66	1/2	1,819.79	1/2	1,467.59	1/2	1,111.73		
3/4	3/4		3/4	3/4	5,015.50	3/4	4,684.94	3/4	4,338.30	3/4	3,977.48	3/4	3,615.61	3/4	3,253.74	3/4	2,891.86	3/4	2,533.99	3/4	2,177.89	3/4	1,817.92	3/4	1,465.72	3/4	1,109.86		
2	2		2	2	5,008.11	2	4,677.90	2	4,330.88	2	3,969.94	2	3,608.07	2	3,246.20	2	2,884.32	2	2,522.12	2	2,175.92	2	1,816.05	2	1,463.85	2	1,107.99		
1/4	1/4		1/4	1/4	5,000.72	1/4	4,670.36	1/4	4,323.46	1/4	3,962.40	1/4	3,600.53	1/4	3,238.66	1/4	2,876.79	1/4	2,518.92	1/4	2,172.72	1/4	1,814.14	1/4	1,461.98	1/4	1,106.12		
1/2	1/2		1/2	1/2	4,993.33	1/2	4,663.82	1/2	4,316.04	1/2	3,954.86	1/2	3,592.99	1/2	3,231.12	1/2	2,872.92	1/2	2,517.05	1/2	2,170.85	1/2	1,812.27	1/2	1,460.11	1/2	1,104.26		
3/4	3/4		3/4	3/4	4,986.35	3/4	4,656.75	3/4	4,308.59	3/4	3,947.32	3/4	3,585.45	3/4	3,223.58	3/4	2,870.05	3/4	2,515.18	3/4	2,168.98	3/4	1,810.40	3/4	1,458.24	3/4	1,102.40		
3	3		3	3	4,978.37	3	4,649.68	3	4,301.14	3	3,938.78	3	3,576.91	3	3,213.14	3	2,859.27	3	2,505.39	3	2,167.10	3	1,808.52	3	1,456.37	3	1,100.53		
1/4	1/4		1/4	1/4	4,972.39	1/4	4,642.60	1/4	4,293.69	1/4	3,932.25	1/4	3,570.37	1/4	3,208.50	1/4	2,854.63	1/4	2,503.76	1/4	2,165.23	1/4	1,806.65	1/4	1,454.50	1/4	1,098.66		
1/2	1/2		1/2	1/2	4,965.41	1/2	4,635.53	1/2	4,286.24	1/2	3,924.71	1/2	3,562.83	1/2	3,200.96	1/2	2,852.79	1/2	2,501.92	1/2	2,163.36	1/2	1,804.77	1/2	1,452.63	1/2	1,096.79		
3/4	3/4		3/4	3/4	4,958.72	3/4	4,628.43	3/4	4,278.76	3/4	3,917.17	3/4	3,555.30	3/4	3,193.42	3/4	2,849.68	3/4	2,500.09	3/4	2,161.49	3/4	1,802.90	3/4	1,450.76	3/4	1,094.90		
4	4		4	4	4,952.03	4	4,621.32	4	4,271.28	4	3,909.63	4	3,547.76	4	3,185.88	4	2,842.01	4	2,498.24	4	2,159.60	4	1,801.01	4	1,448.89	4	1,093.03		
1/4	1/4		1/4	1/4	4,945.33	1/4	4,614.22	1/4	4,263.79	1/4	3,902.09	1/4	3,540.22	1/4	3,178.35	1/4	2,838.32	1/4	2,496.37	1/4	2,157.73	1/4	1,799.14	1/4	1,447.02	1/4	1,091.16		
1/2	1/2		1/2	1/2	4,938.64	1/2	4,607.12	1/2	4,256.31	1/2	3,894.55	1/2	3,532.68	1/2	3,170.81	1/2	2,836.39	1/2	2,494.40	1/2	2,155.86	1/2	1,797.27	1/2	1,445.15	1/2	1,089.29		
3/4	3/4		3/4	3/4	4,931.91	3/4	4,598.98	3/4	4,248.79	3/4	3,887.01	3/4	3,525.14	3/4	3,163.27	3/4	2,834.51	3/4	2,492.52	3/4	2,153.99	3/4	1,795.40	3/4	1,443.28	3/4	1,087.42		
5	5		5	5	4,925.19	5	4,592.85	5	4,241.28	5	3,879.47	5	3,517.60	5	3,155.73	5	2,832.66	5	2,490.67	5	2,152.12	5	1,793.53	5	1,441.41	5	1,085.55		
1/4	1/4		1/4	1/4	4,918.46	1/4	4,585.72	1/4	4,233.76	1/4	3,871.93	1/4	3,510.06	1/4	3,148.19	1/4	2,828.92	1/4	2,488.80	1/4	2,150.66	1/4	1,791.66	1/4	1,439.54	1/4	1,083.68		
1/2	1/2		1/2	1/2	4,911.73	1/2	4,578.59	1/2	4,226.25	1/2	3,864.39	1/2	3,502.52	1/2	3,140.65	1/2	2,827.03	1/2	2,486.91	1/2	2,148.79	1/2	1,789.79	1/2	1,437.67	1/2	1,081.81		
3/4	3/4		3/4	3/4	4,904.97	3/4	4,571.42	3/4	4,218.71	3/4	3,856.86	3/4	3,494.98	3/4	3,133.11	3/4	2,825.10	3/4	2,484.98	3/4	2,146.86	3/4	1,787.92	3/4	1,435.80	3/4	1,079.94		
6	6		6	6	4,898.22	6	4,564.26	6	4,211.18	6	3,849.32	6	3,487.44	6	3,125.57	6	2,825.10	6	2,483.03	6	2,144.95	6	1,786.05	6	1,433.93	6	1,078.07		
1/4	1/4		1/4	1/4	4,891.46	1/4	4,557.09	1/4	4,203.64	1/4	3,841.78	1/4	3,479.91	1/4	3,118.03	1/4	2,756.20	1/4	2,481.10	1/4	2,143.08	1/4	1,784.18	1/4	1,432.06	1/4	1,076.20		
1/2	1/2		1/2	1/2	4,884.70	1/2	4,549.93	1/2	4,196.11	1/2	3,834.24	1/2	3,472.37	1/2	3,110.49	1/2	2,748.68	1/2	2,479.19	1/2	2,141.24	1/2	1,782.31	1/2	1,430.19	1/2	1,074.33		
3/4	3/4		3/4	3/4	4,877.91	3/4	4,542.73	3/4	4,188.57	3/4	3,826.70	3/4	3,464.83	3/4	3,102.96	3/4	2,741.24	3/4	2,477.24	3/4	2,139.38	3/4	1,780.44	3/4	1,428.32	3/4	1,072.46		
7	7		7	7	5,206.65	7	4,871.12	7	4,535.54	7	4,181.03	7	3,819.16	7	3,457.29	7	3,095.42	7	2,733.51	7	2,371.68	7	1,909.81	7	1,547.94	7	1,186.07		
1/4	1/4		1/4	1/4	5,201.54	1/4	4,864.34	1/4	4,528.34	1/4	4,173.49	1/4	3,811.62	1/4	3,449.75	1/4	3,087.88	1/4	2,729.91	1/4	2,369.81	1/4	1,907.94	1/4	1,546.07	1/4	1,184.20		
1/2	1/2		1/2	1/2	5,196.43	1/2	4,857.55	1/2	4,521.14	1/2	4,165.95	1/2	3,804.08	1/2	3,442.21	1/2	3,085.91	1/2	2,727.94	1/2	2,367.84	1/2	1,906.07	1/2	1,544.20	1/2	1,182.33		
3/4	3/4		3/4	3/4	5,190.11	3/4	4,850.73	3/4	4,513.91	3/4	4,158.42	3/4	3,796.54	3/4	3,434.67	3/4	3,078.04	3/4	2,725.97	3/4	2,365.87	3/4	1,904.20	3/4	1,542.33	3/4	1,180.46		
8	8		8	8	5,183.79	8	4,843.91	8	4,506.68	8	4,150.88	8	3,789.00	8	3,427.13	8	3,065.26	8	2,704.08	8	2,363.90	8	1,902.33	8	1,540.46	8	1,178.59		
1/4	1/4		1/4	1/4	5,177.47	1/4	4,837.09	1/4	4,499.45	1/4	4,143.34	1/4	3,781.47	1/4	3,419.59	1/4	3,057.72	1/4	2,696.65	1/4	2,361.93	1/4	1,898.59	1/4	1,538.59	1/4	1,176.72		
1/2	1/2		1/2	1/2	5,171.15	1/2	4,830.27	1/2	4,492.22	1/2	4,135.80	1/2	3,773.93	1/2	3,412.05	1/2	3,055.85	1/2	2,692.22	1/2	2,359.96	1/2	1,896.72	1/2	1,536.72	1/2	1,174.85		
3/4	3/4		3/4	3/4	5,163.85	3/4	4,823.43	3/4	4,484.96	3/4	4,128.26	3/4	3,766.39	3/4	3,404.52	3/4	3,042.64	3/4	2,681.78	3/4	2,357.97	3/4	1,894.85	3/4	1,534.85	3/4	1,173.00		
9	9		9	9	5,156.54	9	4,816.58	9	4,477.69	9	4,120.72	9	3,758.85	9	3,396.98	9	3,035.10	9	2,674.35	9	2,355.98	9	1,894.85	9	1,532.98	9	1,171.13		
1/4	1/4		1/4	1/4	5,149.24	1/4	4,809.73	1/4																					



# BARGE "EMS 511"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.			11 FT.			12 FT.			13 FT.			14 FT.			15 FT.			16 FT.			17 FT.			18 FT.			19 FT.		
IN			IN			IN			IN			IN			IN			IN			IN			IN			IN		
0	2,584.47	0	2,222.46	0	1,860.45	0	1,498.45	0	1,141.37	0	790.83	0	428.88	0	73.68	0													
1/4	2,576.92	1/4	2,214.92	1/4	1,852.91	1/4	1,490.90	1/4	1,134.18	1/4	783.29	1/4	421.36	1/4	66.94	1/4													
1/2	2,569.38	1/2	2,207.38	1/2	1,845.37	1/2	1,483.36	1/2	1,126.98	1/2	775.75	1/2	413.83	1/2	60.20	1/2													
3/4	2,561.84	3/4	2,199.83	3/4	1,837.83	3/4	1,475.82	3/4	1,119.78	3/4	788.21	3/4	406.44	3/4	54.71	3/4													
1	2,554.30	1	2,192.29	1	1,830.29	1	1,468.28	1	1,112.58	1	760.67	1	399.05	1	49.23	1													
1/4	2,546.76	1/4	2,184.75	1/4	1,822.74	1/4	1,460.74	1/4	1,105.38	1/4	753.13	1/4	391.65	1/4	43.75	1/4													
1/2	2,539.21	1/2	2,177.21	1/2	1,815.20	1/2	1,453.20	1/2	1,098.18	1/2	745.58	1/2	384.26	1/2	38.26	1/2													
3/4	2,531.67	3/4	2,169.67	3/4	1,807.66	3/4	1,445.65	3/4	1,090.99	3/4	735.04	3/4	376.86	3/4	34.03	3/4													
2	2,524.13	2	2,162.12	2	1,800.12	2	1,438.11	2	1,083.79	2	730.50	2	369.47	2	29.81	2													
1/4	2,516.59	1/4	2,154.58	1/4	1,792.58	1/4	1,430.57	1/4	1,076.59	1/4	722.96	1/4	362.08	1/4	25.58	1/4													
1/2	2,509.05	1/2	2,147.04	1/2	1,785.03	1/2	1,423.03	1/2	1,069.39	1/2	715.42	1/2	354.68	1/2	21.35	1/2													
3/4	2,501.51	3/4	2,139.50	3/4	1,777.49	3/4	1,415.49	3/4	1,062.19	3/4	707.88	3/4	347.29	3/4	11	3/4													
3	2,493.96	3	2,131.96	3	1,769.95	3	1,407.94	3	1,054.99	3	700.34	3	339.90	3	3	3													
1/4	2,486.42	1/4	2,124.42	1/4	1,762.41	1/4	1,400.40	1/4	1,047.80	1/4	692.79	1/4	332.50	1/4	1/4	1/4													
1/2	2,478.88	1/2	2,116.87	1/2	1,754.87	1/2	1,392.86	1/2	1,040.60	1/2	685.25	1/2	325.11	1/2	1/2	1/2													
3/4	2,471.34	3/4	2,109.33	3/4	1,747.33	3/4	1,385.32	3/4	1,033.40	3/4	677.71	3/4	317.71	3/4	3/4	3/4													
4	2,463.80	4	2,101.79	4	1,739.78	4	1,377.78	4	1,026.20	4	670.17	4	310.32	4	4	4													
1/4	2,456.25	1/4	2,094.25	1/4	1,732.24	1/4	1,370.24	1/4	1,019.00	1/4	662.63	1/4	302.93	1/4	1/4	1/4													
1/2	2,448.71	1/2	2,086.71	1/2	1,724.70	1/2	1,362.69	1/2	1,011.80	1/2	655.09	1/2	295.53	1/2	1/2	1/2													
3/4	2,441.17	3/4	2,079.16	3/4	1,717.16	3/4	1,355.15	3/4	1,004.61	3/4	647.55	3/4	288.14	3/4	3/4	3/4													
5	2,433.63	5	2,071.62	5	1,709.62	5	1,347.61	5	997.41	5	640.00	5	280.75	5	5	5													
1/4	2,426.09	1/4	2,064.08	1/4	1,702.07	1/4	1,340.07	1/4	990.21	1/4	632.46	1/4	273.35	1/4	1/4	1/4													
1/2	2,418.55	1/2	2,056.54	1/2	1,694.53	1/2	1,332.53	1/2	983.01	1/2	624.92	1/2	265.96	1/2	1/2	1/2													
3/4	2,411.00	3/4	2,049.00	3/4	1,686.99	3/4	1,324.98	3/4	975.81	3/4	617.38	3/4	258.56	3/4	3/4	3/4													
6	2,403.46	6	2,041.46	6	1,679.45	6	1,317.44	6	968.61	6	609.84	6	251.17	6	6	6													
1/4	2,395.92	1/4	2,033.91	1/4	1,671.91	1/4	1,309.90	1/4	961.42	1/4	602.30	1/4	243.78	1/4	1/4	1/4													
1/2	2,388.38	1/2	2,026.37	1/2	1,664.37	1/2	1,302.36	1/2	954.22	1/2	594.75	1/2	236.38	1/2	1/2	1/2													
3/4	2,380.84	3/4	2,018.83	3/4	1,656.82	3/4	1,294.82	3/4	947.02	3/4	587.21	3/4	228.99	3/4	3/4	3/4													
7	2,373.29	7	2,011.29	7	1,649.28	7	1,287.28	7	939.82	7	579.67	7	221.59	7	7	7													
1/4	2,365.75	1/4	2,003.75	1/4	1,641.74	1/4	1,279.73	1/4	932.62	1/4	572.13	1/4	214.20	1/4	1/4	1/4													
1/2	2,358.21	1/2	1,996.20	1/2	1,634.20	1/2	1,272.19	1/2	925.42	1/2	564.59	1/2	206.81	1/2	1/2	1/2													
3/4	2,350.67	3/4	1,988.66	3/4	1,626.66	3/4	1,264.69	3/4	918.17	3/4	557.05	3/4	199.40	3/4	3/4	3/4													
8	2,343.13	8	1,981.12	8	1,619.11	8	1,257.19	8	910.92	8	549.51	8	191.99	8	8	8													
1/4	2,335.59	1/4	1,973.58	1/4	1,611.57	1/4	1,249.69	1/4	903.67	1/4	541.96	1/4	184.58	1/4	1/4	1/4													
1/2	2,328.04	1/2	1,966.04	1/2	1,604.03	1/2	1,242.19	1/2	896.41	1/2	534.42	1/2	177.17	1/2	1/2	1/2													
3/4	2,320.50	3/4	1,958.50	3/4	1,596.49	3/4	1,234.98	3/4	888.87	3/4	526.88	3/4	169.64	3/4	3/4	3/4													
9	2,312.96	9	1,950.95	9	1,588.95	9	1,227.77	9	881.33	9	519.34	9	162.11	9	9	9													
1/4	2,305.42	1/4	1,943.41	1/4	1,581.41	1/4	1,220.57	1/4	873.79	1/4	511.80	1/4	154.59	1/4	1/4	1/4													
1/2	2,297.88	1/2	1,935.87	1/2	1,573.86	1/2	1,213.36	1/2	866.26	1/2	504.26	1/2	147.06	1/2	1/2	1/2													
3/4	2,290.33	3/4	1,928.33	3/4	1,566.32	3/4	1,206.16	3/4	858.71	3/4	496.72	3/4	139.53	3/4	3/4	3/4													
10	2,282.79	10	1,920.79	10	1,558.78	10	1,198.96	10	851.17	10	489.17	10	132.01	10	10	10													
1/4	2,275.25	1/4	1,913.24	1/4	1,551.24	1/4	1,191.76	1/4	843.62	1/4	481.63	1/4	124.48	1/4	1/4	1/4													
1/2	2,267.71	1/2	1,905.70	1/2	1,543.70	1/2	1,184.56	1/2	836.08	1/2	474.09	1/2	116.95	1/2	1/2	1/2													
3/4	2,260.17	3/4	1,898.16	3/4	1,536.15	3/4	1,177.37	3/4	828.54	3/4	466.55	3/4	109.50	3/4	3/4	3/4													
11	2,252.63	11	1,890.62	11	1,528.61	11	1,170.17	11	821.00	11	459.01	11	102.06	11	11	11													
1/4	2,245.08	1/4	1,883.08	1/4	1,521.07	1/4	1,162.97	1/4	813.46	1/4	451.47	1/4	94.61	1/4	1/4	1/4													
1/2	2,237.54	1/2	1,875.54	1/2	1,513.53	1/2	1,155.77	1/2	805.92	1/2	443.92	1/2	87.16	1/2	1/2	1/2													
3/4	2,230.00	3/4	1,867.99	3/4	1,505.99	3/4	1,148.57	3/4	798.38	3/4	436.40	3/4	80.42	3/4	3/4	3/4													

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*Paul J. Mac*





SHEET NO. 9 OF 12



# BARGE "EMS 511"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,595.39	0	2,235.20	0	1,874.97	0	1,514.70	0	1,154.49	0	794.53	0	434.29	0	80.04	0			
1/4	2,587.88	1/4	2,227.69	1/4	1,867.47	1/4	1,507.19	1/4	1,146.99	1/4	787.03	1/4	426.81	1/4	73.33	1/4	1/4		
1/2	2,580.38	1/2	2,220.19	1/2	1,859.96	1/2	1,499.69	1/2	1,139.50	1/2	779.52	1/2	419.32	1/2	66.62	1/2	1/2		
3/4	2,572.87	3/4	2,212.69	3/4	1,852.46	3/4	1,492.18	3/4	1,132.00	3/4	772.02	3/4	411.83	3/4	59.91	3/4	3/4		
1	2,565.37	1	2,205.18	1	1,844.95	1	1,484.68	1	1,124.50	1	764.51	1	404.48	1	54.45	1	1		
1/4	2,557.87	1/4	2,197.68	1/4	1,837.44	1/4	1,477.17	1/4	1,117.01	1/4	757.01	1/4	397.12	1/4	49.00	1/4	1/4		
1/2	2,550.36	1/2	2,190.18	1/2	1,829.94	1/2	1,469.67	1/2	1,109.51	1/2	749.50	1/2	389.76	1/2	43.54	1/2	1/2		
3/4	2,542.86	3/4	2,182.67	3/4	1,822.43	3/4	1,462.16	3/4	1,102.01	3/4	742.00	3/4	382.40	3/4	38.08	3/4	3/4		
2	2,535.35	2	2,175.17	2	1,814.93	2	1,454.65	2	1,094.52	2	734.49	2	375.04	2	33.87	2	2		
1/4	2,527.85	1/4	2,167.66	1/4	1,807.42	1/4	1,447.15	1/4	1,087.02	1/4	726.99	1/4	367.69	1/4	29.67	1/4	1/4		
1/2	2,520.35	1/2	2,160.16	1/2	1,799.92	1/2	1,439.64	1/2	1,079.53	1/2	719.48	1/2	360.33	1/2	25.46	1/2	1/2		
3/4	2,512.84	3/4	2,152.66	3/4	1,792.41	3/4	1,432.14	3/4	1,072.03	3/4	711.98	3/4	352.97	3/4	21.25	3/4	3/4		
3	2,505.34	3	2,145.15	3	1,784.90	3	1,424.63	3	1,064.53	3	704.47	3	345.61	3		3			
1/4	2,497.84	1/4	2,137.65	1/4	1,777.40	1/4	1,417.13	1/4	1,057.04	1/4	696.96	1/4	338.26	1/4		1/4	1/4		
1/2	2,490.33	1/2	2,130.14	1/2	1,769.89	1/2	1,409.62	1/2	1,049.54	1/2	689.46	1/2	330.90	1/2		1/2	1/2		
3/4	2,482.83	3/4	2,122.64	3/4	1,762.39	3/4	1,402.11	3/4	1,042.05	3/4	681.95	3/4	323.54	3/4		3/4	3/4		
4	2,475.32	4	2,115.14	4	1,754.88	4	1,394.61	4	1,034.55	4	674.45	4	316.18	4		4			
1/4	2,467.82	1/4	2,107.63	1/4	1,747.38	1/4	1,387.10	1/4	1,027.05	1/4	666.94	1/4	308.83	1/4		1/4	1/4		
1/2	2,460.32	1/2	2,100.13	1/2	1,739.87	1/2	1,379.60	1/2	1,019.56	1/2	659.44	1/2	301.47	1/2		1/2	1/2		
3/4	2,452.81	3/4	2,092.62	3/4	1,732.36	3/4	1,372.09	3/4	1,012.06	3/4	651.93	3/4	294.11	3/4		3/4	3/4		
5	2,445.31	5	2,085.12	5	1,724.86	5	1,364.59	5	1,004.56	5	644.43	5	286.75	5		5			
1/4	2,437.80	1/4	2,077.62	1/4	1,717.35	1/4	1,357.08	1/4	997.07	1/4	636.92	1/4	279.39	1/4		1/4	1/4		
1/2	2,430.30	1/2	2,070.11	1/2	1,709.85	1/2	1,349.57	1/2	989.57	1/2	629.42	1/2	272.04	1/2		1/2	1/2		
3/4	2,422.80	3/4	2,062.61	3/4	1,702.34	3/4	1,342.07	3/4	982.08	3/4	621.91	3/4	264.68	3/4		3/4	3/4		
6	2,415.29	6	2,055.10	6	1,694.84	6	1,334.56	6	974.58	6	614.41	6	257.32	6		6			
1/4	2,407.79	1/4	2,047.60	1/4	1,687.33	1/4	1,327.06	1/4	967.08	1/4	606.90	1/4	249.96	1/4		1/4	1/4		
1/2	2,400.28	1/2	2,040.10	1/2	1,679.82	1/2	1,319.55	1/2	959.59	1/2	599.39	1/2	242.61	1/2		1/2	1/2		
3/4	2,392.78	3/4	2,032.59	3/4	1,672.32	3/4	1,312.05	3/4	952.09	3/4	591.89	3/4	235.25	3/4		3/4	3/4		
7	2,385.28	7	2,025.09	7	1,664.81	7	1,304.54	7	944.59	7	584.38	7	227.89	7		7			
1/4	2,377.77	1/4	2,017.58	1/4	1,657.31	1/4	1,297.03	1/4	937.10	1/4	576.88	1/4	220.53	1/4		1/4	1/4		
1/2	2,370.27	1/2	2,010.08	1/2	1,649.80	1/2	1,289.51	1/2	929.60	1/2	569.37	1/2	213.18	1/2		1/2	1/2		
3/4	2,362.76	3/4	2,002.57	3/4	1,642.30	3/4	1,282.02	3/4	922.10	3/4	561.87	3/4	205.82	3/4		3/4	3/4		
8	2,355.26	8	1,995.06	8	1,634.79	8	1,274.52	8	914.60	8	554.36	8	198.44	8		8			
1/4	2,347.76	1/4	1,987.56	1/4	1,627.28	1/4	1,267.01	1/4	907.10	1/4	546.86	1/4	191.07	1/4		1/4	1/4		
1/2	2,340.25	1/2	1,980.05	1/2	1,619.78	1/2	1,259.51	1/2	899.60	1/2	539.35	1/2	183.69	1/2		1/2	1/2		
3/4	2,332.75	3/4	1,972.55	3/4	1,612.27	3/4	1,252.00	3/4	892.10	3/4	531.85	3/4	176.32	3/4		3/4	3/4		
9	2,325.25	9	1,965.04	9	1,604.77	9	1,244.49	9	884.60	9	524.34	9	168.83	9		9			
1/4	2,317.74	1/4	1,957.54	1/4	1,597.26	1/4	1,236.99	1/4	877.09	1/4	516.83	1/4	161.34	1/4		1/4	1/4		
1/2	2,310.24	1/2	1,950.03	1/2	1,589.76	1/2	1,229.48	1/2	869.59	1/2	509.33	1/2	153.85	1/2		1/2	1/2		
3/4	2,302.73	3/4	1,942.52	3/4	1,582.25	3/4	1,221.98	3/4	862.08	3/4	501.82	3/4	146.36	3/4		3/4	3/4		
10	2,295.23	10	1,935.02	10	1,574.74	10	1,214.48	10	854.58	10	494.32	10	138.87	10		10			
1/4	2,287.73	1/4	1,927.51	1/4	1,567.24	1/4	1,206.97	1/4	847.07	1/4	486.81	1/4	131.38	1/4		1/4	1/4		
1/2	2,280.22	1/2	1,920.01	1/2	1,559.73	1/2	1,199.47	1/2	839.57	1/2	479.31	1/2	123.89	1/2		1/2	1/2		
3/4	2,272.72	3/4	1,912.50	3/4	1,552.23	3/4	1,191.97	3/4	832.06	3/4	471.80	3/4	116.40	3/4		3/4	3/4		
11	2,265.21	11	1,905.00	11	1,544.72	11	1,184.47	11	824.56	11	464.30	11	108.98	11		11			
1/4	2,257.71	1/4	1,897.49	1/4	1,537.22	1/4	1,176.98	1/4	817.05	1/4	456.79	1/4	101.57	1/4		1/4	1/4		
1/2	2,250.21	1/2	1,889.98	1/2	1,529.71	1/2	1,169.48	1/2	809.55	1/2	449.29	1/2	94.16	1/2		1/2	1/2		
3/4	2,242.70	3/4	1,882.48	3/4	1,522.20	3/4	1,161.98	3/4	802.04	3/4	441.78	3/4	86.75	3/4		3/4	3/4		

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*P. J. Mac*







# BARGE "EMS 511"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0	2,571.57	0	2,212.22	0	1,852.82	0	1,493.39	0	1,137.26	0	792.97	0	433.45	0	78.90	0			
1/4	2,564.09	1/4	2,204.73	1/4	1,845.34	1/4	1,485.91	1/4	1,130.11	1/4	785.48	1/4	425.98	1/4	73.22	1/4		1/4	
1/2	2,556.60	1/2	2,197.24	1/2	1,837.85	1/2	1,478.43	1/2	1,122.96	1/2	777.99	1/2	418.51	1/2	66.53	1/2		1/2	
3/4	2,549.11	3/4	2,189.76	3/4	1,830.36	3/4	1,470.95	3/4	1,115.80	3/4	770.50	3/4	411.04	3/4	59.85	3/4		3/4	
1	2,541.63	1	2,182.27	1	1,822.87	1	1,463.52	1	1,108.65	1	763.01	1	403.70	1	54.40	1		1	
1/4	2,534.14	1/4	2,174.78	1/4	1,815.38	1/4	1,456.09	1/4	1,101.50	1/4	755.52	1/4	396.35	1/4	48.96	1/4		1/4	
1/2	2,526.65	1/2	2,167.30	1/2	1,807.89	1/2	1,448.67	1/2	1,094.34	1/2	748.03	1/2	389.01	1/2	43.51	1/2		1/2	
3/4	2,519.17	3/4	2,159.81	3/4	1,800.41	3/4	1,441.24	3/4	1,087.19	3/4	740.54	3/4	381.67	3/4	38.07	3/4		3/4	
2	2,511.68	2	2,152.32	2	1,792.92	2	1,433.81	2	1,080.04	2	733.05	2	374.32	2	33.86	2		2	
1/4	2,504.20	1/4	2,144.84	1/4	1,785.43	1/4	1,426.39	1/4	1,072.88	1/4	725.56	1/4	366.98	1/4	29.65	1/4		1/4	
1/2	2,496.71	1/2	2,137.35	1/2	1,777.94	1/2	1,418.96	1/2	1,065.73	1/2	718.07	1/2	359.64	1/2	25.45	1/2		1/2	
3/4	2,489.22	3/4	2,129.87	3/4	1,770.45	3/4	1,411.53	3/4	1,058.58	3/4	710.58	3/4	352.30	3/4	21.24	3/4		3/4	
3	2,481.74	3	2,122.38	3	1,762.96	3	1,404.11	3	1,051.42	3	703.09	3	344.95	3		3		3	
1/4	2,474.25	1/4	2,114.89	1/4	1,755.47	1/4	1,396.68	1/4	1,044.27	1/4	695.60	1/4	337.61	1/4		1/4		1/4	
1/2	2,466.76	1/2	2,107.41	1/2	1,747.99	1/2	1,389.25	1/2	1,037.12	1/2	688.11	1/2	330.27	1/2		1/2		1/2	
3/4	2,459.28	3/4	2,099.92	3/4	1,740.50	3/4	1,381.83	3/4	1,029.97	3/4	680.62	3/4	322.93	3/4		3/4		3/4	
4	2,451.79	4	2,092.43	4	1,733.01	4	1,374.40	4	1,022.81	4	673.13	4	315.58	4		4		4	
1/4	2,444.30	1/4	2,084.95	1/4	1,725.52	1/4	1,366.97	1/4	1,015.66	1/4	665.64	1/4	308.24	1/4		1/4		1/4	
1/2	2,436.82	1/2	2,077.46	1/2	1,718.03	1/2	1,359.55	1/2	1,008.51	1/2	658.15	1/2	300.90	1/2		1/2		1/2	
3/4	2,429.33	3/4	2,069.97	3/4	1,710.54	3/4	1,352.12	3/4	1,001.35	3/4	650.66	3/4	293.55	3/4		3/4		3/4	
5	2,421.84	5	2,062.49	5	1,703.06	5	1,344.69	5	994.20	5	643.17	5	286.21	5		5		5	
1/4	2,414.36	1/4	2,055.00	1/4	1,695.57	1/4	1,337.27	1/4	987.05	1/4	635.68	1/4	278.87	1/4		1/4		1/4	
1/2	2,406.87	1/2	2,047.51	1/2	1,688.08	1/2	1,329.84	1/2	979.89	1/2	628.19	1/2	271.53	1/2		1/2		1/2	
3/4	2,399.38	3/4	2,040.03	3/4	1,680.59	3/4	1,322.41	3/4	972.74	3/4	620.70	3/4	264.18	3/4		3/4		3/4	
6	2,391.90	6	2,032.54	6	1,673.10	6	1,314.99	6	965.59	6	613.21	6	256.84	6		6		6	
1/4	2,384.41	1/4	2,025.05	1/4	1,665.61	1/4	1,307.56	1/4	958.43	1/4	605.71	1/4	249.50	1/4		1/4		1/4	
1/2	2,376.92	1/2	2,017.57	1/2	1,658.13	1/2	1,300.13	1/2	951.28	1/2	598.22	1/2	242.15	1/2		1/2		1/2	
3/4	2,369.44	3/4	2,010.08	3/4	1,650.64	3/4	1,292.71	3/4	944.13	3/4	590.73	3/4	234.81	3/4		3/4		3/4	
7	2,361.95	7	2,002.59	7	1,643.15	7	1,285.28	7	936.97	7	583.24	7	227.47	7		7		7	
1/4	2,354.46	1/4	1,995.10	1/4	1,635.66	1/4	1,277.85	1/4	929.82	1/4	575.75	1/4	220.13	1/4		1/4		1/4	
1/2	2,346.98	1/2	1,987.62	1/2	1,628.17	1/2	1,270.43	1/2	922.67	1/2	568.26	1/2	212.78	1/2		1/2		1/2	
3/4	2,339.49	3/4	1,980.13	3/4	1,620.68	3/4	1,263.00	3/4	915.51	3/4	560.77	3/4	205.44	3/4		3/4		3/4	
8	2,332.00	8	1,972.64	8	1,613.20	8	1,255.58	8	908.36	8	553.28	8	198.08	8		8		8	
1/4	2,324.52	1/4	1,965.15	1/4	1,605.71	1/4	1,248.15	1/4	901.20	1/4	545.79	1/4	190.72	1/4		1/4		1/4	
1/2	2,317.03	1/2	1,957.66	1/2	1,598.22	1/2	1,240.73	1/2	894.04	1/2	538.30	1/2	183.36	1/2		1/2		1/2	
3/4	2,309.54	3/4	1,950.17	3/4	1,590.73	3/4	1,233.30	3/4	886.88	3/4	530.81	3/4	176.00	3/4		3/4		3/4	
9	2,302.06	9	1,942.68	9	1,583.24	9	1,225.89	9	879.70	9	523.32	9	168.53	9		9		9	
1/4	2,294.57	1/4	1,935.20	1/4	1,575.75	1/4	1,218.48	1/4	872.52	1/4	515.83	1/4	161.05	1/4		1/4		1/4	
1/2	2,287.08	1/2	1,927.71	1/2	1,568.26	1/2	1,211.07	1/2	865.34	1/2	508.34	1/2	153.57	1/2		1/2		1/2	
3/4	2,279.60	3/4	1,920.22	3/4	1,560.78	3/4	1,203.66	3/4	858.16	3/4	500.85	3/4	146.10	3/4		3/4		3/4	
10	2,272.11	10	1,912.73	10	1,553.29	10	1,196.25	10	850.98	10	493.36	10	138.62	10		10		10	
1/4	2,264.62	1/4	1,905.24	1/4	1,545.80	1/4	1,188.84	1/4	843.80	1/4	485.87	1/4	131.14	1/4		1/4		1/4	
1/2	2,257.14	1/2	1,897.75	1/2	1,538.31	1/2	1,181.43	1/2	836.62	1/2	478.38	1/2	123.65	1/2		1/2		1/2	
3/4	2,249.65	3/4	1,890.27	3/4	1,530.82	3/4	1,174.02	3/4	829.44	3/4	470.89	3/4	116.17	3/4		3/4		3/4	
11	2,242.16	11	1,882.78	11	1,523.33	11	1,166.62	11	822.19	11	463.40	11	108.78	11		11		11	
1/4	2,234.68	1/4	1,875.29	1/4	1,515.85	1/4	1,159.22	1/4	814.95	1/4	455.91	1/4	101.38	1/4		1/4		1/4	
1/2	2,227.19	1/2	1,867.80	1/2	1,508.36	1/2	1,151.82	1/2	807.71	1/2	448.42	1/2	93.98	1/2		1/2		1/2	
3/4	2,219.70	3/4	1,860.31	3/4	1,500.87	3/4	1,144.41	3/4	800.47	3/4	440.93	3/4	86.59	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/03/2019 CL  
CALCULATED: 01/04/2019 CL  
PRINTED: 01/04/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2019

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

*The J. J. Mac*